

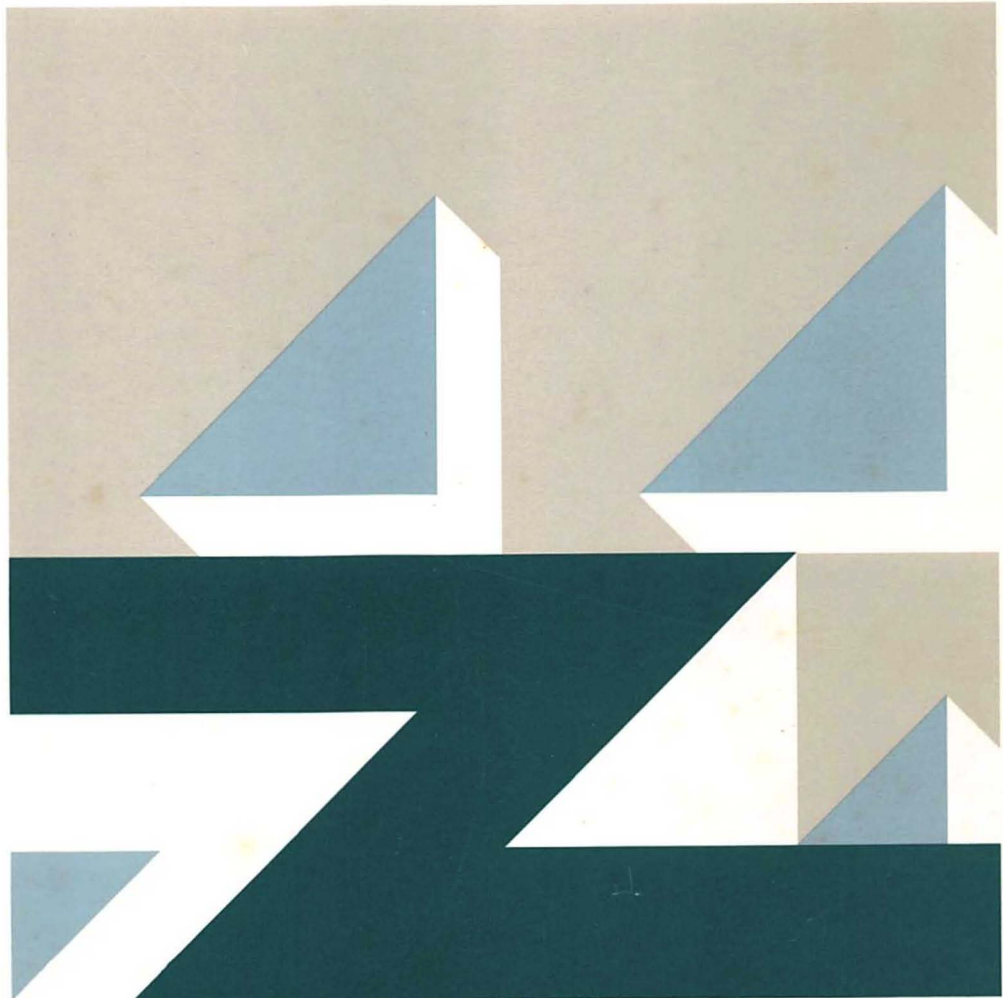


VTAM™

LY43-0045-0

## Data Areas for VM

Version 3 Release 3



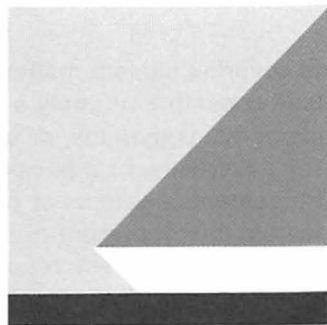


VTAM™

LY43-0045-0

## Data Areas for VM

Version 3 Release 3



File Number  
S370/4300/30XX-50

Program Numbers  
5684-052 (VM/9370 for VM/SP)  
5664-280 (VM/SP)

**First Edition (April 1990)**

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## About This Book

This manual is intended to help you diagnose VTAM™ problems. It contains descriptions of VTAM data areas, which must not be used as programming interface information. Any references to programming interfaces are for diagnostic purposes only.

This manual contains diagrams and information about data areas used by the Advanced Communications Function for VTAM Version 3 Release 3 running under VM/SP. This includes control blocks, request/response units, parameter lists, tables, and work areas.

## Who Should Use This Book

This publication is for system programmers and IBM personnel who are doing in-depth problem analysis for VTAM V3R3.

## How To Use This Book

This publication supplies reference information on data areas that may be used with *VTAM Diagnosis* in diagnosing VTAM V3R3 problems that occur on a VM/SP operating system.

## How This Book Is Organized

This book is divided into five chapters and two appendixes:

- Chapter 1, "Introduction" on page 1 describes the format and contents of the data area diagrams. The data area diagrams are divided into four parts: header, map, constants, and cross reference. The diagram usually contains the header and map parts, but the constants and cross reference parts of the diagram appear as necessary. A sample data area is provided as a guide to the data maps in the following chapters.
- Chapter 2, "VTAM Data Areas" on page 5 contains diagrams of VTAM control blocks. The headers of some control blocks may refer to the data diagram of another control block rather than repeat the data diagram.
- Chapter 3, "VSCS Data Areas" on page 465 contains diagrams of VTAM control blocks that are used by VSCS.
- Chapter 4, "Request/Response Units" on page 537 contains maps of the SNA RUs processed by VTAM. The RUs are listed by VTAM data area name. This chapter contains two tables to help you determine VTAM-processed RUs. The first table lists RUs by their SNA names and the second table lists RUs by their request codes.
- Chapter 5, "Session Keys and Control Vectors" on page 783 contains maps of the vectors and session keys that the RUs shown in Chapter 4, "Request/Response Units" on page 537 may include. The vectors and session keys are in hexadecimal order.
- Appendix A, "VTAM Control Block ID Codes" on page 849 lists the VTAM control blocks that can be identified in a storage dump by the ID code that begins in the first byte of the control block (offset 0).

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- Appendix B, "VSCS Storage and Control Block Identifiers" on page 851 lists the VSCS control blocks that can be identified in a storage dump by the ID code beginning in the first byte of the control block (offset 0).

## Where to Find More Information

Table 1 shows the books in the VTAM V3R3 library, arranged according to related tasks.

For a description of these manuals, see the bibliography at the back of this book. The bibliography also lists the titles and order numbers of manuals related to this manual or cited by name in this manual.

*Table 1. The VTAM V3R3 Library*

<b>Planning</b>	
SC31-6811	<i>Planning and Reference for NetView, NCP, and VTAM</i>
GC31-6429	<i>VTAM Directory of Migration Information</i>
SK2T-2010	<i>VTAM Storage Estimates (diskette only)</i>
<b>Installation and Resource Definition</b>	
SC31-6404	<i>VTAM Network Implementation Guide</i>
SC31-6412	<i>VTAM Resource Definition Reference</i>
<b>Customization</b>	
LY43-0046	<i>VTAM Customization</i>
<b>Operation</b>	
SC31-6408	<i>VTAM Operation</i>
SC31-6405	<i>VTAM Messages and Codes</i>
<b>Writing Application Programs</b>	
SC31-6409	<i>VTAM Programming</i>
SC31-6410	<i>VTAM Programming for LU 6.2</i>
<b>Diagnosis</b>	
LY43-0042	<i>VTAM Diagnosis</i>
LY30-5594 (V3R2)	<i>VTAM Data Areas for VSE</i>
LY43-0043 (V3R3)	<i>VTAM Data Areas for MVS</i>
LY43-0045 (V3R3)	<i>VTAM Data Areas for VM</i>
<b>Reference</b>	
LY43-0047	<i>VTAM Reference Summary</i>
GC31-6815	<i>Bibliography and Master Index for NetView, NCP, and VTAM</i>

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## Chapter 1. Introduction

This manual contains diagrams and other information about data areas for VTAM™ running under VM/SP. This includes control blocks, request/response units, parameter lists, tables, and work areas. Use this information with *VTAM Diagnosis* to help in diagnosing program malfunctions.

### Arrangement of Data Maps

The symbolic names of VTAM data areas begin with the system prefix IST. The symbolic names of VSCS data areas begin with the system prefix DTI.

With the exception of the resource definition table control blocks (RDTs) in Chapter 2, "VTAM Data Areas" on page 5, the data area diagrams in this manual are arranged alphabetically on the basis of the symbolic names of the control blocks, without the prefix. The RDTs are arranged alphabetically and located, as a group, where "RDT" fits in the main alphabetical sequence of the chapter.

The data area diagrams in Chapter 3, "VSCS Data Areas" on page 465 and Chapter 4, "Request/Response Units" on page 537 are arranged alphabetically on the basis of the symbolic names of the control blocks, without the prefix. In Chapter 5, "Session Keys and Control Vectors" on page 783, the data area diagrams are arranged in ascending numerical sequence based on the hex value of the key or control vector described by the data area. (The values that determine the sequence are shown in the table on page 784.)

### How To Read The Data Maps

The data map of the sample control block (ISTSCB) on the following pages can be used to explain the data area diagrams in Chapters 2 - 5. The data area diagrams consist of up to four parts for each VTAM control block:

- **Header:** The header precedes the diagram of the data area. This header contains some or all of the following items:
  - Function:** Description of the control block function
  - Boundary:** Byte, halfword, fullword, or doubleword
  - Size in bytes:** Decimal and hexadecimal length of the control block in bytes
  - RU header:** The first 1, 2, 3, or 4 bytes of the RU
  - RU type:** Abbreviation of the RU category
  - Pointed to by:** Control blocks and VTAM internal trace (VIT) entries that contain pointers to this data area
  - Included blocks:** Control blocks embedded within this data area
  - Located in:** Where in storage the data area is found
  - Additional information:** Other characteristics of the data area not included above
- **Map:** A map of the data area follows the header. This map shows the offsets, type, length, name, and description of each field in the data area.

**Offsets** are the decimal and hexadecimal displacements of the fields. Note that there are many overlays in VTAM data areas that redefine or further break down storage areas, so all fields may not appear in displacement order.

**Type** tells whether the field is a pointer, a character string, a bit string, or the first field of a structure.

**Length** provides the size in bytes of each field. Variable-length fields are shown with an asterisk (\*) for the length. These variable-length fields contain appendages that may end at an offset other than the one specified for the data area.

Most of the data area fields contain the **name** of the field and a **description** of the function of this field. The first three letters of the field name are usually the fourth, fifth, and sixth letters of the data area name. The remaining letters of the field consist of an abbreviation of the field's function. In the example, SCBFLAGA is a flag byte in the ISTSCB data area.

Some name fields are followed, either beside or below, by a dimension (*dim*) value. If present, this value indicates the field is an array. A numerical value shows the number of elements in the array. An asterisk indicates the number of elements is variable.

- **Constants:** A list of constant fields in the control block, if any, follows the map. The constants are listed in the order of the fields to which they refer and contain the constant name, value, and meaning.

A constant or group of constants that defines values for a particular field in the control block is identified with a subheading that shows the primary field name.

The constant values may be in decimal, hexadecimal, bit, or character representations.

- **Cross-reference:** An alphabetical cross-reference list of all fields in the data area may follow the constants.

Each field is followed by its hexadecimal displacement within the data area.

Bit field names are followed by the hexadecimal displacement and a hexadecimal representation of the bit's position within a byte (for example, 80 = first bit in the byte, 02 = seventh bit in the byte).

## Sample Control Block (SCB)

<b>Function:</b>	The SCB is a sample control block to aid in understanding data area maps.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	80 (X'50')
<b>Pointed to by:</b>	DOSSCBA (DOS)
<b>Located in:</b>	Pageable storage.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	80	ISTSCB	LEVEL 1 DECLARE	
0	(0)	ADDRESS	4	SCBPTR	EXAMPLE OF A 4-BYTE POINTER FIELD	
4	(4)	CHARACTER	8	SCBDWORD	EXAMPLE OF AN 8-BYTE FIELD	
4	(4)	CHARACTER	4	SCBWORDA	THE FIRST 4 BYTES OF SCBDWORD REDEFINED	
4	(4)	CHARACTER	2	SCBFLDA	THE FIRST 2 BYTES OF SCBWORDA REDEFINED	
6	(6)	CHARACTER	2	SCBFLDB	THE SECOND 2 BYTES OF SCBWORDA REDEFINED	
6	(6)	CHARACTER	1	SCBFLAGA	THE FIRST BYTE OF SCBFLDB REDEFINED	
7	(7)	CHARACTER	1	SCBFLAGB	THE SECOND BYTE OF SCBFLDB REDEFINED	
8	(8)	CHARACTER	4	SCBWORDB	THE SECOND 4 BYTES OF SCBDWORD REDEFINED	
12	(C)	CHARACTER	64	SCBLARGE	EXAMPLE OF A LARGE (64 BYTE) FIELD	
76	(4C)	CHARACTER	1	SCBSMALL	EXAMPLE OF A 1-BYTE FIELD	
77	(4D)	BITSTRING	2	SCBFLAGC	EXAMPLE OF A 2-BYTE FLAG FIELD	
		1111 ....		SCBBIT1	FIRST 4 BITS OF SCBFLAGC	
		1... ....		SCBBIT1A	FIRST BIT OF SCBFLAGC	
		.1.. ....		SCBBITB	SECOND BIT OF SCBFLAGC	
		..1. ....		SCBBITC	THIRD BIT OF SCBFLAGC	
		...1 ....		SCBBITD	FOURTH BIT OF SCBFLAGC	
		.... 1111		SCBBIT2	SECOND 4 BITS OF SCBFLAGC	
		.... 1..		SCBBITE	FIFTH BIT OF SCBFLAGC	
		.... .1.		SCBBITF	SIXTH BIT OF SCBFLAGC	
		.... ..1		SCBBITG	SEVENTH BIT OF SCBFLAGC	
		.... ...1		SCBBITH	EIGHTH BIT OF SCBFLAGC	
		1... ....		SCBBIT1	BIT 0 OF THIS BYTE	
		.1.. ....		SCBBITJ	BIT 1 OF THIS BYTE	
		..1. ....		SCBBITK	BIT 2 OF THIS BYTE	
		...1 ....		SCBBITL	BIT 3 OF THIS BYTE	
		.... 1..		SCBBITM	BIT 4 OF THIS BYTE	
		.... .1.		SCBBITN	BIT 5 OF THIS BYTE	
		.... ..1		SCBBITO	BIT 6 OF THIS BYTE	
		.... ...1		SCBBITP	BIT 7 OF THIS BYTE	
79	(4F)	CHARACTER	1		UNNAMED CHARACTER FIELD	

## Constants

Len	Type	Value	Name	Description
SCBWORDA VALUE FOR CONTROL BLOCK ID				
4	CHARACTER	WXYZ	SCBONA	CHARACTER CONSTANT
SCBWORDB VALUE FOR CONTROL BLOCK ID				
4	HEX	ACE4	SCBONB	HEXADECIMAL CONSTANT
SCBBIT1 VALUE				
0	BIT	1001	SCBONC	BINARY CONSTANT
SCBOPEN MAXIMUM LENGTH				
1	DECIMAL	5	SCBOND	DECIMAL CONSTANT



**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTSCB	0		1
SCBBITA	4D	80	3
SCVVITB	4D	40	3
SCBBITC	4D	20	3
SCBBITD	4D	10	3
SCBBITE	4D	08	3
SCBBITF	4D	04	3
SCBBITG	4D	02	3
SCBBITH	4D	01	3
SCBBITI	4E	80	3
SCBBITJ	4E	40	3
SCBBITK	4E	20	3
SCBBITL	4E	10	3
SCBBITM	4E	08	3
SCBBITN	4E	04	3
SCBBITO	4E	02	3
SCBBITP	4E	01	3
SCBBIT1	4D	F0	3
SCBBIT2	4D	0F	3
SCBDWORD	4		2
SCBFLAGA	6		5
SCBFLAGB	7		5
SCBFLAGC	4D		3
SCBFLDA	4		4
SCBFLDB	6		4
SCBLARGE	C		3
SCBOPEN	50		3
SCBPTR	0		2
SCBSMALL	4C		3
SCBWORDA	4		4
SCBWORDB	C		4

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## **Chapter 2. VTAM Data Areas**

## Access Method Control Block (ACB)

<b>Function:</b>	An ACB represents an application program to VTAM. It is part of the user application program and is initialized in response to an application program's OPEN ACB request.  The ACB defines the interface between the problem state application program code (generated by macroinstructions in the program) and the supervisor state VTAM routines that support the application program.  Once this interface is established, the application program has access to VTAM facilities (for example open destination, close destination, and I/O interface routines).
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	108 (X'6C')
<b>Pointed to by:</b>	ACDACB (ACDEB) RAPACBA (RAP) RPLDACB (RPL)
<b>Located in:</b>	The ACB is part of the user application program.
<b>Included Blocks:</b>	IFGACB, VSAM portion of ACB
<b>Additional Notes:</b>	See <i>VTAM Programming</i> for ACB error codes.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	108	IFGACB	LEVEL ONE DECLARE
0	(0)	CHARACTER	76	ACBCOMN	ACB COMMON SECTION
0	(0)	ADDRESS	1	ACBID	ACB IDENTIFIER
1	(1)	ADDRESS	1	ACBSTYP	ACB SUBTYPE
2	(2)	SIGNED	2	ACBLENG	ACB LENGTH IN BYTES
2	(2)	SIGNED	2	ACBLENG2	ACB LENGTH IN BYTES
2	(2)	SIGNED	2	ACBLEN2	ACB LENGTH IN BYTES
4	(4)	ADDRESS	4	ACBAMBL	AMB LIST ADDRESS
4	(4)	ADDRESS	4	ACBJWA	JES WORKAREA ADDRESS
4	(4)	ADDRESS	4	ACBIBCT	IBCT ADDRESS
4	(4)	ADDRESS	4	ACBAMWAP	ACCESS METHOD WORKAREA POINTER
8	(8)	ADDRESS	4	ACBINRTN	INTERFACE ROUTINE ADDRESS
12	(C)	BITSTRING	2	ACBMACRF	MACRF FLAGS
12	(C)	BITSTRING	1	ACBMACR1	MACRF FIRST BYTE
		1.. ....		ACBKEY	ACCESS DATA VIA INDEX
		.1.. ....		ACBADR	ACCESS WITHOUT INDEX
		.1.. ....		ACBADD	SAME AS ABOVE
		.1. ....		ACBCNV	CONTROL INTERVAL PROCESSING
		.1. ....		ACBBLK	SAME AS ABOVE
		...1 ....		ACBSEQ	SEQUENTIAL PROCESSING
		.... 1..		ACBDIR	DIRECT PROCESSING
		.... .1..		ACBIN	GET, READ
		.... ..1		ACBOUT	PUT, WRITE
		.... ...1		ACBUBF	USER BUFFERS
13	(D)	BITSTRING	1	ACBMACR2	MACRF SECOND BYTE
		111. ....		*	RESERVED
		...1 ....		ACBSKP	SKIP SEQUENTIAL PROCESSING
		.... 1..		ACBLOGON	LOGON INDICATOR(VTAM)
		.... .1..		ACBRST	SET DATA SET TO EMPTY STATE
		.... ..1		ACBDSN	BASIC SUBTASK SHARED CONTROL BLOCK CONNECTION ON COMMON DSNAMES
		.... ...1		ACBAIX	ENTITY TO BE PROCESSED IS AIX OF THE PATH SPECIFIED IN THE GIVEN DDNAME
14	(E)	ADDRESS	1	ACBBSTNO	NO OF CONCURRENT STRINGS FOR AIX PATH
15	(F)	ADDRESS	1	ACBSTRNO	NUMBER OF STRINGS
16	(10)	SIGNED	2	ACBBUFND	NUMBER OF BUFFERS REQUESTED FOR DATA
18	(12)	SIGNED	2	ACBBUFNI	NUMBER OF BUFFERS REQUESTED FOR INDEX
20	(14)	ADDRESS	4	ACBBUFPL	JES BUFFER POOL ADDR
20	(14)	BITSTRING	1	ACBMACR3	MACRF THIRD BYTE
		1... ....		*	RESERVED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.1.. ....		ACBLSR	LOCAL SHARED RESOURCE
		..1. ....		ACBGSR	GLOBAL SHARED RESOURCE
		...1 ....		ACBICI	IMPROVED CONTROL INTERVAL PROCESSING
		.... 1...		ACBDFR	DEFER WRITES
		.... .1..		ACBSIS	SEQUENTIAL INSERT STRATEGY
		.... .1.		ACBNCFX	NFX=0/CFX=1
		.... ...1		*	RESERVED FOR VSAM
21	(15)	BITSTRING	1	ACBMACR4	RESERVED FOR VSAM
22	(16)	SIGNED	2	ACBJBUF	NUMBER OF BUFFERS REQUESTED FOR JOURNAL
24	(18)	BITSTRING	1	ACBRCFM	RECORD FORMAT
		1... ....		ACBRECAF	JES FORMAT
		.111 111.		*	RESERVED
25	(19)	BITSTRING	1	ACBCCTYP	CONTROL CHARACTER
		11.. ....		ACBTRCID	3800 TRANSLATE TABLE
		..11 ....		*	RESERVED
		.... 1111		ACBASA	CONTROL CHARACTER TYPE
26	(1A)	BITSTRING	2	ACBOPT	NON-USER OPTIONS
26	(1A)	BITSTRING	2	ACBDSORG	MATCH ACBDORGA WITH DCBDSORG
		11.. ....		ACBCROPS	CHECKPOINT/RESTART OPTIONS
		1... ....		ACBCRNCK	NO CHECK FOR MODIFY
		.1.. ....		ACBCRNRE	NO DATA ERASE OR REPOSITION
		..1. ....		ACBDVIND	DEVICE INDICATOR
		..1. ....		ACBOPTJ	3800 CONTROL CHARACTER PRESENT
26	(1A)	BITSTRING	1	*	RESERVED
		.... 1...		ACBDORGA	ACB INDICATOR
		.... .111		*	RESERVED
28	(1C)	ADDRESS	4	ACBMSGAR	MSG AREA
32	(20)	ADDRESS	4	ACBPASSW	PASSWORD ADDRESS
36	(24)	ADDRESS	4	ACBEXLST	USER EXIT LIST ADDR
36	(24)	ADDRESS	4	ACBUEL	SAME AS ABOVE

BEFORE OPEN  
 (FOR VTAM, ACBDDNM INITIALIZED TO X'FF000000000000')

40	(28)	CHARACTER	8	ACBDDNM	DDNAME
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AFTER OPEN

40	(28)	SIGNED	2	ACBTIOT	TIOT OFFSET
42	(2A)	ADDRESS	1	ACBINFL	INDICATOR FLAGS
43	(2B)	ADDRESS	1	ACBAMETH	ACCESS METHOD TYPE
43	(2B)	ADDRESS	1	ACBAM	ACCESS METHOD TYPE
44	(2C)	BITSTRING	1	ACBERFL	ERROR FLAGS
45	(2D)	ADDRESS	3	ACBDEB	DEB ADDRESS

NOT MOVED BY OPEN

48	(30)	BITSTRING	1	ACBOFLGS	OPEN / CLOSE FLAGS
		11.. ....		*	RESERVED
		..1. ....		ACBEOV	EOV CONCATENATION
		...1 ....		ACBOPEN	ACB IS OPEN
		.... 1...		ACBDSERR	NO FURTHER REQUESTS POSSIBLE AGAINST ACB
		.... .1..		*	RESERVED
		.... .1.		ACBEXFG	USER EXIT FLAG
		.... .1.		ACBLOCK	ACB IS LOCKED
		.... ...1		ACBIOSFG	OPEN/CLOSE IN CONTROL
		.... ...1		ACBBUSY	ACB IS BUSY
49	(31)	BITSTRING	1	ACBERFLG	ERROR FLAGS
50	(32)	BITSTRING	2	ACBINFLG	INDICATOR FLAGS
50	(32)	BITSTRING	1	ACBINFL1	FIRST BYTE
		1... ....		*	RESERVED FOR EXCP
		.1.. ....		ACBJEPS	JEPS PROCESSING
		..1. ....		ACBIJRQE	RQE BEING HELD BY JAM
		...1 ....		ACBCAT	ACB FOR VSAM CATALOG
		.... 1...		ACBSCRA	CATALOG CONTROL BLOCK SYSTEM AREA
		.... .1..		ACBUCRA	CATALOG CONTROL BLOCK USER AREA
		.... .1.		ACBVVIC	DATA SET BEING OPENED IS SYS1.VVIC
		.... .1.		ACBSDS	OPEN AS SYSTEM DATA SET
		.... ...1		ACBBYPSS	BYPASS SECURITY ON OPEN IF USER AUTH
51	(33)	BITSTRING	1	ACBINFL2	FIRST BYTE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		11.. ....		*	RESERVED
		..1. ....		ACBCBIC	OPEN WITH CONTROL BLOCKS IN COMMON STORAGE AREA
		...1 1111		*	RESERVED
52	(34)	ADDRESS	4	ACBUJFCB	USER JFCB ADDRESS
52	(34)	BITSTRING	1	ACBOPTN	JAM UCS INDICATOR
53	(35)	ADDRESS	3	*	RESERVED
56	(38)	SIGNED	4	ACBBUFSP	SIZE AVAILABLE FOR BUFFERS
60	(3C)	SIGNED	2	ACBBLKSZ	BLOCKSIZE
60	(3C)	SIGNED	2	ACBMSGLN	LENGTH OF MSG AREA
62	(3E)	SIGNED	2	ACBLRECL	LOGICAL RECORD LENGTH
64	(40)	ADDRESS	4	ACBUAPTR	USER WORKAREA ADDR CAXWA ADDRESS FOR CATALOG OPEN
68	(44)	ADDRESS	4	ACBCBMWA	CBM WORK AREA ADDRESS
72	(48)	ADDRESS	4	ACBAPID	APPLICATION ID ADDRESS
72	(48)	ADDRESS	4	ACBAMAX	ACCESS METHOD ACB EXTENSION
76	(4C)	CHARACTER	32	ACBVTEXT	OF VTAM EXTENSION
76	(4C)	CHARACTER	6	ACBRTN	LA 15,32 BR 14 (VTAM)
82	(52)	SIGNED	2	*	RESERVED - NOT AVAILABLE
84	(54)	ADDRESS	4	*	RESERVED - NOT AVAILABLE
88	(58)	ADDRESS	4	ACBTNIB	POINTER TO NIB
92	(5C)	ADDRESS	4	ACBAMSVL	POINTER TO AMSI
96	(60)	ADDRESS	4	ACBRIVL	POINTER TO RIVL
100	(64)	ADDRESS	4	ACBUSER	USER FIELD
104	(68)	ADDRESS	4	*	RESERVED - NOT AVAILABLE
45	(2D)	STRUCTURE	24	ACBACDEX	VTAM OVERLAY OF ACBDEB - INDEX INTO VTAM ACDEB TABLE
45	(2D)	CHARACTER	1	*	NOT USED - AVAILABLE
46	(2E)	UNSIGNED	1	ACBDEBI1	INDEX INTO ISTDEBX1 TABLE
47	(2F)	UNSIGNED	1	ACBDEBI2	INDEX INTO ISTDEBX2 TABLE

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ACBACDEX	2D		1	ACBDEB	2D		4
ACBADD	C	40	6	ACBDEBI1	2E		2
ACBAOR	C	40	5	ACBDEBI2	2F		2
ACBAIX	D	01	5	ACBDFR	14	08	5
ACBAM	2B		5	ACBDIR	C	08	5
ACBAMAX	48		4	ACBDORGA	1B	08	5
ACBAMBL	4		3	ACBDSERR	30	08	4
ACBAMETH	2B		4	ACBDSN	D	02	5
ACBAMSVL	5C		3	ACBDSORG	1A		4
ACBAMWAP	4		6	ACBDVIND	1A	20	5
ACBAPID	48		3	ACBEOV	30	20	4
ACBASA	19	08	4	ACBERFL	2C		4
ACBBLK	C	20	6	ACBERFLG	31		3
ACBBLKSZ	3C		3	ACBEXFG	30	02	4
ACBBSTNO	E		3	ACBEXLST	24		3
ACBBUFND	10		3	ACBGRS	14	20	5
ACBBUFNI	12		3	ACBIBCT	4		5
ACBBUFPL	14		3	ACBICI	14	10	5
ACBBUFSP	38		3	ACBID	0		3
ACBBUSY	30	01	5	ACBIJRQE	32	20	5
ACBBYPSS	32	01	5	ACBIN	C	04	5
ACBCAT	32	10	5	ACBINFL	2A		4
ACBCBIC	33	20	5	ACBINFLG	32		3
ACBCBMWA	44		3	ACBINFL1	32		4
ACBCCTYP	19		3	ACBINFL2	33		4
ACBCNV	C	20	5	ACBINRTN	8		3
ACBCOMN	0		2	ACBIOSFG	30	01	4
ACBCRNCK	1A	80	6	ACBJBUF	16		4
ACBCRNRE	1A	40	6	ACBJEPS	32	40	5
ACBCROPS	1A	80	5	ACBJWA	4		4
ACBDDNM	28		3	ACBKEY	C	80	5

Name	Hex Offset	Hex Value	Level
ACBLENG	2		3
ACBLENG2	2		4
ACBLEN2	2		5
ACBLOCK	30	02	5
ACBLOGON	D	08	5
ACBLRECL	3E		3
ACBLSR	14	40	5
ACBMACRF	C		3
ACBMACR1	C		4
ACBMACR2	D		4
ACBMACR3	14		4
ACBMACR4	15		4
ACBMSGAR	1C		3
ACBMSGLN	3C		4
ACBNCFX	14	02	5
ACBOFLGS	30		3
ACBOPEN	30	10	4
ACBOPT	1A		3
ACBOPTJ	1A	20	6
ACBOPTN	34		4
ACBOUT	C	02	5
ACBPASSW	20		3
ACBRECAF	18	80	4
ACBRECFM	18		3
ACBRIVL	60		3
ACBRST	D	04	5
ACBRTN	4C		3
ACBSCRA	32	08	5
ACBSOS	32	02	6
ACBSEQ	C	10	5
ACBSIS	14	04	5
ACBSKP	D	10	5
ACBSTRNO	F		3
ACBSTYP	1		3
ACBTIOT	28		4
ACBTNIB	58		3
ACBTRCID	19	80	4
ACBUAPTR	40		3
ACBUBF	C	01	5
ACBUCRA	32	04	5
ACBUEL	24		4
ACBUJFCB	34		3
ACBUSER	64		3
ACBVTEXT	4C		2
ACBVVIC	32	02	5
IFGACB	0		1

## VTAM Data Extent Block (ACDEB)

<b>Function:</b>	<p>VTAM builds an ACDEB when an application program issues an OPEN ACB. It represents an application program to VTAM and contains information VTAM needs to service application program requests.</p> <p>It is the anchor for request processing operations and for control blocks that represent the association between the application program and VTAM routines.</p> <p>The ACDEB contains scheduling points for certain data transfer requests. It is also the control point for terminating sessions when an application program terminates abnormally or issues a CLOSE ACB macro while sessions still exist.</p>
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	208 (X'D0')
<b>Pointed to by:</b>	<p>ACDDEB (ACDEB)                  ATCACDA (ATCVT)                  LUCACDEB (LUCB)                  NCSPLPDB (NCSPL) - pointer to DEB prefix                  OCADEBAD (OCA)                  OCCACDEB (OCCRR)                  OCWACDEB (OCW)                  POCDEB (POCB)                  POWDEB (POWE) - ACDEB for POA                  PSTACDEB (PST) - queue of ACDEBs for ACBs opened by this task                  RAPACDEB (RAP)                  RPHMAJCB (RPH)                  RPRCONID (RPRE)                  TSPDEBA (TSPSSAA in TSPL)                  UECACDEB (UECB)</p>
<b>Included Blocks:</b>	LOK (ACDLOCK), PAB (ACDNEPAB)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	208	ISTACDEB	
THE FOLLOWING STRUCTURE MUST COINCIDE WITH THE ISTDYPAB					
0	(0)	CHARACTER	1	ACDTYPE	ID FIELD
1	(1)	UNSIGNED	1	ACDLNGTH	LENGTH (IN BYTES)
2	(2)	CHARACTER	2	*	RESERVED - NOT AVAILABLE
4	(4)	ADDRESS	4	ACDCHN	CHAIN POINTER
8	(8)	ADDRESS	4	ACDTSKID	TASK ID (POINTER TO PST)
12	(C)	ADDRESS	4	ACDRDTE	POINTER TO RDT FOR APPL
16	(10)	CHARACTER	20	ACDNEPAB	RECEIVE ANY PAB
END OF STRUCTURE THAT MUST COINCIDE WITH THE ISTDYPAB					
36	(24)	ADDRESS	4	ACDACB	POINTER TO ACB
40	(28)	CHARACTER	20	ACDSSPAB	SYSTEM SERVICES PAB
60	(3C)	CHARACTER	1	*	RESERVED
61	(3D)	UNSIGNED	3	ACDINDEX	INDEX INTO ACDEB ADDRESS TABLE
61	(3D)	UNSIGNED	1	*	NOT AVAILABLE
62	(3E)	UNSIGNED	1	*	RESERVED
63	(3F)	UNSIGNED	1	*	RESERVED
64	(40)	CHARACTER	8	ACDANYQ	RECEIVE ANY QUEUE
64	(40)	ADDRESS	4	ACDRAFQT	RECEIVE ANY FMCB QUEUE TAIL- POINTER TO THE NEWEST FMCB ON THE RECEIVE ANY QUEUE
68	(44)	ADDRESS	4	ACDRARQ	POINTER TO 1ST RPL ON RECEIVE ANY QUEUE
72	(48)	ADDRESS	4	ACDTCB	POINTER TO TASK TCB IN OS/VS (NOT USED IN VM VTAM)
72	(48)	ADDRESS	4	ACDOCA	POINTER TO OPEN/CLOSE ACB AMRU RUPE
76	(4C)	ADDRESS	4	ACDDEB	POINTER TO NEXT DEB ON ATCVT DEB CHAIN
80	(50)	CHARACTER	8	ACDLOCK	ACDEB LOCK
88	(58)	ADDRESS	4	ACDLUCBA	POINTER TO LUCB

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
92	(5C)	ADDRESS	4	ACDRAFQH	RECEIVE ANY FMCB QUEUE HEAD- POINTER TO THE OLDEST FMCB ON THE RECEIVE ANY QUEUE
96	(60)	SIGNED	4	ACDSSCNT	SYSTEM SERVICES COUNT
100	(64)	ADDRESS	4	ACDRUPE	POINTER TO OPEN/CLOSE ACB AMRU RUPE
104	(68)	SIGNED	4	ACDASCNT	NUMBER OF ACTIVE SESSIONS
108	(6C)	SIGNED	4	ACDPACNT	NUMBER OF PENDING ACTIVE SESSIONS (EQUALS NUMBER OF QUEUED 'CINIT' RUPES)
112	(70)	ADDRESS	4	ACDDACHN	POINTER TO THE CHAIN OF DACTLU RUPES PENDING FOR THIS APPLICATION
116	(74)	UNSIGNED	2	ACDRQID	REQUEST ID USED TO BUILD URC (LUS)
118	(76)	CHARACTER	2	ACDLUFLG	LU STATE FLAGS
		1... ....		ACDACTIV	SSCP-LU SESSION IS ACTIVE
		.1... ....		ACDREADY	LU IS READY FOR CINIT
		..1... ....		ACDNSESS	LU WANTS NO SESSION IN WHICH IT WAS NOT THE INITIATOR (MACRF = NLOGON)
		...1 ....		ACDQUIES	LU IS QUIESCING
		.... 1...		ACDCLOSE	LU IS CLOSING DOWN
		.... .1..		ACDABEND	APPL IS ABENDING
		.... ..1.		ACDTPEND	TPEND IS RUNNING
		.... ...1		ACDAUTHE	AUTHORIZED EXIT
		1... ....		ACDNSEXT	APPL HAS AN NSEXIT
		.1... ....		ACDSCIP	APPL HAS A SCIP EXIT
		..1... ....		ACDTSO	TSO IS APPLICATION (NOT USED IN VM VTAM)
		...1 ....		ACDPARS	APPLICATION IS PARALLEL SESSION CAPABLE
		.... 1...		ACDCSM	APPLICATION IS AUTHORIZED AS CSMA
		.... .1..		ACDAPASS	CLSDST PASS AUTHORIZED
		.... ..1.		ACDAACQ	ACQUIRE AUTHORIZED
		.... ...1		ACDMLWIP	MLWTO IS IN PROCESS
120	(78)	CHARACTER	8	ACDUNTM	INTERPRETED NAME OF LU (ALIAS NAME)
128	(80)	UNSIGNED	2	ACDEAS	APPLICATION EAS VALUE
130	(82)	BITSTRING	1	*	FLAGS
		1... ....		ACDMMEM	APPL IS MULTI-MEMORY CAPABLE
		.1... ....		ACDSRBX	EXITS SHOULD BE SCHEDULED IN SRB MODE
		..1... ....		ACDVFR	THE VTAM FRR SHOULD REMAIN IN EFFECT ACROSS THE EXIT
		...1 ....		ACDSSCIP	SONSCIP SPECIFIED
		.... 1...		ACDAUTH	APPL IS EITHER APF AUTHORIZED OR SUPERVISOR STATE
		.... .1..		ACDMODE	OPEN WAS ISSUED IN AMODE (31)
		.... ..1.		ACDHOLD	INDICATES WHETHER SESSION SETUP REQUESTS ARE CURRENTLY BEING HELD (CINITs AND BINDS ARE QUEUED)
		.... ...1		ACDDIP	1 = DACTLU IS IN PROGRESS
131	(83)	BITSTRING	1	*	FLAGS
		1... ....		ACDLGEXT	APPL HAS LOGON EXIT
		.1... ....		ACDAPPC	APPLICATION IS APPC
		..1... ....		ACDPREOD	1 = PRE-ISSUED OPNDST
		...1 ....		*	RESERVED
		.... 1111		*	NOT USED - AVAILABLE
132	(84)	ADDRESS	4	ACDNIB	POINTER TO NIB FOR CSMA
136	(88)	ADDRESS	4	ACDRIVL	POINTER TO RELEASE LEVEL INDICATOR VECTOR LIST
140	(8C)	ADDRESS	4	ACDMLWQ	QUEUE OF POWES WAITING FOR MLWTO IN PROCESS TO COMPLETE
144	(90)	UNSIGNED	4	*	MLWTO INDICATORS
144	(90)	UNSIGNED	1	*	NOT USED - AVAILABLE
145	(91)	UNSIGNED	3	ACDMLWID	VTAM ID OF MLWTO IN PROCESS
148	(94)	CHARACTER	6	ACDSAF	APPLICATION SECONDARY NETWORK ADDRESS
148	(94)	SIGNED	4	ACDSSU	SUBAREA ADDRESS
152	(98)	SIGNED	2	ACDSEL	ELEMENT ADDRESS
154	(9A)	CHARACTER	2	*	Not Used - Available
156	(9C)	SIGNED	4	*	RESERVED
160	(A0)	CHARACTER	20	*	RESERVED
180	(B4)	ADDRESS	4	*	RESERVED
184	(B8)	ADDRESS	4	*	RESERVED
188	(BC)	ADDRESS	4	*	RESERVED
192	(C0)	ADDRESS	4	*	RESERVED
196	(C4)	BITSTRING	1	*	RESERVED



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		11.. ....		+	RESERVED
		..11 1111		+	Not Used - Available
197	(C5)	CHARACTER	3	+	Not Used - Available
200	(C8)	CHARACTER	8	+	RESERVED

**Constants**

Len	Type	Value	Name	Description
1	HEX	0F	ACDID	VTAM DATA EXTENT BLOCK ID

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ACDAACQ	77	02	3	ACDSSCNT	60		2
ACDABEND	76	04	3	ACDSSPAB	28		2
ACDACB	24		2	ACDSSU	94		3
ACDACTIV	76	80	3	ACDTCB	48		2
ACDANYQ	40		2	ACDTPEND	76	02	3
ACDAPASS	77	04	3	ACDTSKID	8		2
ACDAPPC	83	40	3	ACDTSO	77	20	3
ACDASCNT	68		2	ACDTYPE	0		2
ACDAUTH	82	08	3	ACDUNTNM	78		2
ACDAUTHE	76	01	3	ACDVFR	82	20	3
ACDCHN	4		2	ISTACDEB	0		1
ACDCLOSE	76	08	3				
ACDCSM	77	08	3				
ACDDACHN	70		2				
ACDDEB	4C		2				
ACDDIP	82	01	3				
ACDEAS	80		2				
ACDHOLD	82	02	3				
ACDINDEX	3D		2				
ACDLGEXT	83	80	3				
ACDLNGTH	1		2				
ACDLOCK	50		2				
ACDLUCBA	58		2				
ACDLUFLG	76		2				
ACDMLWID	91		3				
ACDMLWIP	77	01	3				
ACDMLWQ	8C		2				
ACDMMEM	82	80	3				
ACDMODE	82	04	3				
ACDNEPAB	10		2				
ACDNIB	84		2				
ACDNSESS	76	20	3				
ACDNSEXT	77	80	3				
ACDOCA	48		3				
ACDPACNT	6C		2				
ACDPARS	77	10	3				
ACDPREOD	83	20	3				
ACDQUIES	76	10	3				
ACDRAFQH	5C		2				
ACDRAFQT	40		3				
ACDRARQ	44		3				
ACDRDTE	C		2				
ACDREADY	76	40	3				
ACDRIVL	88		2				
ACDRQID	74		2				
ACDRUPE	64		2				
ACDSAF	94		2				
ACDSCIP	77	40	3				
ACDSEL	98		3				
ACDSRBX	82	40	3				
ACDSSCIP	82	10	3				

## Adjacent Subarea Table (ADJSA)

<b>Function:</b>	ADJSA maps adjacent subareas to specific HNTE entries, which represent links in the host that connect the adjacent subarea to the host. The adjacent subarea table is a set of entries sorted by the adjacent subarea value, and is searched using a binary search. It is maintained by the CIDCTL TYPE(ADJNODE) functions.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ATCADJSA (ATCVT)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	ISTADJSA	ADJACENT SUBAREA TABLE (BASED FROM ATCADJSA)	
0	(0)	CHARACTER	8	ADJSAHDR	ADJSA TABLE HEADER	
0	(0)	SIGNED	4	ADJCNT	CURRENT COUNT OF ENTRIES	
4	(4)	CHARACTER	4	*	NOT USED - AVAILABLE	
8	(8)	CHARACTER	12	ADJSAENT (*)	ADJSA TABLE ENTRY (INDEXED BY ENTRY NUMBER DERIVED FROM BINARY SEARCH)	
8	(8)	SIGNED	4	ADJSUBA	ADJACENT SUBAREA VALUE	
12	(C)	ADDRESS	4	ADJHNTE	POINTER TO HNT ENTRY	
16	(10)	CHARACTER	4	*	ADJACENT SUBAREA DATA	
16	(10)	UNSIGNED	1	*	RESERVED	
17	(11)	CHARACTER	3	*	NOT USED - AVAILABLE	

### Cross Reference

Name	Hex Offset	Hex Value	Level
ADJCNT	0		3
ADJHNTE	C		3
ADJSAENT	8		2
ADJSAHDR	0		2
ADJSUBA	8		3
ISTADJSA	0		1

## Adjacent SSCP Table (ADJSR)

<b>Function:</b>	ADJSR maps the adjacent SSCP table created by system definition.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.

Offsets						
Dec	Hex	Type	Len	Name (Dim)		Description
0	(0)	STRUCTURE	32	ISTADJSR		
0	(0)	BITSTRING	1	ADJID		CONTROL BLOCK ID
1	(1)	CHARACTER	3	*		UNUSED - AVAILABLE
4	(4)	UNSIGNED	2	*		RESERVED
6	(6)	UNSIGNED	2	ADJNENT		NUMBER OF ADJCDRM ENTRIES
8	(8)	ADDRESS	4	ADJNEXT		PTR TO NEXT ADJSSCP
12	(C)	ADDRESS	4	ADJPREV		PTR TO PREV ADJSSCP
16	(10)	CHARACTER	8	ADJNETID		DESINATION NETWORK ID
24	(18)	CHARACTER	8	ADJCDNAM		CDRM NAME
32	(20)	CHARACTER	*	ADJENTRY		ENTRY AREA

OVERLAY FOR EACH ADJCDRM ENTRY

Offsets						
Dec	Hex	Type	Len	Name (Dim)		Description
0	(0)	STRUCTURE	8	ADJENTR		
0	(0)	CHARACTER	8	ADJCDRM		ADJCDRM NAME

## Constants

Len	Type	Value	Name	Description
CONTROL BLOCK ID CONSTANT				
1	HEX	77	ADJIDVAL	
8	CHARACTER	*NETWORK	ADJDEF	INTERNAL DEFAULT NETID NAME FOR ALL NETWORKS

## Cross Reference

Name	Hex Offset	Hex Value	Level
ADJCDNAM	18		2
ADJCDRM	0		2
ADJENTR	0		1
ADJENTRY	20		2
ADJID	0		2
ADJNENT	6		2
ADJNETID	10		2
ADJNEXT	8		2
ADJPREV	C		2
ISTADJSR	0		1

## LU 6.2 Message Unit (AMU)

**Function:** AMU provides a mapping for LU 6.2 message units.  
**Boundary:** Doubleword.  
**Size in bytes:** 88 (X'58')

**Additional Notes:** The following fields in ISTAMU must be at the same offset as in ISTTSCB.

AMUNEXT, AMUCONT, AMUDATAA, AMUDATLN,  
 AMUSTORG, AMUVALCK, AMUCDATA, AMUBUFFL.

In addition, AMUPIUST is at the same offset as the start of the PIU in the TSCB, and AMUOVRLY is at the same offset as the start of the RU in the TSCB.

AMUID uniquely identifies the various message units. This 3-byte field consists of 1 byte each for the "from" component, the "to" component, and the sequence number.

Message units that require more storage than exists in AMUBASE should define structures based on AMUOVRLY, the overlay area. The meaning of information in this area depends upon the type of message unit used.

The purpose of ISTAMU is to make the process of reusing message units as easy as possible. You can use the following instructions to easily clear fields in the MU, while preserving those that need to be retained (specifically, AMUSTORG in AMUFLAGS).

```
AMUPART1="B
AMUFLAGS=AMUFLAGS & AMUFMASK
AMUPART2="B
```

You can then set required fields for the message unit.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	88	ISTAMU	APPC MESSAGE UNIT	
0	(0)	CHARACTER	68	AMUBASE	BASE PORTION OF AMU	
0	(0)	BITSTRING	1	AMUTYPE	APPC IDENTIFIER X'62'	
1	(1)	CHARACTER	3	AMUEYE	EYE CATCHER C'AMU'	
4	(4)	CHARACTER	20	AMUPART1	FIRST PART OF AMU TO CLEAR (SEE NOTE 4)	
4	(4)	ADDRESS	4	AMUNEXT	CHAIN FIELD FOR NEXT WORK ELEMENT	
8	(8)	ADDRESS	4	AMUCONT	POINTER TO AMU FOR CONTINUATION OF THIS PIU	
12	(C)	ADDRESS	4	AMUDATAA	POINTER TO ASSOCIATED DATA	
16	(10)	UNSIGNED	4	AMUDATLN	LENGTH OF ASSOCIATED DATA	
20	(14)	CHARACTER	4	AMUHSID	HALF SESSION IDENTIFIER	
24	(18)	CHARACTER	4	AMUFLAGS	FLAG FIELDS	
24	(18)	CHARACTER	1	AMUFLAG1	FLAG BYTE 1	
		1111 ....		AMUSENT	TYPE OF DATA SENT OR RECEIVED	
		.... 1..		AMUALLOC	ALLOCATE INDICATOR	
		.... .1..		AMUFMH	DATA CONTAINS AN FM HEADER	
		.... ..1.		AMUBPSLO	BUFFER POOL SLOWDOWN INDICATOR	
		.... ...1		AMUVALCK	VALIDATE USER DATA AREA	
25	(19)	CHARACTER	1	AMUFLAG2	FLAG BYTE 2	
		11.. ....		AMUSTORG	DESCRIBES HOW MU ALLOCATED	
		..1. ....		AMUHUNG	SESSION IS HUNG	
		...1 ....		AMUREPLY	LNS MUST RETURN THIS AMU TO LRM INDICATOR	
		.... 1..		*	RESERVED	
		.... .1..		AMUPAC	PACING USED ON THIS SESSION	
		.... ..1.		AMUPACRQ	PACING RESPONSE REQUIRED	
		.... ...1		AMUCDATA	DATA IS CONFIDENTIAL	
		.... ...1		AMUBUFFL	AMUDATAA IS A POINTER TO A BUFFER LIST ENTRY	
26	(1A)	CHARACTER	1	AMUFLAG3	FLAG BYTE 3	
		1... ....		AMURTI	RESPONSE TYPE INDICATOR (ON IF NEGATIVE RESPONSE)	
		.1.. ....		AMUCOPR	CNOS REQUEST FROM COPR	
		..1. ....		AMUSDABN	MU SENT BY DEALLOCATE ABND PROCESSING	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		...1 ....		AMUFBFLG	FLAG USED TO INDICATE HOW AMUSENSE IS USED 0 = SENSE CODE 1 = FIXED BUFFER COUNT
27	(1B)	.... 1111 CHARACTER	1	AMUALRET	ALLOCATE RETURN TYPE
		1... ....		AMUFLAG4	FLAG BYTE 4
		.1.. ....		AMUFSP	FIRST SPEAKER INDICATOR
		..1. ....		AMUPRI	PRIMARY LU INDICATOR
		...1 ....		AMUACT	ACTIVE/PENDING FLAG ON=ACTIVE, OFF=PENDING
				AMURESPL	THIS LU RESPONSIBLE FOR DEACTIVATION IF BIT IS ON
		.... 11..		AMURESON	REASON FOR DEACTIVATION
		.... ..11		AMUTDEAC	TYPE OF DEACTIVATION
28	(1C)	CHARACTER	40	AMUPART2	SECOND PART OF AMU TO CLEAR (SEE NOTE 4)
28	(1C)	CHARACTER	4	AMUSENSE	SENSE DATA
28	(1C)	SIGNED	2	AMUFBCNT	I/O BUFFER COUNT
30	(1E)	BITSTRING	1	*	
		1... ....		*	RESERVED
		.111 1111		*	NOT USED - AVAILABLE
31	(1F)	CHARACTER	1	*	NOT USED - AVAILABLE
32	(20)	ADDRESS	4	AMURAB	RAB ADDRESS
36	(24)	BITSTRING	3	AMUID	MESSAGE UNIT IDENTIFIER
36	(24)	BITSTRING	1	AMUFROM	'FROM' COMPONENT
37	(25)	BITSTRING	1	AMUTO	'TO' COMPONENT
38	(26)	BITSTRING	1	AMUSEQ	MU SEQUENCE IDENTIFIER
39	(27)	UNSIGNED	1	AMURETCD	RETURN CODE
39	(27)	CHARACTER	1	AMUPIUST	START OF PIU AREA OF TSCB
40	(28)	CHARACTER	8	AMULUNAM	LU NAME
40	(28)	CHARACTER	8	*	RESERVED
48	(30)	CHARACTER	8	AMUMODE	MODE NAME
56	(38)	ADDRESS	4	AMUCORR	CORRELATOR
60	(3C)	CHARACTER	4	AMUCONVI	CONVERSATION ID
64	(40)	ADDRESS	4	AMUHSRPH	ADDRESS OF THE HS PAB RPH
68	(44)	CHARACTER	20	AMUOVRLY	OVERLAY AREA
68	(44)	CHARACTER	*	AMUDATA	DATA AREA

THE FOLLOWING SPECIFY OVERLAYS FOR SPECIAL MESSAGE UNITS

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	8	AMUOVLAR	OVERLAY FOR ALLOCATE_RCB, RCB_ALLOCATED, PS_COPR_FMH5_RCVD, GET_SESSION, SESSION_ACTIVATED, ACTIVATE_SESSION_RSP MUS MODIFY PROFILES
0	(0)	BITSTRING	1	*	
		1... ....		*	NOT USED - AVAILABLE
		.11. ....		*	RESERVED
		...1 1111		*	NOT USED - AVAILABLE
1	(1)	CHARACTER	3	*	NOT USED - AVAILABLE
4	(4)	ADDRESS	4	AMUFMH5	POINTER TO FMH-5 AND PIP DATA
0	(0)	STRUCTURE	4	*	RESERVED
0	(0)	ADDRESS	4	AMUCOPRA	COPR CONTROL BLOCK ADDRESS USED FOR CNOS_CLEANUP

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2	*	RESERVED
0	(0)	SIGNED	2	AMUDELTA	SESSION LIMIT DELTA AFTER CNOS USED FOR CHANGE_SESSIONS
0	(0)	STRUCTURE	4	*	RESERVED
0	(0)	SIGNED	4	AMUPACNT	COUNT BY WHICH TO INCREMENT THE PS PACING COUNT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	*	RESERVED
0	(0)	CHARACTER	8	AMUFMH7	AREA CONTAINING AN FMH7

## Constants

Len	Type	Value	Name	Description
AMUMAXOV MUST EQUAL THE LENGTH OF THE LONGEST AMU OVERLAY				
4	DECIMAL	20	AMUMAXOV	
THE FOLLOWING SPECIFY CONSTANTS FOR MESSAGE UNIT FIELDS VALUE FOR APPC IDENTIFIER (AMUTYPE)				
1	HEX	62	AMUCBID	APPCTYPE CONSTANT
VALUE FOR EYE CATCHER (AMUEYE)				
3	CHARACTER	AMU	AMUCBEYE	AMUEYE CONSTANT
VALUE FOR MASK OVER FLAG BYTES (AMUFLAGS)				
4	HEX	00C00000	AMUFMASK	MASK TO PRESERVE FIELDS WHEN INITIALIZING MUS
CONSTANTS FOR SEND DATA PS TO HS TYPE (AMUSENT) THESE FIELDS CORRESPOND TO CONSTANTS FOR RABRTYPE IN ISTRAB. IF CHANGES ARE MADE TO THESE FIELDS, ALSO MAKE THEM IN ISTRAB.				
0	BIT	0000	AMUNEOB	NOT END OF DATA
0	BIT	0001	AMUFLUSH	FLUSH
0	BIT	0010	AMUCONFM	CONFIRM
0	BIT	0011	AMUDECON	DEALLOCATE CONFIRM
0	BIT	0100	AMUDEFLU	DEALLOCATE FLUSH
0	BIT	0101	AMUPTRFL	PREPARE TO RECEIVE FLUSH
0	BIT	0110	AMUPTRCS	PREPARE TO RECEIVE CONFIRM SHORT
0	BIT	0111	AMUPTRCL	PREPARE TO RECEIVE CONFIRM LONG
0	BIT	1000	AMUPTRCV	PREPARE TO RECEIVE CONFIRM
VALUES FOR STORAGE OBTAINED TYPE (AMUSTORG)				
0	BIT	00	AMUSREQ	REQSTORE
0	BIT	01	AMUSGET	GETBLK
0	BIT	10	AMUSVTF	VTALLOC (FIXED)
0	BIT	11	AMUSVTP	VTALLOC (PAGEABLE)
VALUES FOR ALLOCATE RETURN TYPE (AMUALRET)				
0	BIT	0000	AMUIMMED	IMMEDIATE
0	BIT	0001	AMUWALLC	WHEN ALLOCATED
VALUES FOR REASON FOR DEACTIVATION (AMURESON)				
0	BIT	00	AMUNRMAL	NORMAL
0	BIT	01	AMUCLNUP	CLEANUP
0	BIT	10	AMUABNML	ABNORMAL (LNS TO LRM)
0	BIT	10	AMUSON	SESSION OUTAGE NOTIFICATION (LRM TO PS)
0	BIT	11	AMUANNRE	ABNORMAL, NO RETRY (LNS TO LRM)
0	BIT	11	AMUPVIOL	PROTOCOL VIOLATION (LRM TO PS)
VALUES FOR TYPE OF DEACTIVATION (AMUTDEAC)				
0	BIT	00	AMUTNRML	NORMAL
0	BIT	01	AMUINPRP	IN PROCESS - PURGING
VALUES FOR RETURN CODE (AMURETCD)				
1	DECIMAL	0	AMUGDRET	GOOD RETURN CODE
1	DECIMAL	4	AMURETRY	ERROR - RETRY
1	DECIMAL	8	AMUNORET	ERROR - NO RETRY
1	DECIMAL	12	AMUNSCFL	ERROR - UNSUCCESSFUL
1	DECIMAL	16	AMURQABT	ERROR - REQUEST ABORTED
1	DECIMAL	255	AMUSTGSH	ERROR - STORAGE FAILURE
VALUES FOR COMPONENT IDENTIFIERS (AMUFROM AND AMUTO)				
1	HEX	01	AMUCPS	PRESENTATION SERVICES
1	HEX	02	AMUCCOPR	CONTROL OPERATOR

Len	Type	Value	Name	Description
1	HEX	03	AMUCHS	HALF SESSION
1	HEX	04	AMUCLNS	LU NETWORK SERVICES
1	HEX	05	AMUCLRM	LU RESOURCE MANAGER
THE FOLLOWING SPECIFY CONSTANTS FOR MESSAGE UNIT IDS (AMUID)				
PS TO PS				
3	HEX	010101	AMUENDCN	END_CONVERSATION
PS TO COPR				
3	HEX	010201	AMUF5RCV	PS_COPR_FMHS_RCVD
PS TO HS				
3	HEX	010302	AMUCNFMD	CONFIRMED
3	HEX	010303	AMUSNDRS	REQUEST_TO_SEND
3	HEX	010304	AMUSNDDA	SEND_DATA_RECORD
3	HEX	010305	AMUSNDER	SEND_ERROR
3	HEX	010306	AMUSNDPC	SEND_PACING_RSP
PS TO LRM				
3	HEX	010501	AMUALRCB	ALLOCATE_RCB
3	HEX	010502	AMUDARCB	DEALLOCATE_RCB
3	HEX	010503	AMUGETSN	GET_SESSION
3	HEX	010504	AMUUBDPE	UNBIND_PROTOCOL_ERROR
COPR TO PS				
3	HEX	020101	AMUCNSAB	CNOS_ABORT
COPR TO COPR				
3	HEX	020201	AMUCNCLU	CNOS_CLEANUP
COPR TO LRM				
3	HEX	020501	AMUCNCMP	CNOS_COMPLETE
3	HEX	020502	AMUCHGSN	CHANGE_SESSIONS
HS TO PS				
3	HEX	030102	AMUCONFD	CONFIRMED
3	HEX	030103	AMURQSD	REQUEST_TO_SEND
3	HEX	030104	AMURCVDA	RECEIVE_DATA
3	HEX	030105	AMURCVER	RECEIVE_ERROR
3	HEX	030106	AMUPACRR	PACING_RSP_RCVD
3	HEX	030107	AMURRQSN	RSP_TO_REQUEST_TO_SEND
3	HEX	030108	AMUINPAC	INITIAL_PACING_COUNT
3	HEX	030109	AMUDABNR	DEALLOCATE_ABEND_REJECTED
HS TO LNS				
3	HEX	030401	AMUABTHS	ABORT_HS
HS TO LRM				
3	HEX	030501	AMUATHDR	ATTACH_HEADER
3	HEX	030502	AMUFRESN	FREE_SESSION
3	HEX	030503	AMUBID	BID
3	HEX	030504	AMUBIDP1	BID_RSP
3	HEX	030505	AMUBISQ1	BIS_RQ
3	HEX	030506	AMUBISP1	BIS_REPLY
3	HEX	030507	AMURTRQ1	RTR_RQ
3	HEX	030508	AMURTRP1	RTR_RSP
LNS TO LRM				
3	HEX	040501	AMUSNACT	SESSION_ACTIVATED
3	HEX	040502	AMUSNDAC	SESSION_DEACTIVATED
3	HEX	040503	AMUASNRP	ACTIVATE_SESSION_RSP
3	HEX	040504	AMUCDESN	CTERM_DEACTIVATE_SESSION
3	HEX	040505	AMUNSRMF	LNS-LRM FREE AMU
LRM TO PS				
3	HEX	050101	AMURCBAL	RCB_ALLOCATED
3	HEX	050103	AMUSNALL	SESSION_ALLOCATED
3	HEX	050104	AMUATTRC	ATTACH_RECEIVED

Len	Type	Value	Name	Description
3	HEX	050105	AMUCNVFL	CONVERSATION_FAILURE
LRM TO HS				
3	HEX	050301	AMUHSPSC	HS_PS_CONNECTED
3	HEX	050302	AMUYILSN	YIELD_SESSION
3	HEX	050303	AMUBIDWO	BID_WITHOUT_ATTACH
3	HEX	050304	AMUBIDP2	BID_RSP
3	HEX	050305	AMUBISQ2	BIS_RQ
3	HEX	050306	AMUBISP2	BIS_REPLY
3	HEX	050307	AMURTRQ2	RTR_RQ
3	HEX	050308	AMURTRP2	RTR_RSP
LRM TO LNS				
3	HEX	050401	AMUACTSN	ACTIVATE_SESSION
3	HEX	050402	AMUDACTS	DEACTIVATE_SESSION

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
AMUACT	1B	20	5	AMURESON	1B	08	5
AMUALLOC	18	08	5	AMURESPL	1B	10	5
AMUALRET	1A	08	5	AMURETCD	27		4
AMUBASE	0		2	AMURTI	1A	80	5
AMUBPSLO	18	02	5	AMUSDABN	1A	20	5
AMUBUFFL	19	01	5	AMUSENSE	1C		4
AMUCDATA	19	02	5	AMUSENT	18	80	5
AMUCONT	8		4	AMUSEQ	26		5
AMUCONVI	3C		4	AMUSTORG	19	80	5
AMUCOPR	1A	40	5	AMUTDEAC	1B	02	5
AMUCOPRA	0		2	AMUTO	25		5
AMUCORR	38		4	AMUTYPE	0		3
AMUDATA	44		3	AMUVALCK	18	01	5
AMUDATAA	C		4	ISTAMU	0		1
AMUDATLN	10		4				
AMUDELT	0		2				
AMUEYE	1		3				
AMUFBCNT	1C		5				
AMUFBFLG	1A	10	5				
AMUFLAGS	18		3				
AMUFLAG1	18		4				
AMUFLAG2	19		4				
AMUFLAG3	1A		4				
AMUFLAG4	1B		4				
AMUFMH	18	04	5				
AMUFMH5	4		2				
AMUFMH7	0		2				
AMUFROM	24		5				
AMUFSP	1B	80	5				
AMUHSID	14		4				
AMUHSRPH	40		4				
AMUHUNG	19	20	5				
AMUID	24		4				
AMULUNAM	28		4				
AMUMODE	30		4				
AMUNEXT	4		4				
AMUOVLAR	0		1				
AMUOVRLY	44		2				
AMUPAC	19	08	5				
AMUPACNT	0		2				
AMUPACRQ	19	04	5				
AMUPART1	4		3				
AMUPART2	1C		3				
AMUPIUST	27		5				
AMUPRI	1B	40	5				
AMURAB	20		4				
AMUREPLY	19	10	5				



## VTAM LU 6.2 Vector Table (APVT)

<b>Function:</b>	The APVT is a collection of mappings that map the vector tables for five of the VTAM LU 6.2-related components:  Control operator (CO), Half-session (HS), LU network services (NS), Presentation services (PS), and LU resource management (RM).  Each component's vector table (physically contained within the separate load module for that component) is mapped by an individual structure within APVT, and based on its own pointer in the ATCVT.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	128 ( X'80' ) - HS load module 156 ( X'9C' ) - LNS load module 204 ( X'CC' ) - PS load module 80 ( X'50' ) - COPR load module 100 ( X'64' ) - LRM load module
<b>Pointed to by:</b>	ATCHSCLM (ATCVT) - HS load module ATCNSCRO (ATCVT) - LNS load module ATCPSCR2 (ATCVT) - PS load module ATCCOCSC (ATCVT) - COPR load module ATCRMCR (ATCVT) - LRM load module
<b>Located in:</b>	Common storage.
<b>Additional Notes:</b>	The order of the modules in the vector tables must match the order of modules as defined in this control block.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	128	*	HS LOAD MODULE
0	(0)	ADDRESS	4	APVHSCAB	ABORT HS BUILDER
4	(4)	ADDRESS	4	APVHSCCR	CHAIN RECEIVE FSM
8	(8)	ADDRESS	4	APVHSCCS	CHAIN SEND FSM
12	(C)	ADDRESS	4	*	RESERVED
16	(10)	ADDRESS	4	*	RESERVED
20	(14)	ADDRESS	4	*	RESERVED
24	(18)	ADDRESS	4	APVHSCGI	GENERATE LRM/PS INPUTS
28	(1C)	ADDRESS	4	APVHSCHP	RECEIVE HS PS CONNECTED
32	(20)	ADDRESS	4	*	RESERVED
36	(24)	ADDRESS	4	APVHSCPS	DFC SEND FROM PS
40	(28)	ADDRESS	4	APVHSCRE	RECEIVE ERROR PROCESSING
44	(2C)	ADDRESS	4	APVHSCRM	DFC SEND FROM RM
48	(30)	ADDRESS	4	APVHSCRS	SEND TO LRM
52	(34)	ADDRESS	4	*	WAS HS ROUTER
56	(38)	ADDRESS	4	APVHSCRU	PROCESS RU DATA
60	(3C)	ADDRESS	4	APVHSCRV	DFC RECEIVE
64	(40)	ADDRESS	4	APVHSCSB	SEND BIU
68	(44)	ADDRESS	4	APVHSCSE	RECEIVE STATE ERROR
72	(48)	ADDRESS	4	APVHSCSG	TRY TO RECEIVE SIGNAL
76	(4C)	ADDRESS	4	APVHSCSI	SEND RESPONSE IF REQUIRED
80	(50)	ADDRESS	4	APVHSCSN	DFC SEND FINITE STATE MACHINES
84	(54)	ADDRESS	4	APVHSCSP	SEND BIU TO PS
88	(58)	ADDRESS	4	APVHCSR	SEND RESPONSE BIU
92	(5C)	ADDRESS	4	APVHCTI	TC SEND PACING RESPONSE
96	(60)	ADDRESS	4	APVHCTP	TC PACING RESPONSE RECEIVE
100	(64)	ADDRESS	4	APVHCTR	TC RECEIVE
104	(68)	ADDRESS	4	APVHCTS	TC SEND
108	(6C)	ADDRESS	4	APVHSCUD	MU DISCARD ROUTINE
112	(70)	ADDRESS	4	APVHSCVR	HS VRR ROUTINE
116	(74)	ADDRESS	4	APVHSCPE	HS ERROR PROCESSOR

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
120	(78)	ADDRESS	4	APVHSCFP	PACING REQUEST SEND FSM
124	(7C)	ADDRESS	4	APVHSCFS	SEND FREE SESSION

LNS LOAD MODULE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	156	*	LNS LOAD MODULE
0	(0)	ADDRESS	4	APVNSCAA	ACTSESS PROCESSOR
4	(4)	ADDRESS	4	APVNSCAC	SAVE CINIT
8	(8)	ADDRESS	4	APVNSCAD	DACTSESS PROCESSOR
12	(C)	ADDRESS	4	APVNSCAE	CLEANUP PENDING SESSION (PLU)
16	(10)	ADDRESS	4	APVNSCAG	CLEANUP PENDING SESSION (SLU)
20	(14)	ADDRESS	4	APVNSCAH	CLSDST COMPLETION PROCESSOR
24	(18)	ADDRESS	4	APVNSCAI	ACTIVATE PROCESSOR
28	(1C)	ADDRESS	4	APVNSCAJ	LOGON EXIT PROCESSOR
32	(20)	ADDRESS	4	APVNSCAK	ESTABLISH SESSION (PLU)
36	(24)	ADDRESS	4	APVNSCAL	LINK SAB PROCESSOR
40	(28)	ADDRESS	4	APVNSCAM	SCIP EXIT PROCESSOR
44	(2C)	ADDRESS	4	APVNSCAN	NSEXIT W/NOTIFY PROCESSOR
48	(30)	ADDRESS	4	APVNSCAO	SESSIONC COMPLETION PROCESSOR
52	(34)	ADDRESS	4	APVNSCAP	OPNSECCOMPLETION PROCESSOR
56	(38)	ADDRESS	4	APVNSCAB	INQUIRE COMPLETION PROCESSOR
60	(3C)	ADDRESS	4	APVNSCAR	ESTABLISH SESSION (SLU)
64	(40)	ADDRESS	4	APVNSCAS	SIMLOGON COMPLETION PROCESSOR
68	(44)	ADDRESS	4	APVNSCAT	OPNDST ACC COMPLETION PROCESSOR
72	(48)	ADDRESS	4	APVNSCAU	CHECK SESSION LIMITS
76	(4C)	ADDRESS	4	APVNSCAV	SET ERROR TYPE
80	(50)	ADDRESS	4	APVNSCBA	BIND REQUEST PROCESSOR
84	(54)	ADDRESS	4	APVNSCBB	BIND RESPONSE BUILDER
88	(58)	ADDRESS	4	APVNSCBP	BIND RESPONSE PROCESSOR
92	(5C)	ADDRESS	4	APVNSCBQ	BIND REQUEST BUILDER
96	(60)	ADDRESS	4	APVNSCDA	DEACTIVATE PROCESSOR
100	(64)	ADDRESS	4	APVNSCDB	UNBIND/CLEANUP PROCESSOR
104	(68)	ADDRESS	4	APVNSCDC	DEACTIVATE COMPLETION PROCESSOR
108	(6C)	ADDRESS	4	APVNSCDL	LOSTERM PROCESSOR
112	(70)	ADDRESS	4	APVNSCLD	LM TABLE DELETION
116	(74)	ADDRESS	4	APVNSCLK	LM TABLE PROCESSING (PLU)
120	(78)	ADDRESS	4	APVNSCVR	LNS VRR
124	(7C)	ADDRESS	4	APVNSCLR	LM TABLE PROCESSING (SLU)
128	(80)	ADDRESS	4	APVNSCLT	LM TABLE CHECKER (PLU)
132	(84)	ADDRESS	4	APVNSCMU	MESSAGE UNIT PROCESSOR
136	(88)	ADDRESS	4	APVNSCRO	LNS ROUTER
140	(8C)	ADDRESS	4	*	RESERVED
144	(90)	ADDRESS	4	*	RESERVED
148	(94)	ADDRESS	4	*	RESERVED
152	(98)	ADDRESS	4	*	RESERVED

PS LOAD MODULE

0	(0)	STRUCTURE	204	*	PS LOAD MODULE
0	(0)	ADDRESS	4	APVPSCAL	ALLOCATE PROCEDURE
4	(4)	ADDRESS	4	APVPSCAP	APPC RECEIVE ANY PROCESSOR
8	(8)	ADDRESS	4	APVPSCBF	BUFFERLIST PROCESSING
12	(C)	ADDRESS	4	APVPSCBM	BUFFER ALLOCATION AND MANAGEMENT
16	(10)	ADDRESS	4	APVPSCBN	NO-BUFFERLIST PROCESSING
20	(14)	ADDRESS	4	APVPSCCD	CONFIRMED PROCEDURE
24	(18)	ADDRESS	4	APVPSCCM	RESETRCV PROCEDURE
28	(1C)	ADDRESS	4	APVPSCCN	CONFIRM PROCEDURE
32	(20)	ADDRESS	4	APVPSCCP	PS CNOS PROCEDURE
36	(24)	ADDRESS	4	APVPSCCR	CONVERSATION CRPL ROUTER
40	(28)	ADDRESS	4	APVPSCDA	SEND DATA PROCEDURE
44	(2C)	ADDRESS	4	APVPSCDE	DEALLOCATE ABEND PROCEDURE
48	(30)	ADDRESS	4	APVPSCDM	RECEIVE DATA BUFFER MANAGEMENT
52	(34)	ADDRESS	4	APVPSCDP	RECEIVE DATA PROCESSING
56	(38)	ADDRESS	4	APVPSCDR	DEALLOCATE RAB PROCESSING
60	(3C)	ADDRESS	4	APVPSCD7	DEQUEUE FMH7 PROCEDURE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
64	(40)	ADDRESS	4	APVPSCED	COMPLETE SEND ERROR
68	(44)	ADDRESS	4	APVPSC EQ	ENQUEUE RECEIVE DATA
72	(48)	ADDRESS	4	APVPSCFL	SEND FLUSH PROCEDURE
76	(4C)	ADDRESS	4	APVPSCF1	CONVERSATION FSM
80	(50)	ADDRESS	4	APVPSCGD	GET DEALLOCATE FROM HS
84	(54)	ADDRESS	4	APVPSCIN	INITIALIZE CONVERSATION
88	(58)	ADDRESS	4	APVPSCLP	LOGICAL RECORD PROCESSING
92	(5C)	ADDRESS	4	APVPSCMF	MOVE DATA TO FIXED STORAGE
96	(60)	ADDRESS	4	APVPSCMU	CONVERSATION MESSAGE UNIT ROUTER
100	(64)	ADDRESS	4	APVPSCOS	SESSION OBTAINED
104	(68)	ADDRESS	4	APVPSCPA	PACING INITIALIZATION
108	(6C)	ADDRESS	4	APVPSCPD	PROCESS DATA PROCEDURE
112	(70)	ADDRESS	4	APVPSCPE	PROTOCOL ERROR
116	(74)	ADDRESS	4	APVPSCPF	PREPARE TO RECEIVE FLUSH
120	(78)	ADDRESS	4	APVPSCP7	PROCESS FMH7 PROCEDURE
124	(7C)	ADDRESS	4	APVPSCRA	RAB ALLOCATION COMPLETED
128	(80)	ADDRESS	4	APVPSCRD	RECEIVE DATA
132	(84)	ADDRESS	4	APVPSCRF	RCVFMH5 PROCEDURE
136	(88)	ADDRESS	4	APVPSCRJ	REJECT PROCEDURE
140	(8C)	ADDRESS	4	APVPSCR P	PERFORM RECEIVE PROCESSING
144	(90)	ADDRESS	4	APVPSCR S	REQUEST TO SEND PROCEDURE
148	(94)	ADDRESS	4	APVPSCR X	APPC RECEIVE RPL
152	(98)	ADDRESS	4	APVPSCR1	APPC PAB ROUTER
156	(9C)	ADDRESS	4	APVPSCR2	CONVERSATION ROUTER
160	(A0)	ADDRESS	4	APVPSCR3	APPC PAB PS VERB ROUTER
164	(A4)	ADDRESS	4	APVPSCSE	SEND ERROR PROCEDURE
168	(A8)	ADDRESS	4	APVPSCSH	SEND DATA TO HALF SESSION
172	(AC)	ADDRESS	4	APVPSC T S	TEST FOR POST SATISFIED
176	(B0)	ADDRESS	4	APVPSC V L	VALIDATE FMH5
180	(B4)	ADDRESS	4	APVPSC V1	VRR FOR PS ON THE APPC PAB
184	(B8)	ADDRESS	4	APVPSC V2	VRR FOR CONVERSATION PAB
188	(BC)	ADDRESS	4	APVPSC W S	WAIT FOR SEND ERROR DONE
192	(C0)	ADDRESS	4	APVPSC S P	SEND PACING RESPONSE
196	(C4)	ADDRESS	4	*	RESERVED
200	(C8)	ADDRESS	4	*	RESERVED

## COPR LOAD MODULE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	80	*	COPR LOAD MODULE
0	(0)	ADDRESS	4	APVCOCAA	CHECK ALLOC RESULTS & ADD MODE
4	(4)	ADDRESS	4	APVCOCCA	CHANGE ACTION IN LM TABLE
8	(8)	ADDRESS	4	APVCOCCR	CHECK CNOS REPLY
12	(C)	ADDRESS	4	APVCOCCU	CNOS CLEANUP PROCESSOR
16	(10)	ADDRESS	4	APVCOCCV	SOURCE SIDE CONVERSATION
20	(14)	ADDRESS	4	APVCOCDF	APPCCMD DEFINE PROCESSOR
24	(18)	ADDRESS	4	APVCOCDL	MODE DELETION ROUTINE
28	(1C)	ADDRESS	4	APVCOCDP	APPCCMD DISPLAY PROCESSOR
32	(20)	ADDRESS	4	APVCOCEC	END OF SOURCE CONVERSATION
36	(24)	ADDRESS	4	APVCOCLK	FSM TO LOCK OUT CNOS RACES
40	(28)	ADDRESS	4	APVCOCLP	LOCAL SESSION LIMIT PROCESSOR
44	(2C)	ADDRESS	4	APVCOENR	NEGOTIATE CNOS REPLY
48	(30)	ADDRESS	4	APVCOECP S	PROCESS SESSION LIMITS ON TARGET
52	(34)	ADDRESS	4	APVCOCSA	SET UP, ADD, AND LOCK OF MODE
56	(38)	ADDRESS	4	APVCOESC	SOURCE SIDE CNOS PROCESSOR
60	(3C)	ADDRESS	4	APVCOESP	SOURCE PROCESSOR FOR PARALLEL
64	(40)	ADDRESS	4	APVCOCTC	TARGET COMMAND CONVERSATION
68	(44)	ADDRESS	4	APVCOCTR	TARGET REPLY CONVERSATION
72	(48)	ADDRESS	4	APVCOCV D	VRR ROUTINE FOR DEFINE/DISPLAY
76	(4C)	ADDRESS	4	APVCOCV R	VRR ROUTINE FOR CNOS

## LRM LOAD MODULE

0	(0)	STRUCTURE	100	*	LRM LOAD MODULE
0	(0)	ADDRESS	4	APVRMCAR	ALLOCATE/DEALLOCATE RCB PROC
4	(4)	ADDRESS	4	APVRMCAS	SESSION ACTIVATION PROC

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
8	(8)	ADDRESS	4	APVRMCAT	ATTACH PROC	
12	(C)	ADDRESS	4	APVRMCBD	BID RECEIVED	
16	(10)	ADDRESS	4	APVRMCBR	BID RESPONSE RECEIVED	
20	(14)	ADDRESS	4	APVRMCBY	BIS RQ/BIS REPLY PROC	
24	(18)	ADDRESS	4	APVRMCCL	CLOSE ACB PROC	
28	(1C)	ADDRESS	4	APVRMCCP	SESSION DEACTIVATION POLARITY	
32	(20)	ADDRESS	4	APVRMCCS	CHANGE SESSION PROC	
36	(24)	ADDRESS	4	APVRMCCT	CTERM DEACTIVATE SESSION	
40	(28)	ADDRESS	4	APVRMCDF	DEACTIVATE FREE & PENDING SESSIONS	
44	(2C)	ADDRESS	4	APVRMCFF	FIND FREE SESSION	
48	(30)	ADDRESS	4	APVRMCFB	FREE SESSION PROC	
52	(34)	ADDRESS	4	APVRMCGS	GET SESSION PROC	
56	(38)	ADDRESS	4	APVRMCNS	ACTIVATE NEEDED SESSIONS	
60	(3C)	ADDRESS	4	APVRMCRL	BIS RACE LOSER PROC	
64	(40)	ADDRESS	4	APVRMCRR	RTR REQUEST/RESPONSE RECEIVED PROC	
68	(44)	ADDRESS	4	APVRMCRT	LU RESOURCES MANAGER ROUTER	
72	(48)	ADDRESS	4	APVRMCSE	SEND BIS REQUEST/REPLY	
76	(4C)	ADDRESS	4	APVRMCSD	SESSION DEACTIVATED PROC	
80	(50)	ADDRESS	4	APVRMCSS	PROTOCOL ERROR/SEND DEACTIVATE SESSION	
84	(54)	ADDRESS	4	APVRMCTB	SHOULD SEND BIS PROC	
88	(58)	ADDRESS	4	APVRMCVR	LRM FRR ROUTINE	
92	(5C)	ADDRESS	4	*	RESERVED	
96	(60)	ADDRESS	4	*	RESERVED	

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
APVCOCAA	0		2	APVHSCSN	50		2
APVCOCCA	4		2	APVHSCSP	54		2
APVCOCCR	8		2	APVHCSR	58		2
APVCOCCU	C		2	APVHCTI	5C		2
APVCOCCV	10		2	APVHCTP	60		2
APVCOCDF	14		2	APVHCTR	64		2
APVCOCDL	18		2	APVHCTS	68		2
APVCOCDP	1C		2	APVHSCUD	6C		2
APVCOCEC	20		2	APVHSCVR	70		2
APVCOCLK	24		2	APVNSCAA	0		2
APVCOCLP	28		2	APVNSCAB	38		2
APVCOENR	2C		2	APVNSCAC	4		2
APVCOCPB	30		2	APVNSCAD	8		2
APVCOCSA	34		2	APVNSCAE	C		2
APVCOCSB	38		2	APVNSCAG	10		2
APVCOCSF	3C		2	APVNSCAH	14		2
APVCOCTC	40		2	APVNSCAI	18		2
APVCOCTR	44		2	APVNSCAJ	1C		2
APVCOVD	48		2	APVNCAK	20		2
APVCOVVR	4C		2	APVNICAL	24		2
APVHSCAB	0		2	APVNICALM	28		2
APVHSCCR	4		2	APVNICALN	2C		2
APVHSCCS	8		2	APVNICALO	30		2
APVHSCFEP	74		2	APVNICALP	34		2
APVHSCFFP	78		2	APVNICALR	3C		2
APVHSCFBS	7C		2	APVNICALS	40		2
APVHSCGI	18		2	APVNICALT	44		2
APVHSCHP	1C		2	APVNICALU	48		2
APVHSCPS	24		2	APVNICALV	4C		2
APVHSCRE	28		2	APVNICALBA	50		2
APVHSCRM	2C		2	APVNICALBB	54		2
APVHSCRS	30		2	APVNICALBP	58		2
APVHSCRU	38		2	APVNICALBQ	5C		2
APVHSCRV	3C		2	APVNICALDA	60		2
APVHSCSB	40		2	APVNICALDB	64		2
APVHSCSE	44		2	APVNICALDC	68		2
APVHSCSG	48		2	APVNICALDL	6C		2
APVHSCSI	4C		2	APVNICALD	70		2

Name	Hex Offset	Hex Value	Level
APVNSCLK	74		2
APVNSCLR	7C		2
APVNSCLT	80		2
APVNSCMU	84		2
APVNSCRO	88		2
APVNSCVR	78		2
APVPSCAL	0		2
APVPSCAP	4		2
APVPSCBF	8		2
APVPSCBM	C		2
APVPSCBN	10		2
APVPSCCD	14		2
APVPSCCM	18		2
APVPSCCN	1C		2
APVPSCCP	20		2
APVPSCCR	24		2
APVPSCDA	28		2
APVPSCDE	2C		2
APVPSCDM	30		2
APVPSCDP	34		2
APVPSCDR	38		2
APVPSCD7	3C		2
APVPSCED	40		2
APVPSC EQ	44		2
APVPSCFL	48		2
APVPSCF1	4C		2
APVPSCGD	50		2
APVPSCIN	54		2
APVPSCLP	58		2
APVPSCMF	5C		2
APVPSCMU	60		2
APVPSCOS	64		2
APVPSCPA	68		2
APVPSCPD	6C		2
APVPSCPE	70		2
APVPSCPF	74		2
APVPSCP7	78		2
APVPSCRA	7C		2
APVPSCRD	80		2
APVPSCR F	84		2
APVPSCRJ	88		2
APVPSCR P	8C		2
APVPSCR S	90		2
APVPSCR X	94		2
APVPSCR1	98		2
APVPSCR2	9C		2
APVPSCR3	A0		2
APVPSCSE	A4		2
APVPSCSH	A8		2
APVPSCSP	C0		2
APVPSCTS	AC		2
APVPSCVL	B0		2
APVPSCV1	B4		2
APVPSCV2	B8		2
APVPSCWS	BC		2
APVRCAR	0		2
APVRCAS	4		2
APVRCAT	8		2
APVRCBD	C		2
APVRCBR	10		2
APVRCBY	14		2
APVRCCL	18		2
APVRC CP	1C		2
APVRC CS	20		2
APVRCCT	24		2
APVRCDF	28		2
APVRCFF	2C		2

Name	Hex Offset	Hex Value	Level
APVRCFS	30		2
APVRCGS	34		2
APVRCNS	38		2
APVRCRL	3C		2
APVRCRR	40		2
APVRCRT	44		2
APVRC SB	48		2
APVRCSD	4C		2
APVRCSS	50		2
APVRC TB	54		2
APVRCVR	58		2

## Activation Request Sequence Identifier Vector (ARSI)

<b>Function:</b>	ARSI maps the activation request sequence identifier, which is sent with ACTPU and ACTCDRM RUs. It is used to determine whether the current RU supersedes the previous RU from the same sender.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	10 (X'A')
<b>Located in:</b>	Found in the ERT data area and the ER_ACT (ERARU), ACTPU (APURU), and ACTCDRM (ACTCD) RUs

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	ISTARSI	ACTIVATION REQUEST SEQUENCE IDENTIFIER
0	(0)	CHARACTER	1	ARSVCKEY	VECTOR KEY FOR ARSI
1	(1)	UNSIGNED	1	ARSVCLLEN	VECTOR KEY LENGTH
2	(2)	CHARACTER	8	ARSVCFD	ARSI VALUE. SEE PCID

### Constants

Len	Type	Value	Name	Description
VALUES FOR ARSVCKEY				
1	HEX	09	ARSIKEY	CONTROL VECTOR FOR ARSI

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## Adjacent SSCP Name List (ASNL)

<b>Function:</b>	ASNL maps the adjacent SSCP name list that is passed to the session management exit routine.
<b>Boundary:</b>	Halfword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	CAAPGPLP (CAAPL)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	4	ISTASNL	ADJACENT SSCP NAMELIST	
0	(0)	UNSIGNED	2	ASNLNG	LENGTH OF TABLE EXCLUDING THIS LENGTH FIELD	
2	(2)	UNSIGNED	2	ASNNOE	NUMBER OF ENTRIES IN TABLE	
4	(4)	CHARACTER	*	ASNENT	BEGINNING OF SSCP NAME ENTRIES	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	ASNENTRY	SSCP ENTRY	
0	(0)	CHARACTER	8	ASNSSCP	SSCP NAME	
8	(8)	CHARACTER	*	ASNNXENT	BASE LOCATION FOR NEXT ENTRY	

## VTAM Communications Vector Table (ATCVT)

<b>Function:</b>	The ATCVT is built during VTAM initialization. It contains the addresses of VTAM routines not contained in DVTs and the addresses of control blocks (RDT, SRT) needed for VTAM processing. The ATCVT is the principal data area in fixed storage that VTAM uses to obtain addresses and specific PABs.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	3148 (X'C4C')
<b>Pointed to by:</b>	Low core location X'200' BPDATCVT (BPDY) ISTACVT (AVT) NCSPLCVT (NCSPL) OCAOCXAD (OCA) OCWACVT
<b>Included Blocks:</b>	LOK (ATCLDLCK, ATCVOCLK, ATCRDTLK, ATCVRCLK, ATCPSTLK, ATCHSQLK, ATCINNLK) DYPAB (ATCITPAB, ATCTMRPB, ATCSMPAB, ATCTCIPB, ATCVDPA, ATCPXPAB, ATCPUPAB, ATCPDDYP, ATCPUOP, ATCLUSRT, ATCNTPAB, ATCNOSPB, ATCWUDYP, ATCTRMPB, ATCFEMPB, ATCTPMPB) PAB (ATCCSPAB, ATCSSPAB, ATCSOPAB, ATCMBPAB, ATCMGPAB, ATCWUPAB, ATCPDPAB)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3148	ISTATCVT	
0	(0)	CHARACTER	8	ATCRPTCH	VTAM RELEASE AND PATCH AREA ADDRESS
0	(0)	CHARACTER	8	ATCVTLVL	VTAM RELEASE LEVEL: VV33
8	(8)	CHARACTER	16	ATCITFLD	VTAM INTERNAL TRACE FIELDS
8	(8)	CHARACTER	4	ATCITPRM	VIT START PARAMETERS MAPPED BY NCSPLITF
8	(8)	SIGNED	4	ATCITMAX	MAXIMUM VIT RECORDS PER TRB (VSE ONLY)
12	(C)	ADDRESS	4	ATCITTB	POINTER TO INTERNAL TRACE TABLE
16	(10)	CHARACTER	8	ATCITCDS	FIELD USED FOR COMPARE DOUBLE AND SWAP INSTRUCTION(VIT)
16	(10)	ADDRESS	4	ATCITRPH	POINTER TO INTERNAL TRACE RPH
20	(14)	CHARACTER	4	ATCITFLG	VIT TRACE FLAGS
20	(14)	SIGNED	2	ATCITCNT	VIT TRACE USE COUNT
22	(16)	BITSTRING	2	ATCITRA1	TRACING FLAGS FOR INTERNAL TRACE (MUST BE IN SAME ORDER AS NCSPL FLAGS < NCSITFL1 >)
		1... ....		ATCITAPI	API TRACE ACTIVE
		.1.. ....		ATCITLCK	LOCKING TRACE ACTIVE
		..1. ....		ATCITPSS	PSS TRACE ACTIVE
		...1 ....		ATCITSMS	SMS TRACE ACTIVE
		.... 1..		ATCITPIU	PIU TRACE ACTIVE
		.... .1..		ATCITMSG	MSG TRACE ACTIVE
		.... ..1.		ATCITSCP	SSCP TRACE ACTIVE
		.... ...1		ATCITCIO	CIO TRACE ACTIVE
		1... ....		ATCITNRM	NRM TRACE ACTIVE
		.1.. ....		ATCITAPC	APPC TRACE ACTIVE
		..1. ....		ATCITESC	ESC OPTION SPECIFIED
		...1 ....		*	RESERVED
		.... 111.		*	NOT USED - AVAILABLE
		.... ...1		ATCITACT	VIT IS ACTIVE
24	(18)	CHARACTER	36	ATCITPAB	VTAM INTERNAL TRACE DYNAMIC PAB
60	(3C)	ADDRESS	4	ATCTRACQ	POINTER TO FIRST TRACE REQUEST ELEMENT (ISTRCEL)
64	(40)	CHARACTER	36	ATCTMRPB	VTAM TIMER SERVICES PAB
100	(64)	ADDRESS	4	ATCRACEL	TRACE REQUEST ELEMENT PROCESSER
104	(68)	CHARACTER	56	ATCSMPAB	SSCP DYNAMIC PAB
104	(68)	CHARACTER	16	*	RESERVED - NOT AVAILABLE
120	(78)	CHARACTER	20	ATCCSPAB	CONFIGURATION SERVICES PAB
160	(A0)	ADDRESS	4	ATCRCEGP	POINTER TO CONTROL BLOCK ISTRCE FOR TYPE RCEGROUP
164	(A4)	ADDRESS	4	ATCRCETB	POINTER TO THE RCETABLE - ISTRCE



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
168	(A8)	ADDRESS	4	ATCDLSPL	POINTER TO DIRECTED LOAD SUBTASK PARAMETER LIST - ISTDLSPL
172	(AC)	ADDRESS	4	ATCDLOAD	POINTER TO DIRECTED LOAD ROUTINE - ISTINCDL
176	(B0)	ADDRESS	4	ATCNRCTU	POINTER TO ISTNRCTU
180	(B4)	ADDRESS	4	*	RESERVED
184	(B8)	CHARACTER	56	ATCVDPAB	SSCP DYPAB
240	(F0)	ADDRESS	4	ATCNRCEE	POINTER TO RCE MACRO PROCESSOR - ISTNRCEE
244	(F4)	ADDRESS	4	*	RESERVED
248	(F8)	CHARACTER	36	ATCPXPAB	DYNAMIC BUFFER POOL EXPANSION DYNAMIC PAB
284	(11C)	ADDRESS	4	ATCRLVAT	POINTER TO REAL PAGE ADDRESS TO VIRTUAL PAGE. ADDRESS TRANSLATION TABLE
288	(120)	CHARACTER	56	ATCPUPAB	PHYSICAL UNIT SERVICES DYNAMIC PAB
344	(158)	CHARACTER	56	ATCPUiop	SSCP/PU SERVICES I/O PAB
400	(190)	CHARACTER	56	ATCLUSRT	LU SERVICES ROUTER PAB
456	(1C8)	CHARACTER	8	ATCADJLK	LOCK WORD FOR ADJSA LOCK WORD
464	(1D0)	CHARACTER	8	ATCHNTLK	LOCK WORD FOR HNT LOCK
472	(1D8)	CHARACTER	8	ATCADJ	ADJSA COMPARE DOUBLE AND SWAP AREA
472	(1D8)	ADDRESS	4	ATCADJSA	POINTER TO ADJSA TABLE
476	(1DC)	ADDRESS	4	ATCADJCT	POINTER TO ADJSA DISABLED USERS COUNT
480	(1E0)	ADDRESS	4	ATCCIT	POINTER TO THE CID INDEX TABLE
484	(1E4)	ADDRESS	4	ATCPTCHA	POINTER TO VTAM PATCH AREA
488	(1E8)	CHARACTER	4	*	NOT USED - AVAILABLE
THE ADDRESS OF THE MESSAGE MODULE (ATCMMSGM) MUST REMAIN AT X'1EC' FOR NCCF COMPATIBILITY.					
492	(1EC)	ADDRESS 1... ..	4	ATCMMSGM ATCMMSGHI	POINTER TO TPMSG MESSAGE CSECT ISTCFMCM 1= ISTCFMCM HAS AN ID PREFIX. THIS BIT IS INTENDED FOR USE ONLY DURING INITIALIZATION (CLEARED AFTER USE)
492	(1EC)	BITSTRING	3	*	ADDRESS OF ISTCFMCM
496	(1F0)	CHARACTER	36	ATCNTPAB	TSC NO SESSION PAB
532	(214)	ADDRESS	4	ATCTSCNP	TSC NOTIFY PROCESSOR
536	(218)	CHARACTER	36	ATCNOSPAB	NETWORK OPERATOR SERVICES PAB
572	(23C)	ADDRESS	4	ATCCFCDM	POINTER TO THE DUPLICATE-MESSAGE ID TABLE (ISTCFCDM)
576	(240)	CHARACTER	20	ATCLDTIL	DUMP/LOAD/RESTART TASK INTERFACE LIST
576	(240)	ADDRESS	4	ATCLDNCS	DUMP/LOAD/RESTART WORK QUEUE ANCHOR
580	(244)	ADDRESS	4	ATCLDLST	POINTER TO LAST ELEMENT ON QUEUE
584	(248)	CHARACTER	8	ATCLDLCK	DUMP/LOAD/RESTART QUEUE LOCK
592	(250)	CHARACTER	4	ATCLDECB	DUMP/LOAD/RESTART SUBTASK ECB
596	(254)	ADDRESS	4	ATCAPCKU	POINTER TO KILL USER ROUTINE ISTAPCKU
600	(258)	CHARACTER	20	ATCSSPAB	SESSION SERIALIZATION PAB
620	(26C)	ADDRESS	4	ATCCPC01	POINTER TO SSCP VECTOR LIST ISTCPC01
624	(270)	CHARACTER	20	ATCSOPAB	SESSION OUTAGE NOTIFY PAB
644	(284)	ADDRESS	4	ATCACCO0	POINTER TO ACTIVATE(PART-1) PROCESSOR - ISTACCO0
648	(288)	ADDRESS	4	ATCACCO1	POINTER TO ACTIVATE(PART-2) PROCESSOR - ISTACCO1
652	(28C)	ADDRESS	4	ATCAPI	POINTER TO API PROGRAM INTERFACE ROUTING PROCESSOR ISTAICIR
656	(290)	ADDRESS	4	ATCAICPT	POINTER TO API POSTING PROCESSOR ISTAICPT
660	(294)	ADDRESS	4	ATCAP33	POINTER TO TPUNLOCK PROCESSOR ISTAPC33
664	(298)	ADDRESS	4	ATCAP36	POINTER TO TPLOCK EXCLUSIVE PROCESSOR ISTAPC36
668	(29C)	ADDRESS	4	ATCAP39	POINTER TO TPUNLOCK ALL PROCESSOR ISTAPC39
672	(2A0)	ADDRESS	4	ATCMGRP	POINTER TO TPMSG PROCESSOR ISTCFCTM
676	(2A4)	ADDRESS	4	ATCACCTA	POINTER TO INSTALLATION ACCOUNTING ROUTINE ISTAUCAG
680	(2A8)	ADDRESS	4	ATCAUTHA	POINTER TO INSTALLATION AUTHORIZATION ROUTINE ISTAUCAT
684	(2AC)	ADDRESS	4	ATCCPCNT	POINTER TO CPNRY PROCESSOR ISTCPCNT
688	(2B0)	ADDRESS	4	ATCCPCPP	POINTER TO CPPOST/CPPURGE PROCESSOR ISTCPCPP
692	(2B4)	ADDRESS	4	ATCCPCGR	POINTER TO GETRUPE PROCESSOR ISTCPCGR
696	(2B8)	ADDRESS	4	ATCCPCFR	POINTER TO FREERUPE PROCESSOR ISTCPCFR
700	(2BC)	ADDRESS	4	ATCAP35	POINTER TO TPLOCK SHARED PROCESSOR ISTAPC35
704	(2C0)	ADDRESS	4	ATCRTTAB	POINTER TO INDEX TABLE FOR ROUTER/SENDER

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
708	(2C4)	ADDRESS	4	ATCDEC00	POINTER TO DEACTIVATE(PART-1) PROCESSOR ISTDEC00 AD14AKMC
712	(2C8)	ADDRESS	4	ATCDEC01	POINTER TO DEACTIVATE(PART-2) PROCESSOR ISTDEC01
716	(2CC)	ADDRESS	4	ATCESC01	POINTER TO TPESC PROCESSOR ISTESC01
720	(2D0)	ADDRESS	4	ATCRACEP	POINTER TO VIT ENTRY POINT ROUTINE ISTRACEP
724	(2D4)	ADDRESS	4	ATCADEL	POINTER TO ADELETE PROCESSOR ISTINCAD
728	(2D8)	ADDRESS	4	ATCALOAD	POINTER TO ALOAD PROCESSOR ISTINCAL
732	(2DC)	ADDRESS	4	ATCBLDLA	POINTER TO BLDL PROCESSOR ISTINCBL
736	(2E0)	ADDRESS	4	ATCINCCO	POINTER TO CPCALL OUTBOUND PROCESSOR ISTINCCO
740	(2E4)	ADDRESS	4	ATCINCCI	POINTER TO CPCALL INBOUND PROCESSOR ISTINCCI
744	(2E8)	ADDRESS	4	ATCINCF1	POINTER TO SEND REQUEST UNIT INTERFACE PROCESSOR ISTINCF1
748	(2EC)	ADDRESS	4	ATCNOCRT	POINTER TO NETWORK OPERATOR SERVICES ROUTING PROCESSOR ISTNOCRT
752	(2F0)	ADDRESS	4	ATCINCLQ	POINTER TO CPFIND, ALIAS RDTADD/FIND/DEL PROCESSOR ISTINCLQ
756	(2F4)	ADDRESS	4	ATCINCPH	POINTER TO INIT/TERM KEYWORD SCAN PROCESSOR ISTINCPH
760	(2F8)	ADDRESS	4	ATCINCRD	POINTER TO INIT/TERM CARD READ PROCESSOR ISTINCRD
764	(2FC)	ADDRESS	4	ATCSRTAB	POINTER TO LOGON MODE TABLE SEARCH PROCESSOR ISTINCSH
768	(300)	ADDRESS	4	ATCINCS1	POINTER TO SSCP/PUNS/LUS SEND RESPONSE PROCESSOR ISTINCS1
772	(304)	ADDRESS	4	ATCINCTQ	POINTER TO TIMER SERVICES PROCESSOR ISTINCTQ
776	(308)	ADDRESS	4	ATCINCUE6	POINTER TO USS MESSAGE BUILD PROCESSOR ISTINCUE6
780	(30C)	ADDRESS	4	ATCINCW3	POINTER TO GETNCSPL/FRENCSPS PROCESSOR ISTINCW3
784	(310)	ADDRESS	4	ATCINCY5	POINTER TO DISCONNECTION PROCESSOR ISTINCY5
788	(314)	ADDRESS	4	ATLUCRT	POINTER TO LOGICAL UNIT SERVICES ROUTING PROCESSOR ISTLUCRT
792	(318)	ADDRESS	4	ATCNRCSD	POINTER TO SRTDEL/SRTFIND/SRTCHG PROCESSOR ISTNRCSD
796	(31C)	ADDRESS	4	ATCNRCSA	POINTER TO SRTADD PROCESSOR ISTNRCSA
800	(320)	ADDRESS	4	ATCSTMA	POINTER TO STORAGE MANAGEMENT INITIALIZATION PROCESSOR - ISTORCBP (VSE) ISTORFPO (OS/V5, VM)
804	(324)	ADDRESS	4	ATCSDUMP	POINTER TO THE GLOBAL SDUMP PARMLIST
808	(328)	ADDRESS	4	ATCORCAF	POINTER TO VTALLOC/VTFREE PROCESSOR - ISTORCAF
812	(32C)	ADDRESS	4	ATCSMRQ	POINTER TO REQSTORE PROCESSOR - ISTORCRQ (VSE) ISTORFBA (OS/V5, VM)
816	(330)	ADDRESS	4	ATCSMRS	POINTER TO RELSTORE PROCESSOR - ISTORCRT (VSE) ISTORFBD (OS/V5 VM)
820	(334)	ADDRESS	4	ATCPUCRT	POINTER TO PHYSICAL UNIT SERVICES ROUTING PROCESSOR - ISTPUCRT
824	(338)	ADDRESS	4	ATCADD	POINTER TO ADD QAB PROCESSOR - ISTRACAD
828	(33C)	ADDRESS	4	ATCRACIO	POINTER TO I/O TRACE PROCESSOR - ISTRACIO
832	(340)	ADDRESS	4	ATCREMOV	POINTER TO REMOVE QAB PROCESSOR - ISTRACRE
836	(344)	ADDRESS	4	ATCRACTI	POINTER TO VTAM INTERNAL TRACE INITIALIZATION PROCESSOR - ISTRACTI
840	(348)	ADDRESS	4	ATCRACTR	POINTER TO VTAM INTERNAL TRACE PROCESSOR - ISTRACTR
844	(34C)	ADDRESS	4	ATCSDCC2	ADDRESS OF ISTSDCC2
848	(350)	ADDRESS	4	ATCDVLOD	POINTER TO DEVICE NAMES TABLE - ISTSDCOD
852	(354)	ADDRESS	4	ATCTSVT	POINTER TO THE TSC VECTOR TABLE - ISTTSCVT
856	(358)	ADDRESS	4	ATCTSCIO	POINTER TO START IO ROUTINE- ISTTSCIO
860	(35C)	ADDRESS	4	ATCTSCGR	POINTER TO GENERAL RESPONSE ROUTINE - ISTTSCGR
864	(360)	ADDRESS	4	ATCTSCPR	POINTER TO PATH CONTROL ROUTER - ISTTSCPR
868	(364)	ADDRESS	4	ATCTSCER	POINTER TO ENABLED PATH CONTROL ROUTER - ISTTSCER
872	(368)	ADDRESS	4	ATCTSCNS	POINTER TO NO SESSION PAB PROCESSOR - ISTTSCNS
876	(36C)	ADDRESS	4	ATCTSCEM	POINTER TO ERROR MESSAGE PROCESSOR - ISTTSCEM

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
880	(370)	ADDRESS	4	ATCTSCWS	POINTER TO COMMUNICATIONS CONTROLLER/CLUSTER CONTROLLER WRITE SCHEDULER - ISTTSCWS
884	(374)	ADDRESS	4	ATCTSCCB	POINTER TO COMMUNICATIONS CONTROLLER/CLUSTER CONTROLLER CHANNEL PROGRAM BUILDER - ISTTSCCB
888	(378)	ADDRESS	4	ATCTSCCE	POINTER TO COMMUNICATIONS CONTROLLER/CLUSTER CONTROLLER CHANNEL END APPENDAGE - ISTTSCCE
892	(37C)	ADDRESS	4	ATCTSCFV	POINTER TO TSC FIXED VECTOR TABLE - ISTTSCFV
896	(380)	ADDRESS	4	ATCTSCUF	ADDRESS OF ISTTSCUF
900	(384)	ADDRESS	4	ATCTSCLS	POINTER TO LOCAL 3270 WRITE SCHEDULER - ISTTSCLS
904	(388)	ADDRESS	4	ATCTSCLB	POINTER TO LOCAL 3270 CHANNEL PROGRAM BUILDER - ISTTSCLB
908	(38C)	ADDRESS	4	ATCTSCLE	POINTER LOCAL 3270 CHANNEL END APPENDAGE - ISTTSCLE
912	(390)	ADDRESS	4	*	RESERVED
916	(394)	ADDRESS	4	*	RESERVED
920	(398)	ADDRESS	4	*	RESERVED
924	(39C)	ADDRESS	4	*	RESERVED
928	(3A0)	ADDRESS	4	ATCAMSVL	POINTER TO AMS VECTOR LIST
932	(3A4)	ADDRESS	4	ATCVTLQD	POINTER TO VTAM LOAD LIST - ISTVTLOD
936	(3A8)	CHARACTER	8	ATCLUDVT	LUCB PROCESS PAB DVT
936	(3A8)	ADDRESS	4	ATCTCSR	POINTER TO INBOUND SESSION ROUTER - ISTTCSR
940	(3AC)	ADDRESS	4	ATCTSCCO	POINTER TO COMMON SESSION CONTROL - ISTTSCCO
944	(3B0)	CHARACTER	4	ATCANYDT	RECEIVE ANY DVT
944	(3B0)	ADDRESS	4	ATCTSCAP	POINTER TO RECEIVE ANY PROCESSOR - ISTTSCAP
948	(3B4)	CHARACTER	20	*	LQABS
948	(3B4)	ADDRESS	4	ATCIOLQB	POINTER TO SSCP I/O LQABS
952	(3B8)	ADDRESS	4	ATCLUIOQ	POINTER TO LUS I/O LQAB
956	(3BC)	ADDRESS	4	ATCLUSMQ	POINTER TO SERVICE MANAGER LQAB
960	(3C0)	ADDRESS	4	ATCMCQAB	POINTER TO MISCELLANEOUS COMMAND LQAB
964	(3C4)	ADDRESS	4	ATCPULQB	POINTER TO PHYSICAL UNIT SERVICES LQAB
968	(3C8)	CHARACTER	4	ATCPODVT	PROGRAM OPERATOR INTERFACE DVT
968	(3C8)	ADDRESS	4	ATCCFCR2	POINTER TO PROGRAM OPERATOR INTERFACE ROUTINE - ISTCFCR2
972	(3CC)	ADDRESS	4	ATCDWA	POINTER TO TSC DISABLED WORK AREA (THIS WORK AREA IS USABLE ONLY BY PROCESSORS WHICH RUN WITH I/O INTERRUPTS DISABLED)

THE BIT ATCMMSGID MUST STAY AT LOCATION 3D1 FOR NCCC

976	(3D0)	CHARACTER	4	*	
976	(3D0)	BITSTRING	1	ATCESACP	ESA SUPPORT
		1... ....		ATCESA	1 = ESA CAPABLE
		.111 ....		*	RESERVED
		.... 1111		ATCSALMT	SUBAREA LIMIT (ATCSASUP IN THE 4 BIT REPRESENTATION) 0000 - 255 SUBAREAS 0001 - 511 SUBAREAS 0010 - 1023 SUBAREAS 0011 - 2047 SUBAREAS 0100 - 4095 SUBAREAS 0101 - 8191 SUBAREAS 0110 - 16383 SUBAREAS 0111 - 32767 SUBAREAS 1000 - 65535 SUBAREAS
977	(3D1)	BITSTRING	1	*	
		11.. ....		*	NOT USED - AVAILABLE
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1...		*	RESERVED
		.... .1..		ATCADEKS	1 = KEEP USER SESSION WITH LOCAL NON SNA TERMINAL ON ASYNCHRONOUS DEVICE END 0 = TERMINATE LU-LU SESSION ON ASYNCHRONOUS DEVICE END
		.... ..1.		ATCMMSGID	1 = MSGMOD=YES IN EFFECT (INCLUDE MODULE NAME IN MESSAGES)
		.... ...1		ATCGWSCP	1 = SSCP IS A GATEWAY SSCP
978	(3D2)	BITSTRING	1	*	
		1... ....		*	RESERVED
		.1.. ....		*	RESERVED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		..1. ....		*	RESERVED
		...1 1111		*	NOT USED - AVAILABLE
979	(3D3)	CHARACTER	1	*	NOT USED - AVAILABLE
980	(3D4)	ADDRESS	4	ATCTUBUF	POINTER TO BUFFER CHAIN FOR TUNING STATISTICS
984	(3D8)	ADDRESS	4	ATCUSSPT	POINTER TO DEFAULT USS DEFINITION TABLE - ISTINCDT
988	(3DC)	ADDRESS	4	ATCMODTB	POINTER TO SYSTEM LOGON MODE TABLE - ISTINCLM
992	(3E0)	ADDRESS	4	ATCMXCCW	POINTER TO CCWS USED BY TSC ATTENTION HANDLERS
996	(3E4)	ADDRESS	4	ATCTRCPT	POINTER TO TRACE PARAMETER LIST
1000	(3E8)	ADDRESS	4	ATCTSCSG	POINTER TO PIU SEGMENTER
1004	(3EC)	ADDRESS	4	ATCITRT	POINTER TO I/O TRACE TABLE
1008	(3F0)	ADDRESS	4	ATCNODDS	POINTER TO NODELST CHECKPOINT WORKAREA
1012	(3F4)	ADDRESS	4	ATCHNT	POINTER TO HOST NODE TABLE
1016	(3F8)	ADDRESS	4	ATCACDA	POINTER TO FIRST ACDEB ON ACDEB QUEUE
1020	(3FC)	ADDRESS	4	ATCBPDA	POINTER TO BUFFER POOL DIRECTORY
1024	(400)	ADDRESS	4	ATCDLRPT	POINTER TO DUMP/LOAD/RESTART WORKAREA
1028	(404)	ADDRESS	4	ATCSDVT	POINTER TO SKELETON DVT - ISTDVCRC
1032	(408)	ADDRESS	4	ATCACDAT	POINTER TO ACDEB ADDRESS TABLE
1036	(40C)	ADDRESS	4	ATCSRT	POINTER TO SRT DIRECTORY
1040	(410)	ADDRESS	4	*	RESERVED
1044	(414)	ADDRESS	4	ATCHALTQ	POINTER TO HALT COMMAND OUTPUT QAB
1048	(418)	ADDRESS	4	*	RESERVED
1052	(41C)	ADDRESS	4	*	RESERVED
1056	(420)	ADDRESS	4	ATCSIBQ	POINTER TO FIRST SESSION INFORMATION BLOCK (SIB) ON SIB QUEUE
1060	(424)	ADDRESS	4	ATCCONFT	POINTER TO VTAM CONFIG TABLE
1064	(428)	ADDRESS	4	ATCFDVT	ANCHOR FOR DVT QUEUE FOR OPEN/CLOSE PROCESSING
1068	(42C)	ADDRESS	4	ATCFEPT	ANCHOR FOR EPT QUEUE FOR OPEN/CLOSE PROCESSING
1072	(430)	ADDRESS	4	ATCTSCRI	POINTER TO PATH CONTROL VIRTUAL ROUTE INBOUND PROCESSOR ISTTSCRI
1076	(434)	ADDRESS	4	ATCTSCRO	POINTER TO PATH CONTROL VIRTUAL ROUTE OUTBOUND PROCESSOR ISTTSCRO
1080	(438)	CHARACTER	4	ATCSSDVT	SESSION SERIALIZATION PAB DVT
1080	(438)	ADDRESS	4	ATCTSCSC	POINTER TO SESSION SERIALIZATION CONTROL PROCESSOR ISTTSCSC
1084	(43C)	CHARACTER	4	ATCSODVT	SESSION OUTAGE PAB DVT
1084	(43C)	ADDRESS	4	ATCTSCON	POINTER TO SESSION OUTAGE NOTIFICATION PROCESSOR ISTTSCON
1088	(440)	SIGNED	2	ATCSOTIM	SESSION OUTAGE NOTIFICATION TIME INTERVAL
1090	(442)	SIGNED	2	ATCSOPAC	VR_INOP PACING MAXIMUM BUFFER COUNT
1092	(444)	ADDRESS	4	ATCSSIQH	SESSION SERIALIZATION INBOUND (TO THE HOST) QUEUE HEADER
1096	(448)	ADDRESS	4	ATCSSOQH	SESSION SERIALIZATION OUTBOUND (FROM THE HOST) QUEUE HEADER
1100	(44C)	SIGNED	4	ATCTSBUF	THE NUMBER OF BYTES THAT CAN BE READ OR WRITTEN IN A TSC I/O BUFFER
1104	(450)	CHARACTER	4	ATCNOPO0	THIS AREA CONTAINS CODE FOR A DUMMY BOUNDARY FUNCTION - SLR 15,15 SET 0 RC BR 14 AND RETURN
1108	(454)	CHARACTER	4	ATCSTAT	VTAM STATUS BYTE 1
1108	(454)	CHARACTER	1	ATCSTAT1	VTAM IS STARTING
		1.. ....		ATCACTIV	VTAM IS ACTIVE
		..1. ....		ATCSNHLT	VTAM IS SESSION HALTING
		...1 ....		ATCQKHLT	VTAM IS QUICK HALTING
		.... 1..		ATCNETSL	NETSQL EQUALS YES WAS SPECIFIED ON COMMAND
		.... .1..		ATCVM	ARE WE UNDER VM?
		.... ..1.		ATCMDHLT	VTAM COMMAND PROCESS HAS HALTED
		.... ...1		ATCHIP	HALT IN PROGRESS
1109	(455)	CHARACTER	1	*	FLAG BYTE
		1.. ....		ATCITEXT	EXTERNAL MODE SPECIFIED FOR VIT AS START PARAMETER
		.1.. ....		ATCTMRHT	VTAM TIMER IS INACTIVE DUE TO VTAM HALT (DOS ONLY)
		..1. ....		ATCHDMP	1 = DUMP REQUESTED ON HALT CANCEL

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		...1 ....		ATCPPOLG	1 = PPOLOG=YES IS IN EFFECT--SEND TO POA COPIES OF ALL VTAM COMMANDS AND VTAM SOLICITED MESSAGES
		.... 1..		ATCBABYV	RESERVED - NOT AVAILABLE
		.... .1..		ATCALACT	RESERVED FOR FUTURE DEVELOPMENT - NOT AVAILABLE
		.... ..11		*	NOT USED - AVAILABLE
1110	(456)	CHARACTER	1	ATCPOFLG	PROGRAM OPERATOR INTERFACE FLAGS
		1.. ....		ATCPOUNS	PRIMARY PROGRAM OPERATOR APPLICATION IS AUTHORIZED TO RECEIVE UNSOLICITED MESSAGES
		.1.. ....		ATCPSSUP	PSS IS ACTIVE
		..1. ....		ATCMQIP	MESSAGE QUIESCE IN PROGRESS
		...1 ....		*	NOT USED - AVAILABLE
		.... 1..		*	NOT USED - AVAILABLE
		.... .1..		*	NOT USED - AVAILABLE
		.... ..1.		*	NOT USED - AVAILABLE
		.... ...1		*	NOT USED - AVAILABLE
1111	(457)	CHARACTER	1	ATCSTAT4	VTAM STATUS BYTE-4
		1.. ....		*	NOT USED - AVAILABLE
		.1.. ....		ATCNCSO	NETWORK CONFIG SERVICES QUIESCED DURING HALT IS THIS A 9370?
		..1. ....		ATC9370	
		...1 ....		ATCPUBUF	HOST PU BUFFER TRACE REQUIRED
		.... 1..		ATCPUIOT	HOST PU I/O TRACE REQUIRED
		.... .1..		ATCALIAS	ALIAS APPLICATION NSHDR SRTADDED
		.... ..1.		*	NOT USED - AVAILABLE
		.... ...1		ATCNOGW	RESERVED - NOT AVAILABLE
1112	(458)	CHARACTER	4	ATCBITAN	VTAM FLAG BITS
1112	(458)	CHARACTER	1	ATCFLAG1	FLAG BYTE-1
		1.. ....		ATCSIDEQ	STORAGE ON STORAGE POOL SIDE QUEUES TO FREE
		.1.. ....		*	RESERVED
		..1. ....		ATCSRCH	ADJACENT SSCP TABLE SEARCH 0= SSCPORD=PRIORITY - START OPTION SPECIFIED OR ASSUMED 1= SSCPORD=DEFINED - START OPTION SPECIFIED
		...1 ....		ATCDYENT	DYNAMID SSCP TABLE ENTRIES 0= SSCPDYN=YES - DYNAMIC ENTRIES MAY NOT BE ADDED TO TABLES 1= SSCPDYN=NO - START TIME DYNAMIC ENTRIES MAY BE ADDED TO TABLES {OR ASSUMED}
		.... 1111		*	NOT USED - AVAILABLE
1113	(459)	CHARACTER	1	ATCFLAG2	FLAG BYTE-2
		1.. ....		ATCCDLRA	CROSS DOMIAN LINKS ARE TO REMAIN ACTIVE
		.1.. ....		ATCTUNAC	TUNING STATISTICS IS ACTIVE
		..1. ....		ATCTUNRQ	TUNING STATISTICS TASK IS ATTACHED
		...1 ....		ATCTUNCL	DISPLAY TUNSTAT RECORD AT CONSOLE
		.... 1..		ATCCRYPF	BOTH VTAM AND SYSTEM CRYPTOGRAPHY ARE INSTALLED (OS/V S ONLY)
		.... ..1.		*	NOT USED - AVAILABLE
		.... ...1		ATCVMRIO	VTAM MACHINE CAN USE REAL I/O CHANNEL PROGRAMS
1114	(45A)	BITSTRING	1	ATCLODTS	TSC MODULE LOAD INDICATORS
		1.. ....		ATCILOAD	PU TYPE 2/4 MODULES HAVE BEEN LOADED
		.1.. ....		ATCLLOAD	LOCAL NON-SNA MODULES HAVE BEEN LOADED
		..1. ....		ATCXLOAD	CTCA MODULES HAVE BEEN LOADED
		...1 ....		ATCHLOAD	CA/SDLC MODULES HAVE BEEN LOADED
		.... 1..		ATCBLOAD	CA/BSC MODULES HAVE BEEN LOADED
		.... .1..		ATC1LOAD	X.21 SHM FEATURE MODULES HAVE BEEN LOADED
		.... ..1.		*	RESERVED
		.... ...1		*	NOT USED - AVAILABLE
1115	(45B)	CHARACTER	1	ATCSTNSM	STNSM AREA: NOTE THAT THE MASK MAY NOT BE EXAMINED AFTER IT IS STORED AS THIS AREA MAY BE USED SIMULTANEOUSLY BY MULTIPLE CPUS
1116	(45C)	CHARACTER	4	ATCONID	POI HEADERS FOR INIT/TERM
1116	(45C)	CHARACTER	2	ATCSCNID	START POI HEADER
1118	(45E)	CHARACTER	2	ATCHCNID	HALT POI HEADER
1120	(460)	CHARACTER	6	ATCSSCPA	SSCP NETWORK ADDRESS
1120	(460)	SIGNED	4	ATCHOSTA	HOST SUBAREA
1120	(460)	SIGNED	4	ATCSAF	HOST SUBAREA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
1124	(464)	SIGNED	2	ATCHOSTE	HOST ELEMENT
1124	(464)	SIGNED	2	ATCSSCEL	ELEMENT ADDRESS
1126	(466)	CHARACTER	6	ATCPUNSA	PUNS NETWORK ADDRESS
1126	(466)	SIGNED	4	ATCPUNSU	PUNS SUBAREA
1130	(46A)	SIGNED	2	ATCPUNEL	PUNS ELEMENT
1132	(46C)	CHARACTER	1	*	NOT USED - AVAILABLE
1133	(46D)	UNSIGNED	1	ATCSWFLS	SAW FILTER SWITCH 0-NO FILTER AVAILABLE 1-USE FIRST POINTER-COUNTER 2-USE SECOND POINTER-COUNTER
1134	(46E)	BITSTRING	2	ATCCIDM	CID MASK
1136	(470)	CHARACTER	8	ATCVOCLK	LOCK WORD FOR VOC LOCK
1144	(478)	CHARACTER	8	ATCRDTLK	LOCK WORD FOR RDT LOCK
1152	(480)	CHARACTER	4	ATCECMOD	ECB FOR MODIFY COMMAND PROCESSOR
1156	(484)	CHARACTER	4	ATCECHLT	ECB FOR HALT COMMAND PROCESSOR
1160	(488)	CHARACTER	8	*	NOT USED - AVAILABLE
1168	(490)	CHARACTER	4	ATCECSES	ECB TO HALT SESSION MODE
1172	(494)	SIGNED	4	ATCSASUP	NUMBER OF SUBAREAS SUPPORTED
1176	(498)	UNSIGNED	4	ATCCITSZ	SIZE OF CID AND CONVT INDEX TABLE BLOCKS
1180	(49C)	ADDRESS	4	ATCCDCAQ	ANCHOR FOR QUEUE OF ACTCDRM REQUESTS AWAITING AVAILABILITY OF A GATEWAY NCP (SEE ISTCAQPL FOR DESCRIPTION OF EACH QUEUE ELEMENT)
1184	(4A0)	CHARACTER	8	ATCRID	PROCESS CORRELATOR ID
1192	(4A8)	BITSTRING	1	ATCMMSGP	MESSAGE SUPPRESSION INDICATOR
1193	(4A9)	UNSIGNED	1	ATCMAXID	MAXIMUM SUBAREA FOR ALL PRE-ENA NODES
1194	(4AA)	UNSIGNED	1	ATCXRANG	NUMBER OF BITS IN SUBAREA PORTION OF NETWORK ADDRESS
1195	(4AB)	CHARACTER	9	ATCMROUT	SAVE AREA FOR MESSAGE ROUTING INFORMATION
1204	(4B4)	CHARACTER	4	ATCHPGM	BUFFER INFORMATION FOR ISTINCPD
1204	(4B4)	SIGNED	2	ATCHBFNO	NUMBER OF BUFFERS FOR READ CHANNEL PROGRAM
1206	(4B6)	CHARACTER	2	*	NOT USED - AVAILABLE
1208	(4B8)	ADDRESS	4	ATCPOIA	POINTER TO PROGRAM OPERATOR INTERFACE AREA
1212	(4BC)	SIGNED	2	ATCNMCTR	COUNT USED FOR GENERATING UNIQUE NETWORK NAMES
1214	(4BE)	UNSIGNED	2	*	AVAILABLE
1216	(4C0)	CHARACTER	8	ATCNODEL	START VTAM COMMAND (NODELST=PARAMETER)
1224	(4C8)	CHARACTER	8	ATCONFIG	START VTAM COMMAND (CONFIG=PARAMETER)
1232	(4D0)	ADDRESS	4	ATCCFCDR	POINTER TO FRONT END DISPLAY PROCESSOR ISTCFCDR
1236	(4D4)	ADDRESS	4	ATCRACON	POINTER TO USER ZAPPABLE CONSTANT MODULE (SEE ZPCON)
1240	(4D8)	ADDRESS	4	ATCINCNO 1... .... ATCINCHI	POINTER TO USSTAB ISTINCNO 1= ISTINCNO HAS AN ID PREFIX. THIS BIT IS INTENDED FOR USE ONLY DURING INITIALIZATION (CLEARED AFTER USE)
1240	(4D8)	BITSTRING	3	*	ADDRESS OF ISTINCNO
1244	(4DC)	ADDRESS	4	ATCCSMT	POINTER TO CNM ROUTING TABLE ISTMGC00
1248	(4E0)	CHARACTER	4	ATCACDNT	INDEX TO ACDEB ADDRESS TABLES
1248	(4E0)	UNSIGNED	1	ATCDEBLE	INDEX INTO ISTDEBX1 FOR NEXT AVAILABLE SLOT
1249	(4E1)	CHARACTER	1	*	RESERVED
1250	(4E2)	CHARACTER	2	ATCDEBI	INDEX TO NEXT AVAILABLE SLOT
1250	(4E2)	UNSIGNED	1	ATCDEBI1	INDEX INTO ISTDEBX1 TABLE
1251	(4E3)	UNSIGNED	1	ATCDEBI2	INDEX INTO ISTDEBX2 TABLE
1252	(4E4)	ADDRESS	4	ATCSSCPT	POINTER TO ADJSSCP TABLE
1256	(4E8)	CHARACTER	8	ATCCPDVT	SSCP/PUS/LUS I/O PAB DVT
1256	(4E8)	ADDRESS	4	ATCTSCNI	POINTER TO NETWORK SERVICES INBOUND PROCESSOR - ISTTSCNI
1260	(4EC)	ADDRESS	4	ATCINCIP	POINTER TO SSCP/PUS/LUS INBOUND I/O PROCESSOR - ISTINCIP
1264	(4F0)	ADDRESS	4	ATCNOSQ	POINTER TO NETWORK SERVICES LQAB
1268	(4F4)	ADDRESS	4	ATCUSSVT	UTILITY VECTOR TABLE FOR COMMAND PARSING
1272	(4F8)	ADDRESS	4	ATCSQCDS	POINTER TO SUPPLEMENTAL CPCKST PROCESSOR ISTSQCDS
1276	(4FC)	ADDRESS	4	*	RESERVED
1280	(500)	ADDRESS	4	ATCPAREA	POINTER TO POOL ANCHOR BLOCKS
1284	(504)	ADDRESS	4	ATCRACNR	VIT NRM ROUTINE
1288	(508)	SIGNED	4	ATCSEQNO	COUNTER OF SESSION SERVICES REQUESTS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
1292	(50C)	ADDRESS	4	ATCUSVAR	POINTER TO USER VARIABLE TABLE
1296	(510)	CHARACTER	12	ATCSWCNT	SAW FILTER COUNTERS
1296	(510)	SIGNED	4	ATCSWMAX	MAXIMUM NUMBER OF SESSIONS FILTERED AT ONE TIME
1300	(514)	SIGNED	4	ATCSWTOT	TOTAL COUNT OF SESSIONS THAT HAVE BEEN FILTERED
1304	(518)	SIGNED	4	ATCSWCUR	NUMBER OF SESSIONS CURRENTLY BEING FILTERED
1308	(51C)	ADDRESS	4	*	RESERVED
1312	(520)	ADDRESS	4	*	RESERVED
1316	(524)	ADDRESS	4	*	RESERVED
1320	(528)	ADDRESS	4	*	RESERVED
1324	(52C)	ADDRESS	4	ATCCPCGD	POINTER TO TIME DRIVEN DYNAMIC CDRSC MODULE ISTCPCGD
1328	(530)	ADDRESS	4	ATCTIMCK	POINTER TO TIME QUEUE ELEMENT AND DYPAB
1332	(534)	CHARACTER	4	ATCTKFLD	TIME CHECK INFORMATION
1332	(534)	UNSIGNED	2	ATCTKCNT	COUNT OF TIMES CHECK SHOULD BE BEFORE FREEING RTE
1334	(536)	UNSIGNED	2	ATCTKINT	TIME INTERVAL BETWEEN EACH TIME CHECK IS SCHEDULED
1336	(538)	UNSIGNED	4	ATCPUSCT	COUNTER FOR PUSCB IDENTIFICATION
1340	(53C)	ADDRESS	4	ATCTSCP4	POINTER TO PU TYPE 4 PUS TO DLC INTERFACE ROUTINE ISTTSCP4
1344	(540)	ADDRESS	4	ATCTSCPQ	POINTER TO PATH QUIESCE ROUTINE ISTTSCPQ
1348	(544)	ADDRESS	4	ATCTSCRX	POINTER TO ROUTINE ISTTSCRX
1352	(548)	SIGNED	4	ATCIOINT	I/O PROBLEM DETERMINATION TIME INTERVAL (NUMBER OF SECONDS)
		1... ....		ATCIOPRG	IOPRG SPECIFIED ON START OR MODIFY
1356	(54C)	ADDRESS	4	ATCTSC3O	POINTER TO 3270 VIRTUAL LU DFC OUTBOUND - ISTTSC3O
1360	(550)	ADDRESS	4	ATCTSC3R	POINTER TO 3270 VIRTUAL LU TC OUTBOUND - ISTTSC3R
1364	(554)	ADDRESS	4	ATCTSC3S	POINTER TO 3270 VIRTUAL LU TC INBOUND - ISTTSC3S
1368	(558)	UNSIGNED	4	ATCCDTIM	NUMBER OF SECONDS SPECIFIED FOR THE CDRSCTI START PARAMETER
1372	(55C)	ADDRESS	4	ATCTSCL0	POINTER TO LOCAL 3270 PUS TO DLC INTERFACE ROUTINE ISTTSCLO
1376	(560)	ADDRESS	4	ATCTSCCN	POINTER TO CLEAN UP NCB ROUTINE - ISTTSC3O
1380	(564)	ADDRESS	4	ATCTSCDN	POINTER TO DELETE NCB ROUTINE - ISTTSCDN
1384	(568)	ADDRESS	4	ATCTIMER	POINTER TO TIMER SUBROUTINE
1388	(56C)	ADDRESS	4	ATCBINDQ	QUE OF HELD BIND REQUESTS
1392	(570)	ADDRESS	4	ATCERTP	POINTER TO ER TABLE QUEUE ANCHORS
1396	(574)	CHARACTER	8	ATCTOD	TOD CLOCK VALUE AT START VTAM
1396	(574)	UNSIGNED	4	ATCTOD1	1ST WORD OF TOD CLOCK
1400	(578)	UNSIGNED	4	ATCTOD2	2ND WORD OF TOD CLOCK
1404	(57C)	ADDRESS	4	ATCTOWA	ISTPUCTO WORK AREA ADDR
1408	(580)	ADDRESS	4	ATCPVRAQ	PENDING VR AVAILABILITY Q
1412	(584)	ADDRESS	4	ATCVRWAP	VR SELECTION SUBTASK WORK AREA POINTER
1416	(588)	SIGNED	4	ATCVRATB	ECB TO BE POSTED BY THE SYSTEM WHEN ISTPUCX0 TERMINATES
1420	(58C)	ADDRESS	4	ATCTSCMS	POINTER TO MEASUREMENT DATA PROCESSOR - ISTTSCMS
1424	(590)	ADDRESS	4	ATCNACRT	POINTER TO NETWORK ADDRESS MANAGEMENT ROUTER
1428	(594)	ADDRESS	4	ATCNACAI	POINTER TO NETWORK ADDRESS APPLICATION INITIALIZATION
1432	(598)	ADDRESS	4	ATCNACAT	POINTER TO NETWORK ADDRESS APPLICATION TERMINATION
1436	(59C)	ADDRESS	4	ATCNACNI	POINTER TO NETWORK ADDRESS MANAGEMENT INITIALIZATION
1440	(5A0)	ADDRESS	4	ATCRDT	POINTER TO RDT QUEUE ANCHOR BLOCK (QAB)
1444	(5A4)	UNSIGNED	2	*	RESERVED
1446	(5A6)	UNSIGNED	2	*	RESERVED
1448	(5A8)	CHARACTER	20	ATCVRTL	VIRTUAL ROUTE SELECTION SUBTASK TASK INTERFACE LIST
1448	(5A8)	ADDRESS	4	ATCVRWEQ	VR SELECTION SUBTASK WKE QUEUE
1452	(5AC)	ADDRESS	4	ATCVRWEL	PTR TO LAST ELEMENT ON Q
1456	(5B0)	CHARACTER	8	*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
1464	(5B8)	CHARACTER	4	ATCVRECB	VR SELECTION SUBTASK ECB
1468	(5BC)	ADDRESS	4	ATCCPCSV	POINTER TO SEARCH VIRTUAL ROUTE LIST MODULE
1472	(5C0)	ADDRESS	4	ATCEXCVR	POINTER TO VR SELECTION EXIT ISTEXCVR
1476	(5C4)	ADDRESS	4	ATCSDCOS	POINTER TO CLASS OF SERVICE MODULE ISTSDCOS
1480	(5C8)	ADDRESS	4	ATCAPCTX	POINTER OF ISTAPCTX
1484	(5CC)	ADDRESS	4	ATCAPCTQ	POINTER TO ISTAPCTQ
1488	(5D0)	ADDRESS	4	ATCAPCTS	POINTER TO ISTAPCTS
1492	(5D4)	ADDRESS	4	ATCAPCPS	POINTER TO ISTAPCPS
1496	(5D8)	ADDRESS	4	ATCAPCTW	POINTER TO ISTAPCTW
1500	(5DC)	ADDRESS	4	ATCAPCTP	POINTER TO ISTAPCTP
1504	(5E0)	ADDRESS	4	ATCAPCRS	POINTER TO ISTAPCRS
1508	(5E4)	ADDRESS	4	ATCAPCRP	POINTER TO ISTAPCRP
1512	(5E8)	ADDRESS	4	ATCAPCUE	POINTER TO ISTAPCUE
1516	(5EC)	ADDRESS	4	ATCAPCIE	POINTER TO ISTAPCIE
1520	(5F0)	ADDRESS	4	ATCAPCSD	POINTER TO ISTAPCSD
1524	(5F4)	ADDRESS	4	ATCAPCAD	POINTER TO ISTAPCAD
1528	(5F8)	ADDRESS	4	ATCAPCPD	POINTER TO ISTAPCPD
1532	(5FC)	ADDRESS	4	ATCAPCIN	POINTER TO ISTAPCIN
1536	(600)	ADDRESS	4	ATCAPCTE	POINTER TO ISTAPCTE
1540	(604)	ADDRESS	4	ATCAPCPC	POINTER TO ISTAPCPC
1544	(608)	ADDRESS	4	ATCAPCES	POINTER TO ISTAPCES
1548	(60C)	CHARACTER	6	ATCDMPCI	DUMMY PCI
1554	(612)	UNSIGNED	2	*	RESERVED
1556	(614)	ADDRESS	4	ATCOCAOA	POINTER TO ISTOCAOA
1560	(618)	CHARACTER	8	ATCPSTLK	PST LOCK USED BY PSS
1568	(620)	ADDRESS	4	ATCRACVB	POINTER TO ISTRACVB
1572	(624)	ADDRESS	4	ATCVRNDX	POINTER TO VR TABLE Q ANCHORS
1576	(628)	ADDRESS	4	ATCCDCRT	POINTER TO ERTE/VRTE BUILDER - ISTSDCRT
1580	(62C)	ADDRESS	4	ATCCDCRI	POINTER TO TEMPORARY PATH TABLE BUILDER FOR INIT/TERM - ISTSDCRI
1584	(630)	ADDRESS	4	ATCCDCVR	POINTER TO VRFIND PROCESSOR - ISTSDCVR
1588	(634)	ADDRESS	4	ATCTSCFA	POINTER TO ISTTSCFA
1592	(638)	SIGNED	4	ATCSACNT	SEQUENTIAL COUNT OF SESSION ACTIVATIONS
1596	(63C)	UNSIGNED	1	ATCDRNUM	DISPLAY ROUTE NUMBER
1597	(63D)	UNSIGNED	1	ATCYRANG	NUMBER OF ELEMENT BITS
1598	(63E)	BITSTRING	2	ATCIDIM	INVERTED CID MASK
1600	(640)	CHARACTER	8	ATCHSQLK	HSQ LOCK USED BY TSC
1608	(648)	ADDRESS	4	ATCAPCVR	POINTER TO ISTAPCVR (VM, OS ONLY)
1612	(64C)	ADDRESS	4	ATCTSCQF	POINTER TO ISTTSCQF
1616	(650)	ADDRESS	4	ATCTSCQM	POINTER TO ISTTSCQM
1620	(654)	ADDRESS	4	ATCTSCQU	POINTER TO ISTTSCQU
1624	(658)	ADDRESS	4	ATCTSCQV	POINTER TO ISTTSCQV
1628	(65C)	ADDRESS	4	ATCPUCWC	POINTER TO ISTPUCWC
1632	(660)	ADDRESS	4	ATCNBCQ	QUEUE OF ACTIVE ICNCBS
1636	(664)	ADDRESS	4	ATCGRPQ	POINTER TO THE GROUP NCB QUEUE
1640	(668)	CHARACTER	8	ATCLKSWP	CLOCK VALUE AND USE COUNT AREA - USED FOR CDS
1640	(668)	UNSIGNED	4	ATCCLOCK	BITS 16-47 OF THE TIME OF DAY CLOCK WHEN TIME INTERVAL EXPIRES
1644	(66C)	UNSIGNED	4	ATCLKCNT	CLOCK USE COUNT
1648	(670)	CHARACTER	36	ATCWUDYP	WAKE UP DYPAB
1648	(670)	CHARACTER	16	*	
1664	(680)	CHARACTER	20	ATCWUPAB	WAKE UP PAB
1684	(694)	CHARACTER	8	ATCSTCK	USED TO STORE CLOCK
1692	(69C)	UNSIGNED	4	ATCMWRDT	MAXIMUM WRITE DELAY TIME
1696	(6A0)	CHARACTER	36	ATCTRMPB	PAB FOR VTAM TERMINATION TASK
1732	(6C4)	CHARACTER	4	ATCIDMP	USED WHEN DISABLING VIT DURING SDUMP
1736	(6C8)	ADDRESS	4	ATCTSCWU	POINTER TO WAKE UP PAB PROCESSOR - ISTTSCWU
1740	(6CC)	ADDRESS	4	ATCAPCAT	POINTER TO ISTAPCAT (MVS ONLY)
1744	(6D0)	UNSIGNED	1	ATCSOPR1	MAXIMUM VALUE SPECIFIED FOR SONLIM START PARM: IT IS THE PERCENTAGE OF FIXED I/O BUFFERS THAT CAN BE USED FOR VR INOP SON RUS
1745	(6D1)	UNSIGNED	1	ATCSOPR2	THRESHHOLD VALUE SPECIFIED FOR SONLIM START PARM
1746	(6D2)	SIGNED	2	ATCSOTHR	VR_INOP PACING THRESHHOLD BUFFER COUNT
1748	(6D4)	SIGNED	4	ATCSOCNT	NUMBER OF FIXED I/O BUFFERS CURRENTLY IN USE FOR VR INOP NOTIFICATION RUS
1752	(6D8)	ADDRESS	4	ATCTSCRA	POINTER TO ABEND PROCESSOR - ISTTSCRA



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
1756	(6DC)	ADDRESS	4	ATCSDCFR	POINTER TO ISTSDCFR
1760	(6E0)	ADDRESS	4	ATCSMMWA	POINTER TO SMS MSG WORK AREA
1764	(6E4)	ADDRESS	4	ATCNOST	POINTER TO NOS ROUTING TABLE (ISTMGC01)
1768	(6E8)	UNSIGNED	2	*	RESERVED
1770	(6EA)	UNSIGNED	2	ATCASID	VTAM STORAGE ID
1772	(6EC)	ADDRESS	4	ATCCDCNE	POINTER TO FREE NETWORK ADDRESS PROCESSOR - ISTSDCNE
1776	(6F0)	ADDRESS	4	ATCTSCPD	POINTER TO ISTTSCPD
1780	(6F4)	ADDRESS	4	ATCTSCXS	POINTER TO ISTTSCXS
1784	(6F8)	ADDRESS	4	ATCTSCXB	POINTER TO ISTTSCXB
1788	(6FC)	CHARACTER	8	ATXCNCB	DVT FOR XCNCB.NCBPUPAB
1788	(6FC)	ADDRESS	4	ATCTSCXT	POINTER TO ISTTSCXT
1792	(700)	ADDRESS	4	ATCTSCX5	POINTER TO ISTTSCX5
1796	(704)	ADDRESS	4	ATCTSCLR	POINTER TO ISTTSCLR
1800	(708)	ADDRESS	4	ATCINCTR	POINTER TO TRACE PROCESSOR - ISTINCTR
1804	(70C)	ADDRESS	4	ATCINCB	POINTER TO THE INN CONTROL BLOCK
1808	(710)	CHARACTER	8	ATCINNLC	INN LOCK
1816	(718)	ADDRESS	4	ATCTSCUD	POINTER TO THE UTILITY DISCARD ISTTSCUD
1820	(71C)	ADDRESS	4	ATCTSCIM	POINTER TO THE INN BUFFER MANAGER ISTTSCIB
1824	(720)	ADDRESS	4	ATCPUCGN	POINTER TO THE GET NCB ADDRESS ROUTINE
1828	(724)	CHARACTER	4	ATCINDVT	THE INN PROCESSOR PAB DVT
1828	(724)	ADDRESS	4	ATCTSCIP	POINTER TO THE INN PROCESSOR ISTTSCIP
1832	(728)	CHARACTER	4	ATCIUDVT	THE INN UTILITY PROCESSOR PAB DVT
1832	(728)	ADDRESS	4	ATCTSCIU	POINTER TO THE INN UTILITY PROCESSOR ISTTSCIU
1836	(72C)	ADDRESS	4	ATCLMA	POINTER TO LOST MESSAGE ARRAY
1840	(730)	ADDRESS	4	ATCINCRS	POINTER TO READ ROUTINE ISTINCRS
1844	(734)	ADDRESS	4	ATCHNTSZ	SIZE OF HOST NODE TABLE BLOCK
1848	(738)	CHARACTER	56	ATCTMPMB	TPMSG PAB
1904	(770)	ADDRESS	4	ATCMIBQ	QUEUE OF MESSAGE ID BLOCKS
1908	(774)	ADDRESS	4	ATCAPCGT	POINTER TO ISTAPCGT
1912	(778)	SIGNED	4	ATCMLWID	MULTIPLE LINE WRITE ID
1916	(77C)	UNSIGNED	4	ATCABCNT	COUNT OF ABENDS FOR MLWTO
1920	(780)	ADDRESS	4	ATCMSGSQ	SIDE QUEUE FOR MESSAGES WHEN MESSAGE PROCESSING IS BEING QUIESED
1924	(784)	ADDRESS	4	ATCSSLQB	POINTER TO MISCELLANEOUS LQAB FOR SSCP SESSION SERVICES
1928	(788)	ADDRESS	4	ATCCPC00	POINTER TO SSCP SESSION SERVICES AND CDRM LOAD MODULE
1932	(78C)	CHARACTER	8	ATCNETID	NETWORK ID OF THIS HOST
1940	(794)	UNSIGNED	1	ATCSAWCR	SESSION AWARENESS PROCESSING CORRELATOR
1941	(795)	CHARACTER	1	ATCMMSGUP	TEST AND SET BYTE TO INDICATE THAT THE TPMSG PAB IS RUNNING
1942	(796)	CHARACTER	2	ATCSMXO	SM EXIT OPTIONS
		1.. ....		ATCSMXOI	INITIAL AUTHORIZATION ACCEPTED
		.1.. ....		ATCSMXOS	SECONDARY AUTHORIZATION ACCEPTED
		..1. ....		ATCSMXOA	ACCOUNTING FUNCTIONS ACCEPTED
		...1 ....		ATCSMXOG	GATEWAY SELECTION ACCEPTED
		.... 1..		ATCSMXOE	END FUNCTION
		.... .1..		ATCSMXOH	XRF SWITCH PROCESSING
		.... ..1.		ATCSMXOR	SSCP SELECTION FUNCTION ACCEPTED
		.... ...1		ATCSMXOD	1 = INVOKING ADJACENT SSCP SELECTION FUNCTION FOR DSRLST ALLOWED. 0 = INVOKING ADJACENT SSCP SELECTION FUNCTION FOR DSRLST NOT ALLOWED
		1.. ....		ATCSMXOT	1 = SESSION MANAGEMENT EXIT FUNCTIONS WILL BE INVOKED DURING TAKEOVER 0 = SESSION MANAGEMENT EXIT FUNCTIONS WILL NOT BE INVOKED DURING TAKEOVER
		.1.. ....		ATCSMXIA	RESERVED FOR FUTURE DEVELOPMENT _ NOT AVAILABLE
		..1. ....		ATCSMXAL	RESERVED FOR FUTURE DEVELOPMENT _ NOT AVAILABLE
		...1 1111		*	RESERVED FOR SM EXIT OPTIONS
1944	(798)	ADDRESS	4	ATCHCBQ	QUEUE OF AVAILABLE HALCB
1948	(79C)	ADDRESS	4	ATCSAWVT	POINTER TO SESSION AWARENESS VECTOR TABLE (ISTSAWVT)
1952	(7A0)	UNSIGNED	4	ATCSWECB	ECB FOR SESSION AWARENESS PROCESSING

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
1956	(7A4)	UNSIGNED	4	ATCMUCA	VALUE OF THE MAXIMUM COMMON SERVICE AREA EVER USED
1960	(7A8)	UNSIGNED	4	ATCDSLID	DOWNSTREAM LOAD CORRELATOR
1964	(7AC)	ADDRESS	4	ATCTSCST	POINTER FOR TSCST
1968	(7B0)	ADDRESS	4	ATCRACIN	POINTER FOR RACIN
1972	(7B4)	ADDRESS	4	ATCUDATA	USER DATA POINTER FOR THE SESSION MANAGEMENT EXIT
1976	(7B8)	ADDRESS	4	ATCEXCAA	POINTER TO THE SESSION MANAGEMENT EXIT, ISTECA
1980	(7BC)	ADDRESS	4	ATCCPCPW	POINTER TO CPWAIT PROCESSOR ITCPCPW
1984	(7C0)	ADDRESS	4	ATCXITWA	POINTER TO INSTALLATION EXIT ROUTINE WORK AREA
1988	(7C4)	UNSIGNED	4	ATCPCID	COUNTER FOR LAST FOUR BYTES OF INITIATION PCID
1992	(7C8)	UNSIGNED	4	ATCTPCID	COUNTER FOR LAST FOUR BYTES OF TERMINATION PCID
1996	(7CC)	CHARACTER	2	ATCTMINV	TIME INTERVAL BETWEEN RECORDS
1998	(7CE)	CHARACTER	2	*	NOT USED - AVAILABLE
2000	(7D0)	ADDRESS	4	ATCRACAP	VIT API ROUTINE
2004	(7D4)	ADDRESS	4	ATCRACCI	VIT CIO ROUTINE
2008	(7D8)	ADDRESS	4	ATCRACK	VIT LOCK ROUTINE
2012	(7DC)	ADDRESS	4	ATCRACOT	VIT PIU,MSG,SNAP ROUTINE
2016	(7E0)	ADDRESS	4	ATCRACPS	VIT PSS ROUTINE
2020	(7E4)	ADDRESS	4	ATCRACSC	VIT SSCP ROUTINE
2024	(7E8)	ADDRESS	4	ATCRACSM	VIT SMS ROUTINE
2028	(7EC)	ADDRESS	4	ATCRACRR	VIT RECORD ENTRY
2032	(7F0)	ADDRESS	4	ATCBUFRA	POINTER TO READ BUFFER
2036	(7F4)	SIGNED	4	ATCTRSES	MAXRU SIZE OF ISTDCLU TRACE SESSION
2040	(7F8)	ADDRESS	4	ATCTSCPL	POINTER TO ISTTSCPL
2044	(7FC)	ADDRESS	4	ATCTSCFC	POINTER TO ISTTSCFC
2048	(800)	CHARACTER	20	ATCALTL	ATCLINK SUBTASK INTERFACE LIST
2048	(800)	ADDRESS	4	ATCALWEQ	ACTLINK SUBTASK WKE QUEUE
2052	(804)	CHARACTER	4	ATCAECB	ACTLINK SUBTASK ECB - USED WHEN ABEND THRESHOLD EXCEEDED
2056	(808)	CHARACTER	8	*	RESERVED
2064	(810)	CHARACTER	4	ATCALECB	ACTLINK SUBTASK ECB
2068	(814)	ADDRESS	4	ATCRACFM	POINTER TO ISTRACFM
2072	(818)	ADDRESS	4	ATCRACKW	POINTER TO ISTRACKW
2076	(81C)	ADDRESS	4	ATCLUSWA	POINTER TO LUS STATIC VWA
2080	(820)	ADDRESS	4	ATCAMC00	POINTER TO ADDRESS MANAGEMENT LOAD MODULE
2084	(824)	ADDRESS	4	ATCSIBQT	POINTER TO THE LAST SIB ON THE SIB QUEUE (ANCHORED IN ATCSIBQ)
2088	(828)	ADDRESS	4	ATCGSORU	GENERIC SENDER POINTING TO A OUTBOUND RU
2092	(82C)	ADDRESS	4	*	RESERVED
2096	(830)	ADDRESS	4	*	RESERVED
2100	(834)	ADDRESS	4	*	RESERVED
2104	(838)	CHARACTER	8	*	RESERVED
2104	(838)	ADDRESS	4	*	RESERVED
2108	(83C)	ADDRESS	4	ATCTSCP2	POINTER TO ISTTSCP2

END  
OF  
COMMON  
PORTION

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VM UNIQUE SECTION

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2112	(840)	CHARACTER	*		FORCE DWORD ALIGNMENT
2112	(840)	CHARACTER	8	ATCMPSTL	VMSI LOCK - MPST QUEUE LOCK ALL REFERENCES TO THE MPST QUEUE MUST FIRST OBTAIN THIS LOCK
2120	(848)	CHARACTER	8	ATCOCLOK	LOCKWORD FOR OPEN CLOSE PROCESSING
2128	(850)	CHARACTER	8	ATCBALOK	LOCKWORD FOR STATIC AUTODATA AREA FOR REQSTORE AND RELSTORE
2136	(858)	ADDRESS	4	ATCBASTA	PTR TO REQSTORE/RELSTORE STATIC AUTODATA AREA
2140	(85C)	ADDRESS	4	ATCORFPX	PTR TO SMS BUFFER POOL EXPANSION PROCESSOR - ISTRFPX
2144	(860)	CHARACTER	8	ATCBACDS	REQ/RELSTORE DYNAMIC AUTODATA AREA QUEUE CONTROL

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2144	(860)	ADDRESS	4	ATCBADYA	POINTER TO QUEUE OF REQ/RELSTORE AUTODATA AREA POOL
2148	(864)	UNSIGNED	4	ATCBACNT	COUNT OF UPDATES TO REQ/RELSTORE AUTODATA AREA POOL
2152	(868)	ADDRESS	4	ATCAPCMT	ADDRESS OF ISTAPCMT
2156	(86C)	ADDRESS	4	ATCAPCVP	ADDRESS OF ISTAPCVP
2160	(870)	ADDRESS	4	ATCAP81	ADDRESS OF ISTAPC81
2164	(874)	ADDRESS	4	ATCHLTCB	ECB FOR HALTING VTAM
2168	(878)	ADDRESS	4	ATCCDTCB	VM/SI TASK INDEX VALUE
2172	(87C)	ADDRESS	4	ATCMPSTQ	POINTER TO QUEUE OF MPST BLOCKS
2176	(880)	ADDRESS	4	ATCATTCH	POINTER TO ATTACHED SUBTASK CONTROL BLOCK QUEUE
2180	(884)	UNSIGNED	4	ATCCACSA	CURRENT ALLOCATION OF CSA FOR VTAM
2184	(888)	UNSIGNED	4	ATCHWCSA	CSA ALLOCATION HIGH WATER MARK
2188	(88C)	UNSIGNED	4	ATCMXCSA	MAXIMUM SIZE CSA ALLOWED FOR VTAM X'7FFFFFFF' = NO LIMIT
2192	(890)	UNSIGNED	4	ATCCAC24	CURRENT ALLOCATION OF CSA FOR VTAM BELOW 16 MEG LINE
2196	(894)	UNSIGNED	4	ATCHWC24	CSA ALLOCATION HIGH WATER MARK BELOW 16 MEG LINE
2200	(898)	UNSIGNED	4	ATCMXC24	MAXIMUM SIZE CSA ALLOWED FOR VTAM BELOW 16 MEG LINE
2204	(89C)	ADDRESS	4	ATCVLRAT	POINTER TO VIRTUAL PAGE ADDRESS TO REAL PAGE ADDRESS TRANSLATION TABLE
2208	(8A0)	CHARACTER	72	ATCSQASV	SAVE AREA FOR USE BY ISTOREMG, SERIALIZED VIA GATED QUEUE (ATCSQAFR)
2280	(8E8)	CHARACTER	8	ATCPRIV	PRIVATE STORAGE QUEUE
2280	(8E8)	ADDRESS	4	ATCPRIVF	PERSISTENT SUBPOOL ALLOCATED STORAGE FORWARD CHAIN
2284	(8EC)	ADDRESS	4	ATCPRIVB	PERSISTENT SUBPOOL ALLOCATED STORAGE BACKWARD CHAIN
2288	(8F0)	CHARACTER	8	ATCSQAFR	DOUBLE WORD FOR COMPARE DOUBLE AND AND SWAP (CDS)
2288	(8F0)	ADDRESS	4	ATCORTBF	ANCHOR FOR TO-BE-FREED STORAGE QUEUE
2292	(8F4)	ADDRESS	4	ATCORTCB	POINTER TO TCB OF TASK OWNING STORAGE QUEUE (NOT USED IN VM VTAM)
2292	(8F4)	ADDRESS	4	ATCORSRB	POINTER TO SMS SRB (NOT USED IN VM VTAM)
		1... ..		ATCORQG	ISTORMMG GATE INDICATES VTFREED AREAS ARE TO BE FREED TO OPERATING SYSTEM
2296	(8F8)	CHARACTER	8	ATCCRPL	AVAILABLE CRPLS
2296	(8F8)	ADDRESS	4	ATCCRPLQ	QUEUE OF AVAILABLE CRPLS
2300	(8FC)	SIGNED	4	ATCRPLCN	COUNTS
2300	(8FC)	UNSIGNED	2	ATCRPLRC	ENQUE COUNT TO ALLOW MULTIPLE SIMULTANIOUS ENQUEUES AND DEQUEUES
2302	(8FE)	UNSIGNED	2	ATCRPLAC	COUNT OF CRPLS ON AVAILABLE QUEUE
2304	(900)	CHARACTER	4	ATCITECB	ECB USED WHEN DISABLING VIT
2308	(904)	ADDRESS	4	ATCGSRBQ	READY QUEUE FOR GLOBAL SRB BLOCKS (NOT USED IN VM VTAM)
2308	(904)	BITSTRING	1	ATCGSRBG	READY QUEUE GATE BYTE
		1... ..		ATCGSRBF	READY QUEUE GATE BIT
2312	(908)	ADDRESS	4	ATCITVEC	INTERNAL TRACE VECTOR TABLE
2316	(90C)	ADDRESS	4	ATCCTCB	POINTER TO TCB (DUMMY PCI APPENDAGE) (NOT USED IN VM VTAM)
2320	(910)	ADDRESS	4	ATCNOPO2	TRACE NOP USED DURING TRACE INITIALIZATION
2320	(910)	ADDRESS	4	ATCSMFRR	POINTER TO SMS FRR (DUMMY SIOA)
2324	(914)	ADDRESS	4	ATCROBT	ANCHOR FOR OBTAINED STORAGE QUEUE
2328	(918)	ADDRESS	4	ATCAIWT	POINTER TO BYTE AFTER WAIT IN ISTAICIR
2332	(91C)	ADDRESS	4	ATCTRMWA	POINTER TO 256 BYTE TERMINATION WORK AREA
2336	(920)	ADDRESS	4	ATCNCRPH	POINTER TO NCSPL RPH
2340	(924)	ADDRESS	4	ATCMDDDL	ADDRESS OF ISTINMDD SVC WORK AREA
2344	(928)	CHARACTER	8	ATCUSRID	USER ID OF VTAM OPERATOR
2352	(930)	ADDRESS	4	ATCAPCAB	ADDRESS OF ISTAPCAB
2356	(934)	ADDRESS	4	ATCTSCCZ	ADDRESS OF ISTTSCCZ
2360	(938)	ADDRESS	4	ATCTSCLZ	ADDRESS OF ISTTSCCLZ
2364	(93C)	ADDRESS	4	ATCTSCXZ	ADDRESS OF ISTTSCXZ
2368	(940)	ADDRESS	4	ATCTSCZZ	ADDRESS OF ISTTSCZZ
2372	(944)	ADDRESS	4	ATCTSCHZ	ADDRESS OF ISTTSCCHZ

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2376	(948)	ADDRESS	4	ATCTSCJZ	ADDRESS OF ISTTSCJZ
2380	(94C)	ADDRESS	4	ATCTSCOF	ADDRESS OF ISTTSCOF
2384	(950)	ADDRESS	4	ATCTSCOH	ADDRESS OF ISTTSCOH
2388	(954)	ADDRESS	4	ATCTSCOI	ADDRESS OF ISTTSCOI
2392	(958)	ADDRESS	4	ATCTSCOJ	ADDRESS OF ISTTSCOJ
2396	(95C)	ADDRESS	4	ATCTSC3I	PTR TO 3270 VIRTUAL LU DFC INBOUND - ISTTSC3I
2400	(960)	ADDRESS	4	ATCMGCSA	ADDRESS OF ISTMGCSA
2404	(964)	ADDRESS	4	ATCTSCPC	ADDRESS OF ISTTSCPC
2408	(968)	ADDRESS	4	ATCORFMG	ADDRESS OF ISTORFMG
2412	(96C)	ADDRESS	4	ATCATA10	ADDRESS OF ISTATM10
2416	(970)	ADDRESS	4	ATCCACXA	ADDRESS OF ISTCFCXA
2420	(974)	ADDRESS	4	ATCSMARA	ADDRESS OF ISTORFRA
2424	(978)	CHARACTER	4	*	NOT USED - AVAILABLE
2428	(97C)	ADDRESS	4	ATCSMAPR	ADDRESS OF ISTORFPR
2432	(980)	ADDRESS	4	ATCSMABF	ADDRESS OF ISTORFBF
2436	(984)	ADDRESS	4	ATCENTRY	ADDRESS OF ISENTRY
2440	(988)	ADDRESS	4	ATCAPCVC	ADDRESS OF ISTAPCVC
2444	(98C)	ADDRESS	4	ATCCACBA	PTR TO CLOSE ACB PROCESSOR - ISTOCCBA
2448	(990)	SIGNED	2	ATCACTRM	COUNT OF ACTIVE TERM
2450	(992)	UNSIGNED	2	ATCRPLCT	COUNT OF PREALLOCATED CRPL AREAS
2452	(994)	ADDRESS	4	ATCSV53T	SVC 53 FUNCTION TABLE ADDRESS
2456	(998)	ADDRESS	4	ATCTRPAB	ADDRESS OF TRACE WRITER PAB
2460	(99C)	CHARACTER	4	ATCTMECB	ECB FOR TRACE ATTACH REQUEST
2464	(9A0)	CHARACTER	4	ATCLRA	OBJECT OF VLRA MACRO CONTAINING: LRA 15,0(15) 370-MODE LFI 14,0(15) E-MODE NATIVE NOP 0 E-MODE ON VM INSTRUCTION
2468	(9A4)	ADDRESS	4	ATCITSAV	ADDRESS OF INTERNAL TRACE AREAS
2472	(9A8)	CHARACTER	8	ATCCRA	
2472	(9A8)	ADDRESS	4	ATCCRAQ	
2476	(9AC)	SIGNED	4	ATCCRACN	
2476	(9AC)	UNSIGNED	2	ATCCRARC	
2478	(9AE)	UNSIGNED	2	ATCCRAAC	
2480	(9B0)	UNSIGNED	2	ATCCRACT	
2482	(9B2)	BITSTRING	1	ATCENFLG	ENHANCEMENT FLAGS
		1... ....		ATCDLDN	1=DEVICE DEALLOCATION DONE
		.1.. ....		ATCSRDN	1=STORAGE FREEING DONE
		..1. ....		ATCABEN	1=VTAM IS ABNORMALLY TERMINATING
		...1 ....		ATCOPKL	1=OPERATING IS REMOVING FROM THE THE SYSTEM
		.... 1...		ATCSNUF	1=RECURSIVE VTAM ABEND DURING RESOURCE MANAGER OPERATION
		.... .1..		ATCVTACT	1 = VTAM TASK TERMINATION ACTIVE
		.... ..11		*	NOT USED AVAILABLE
2483	(9B3)	CHARACTER	1	*	RESERVED, AVAILABLE
2484	(9B4)	ADDRESS	4	ATCPSTA	FOR QUEUE OF ACTIVE PSTS
2488	(9B8)	ADDRESS	4	ATCTSCDD	ADDRESS OF ISTTSCDC
2492	(9BC)	ADDRESS	4	ATCTSCLC	ADDRESS OF ISTTSCLC
2496	(9C0)	ADDRESS	4	ATCOCCSM	ADDR OF ISTOCCSM
2500	(9C4)	ADDRESS	4	ATCCDTID	TASK ID OF VTAM (DUMMY EOE)
2504	(9C8)	CHARACTER	8	ATCITDOS	EXTERNAL VIT CONTROL
2504	(9C8)	CHARACTER	4	*	
2504	(9C8)	UNSIGNED	1	ATCITNDX	CURRENT TRB INDEX SLOT
2505	(9C9)	ADDRESS	3	ATCITBUF	CURRENT TRB ADDRESS
2508	(9CC)	BITSTRING	4	ATCITMSK	TRB AVAILABILITY FLAGS
2512	(9D0)	ADDRESS	4	ATCRUPE	POINTER TO PREALLOCATED RUPE
2516	(9D4)	ADDRESS	4	ATCTSCXE	ADDRESS OF TSCXE
2520	(9D8)	ADDRESS	4	ATCSOQNH	SESSION OUTAGE NOTIFICATION QUEUE HEADER
2524	(9DC)	ADDRESS	4	ATCTSCED	POINTER TO ENABLE/DISABLE ROUTINE
2528	(9E0)	ADDRESS	4	ATCTSCHB	POINTER TO SDLC ICA CHANNEL PROGRAM BUILD ROUTINE
2532	(9E4)	ADDRESS	4	ATCTSCHE	POINTER TO SDLC ICA CHANNEL END APPENDAGE
2536	(9E8)	ADDRESS	4	ATCTSCHO	POINTER TO SDLC ICA CONECTION MANAGER OUT- BOUND ROUTINE
2540	(9EC)	ADDRESS	4	ATCTSCHR	POINTER TO SDLC ICA LINK ROUTER
2544	(9F0)	ADDRESS	4	ATCTSCHS	POINTER TO SDLC ICA LINK SCHEDULER
2548	(9F4)	ADDRESS	4	ATCTSCHT	POINTER TO SDLC ICA I/O TERMINATOR
2552	(9F8)	ADDRESS	4	ATCTSCJB	POINTER TO BSC 3270 CHANNEL PROGRAM BUILD ROUTINE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2556	(9FC)	ADDRESS	4	ATCTSCJE	POINTER TO BSC 3270 CHANNEL END APPENDAGE
2560	(A00)	ADDRESS	4	ATCTSCJO	POINTER TO BSC 3270 CONNECTION MANAGER ROUTINE
2564	(A04)	ADDRESS	4	ATCTSCJR	POINTER TO BSC 3270 LINK ROUTER
2568	(A08)	ADDRESS	4	ATCTSCJS	POINTER TO BSC 3270 LINK SCHEDULER
2572	(A0C)	ADDRESS	4	ATCTSCJT	POINTER TO BSC 3270 CONNECTION TERMINATOR ROUTINE
2576	(A10)	ADDRESS	4	ATCTSCVI	POINTER TO SDLC ICA STATION SCHEDULER INBOUND ROUTINE
2580	(A14)	ADDRESS	4	ATCTSCVO	POINTER TO SDLC ICA STATION SCHEDULER OUT-BOUND ROUTINE
2584	(A18)	ADDRESS	4	ATCTSCZI	POINTER TO BSC 3270 STATION SCHEDULER INBOUND ROUTINE
2588	(A1C)	ADDRESS	4	ATCTSCZO	POINTER TO BSC 3270 STATION SCHEDULER OUT-BOUND ROUTINE
2592	(A20)	SIGNED	4	ATCSYSID	SYSTEM MLW ID
2596	(A24)	ADDRESS	4	ATCTSCJL	POINTER TO BSC POLLING LIST MANAGER
2600	(A28)	CHARACTER	36	ATCOCDYP	OBR TO RECMS CONVERSION DYPAB
2600	(A28)	CHARACTER	16	*	
2616	(A38)	CHARACTER	20	ATCOCPAB	OBR TO RECMS CONVERSION PAB
2636	(A4C)	ADDRESS	4	ATCTSCOC	POINTER TO OBR TO RECMS CONVERSION ROUTINE
2640	(A50)	CHARACTER	36	ATCNMDYP	OBR TO NMVT CONVERSION DYPAB
2640	(A50)	CHARACTER	16	*	
2656	(A60)	CHARACTER	20	ATCNMPAB	OBR TO NMVT CONVERSION PAB
2676	(A74)	ADDRESS	4	ATCTSC5H	X.25 NMVT BUILDER
2680	(A78)	ADDRESS	4	ATCTSCA5	X.25 DLC INITIALIZATION AND ALLOCATION
2684	(A7C)	ADDRESS	4	ATCTSCD5	X.25 DLC DEALLOCATION AND TERMINATION
2688	(A80)	ADDRESS	4	ATCTSC59	X.25 TIMER MODULE
2692	(A84)	ADDRESS	4	ATCTSC5A	X.25 UTILITY FUNCTION PROCESSOR
2696	(A88)	ADDRESS	4	ATCTSC5B	X.25 PACKETS OUT
2700	(A8C)	ADDRESS	4	ATCTSC5J	X.25 PACKET LEVEL VIRTUAL CALL MANAGER
2704	(A90)	ADDRESS	4	ATCTSC5I	X.25 NORMAL PATH INBOUND
2708	(A94)	ADDRESS	4	ATCTSC5O	X.25 CONNECTION MANAGER OUTBOUND ROUTER
2712	(A98)	ADDRESS	4	ATCTSC5W	X.25 PACKET LEVEL MANAGER
2716	(A9C)	ADDRESS	4	ATCTSC5Q	X.25 INBOUND PORT
2720	(AA0)	ADDRESS	4	ATCTSC5R	X.25 RECORDER
2724	(AA4)	ADDRESS	4	ATCTSC5V	X.25 NORMAL PATH OUTBOUND
2728	(AA8)	ADDRESS	4	ATCTSC5X	X.25 PACKET LEVEL OUTBOUND
2732	(AAC)	ADDRESS	4	ATCTSC5Y	X.25 PACKET LEVEL INBOUND
2736	(AB0)	CHARACTER	4	*	NOT USED - AVAILABLE
2740	(AB4)	ADDRESS	4	ATCTSC1E	POINTER TO PORT MANAGER CONNECTION DISCONNECTION INITIATOR - ISTTSC1E
2744	(AB8)	ADDRESS	4	ATCTSC1P	POINTER TO PUNS TO CONNECTION MANAGER INTERFACE ROUTINE - ISTTSC1P
2748	(ABC)	ADDRESS	4	ATCTSC1R	POINTER OT PORT MANAGER LINKING ROUTINE - ISTTSC1R
2752	(AC0)	ADDRESS	4	ATCTSC1Z	POINTER TO SHORT HOLD MODE LINK SCHEDULER - ISTTSC1Z

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BEGINNING OF FIELDS THAT ARE COMMON TO MVS BUT HAVE UNIQUE OFFSETS

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2756	(AC4)	ADDRESS	4	ATCRACPI	ADDR OF ISTRACPI
2760	(AC8)	ADDRESS	4	ATCRACPD	ADDR OF ISTRACPD
2764	(ACC)	ADDRESS	4	ATCRACPP	ADDR OF ISTRACPP
2768	(AD0)	ADDRESS	4	ATCMAC00	POINTER TO ISTMAC00
2772	(AD4)	ADDRESS	4	ATCPDVTA	ADDR OF PDVT
2776	(AD8)	CHARACTER	4	ATCPDECB	ECB FOR VTAM LU
2780	(ADC)	CHARACTER	1	ATCPDFLG	PD TRACE FLAGS
		1... ..		ATCPDGLU	GLOBAL LU TRACE FLAG
		.1.. ..		ATCPDGCD	GLOBAL CDRM TRACE FLAG
		..1. ....		ATCPDGPU	GLOBAL PU TRACE FLAG
		...1 ....		ATCPDSSA	SEND SESSION AWARENESS
		.... 1..		ATCPUPDT	HOST PU PD TRACE FLAG
		.... .1..		ATCSESBK	LU SESSION END FLAG
		.... ..11		*	NOT USED - AVAILABLE
2781	(ADD)	CHARACTER	3	*	NOT USED - AVAILABLE
2784	(AE0)	ADDRESS	4	ATCRACPT	POINTER TO ISTRACPT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2788	(AE4)	ADDRESS	4	ATC931PL	PTR TO PARMLIST FOR 931I
2792	(AE8)	CHARACTER	36	ATCPDDYP	
2792	(AE8)	CHARACTER	16	*	RESERVED
2808	(AF8)	CHARACTER	20	ATCPDPAB	PD TRACE PAB
2828	(B0C)	ADDRESS	4	ATCRACPF	POINTER TO ISTRACPF
2832	(B10)	ADDRESS	4	ATCCFCML	POINTER TO ISTCFCML
2836	(B14)	ADDRESS	4	ATCCFCFE	POINTER TO ISTCFCFE - FRONT END MESSAGE ROUTINE
2840	(B18)	CHARACTER	36	ATCFEMPB	TPMSG FRONT END PAB
2876	(B3C)	BITSTRING	1	*	FLAGS
		1... ....		ATCVTMAB	1=CD LINKS ARE TO REMAIN ACTIVE
		.1.. ....		ATCNOSTR	1 = NO STORAGE FOR MESSAGES - ISTCFCWM SHOULD ISSUE MESSAGE 999E
2877	(B3D)	BITSTRING	1	*	RESERVED
		1... ....		*	RESERVED
		.1.. ....		*	RESERVED
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1..		*	RESERVED
		.... .111		*	AVAILABLE
2878	(B3E)	CHARACTER	1	*	NOT USED - AVAILABLE
2879	(B3F)	CHARACTER	18	ATCNQNF	NETWORK QUALIFIED NAME FIELD
2879	(B3F)	UNSIGNED	1	ATCNQNL	LENGTH OF NAME PAIR IN ATCNQNAM
2880	(B40)	CHARACTER	17	ATCNQNAM	NETWORK QUALIFIED CONTROL POINT NAME- A CON-CATENATION OF NETID, A PERIOD, AND SSCPNAME WITH NO IMBEDDED BLANKS, LEFT JUSTIFIED PADDED WITH BLANKS
2897	(B51)	CHARACTER	8	ATPCPID	LAST ASSIGNED PCID
2905	(B59)	CHARACTER	3	*	RESERVED
2908	(B5C)	ADDRESS	4	ATCNRCPF	POINTER TO PLSCB FIND MODULE - NRCPF
2912	(B60)	ADDRESS	4	ATCSMBQ	POINTER TO QUEUED REQUESTS SMS PROCESSOR - ISTORFBQ
2916	(B64)	UNSIGNED	4	ATCMUC24	CSA24 HIGH WATER MARK SINCE VTAM WAS STARTED
2920	(B68)	ADDRESS	4	ATCBFAIL	PTR TO BUF EXP FAILQ

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 A P P C FIELDS  
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2924	(B6C)	ADDRESS	4	ATCPSCR2	PS LOAD MODULE
2928	(B70)	ADDRESS	4	ATCRMCRT	LRM LOAD MODULE
2932	(B74)	ADDRESS	4	ATCNSCRO	LNS LOAD MODULE
2936	(B78)	ADDRESS	4	ATCHSCLM	HS LOAD MODULE
2940	(B7C)	ADDRESS	4	ATCCOCSC	COPR LOAD MODULE
2944	(B80)	ADDRESS	4	ATCRACAC	VIT APPC PROCEDURE
2948	(B84)	ADDRESS	4	ATCTSCPH	PURGE HOT I/O PROCESSOR
2952	(B88)	ADDRESS	4	ATCNRLR	LMTBL MACRO ROUTER
2956	(B8C)	ADDRESS	4	ATCAICAR	APPCCMD ROUTER
2960	(B90)	ADDRESS	4	ATCCONVT	CONVID INDEX TABLE
2964	(B94)	ADDRESS	4	*	RESERVED
2968	(B98)	CHARACTER	8	*	RESERVED FOR APPC

END OF APPC FIELDS

2976	(BA0)	ADDRESS	4	*	RESERVED
2980	(BA4)	ADDRESS	4	*	RESERVED
2984	(BA8)	CHARACTER	8	*	RESERVED
2992	(BB0)	CHARACTER	8	ATCBUFLK	LOCK FOR ENABLED BUFFER ACCESS
3000	(BB8)	ADDRESS	4	ATCSMBUF	POINTER TO ISTSSCSM AREA FOR OUTPUT REQUEST OF RESPONSE
3004	(BBC)	CHARACTER	4	ATC842I	
		1... ....		ATCI842	1=IST842I MUST BE ISSUED
3004	(BBC)	BITSTRING	1	*	RESERVED - USED BY CS LOGIC
3006	(BBE)	CHARACTER	2	ATC842PL	POOL ID FOR MESSAGE IST842I
3008	(BC0)	ADDRESS	4	ATC842PT	POINTER TO POWE USED TO ISSUE MESSAGE IST842I
3012	(BC4)	ADDRESS	4	ATCVSCS	VSCS ADDRESS OF DTISAB
3016	(BC8)	ADDRESS	4	ATCIOSBQ	POINTER TO THE CHAIN OF IOSIB
3020	(BCC)	ADDRESS	4	ATCDSSBQ	POINTER TO THE CHAIN OF DSSIB
3024	(BD0)	ADDRESS	4	ATCPRIDQ	POINTER TO THE PRID QUEUE ANCHOR BLOCK

Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
3028	(BD4)	ADDRESS	4	ATCRAC6T	LAN VIT PROCESSOR
3032	(BD8)	ADDRESS	4	ATCTSC61	FIXED LAN MODULE VECTOR LIST
3036	(BDC)	ADDRESS	4	ATCTSC62	PAGEABLE LAN MODULE VECTOR LIST
3040	(BE0)	ADDRESS	4	ATCVLNQ	QUEUE OF ACTIVE VLNCB'S
3044	(BE4)	ADDRESS	4	ATCPAX25	POINTER TO X25 PATCH AREA
3048	(BE8)	ADDRESS	4	ATCTSC51	POINTER TO TSC51
3052	(BEC)	ADDRESS	4	ATCTSC52	POINTER TO TSC52
3056	(BF0)	CHARACTER	8	ATCSWFL1	FIRST POINTER-COUNTER PAIR
3056	(BF0)	SIGNED	4	ATCSWCT1	FIRST ACCESS COUNTER
3060	(BF4)	ADDRESS	4	ATCSWPT1	FIRST FILTER POINTER
3064	(BF8)	CHARACTER	8	ATCSWFL2	SECOND POINTER-COUNTER PAIR
3064	(BF8)	SIGNED	4	ATCSWCT2	SECOND ACCESS COUNTER
3068	(BFC)	ADDRESS	4	ATCSWPT2	SECOND FILTER POINTER
3072	(C00)	ADDRESS	4	*	RESERVED

END FIELDS THAT ARE COMMON TO MVS BUT HAVE UNIQUE OFFSETS

V C N S FIELDS

3076	(C04)	ADDRESS	4	*	RESERVED
3080	(C08)	ADDRESS	4	*	RESERVED
3084	(C0C)	ADDRESS	4	*	RESERVED
3088	(C10)	ADDRESS	4	*	RESERVED
3092	(C14)	CHARACTER	4	*	Not used - Available
3096	(C18)	CHARACTER	36	*	RESERVED

END OF VCNS FIELDS

3132	(C3C)	ADDRESS	4	*	RESERVED
3136	(C40)	ADDRESS	4	*	RESERVED
3140	(C44)	ADDRESS	4	*	RESERVED
3144	(C48)	ADDRESS	4	*	RESERVED

Constants

Len	Type	Value	Name	Description
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VM CONSTANTS SECTION				
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8	CHARACTER	VV33	ATCLVLVT	CONSTANT USED TO INITIALIZE ATCVTLVL
4	DECIMAL	4096	ATCMXPAG	HIGHEST VIRTUAL PAGE INDEX IN THE VIRTUAL PAGE ADDRESS TO REAL PAGE ADDRESS TRANSLATION TABLE
4	DECIMAL	512	ATCBASIZ	SIZE OF REQ/RELSTORE AUTODATA AREAS
4	DECIMAL	231	ATCBASPL	SUBPOOL FROM WHICH THE AUTODATA AREAS ARE TO BE OBTAINED
1	HEX	04	ATCABEND	TO INITIALIZE ATCABEN
1	HEX	02	ATCOPKLI	TO INITIALIZE ATCOPKL
1	HEX	01	ATCSNUFI	TO INITIALIZE ATCSNUF
4	DECIMAL	4	ATCMAXRV	VALID RETURN CODE FROM VALCHEK MACRO WHEN VALIDATING READ ONLY
4	HEX	0000000F	ATCITDM1	TO TURN ON BIT DISABLING VIT
4	HEX	00FFFFFF	ATCCSA24	MAXIMUM AMOUNT OF CSA24 AVAILABLE
4	HEX	7FFFFFFF	ATCCSAMX	MAXIMUM AMOUNT OF CSA AVAILABLE
1	HEX	60	ATCVTKEY	VTAM PROTECTION KEY

CONSTANTS FOR ATCSRCH - ADJACENT SSCP TABLE SEARCH

0	BIT	0	ATCPRTY	SSCP TABLE SEARCH USING PRIORITY SEARCH
0	BIT	1	ATCDEFIN	SSCP TABLE SEARCH USING ORDER DEFINED
0	BIT	0	ATCDYYES	DYNAMIC ENTRIES WILL BE ADDED WHEN DETERMINED
0	BIT	1	ATCDYNO	DYNAMIC ENTRIES WILL NOT BE ADDED

Len	Type	Value	Name	Description
----- CONSTANT FOR SUBAREA ADDRESSES -----				
4	DECIMAL	255	ATCENAMX	MAXIMUM SUBAREA ADDRESS FOR PRE-ESA NODES
4	DECIMAL	65535	ATCESAMX	MAXIMUM SUBAREA ADDRESS FOR ESA NODES

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ATCAEBCB	804		3	ATCAP33	294		2
ATCABCNT	77C		2	ATCAP35	2BC		2
ATCABEN	9B2	20	3	ATCAP36	298		2
ATCACCTA	2A4		2	ATCAP39	29C		2
ATCACCO0	284		2	ATCAP81	870		2
ATCACCO1	288		2	ATCASID	6EA		2
ATCACDA	3F8		2	ATCATA10	96C		2
ATCACDAT	408		2	ATCATTCH	880		2
ATCACDNT	4E0		2	ATCAUTHA	2A8		2
ATCACTIV	454	40	4	ATCBABYV	455	08	4
ATCACTRM	990		2	ATCBACDS	860		2
ATCADD	338		2	ATCBACNT	864		3
ATCADEKS	3D1	04	4	ATCBADYA	860		3
ATCADEL	2D4		2	ATCBALOK	850		2
ATCADJ	1D8		2	ATCBASTA	858		2
ATCADJCT	1DC		3	ATCBFAIL	B68		2
ATCADJLK	1C8		2	ATCBINDQ	56C		2
ATCADJSA	1D8		3	ATCBITAN	458		2
ATCAICAR	B8C		2	ATCBLDLA	2DC		2
ATCAICPT	290		2	ATCBLOAD	45A	08	4
ATCAIWT	918		2	ATCBPDA	3FC		2
ATCALACT	455	04	4	ATCBUFLK	BB0		2
ATCALECB	810		3	ATCBUFRA	7F0		2
ATCALIAS	457	04	4	ATCCACBA	98C		2
ATCALOAD	2D8		2	ATCCACSA	884		2
ATCALTIL	800		2	ATCCACXA	970		2
ATCALWEQ	800		3	ATCCAC24	890		2
ATCAMCO0	820		2	ATCCDCAQ	49C		2
ATCAMSVL	3A0		2	ATCCDCNE	6EC		2
ATCANYDT	3B0		2	ATCCDCRI	62C		2
ATCAPCAB	930		2	ATCCDCRT	628		2
ATCAPCAD	5F4		2	ATCCDCVR	630		2
ATCAPCAT	6CC		2	ATCCDLRA	459	80	4
ATCAPCES	608		2	ATCCDTCB	878		2
ATCAPCGT	774		2	ATCCDTID	9C4		2
ATCAPCIE	5EC		2	ATCCDTIM	558		2
ATCAPCIN	5FC		2	ATCCFCDM	23C		2
ATCAPCKU	254		2	ATCCFCDR	4D0		2
ATCAPCMT	868		2	ATCCFCFE	B14		2
ATCAPCPC	604		2	ATCCFCML	B10		2
ATCAPCPD	5F8		2	ATCCFCR2	3C8		3
ATCAPCPS	5D4		2	ATCCIDM	46E		2
ATCAPCRP	5E4		2	ATCCIT	1E0		2
ATCAPCRS	5E0		2	ATCCITSZ	498		2
ATCAPCSD	5F0		2	ATCCLOCK	668		3
ATCAPCTE	600		2	ATCCOCSC	B7C		2
ATCAPCTP	5DC		2	ATCCONFT	424		2
ATCAPCTQ	5CC		2	ATCCONVT	B90		2
ATCAPCTS	5D0		2	ATCCPCFR	2B8		2
ATCAPCTW	5D8		2	ATCCPCGD	52C		2
ATCAPCTX	5C8		2	ATCCPCGR	2B4		2
ATCAPCUE	5E8		2	ATCCPCNT	2AC		2
ATCAPCVC	988		2	ATCCPCPP	2B0		2
ATCAPCVP	86C		2	ATCCPCPW	7BC		2
ATCAPCVR	648		2	ATCCPCSV	5BC		2
ATCAPI	28C		2	ATCCPC00	788		2



Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ATCCPC01	26C		2	ATCHSCLM	B78		2
ATCCPDVT	4E8		2	ATCHSQLK	640		2
ATCCRA	9A8		2	ATCHWCSA	888		2
ATCCRAAC	9AE		4	ATCHWC24	894		2
ATCCRACN	9AC		3	ATCICIDM	63E		2
ATCCRACT	9B0		2	ATCILOAD	45A	80	4
ATCCRAQ	9A8		3	ATCINCCI	2E4		2
ATCCRARC	9AC		4	ATCINCCO	2E0		2
ATCCRPL	8F8		2	ATCINCF1	2E8		2
ATCCRPLQ	8F8		3	ATCINCHI	4D8	80	3
ATCCRYPF	459	08	4	ATCINCIP	4EC		3
ATCCSMT	4DC		2	ATCINCLQ	2F0		2
ATCCSPAB	78		3	ATCINCNO	4D8		2
ATCCTTCB	90C		2	ATCINCPH	2F4		2
ATCDEBI	4E2		3	ATCINCRD	2F8		2
ATCDEBI1	4E2		4	ATCINCRS	730		2
ATCDEBI2	4E3		4	ATCINCS1	300		2
ATCDEBLE	4E0		3	ATCINCTQ	304		2
ATCDEC00	2C4		2	ATCINCTR	708		2
ATCDEC01	2C8		2	ATCINCUI6	308		2
ATCDLDN	9B2	80	3	ATCINCW3	30C		2
ATCDLOAD	AC		2	ATCINCY5	310		2
ATCDLRPT	400		2	ATCINDVT	724		2
ATCDLSPL	A8		2	ATCINNCB	70C		2
ATCDMPCI	60C		2	ATCINNLIK	710		2
ATCDRNUM	63C		2	ATCIOINT	548		2
ATCDSLID	7A8		2	ATCIOLQB	3B4		3
ATCDSSBQ	BCC		2	ATCIOPRG	548	80	3
ATCDVL0D	350		2	ATCIOSBQ	BC8		2
ATCDWA	3CC		2	ATCIPCID	7C4		2
ATCDYENT	458	10	4	ATCITACT	17	01	6
ATCECHLT	484		2	ATCITAPC	17	40	6
ATCECMOD	480		2	ATCITAPI	16	80	6
ATCECSES	490		2	ATCITBUF	9C9		4
ATCENFLG	9B2		2	ATCITCDS	10		3
ATCENTRY	984		2	ATCITCIO	16	01	6
ATCERTP	570		2	ATCITCNT	14		5
ATCESA	3D0	80	4	ATCIDMP	6C4		2
ATCESACP	3D0		3	ATCIDDOS	9C8		2
ATCESC01	2CC		2	ATCITECB	900		2
ATCEXCAA	7B8		2	ATCITESC	17	20	6
ATCEXCVR	5C0		2	ATCITEXT	455	80	4
ATCFDVT	428		2	ATCITFLD	8		2
ATCFEMPB	B18		2	ATCITFLG	14		4
ATCFEPT	42C		2	ATCITLCK	16	40	6
ATCFLAG1	458		3	ATCITMAX	8		4
ATCFLAG2	459		3	ATCITMSG	16	04	6
ATCGRPQ	664		2	ATCITMSK	9CC		3
ATCGSORU	828		2	ATCITNDX	9C8		4
ATCGSRBF	904	80	4	ATCITNRM	17	80	6
ATCGSRBG	904		3	ATCITPAB	18		2
ATCGSRBQ	904		2	ATCITPIU	16	08	6
ATCGWSCP	3D1	01	4	ATCITPRM	8		3
ATCHALTQ	414		2	ATCITPSS	16	20	6
ATCHBFNO	4B4		3	ATCITRA1	16		5
ATCHCBQ	798		2	ATCITRPH	10		4
ATCHCNID	45E		3	ATCITRT	3EC		2
ATCHDMP	455	20	4	ATCITSAV	9A4		2
ATCHIP	454	01	4	ATCITSCP	16	02	6
ATCHLOAD	45A	10	4	ATCITSMS	16	10	6
ATCHLTCB	874		2	ATCITTLB	C		3
ATCHNT	3F4		2	ATCITVEC	908		2
ATCHNTLK	1D0		2	ATCIUDVT	728		2
ATCHNTSZ	734		2	ATCI842	BBC	80	3
ATCHOSTA	460		3	ATCLDECB	250		3
ATCHOSTE	464		3	ATCLDLCK	248		3
ATCHPGM	4B4		2	ATCLDLST	244		3

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ATCLDNCS	240		3	ATCNRCLR	B88		2
ATCLDTIL	240		2	ATCNRCPF	B5C		2
ATCLKCNT	66C		3	ATCNRCSA	31C		2
ATCLKSWP	668		2	ATCNRCSA	318		2
ATCLOAD	45A	40	4	ATCNRCTU	B0		2
ATCLMA	72C		2	ATCNCSRO	B74		2
ATCLODTS	45A		3	ATCNPSAB	1F0		2
ATCLRA	9A0		2	ATCOCAOA	614		2
ATCLUCRT	314		2	ATCOCCSM	9C0		2
ATCLUDVT	3A8		2	ATCOCDYP	A28		2
ATCLUIOQ	3B8		3	ATCOCLOK	848		2
ATCLUSMQ	3BC		3	ATCOCPAB	A38		3
ATCLUSRT	190		2	ATCONFIG	4C8		2
ATCLUSWA	81C		2	ATCONID	45C		2
ATCMAC00	AD0		2	ATCOPKL	9B2	10	3
ATCMAXID	4A9		2	ATCORCAF	328		2
ATCMCQAB	3C0		3	ATCORFMG	968		2
ATCMDDDL	924		2	ATCORFPX	85C		2
ATCMDHLT	454	02	4	ATCOROBT	914		2
ATCMGCSA	960		2	ATCORQG	8F4	80	5
ATCMIBQ	770		2	ATCORSRB	8F4		4
ATCMLWID	778		2	ATCORTBF	8F0		3
ATCMODTB	3DC		2	ATCORTCB	8F4		3
ATCMPSTL	840		2	ATCPAREA	500		2
ATCMPSTQ	87C		2	ATCPAX25	BE4		2
ATCMQIP	456	20	4	ATPCPID	B51		2
ATCMROUT	4AB		2	ATCPDDYP	AE8		2
ATCMMSGHI	1EC	80	3	ATCPDECB	AD8		2
ATCMMSGID	3D1	02	4	ATCPDFLG	ADC		2
ATCMMSGM	1EC		2	ATCPDGCD	ADC	40	3
ATCMMSGP	2A0		2	ATCPDGLU	ADC	80	3
ATCMMSGSP	4A8		2	ATCPDGPU	ADC	20	3
ATCMMSGSQ	780		2	ATCPDPAB	AF8		3
ATCMMSGUP	795		2	ATCPDSSA	ADC	10	3
ATCMUCSA	7A4		2	ATCPDVTA	AD4		2
ATCMUC24	B64		2	ATCPDVT	3C8		2
ATCMWRDT	69C		2	ATCPOFLG	456		3
ATCMXCCW	3E0		2	ATCPOIA	4B8		2
ATCMXCSA	88C		2	ATCPOUNS	456	80	4
ATCMXC24	898		2	ATCPPOLG	455	10	4
ATCNACAI	594		2	ATCPRIDQ	BD0		2
ATCNACAT	598		2	ATCPRIV	8E8		2
ATCNACNI	59C		2	ATCPRIVB	8EC		3
ATCNACRT	590		2	ATCPRIVF	8E8		3
ATCNCBQ	660		2	ATCPSCR2	B6C		2
ATCNCRPH	920		2	ATCPSSUP	456	40	4
ATCNCSA	457	40	4	ATCPSTA	9B4		2
ATCNETID	78C		2	ATCPSTLK	618		2
ATCNETSL	454	08	4	ATCPTCHA	1E4		2
ATCNMCTR	4BC		2	ATCPUBUF	457	10	4
ATCNMDYP	A50		2	ATCPUCGN	720		2
ATCNMPAB	A60		3	ATCPUCRT	334		2
ATCNMVTL	3D2	20	4	ATCPUCWC	65C		2
ATCNOCRT	2EC		2	ATCPUIOP	158		2
ATCNODDS	3F0		2	ATCPUIOT	457	08	4
ATCNODEL	4C0		2	ATCPULQB	3C4		3
ATCNOGW	457	01	4	ATCPUNEL	46A		3
ATCNOP00	450		2	ATCPUNSA	466		2
ATCNOP02	910		2	ATCPUNSU	466		3
ATCNOSPB	218		2	ATCPUPAB	120		2
ATCNOSQ	4F0		2	ATCPUPDT	ADC	08	3
ATCNOST	6E4		2	ATCPUSCT	538		2
ATCNOSTR	B3C	40	3	ATCPVRAQ	580		2
ATCNQNAM	B40		3	ATCPXPAB	F8		2
ATCNQNF	B3F		2	ATCQKHLT	454	10	4
ATCNQNL	B3F		3	ATCRACAC	B80		2
ATCNRCE	F0		2	ATCRACAP	7D0		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ATCRACCI	7D4		2	ATCSMXIA	797	40	3
ATCRACEL	64		2	ATCSMXO	798		2
ATCRACEP	2D0		2	ATCSMXOA	798	20	3
ATCRACFM	814		2	ATCSMXOD	798	01	3
ATCRACIN	7B0		2	ATCSMXOE	798	08	3
ATCRACIO	33C		2	ATCSMXOG	798	10	3
ATCRACKW	818		2	ATCSMXOH	798	04	3
ATCRACLK	7D8		2	ATCSMXOI	798	80	3
ATCRACNR	504		2	ATCSMXOR	798	02	3
ATCRACON	4D4		2	ATCSMXOS	798	40	3
ATCRACOT	7DC		2	ATCSMXOT	797	80	3
ATCRACPD	AC8		2	ATCSNHLT	454	20	4
ATCRACPF	B0C		2	ATCSNUF	9B2	08	3
ATCRACPI	AC4		2	ATCSOCNT	6D4		2
ATCRACPP	ACC		2	ATCSODVT	43C		2
ATCRACPS	7E0		2	ATCSOQNH	9D8		2
ATCRACPT	AE0		2	ATCSOPAB	270		2
ATCRACRR	7EC		2	ATCSOPAC	442		2
ATCRACSC	7E4		2	ATCSOPR1	6D0		2
ATCRACSM	7E8		2	ATCSOPR2	6D1		2
ATCRACST	344		2	ATCSOTHR	6D2		2
ATCRACSTR	348		2	ATCSOTIM	440		2
ATCRACVB	620		2	ATCSQAFR	8F0		2
ATCRAC6T	BD4		2	ATCSQASV	8A0		2
ATCRCEGP	A0		2	ATCSQCDS	4F8		2
ATCRCETB	A4		2	ATCSRCH	458	20	4
ATCRDT	5A0		2	ATCSRDN	9B2	40	3
ATCRDTLK	478		2	ATCSRT	40C		2
ATCREMOV	340		2	ATCSRTAB	2FC		2
ATCRID	4A0		2	ATCSSEL	464		4
ATCRLVAT	11C		2	ATCSSCPA	460		2
ATCRMCRRT	B70		2	ATCSSCPT	4E4		2
ATCRPLAC	8FE		4	ATCSSDVT	438		2
ATCRPLCN	8FC		3	ATCSSIQH	444		2
ATCRPLCT	992		2	ATCSSLQB	784		2
ATCRPLRC	8FC		4	ATCSSOQH	448		2
ATCRPTCH	0		2	ATCSSPAB	258		2
ATCRTTAB	2C0		2	ATCSTART	454	80	4
ATCRUPE	9D0		2	ATCSTAT	454		2
ATCSACNT	638		2	ATCSTAT1	454		3
ATCSAF	460		4	ATCSTAT4	457		3
ATCSALMT	3D0	08	4	ATCSTCK	694		2
ATCSASUP	494		2	ATCSTMA	320		2
ATCSAWCR	794		2	ATCSTNSM	45B		3
ATCSAWVT	79C		2	ATCSV53T	994		2
ATCSCNID	45C		3	ATCSWCNT	510		2
ATCSDCC2	34C		2	ATCSWCT1	BF0		3
ATCSDCFR	6DC		2	ATCSWCT2	BF8		3
ATCSDCOS	5C4		2	ATCSWCUR	518		3
ATCSDUMP	324		2	ATCSWECB	7A0		2
ATCSDVT	404		2	ATCSWFLS	46D		2
ATCSEQNO	508		2	ATCSWFL1	BF0		2
ATCSESBK	ADC	04	3	ATCSWFL2	BF8		2
ATCSIBQ	420		2	ATCSWMAX	510		3
ATCSIBQT	824		2	ATCSWPT1	BF4		3
ATCSIDEQ	458	80	4	ATCSWPT2	BFC		3
ATCSMABF	980		2	ATCSWTOT	514		3
ATCSMAPR	97C		2	ATCSYSID	A20		2
ATCSMARA	974		2	ATCTIMCK	530		2
ATCSMBQ	B60		2	ATCTIMER	568		2
ATCSMBUF	BB8		2	ATCTKCNT	534		3
ATCSMFRR	910		3	ATCTKFLD	534		2
ATCSMMWA	6E0		2	ATCTKINT	536		3
ATCSMPAB	68		2	ATCTMECB	99C		2
ATCSMRQ	32C		2	ATCTMINV	7CC		2
ATCSMRS	330		2	ATCTMRHT	455	40	4
ATCSMXAL	797	20	3	ATCTMRPB	40		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ATCTOD	574		2	ATCTSCPD	6F0		2
ATCTOD1	574		3	ATCTSCPH	B84		2
ATCTOD2	578		3	ATCTSCPL	7F8		2
ATCTOWA	57C		2	ATCTSCPQ	540		2
ATCTPCID	7C8		2	ATCTSCPR	360		2
ATCTPMPB	738		2	ATCTSCP2	83C		3
ATCTRACQ	3C		2	ATCTSCP4	53C		2
ATCTRCPT	3E4		2	ATCTSCQF	64C		2
ATCTRMFB	6A0		2	ATCTSCQM	650		2
ATCTRMWA	91C		2	ATCTSCQU	654		2
ATCTRPAB	998		2	ATCTSCQV	658		2
ATCTRSES	7F4		2	ATCTSCRA	6D8		2
ATCTSBUF	44C		2	ATCTSCRI	430		2
ATCTSCAP	3B0		3	ATCTSCRO	434		2
ATCTSCA5	A78		2	ATCTSCRX	544		2
ATCTSCCB	374		2	ATCTSCSC	438		3
ATCTSCCE	378		2	ATCTSCSG	3E8		2
ATCTSCCN	560		2	ATCTSCSR	3A8		3
ATCTSCCO	3AC		3	ATCTSCST	7AC		2
ATCTSCCZ	934		2	ATCTSCUD	718		2
ATCTSCDD	9B8		2	ATCTSCUF	380		2
ATCTSCDN	564		2	ATCTSCVI	A10		2
ATCTSCD5	A7C		2	ATCTSCVO	A14		2
ATCTSCED	9DC		2	ATCTSCWS	370		2
ATCTSCEM	36C		2	ATCTSCWU	6C8		2
ATCTSCER	364		2	ATCTSCXB	6F8		2
ATCTSCFA	634		2	ATCTSCXE	9D4		2
ATCTSCFC	7FC		2	ATCTSCXS	6F4		2
ATCTSCFV	37C		2	ATCTSCXT	6FC		3
ATCTSCGR	35C		2	ATCTSCXZ	93C		2
ATCTSCHB	9E0		2	ATCTSCX5	700		3
ATCTSCHE	9E4		2	ATCTSCZI	A18		2
ATCTSCHO	9E8		2	ATCTSCZO	A1C		2
ATCTSCHR	9EC		2	ATCTSCZZ	940		2
ATCTSCHS	9F0		2	ATCTSC1E	AB4		2
ATCTSCHT	9F4		2	ATCTSC1P	AB8		2
ATCTSCHZ	944		2	ATCTSC1R	ABC		2
ATCTSCIM	71C		2	ATCTSC1Z	AC0		2
ATCTSCIO	358		2	ATCTSC3I	95C		2
ATCTSCIP	724		3	ATCTSC3O	54C		2
ATCTSCIU	728		3	ATCTSC3R	550		2
ATCTSCJB	9F8		2	ATCTSC3S	554		2
ATCTSCJE	9FC		2	ATCTSC5A	A84		2
ATCTSCJL	A24		2	ATCTSC5B	A88		2
ATCTSCJO	A00		2	ATCTSC5H	A74		2
ATCTSCJR	A04		2	ATCTSC5I	A90		2
ATCTSCJS	A08		2	ATCTSC5J	A8C		2
ATCTSCJT	A0C		2	ATCTSC5O	A94		2
ATCTSCJZ	948		2	ATCTSC5Q	A9C		2
ATCTSCLB	388		2	ATCTSC5R	AA0		2
ATCTSCLC	9BC		2	ATCTSC5V	AA4		2
ATCTSCLE	38C		2	ATCTSC5W	A98		2
ATCTSCLR	704		2	ATCTSC5X	AA8		2
ATCTSCLS	384		2	ATCTSC5Y	AAC		2
ATCTSCLZ	938		2	ATCTSC51	BE8		2
ATCTSCL0	55C		2	ATCTSC52	BEC		2
ATCTSCMS	58C		2	ATCTSC59	A80		2
ATCTSCNI	4E8		3	ATCTSC61	BD8		2
ATCTSCNP	214		2	ATCTSC62	BDC		2
ATCTSCNS	368		2	ATCTSVT	354		2
ATCTSCOC	A4C		2	ATCTUBUF	3D4		2
ATCTSCOF	94C		2	ATCTUNAC	459	40	4
ATCTSCOH	950		2	ATCTUNCL	459	10	4
ATCTSCOI	954		2	ATCTUNRQ	459	20	4
ATCTSCOJ	958		2	ATCUDATA	7B4		2
ATCTSCON	43C		3	ATCUSRID	928		2
ATCTSCPC	964		2	ATCUSSPT	3D8		2

**ATCVT**

"Restricted Materials of IBM"  
Licensed Materials – Property of IBM

Name	Hex Offset	Hex Value	Level
ATCUSSVT	4F4		2
ATCUSVAR	50C		2
ATCVDPAB	B8		2
ATCVLNQ	BE0		2
ATCVLRAT	89C		2
ATCVM	454	04	4
ATCVMRIO	459	01	4
ATCVCLK	470		2
ATCVRATB	588		2
ATCVRECB	5B8		3
ATCVRNDX	624		2
ATCVRTIL	5A8		2
ATCVRWAP	584		2
ATCVRWEL	5AC		3
ATCVRWEQ	5A8		3
ATCVSCS	BC4		2
ATCVTACT	9B2	04	3
ATCVTLOD	3A4		2
ATCVTLVL	0		3
ATCVTMAB	B3C	80	3
ATCWUDYP	670		2
ATCWUPAB	680		3
ATXCNCB	6FC		2
ATCXITWA	7C0		2
ATCXLOAD	45A	20	4
ATCXRANG	4AA		2
ATCYRANG	63D		2
ATC1LOAD	45A	04	4
ATC842I	BBC		2
ATC842PL	BBE		3
ATC842PT	BC0		2
ATC931PL	AE4		2
ATC9370	457	20	4
ISTATCVT	0		1

## Automatic Logon Entry Name (AUTOE)

<b>Function:</b>	AUTOE maps an automatic logon entry, which represents a request for an automatic logon to an application program that is not available.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	36	ISTAUTOE	
0	(0)	CHARACTER	1	AUTID	CONTROL BLOCK ID
1	(1)	CHARACTER	1	*	NOT USED - AVAILABLE
2	(2)	UNSIGNED	2	AUTLNTH	LENGTH OF DATA IN THIS ENTRY
4	(4)	ADDRESS	4	AUTNEXT	POINTER TO NEXT ENTRY ON LIST
8	(8)	CHARACTER	16	AUTNAME	QUALIFIED SSCP NAME USED TO DISTINGUISH ENTRIES
8	(8)	CHARACTER	8	AUTNETID	NETWORK ID
16	(10)	CHARACTER	8	AUTSSCPN	SSCP NAME
24	(18)	CHARACTER	8	AUTPALIS	PLU ALIAS NAME
32	(20)	UNSIGNED	4	AUTSENSE	SENSE DATA SENT WITH NOTIFY.
36	(24)	CHARACTER	*	AUTDATA	DATA FOR NOTIFY

### Constants

Len	Type	Value	Name	Description
1	HEX	EB	AUTIDC	CONTROL BLOCK ID

### Cross Reference

Name	Hex Offset	Hex Value	Level
AUTDATA	24		2
AUTID	0		2
AUTLNTH	2		2
AUTNAME	8		2
AUTNETID	8		3
AUTNEXT	4		2
AUTPALIS	18		2
AUTSENSE	20		2
AUTSSCPN	10		3
ISTAUTOE	0		1

## Address Vector Table (AVT)

<b>Function:</b>	The AVT maps the VTAM address vector table. It is used in debugging to locate the virtual machine ID and ATCVT address.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	52 (X'34')
<b>Pointed to by:</b>	CVTATCVT (CVTEXT2) in the GCS common extension to the CVT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	52	ISTAVT	
0	(0)	ADDRESS	4	ISTACVT	POINTER TO ATCVT
4	(4)	ADDRESS	4	ISTAS49	POINTER OF SVC 49 CODE
8	(8)	ADDRESS	4	ISTAS53	POINTER OF SVC 53 CODE
12	(C)	ADDRESS	4	ISTAPSTA	POINTER OF APS TABLE
16	(10)	SIGNED	2	AVTASID	VTAM ASID
18	(12)	SIGNED	2	ISTVTTIK	VTAMRP TASK ID
20	(14)	ADDRESS	4	ISTAPSEX	POINTER OF APS EXIT
24	(18)	CHARACTER	5	ISTPHNM	PHASE NAME OF TRANSIENT
29	(1D)	CHARACTER	1	ISTX1	TEST FIELD
30	(1E)	ADDRESS	2	ISTARID	POINTER OF RID
32	(20)	ADDRESS	2	ISTATRT	POINTER OF VTAM GATES IN RETAB
34	(22)	ADDRESS	2	ISTAGTWT	POINTER OF GATEWAIT ROUTINE
36	(24)	ADDRESS	2	ISTVTP	POINTER OF CODE TO CHECK FOR PENDING TIMER INTERRUPT
38	(26)	ADDRESS	4	ISTPDAVP	VECTOR FOR PDAIDS SMS TRACE
42	(2A)	CHARACTER	2	*	PAD AVAILABLE
44	(2C)	ADDRESS	4	*	RESERVED
48	(30)	ADDRESS	4	*	UNUSED AVAILABLE

### Cross Reference

Name	Hex Offset	Hex Value	Level
AVTASID	10		2
ISTACVT	0		2
ISTAGTWT	22		2
ISTAPSEX	14		2
ISTAPSTA	C		2
ISTARID	1E		2
ISTAS49	4		2
ISTAS53	8		2
ISTATRT	20		2
ISTAVT	0		1
ISTPDAVP	26		2
ISTPHNM	18		2
ISTVTTIK	12		2
ISTVTP	24		2
ISTX1	1D		2

## FIDO Basic Data Unit (BDU)

<b>Function:</b>	BDU provides a mapping for the FIDO basic data unit.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	7

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	ISTBDU	BASIC DATA UNIT
0	(0)	BITSTRING	1	BDUPAD	NOT USED - NOT AVAILABLE
1	(1)	BITSTRING	1	BDUCOMND	COMMAND
2	(2)	BITSTRING	1	BDUMODIF	MODIFIER
3	(3)	BITSTRING	1	BDUFUNC	FUNCTION FLAGS
		1... ....		BDUCHECK	CHECKPOINT SELECTION
		.1.. ....		BDUHEADP	HEADER PREFIX USED
		..1. ....		BDULDGPH	LEADING GRAPHICS
		...1 ....		BDUFBMI	FIRST BLOCK OF MESSAGE
		.... 1...		BDUTRPM	TRANSPARENT MODE
		.... .1..		BDUACK	POSITIVE ACKNOWLEDGEMENT
		.... .1.		BDUNACK	NEGITIVE ACKNOWLEDGEMENT
		.... ...1		BDUALT	ALTERNATE ACKNOWLEDGEMENT
4	(4)	BITSTRING	1	BDUFLAGS	FUNCTION FLAGS
		1111 1...		BDURSV03	RESERVED - NOT AVAILABLE
		.... .1..		BDUSTPR	SUPPRESS POSITIVE RESPONSE
		.... .1.		BDURTOE	RETURN TEXT ON ERROR
		.... ...1		BDURSV04	RESERVED - NOT AVAILABLE
5	(5)	BITSTRING	1	BDUSYSTR	SYSTEM RESPONSE FLAGS
		1... ....		BDUSERR	ERROR RESPONSE INDICATOR
		.1. ....		BDUPHASE	RESPONSE PHASE CODE
		...1 1111		BDUSCODE	RESPONSE CODE
6	(6)	BITSTRING	1	BDUEXTR	EXTENDED RESPONSE FLAGS
		111. ....		BDUXFSTS	EXTENDED STATUS TYPE
		...1 111.		BDUXFINS	EXTENDED STATUS CODE
		.... ...1		BDUXLCI	LEADING GRAPHICS INCLUDED

### Constants

Len	Type	Value	Name	Description
VALUES FOR BDUCOMND (COMMAND CODES)				
1	HEX	00	BCMDN	NULL
1	HEX	01	BCMDR	READ
1	HEX	02	BCMDW	WRITE
1	HEX	03	BCMDT	ONLINE TEST
1	HEX	04	BCMDY	RESTART
1	HEX	05	BCMDI	INVITE
1	HEX	06	BCMDC	CONTACT
1	HEX	07	BCMDD	DISCONNECT
1	HEX	08	BCMDZ	CONTROL
1	HEX	10	BCMDX	REMOTE CONTROL COMMAND
1	HEX	77	BCMDU	UNSOLITED RESPONSE
VALUES FOR BDUMODIF WHEN BDUCOMND IS BCMDR (READ MODIFIERS)				
1	HEX	01	BMODRB	READ BLOCK
1	HEX	02	BMODRM	READ MESSAGE
1	HEX	03	BMODRT	READ TRANSMISSION
1	HEX	04	BMODRD	READ WITH DISCONNECT
VALUES FOR BDUMODIF WHEN BDUCOMND IS BCMDW (WRITE MODIFIERS)				
1	HEX	00	BMODW	WRITE BLOCK
1	HEX	01	BMODWM	WRITE MESSAGE
1	HEX	02	BMODWT	WRITE TRANSMISSION



Len	Type	Value	Name	Description
1	HEX	03	BMODWD	WRITE WITH DISCONNECT
1	HEX	06	BMODWR	WRITE WITH READ
1	HEX	08	BMODWC	WRITE WITH CONTACT
1	HEX	09	BMODWCM	WRITE MESSAGE WITH CONTACT
1	HEX	0A	BMODWCT	WRITE TRANSMISSION WITH CONTACT
1	HEX	0B	BMODWCD	WRITE WITH CONTACT AND DISCONNECT
1	HEX	0E	BMODWCR	WRITE WITH CONTACT AND READ
VALUES FOR BDUIMODIF WHEN BDUIMOMND IS BCMDY (RESTART MODIFIERS)				
1	HEX	00	BMODCRLI	INCIDENT LINE MODIFIER
1	HEX	01	BMODCRDI	INCIDENT DEVICE MODIFIER
1	HEX	02	BMODCRLS	SESSION LINE MODIFIER
1	HEX	22	BMODCRDS	SESSION DEVICE MODIFIER
VALUES FOR BDUIMODIF WHEN BDUIMOMND IS BCMDI (INVITE MODIFIERS)				
1	HEX	01	BMODIB	INVITE BLOCK
1	HEX	02	BMODIM	INVITE MESSAGE
1	HEX	03	BMODIT	INVITE TRANSMISSION
1	HEX	04	BMODID	INVITE AND DISCONNECT
1	HEX	05	BMODIA	INVITE WITH AUTO RESTART
1	HEX	06	BMODIP	INVITE PERPETUAL
VALUES FOR BDUIMODIF WHEN BDUIMOMND IS BCMDC (CONTACT MODIFIERS)				
1	HEX	00	BMODC	NORMAL
1	HEX	00	BMODD	DISCONNECT
1	HEX	02	BMODDE	DISCONNECT WITH END OF CALL
VALUES FOR BDUIMODIF WHEN BDUIMOMND IS BCMDT (TEST MODIFIERS)				
1	HEX	00	BMODT	TEST COMMAND
1	HEX	01	BMODTC	TEST AND CONTACT
1	HEX	02	BMODTD	TEST AND DISCONNECT
1	HEX	03	BMODTCD	TEST, CONTACT, AND DISCONNECT
VALUES FOR BDUIMODIF WHEN BDUIMOMND IS BCMDC (CONTROL MODIFIERS)				
1	HEX	01	BMODZLSM	DISPLAY LINE STATUS
1	HEX	02	BMODZRSM	REPLACE SESSION INITIATION INFORMATION
1	HEX	03	BMODZAIM	ACTIVATE INVITES
1	HEX	04	BMODZDIM	DEACTIVATE INVITES
1	HEX	05	BMODZCSM	COPY SESSION INITIATION INFORMATION
1	HEX	06	BMODZDSM	DISPLAY DEVICE STATUS
1	HEX	07	BMODZRQM	REQUEST DEVICE STATISTICS
1	HEX	08	BMODZCOM	DISPLAY STORAGE
1	HEX	09	BMODZTDM	SET TIME AND DATE
1	HEX	0A	BMODZSSM	SET CHANNEL MODE SECONDARY
1	HEX	0C	BMODZLTM	ACTIVATE LINE TRACE
1	HEX	0D	BMODZSTM	TERMINATE LINE TRACE
1	HEX	10	BMODZAGM	ACTIVATE GROUP
1	HEX	11	BMODZDGM	DEACTIVATE GROUP ORDERLY
1	HEX	15	BMODZSPM	SET CHANNEL MODE PRIMARY
1	HEX	18	BMODZCMM	COPY DESTINATION MODE
1	HEX	1C	BMODZPDM	PHYSICAL DISCONNECT END OF CALL
1	HEX	21	BMODZCDM	COPY DEVICE SESSION INFORMATION
1	HEX	22	BMODZRDM	REPLACE DEVICE SESSION INFORMATION
1	HEX	23	BMODZSSA	SET SESSION ADDRESS
1	HEX	41	BMODZEM	RESET ERROR LOCK
1	HEX	42	BMODZQM	RESET DEVICE QUEUES
1	HEX	43	BMODZXO	RESET ORDERLY
1	HEX	44	BMODZIM	RESET IMMEDIATE
1	HEX	48	BMODZOM	RESET ONLINE TEST
1	HEX	4A	BMODZBSM	SWITCH TO BACKUP
1	HEX	4C	BMODZPSM	SWITCH BACK TO PRIMARY
1	HEX	50	BMODZCM	RESET CONDITION
1	HEX	60	BMODZECM	RESET AT END OF COMMAND
1	HEX	85	BMODZNMK	CHANGE LINE NEGATIVE POLL RESPONSE LIMIT
1	HEX	86	BMODZSLM	CHANGE SESSION LIMIT
1	HEX	87	BMODZRYM	CHANGE RETRY COUNTS
1	HEX	88	BMODZADM	ACTIVATE DEVICE
1	HEX	89	BMODZDDM	DEACTIVATE DEVICE

Len	Type	Value	Name	Description
1	HEX	8A	BMODZPUM	LINE CHANGE SERVICE SEEKING PAUSE
1	HEX	8C	BMODZXLM	CHANGE DEVICE TRANSMISSION LIMIT
1	HEX	8D	BMODZBHM	MODIFY BLOCK HANDLER SET ASSOCIATION
1	HEX	98	BMODZALM	ACTIVATE LINE
1	HEX	99	BMODZDLM	DEACTIVATE LINE ORDERLY
1	HEX	9A	BMODZSMM	SET DESTINATION MODE
1	HEX	C2	BMODZDAM	DEACTIVATE LINE HALT
1	HEX	E3	BMODZOSA	OVERRIDE SESSION ADDRESS

### Cross Reference

Name	Hex Offset	Hex Value	Level
BDUACK	3	04	3
BDUALT	3	01	3
BDUCHECK	3	80	3
BDUCOMND	1		2
BDUEXTR	6		2
BDUFBI	3	10	3
BDUFLAGS	4		2
BDUFUNC	3		2
BDUHEADP	3	40	3
BDULDGPH	3	20	3
BDUMODIF	2		2
BDUNACK	3	02	3
BDUPAD	0		2
BDUPHASE	5	40	3
BDURSV03	4	80	3
BDURSV04	4	01	3
BDURTOE	4	02	3
BDUSCODE	5	10	3
BDUSERR	5	80	3
BDUSTPR	4	04	3
BDUSYSTR	5		2
BDUTRPM	3	08	3
BDUXFINS	6	10	3
BDUXFSTS	6	80	3
BDUXLCI	6	01	3
ISTBDU	0		1

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**Buffer Header (BFHDR)**

<b>Function:</b>	BFHDR maps the first 8 bytes of buffers obtained from VTAM fixed-length buffer pools through the REQSTORE macroinstruction. It precedes the data portion of the buffer.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	8
<b>Pointed to by:</b>	BFHNXCHN (BFHDR) BFPNXCHN (BFPFX) RPHSRPRM (RPH) - on return from REQSTORE
<b>Additional Notes:</b>	A pointer to the BFHDR is returned to the routine that issued the REQSTORE.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTBFHDR	
0	(0)	ADDRESS	4	BFHNXCHN	POINTER TO NEXT BUFFER
4	(4)	SIGNED	2	BFHSIZE	SIZE OF DATA AREA
6	(6)	SIGNED	2	BFHUSED	NUMBER OF DATA BYTES USED
8	(8)	CHARACTER	*	BFHDATA	START OF DATA AREA

## Buffer Prefix (BFPFX)

<b>Function:</b>	BFPFX is a prefix on all fixed-length VTAM buffers. It precedes the data portion of the buffer and identifies the buffer pool to which a buffer belongs.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	60 (X'3C')
<b>Pointed to by:</b>	BFPNXCHN points to the beginning of the next buffer prefix when the buffer is deallocated.
<b>Located in:</b>	Found in front of all fixed-length buffers. SMS routines use only the first two words of BFPFX when the buffer is allocated. The rest is available for the REQSTORE issuer to use.
<b>Additional Notes:</b>	Field BFPBPCB points to BPCB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	60	ISTBFPFX	
0	(0)	CHARACTER	16	BFPREFIX	BUFFER PREFIX
0	(0)	CHARACTER	8	BFPSTKID	PST AND CBID
0	(0)	ADDRESS	4	BFPSTID	PST ID OF BUFFER OWNER
0	(0)	BITSTRING	3	*	ALIGNMENT
3	(3)	BITSTRING	1	BFPTIK	TASK ID, ONE BYTE REFERENCE
4	(4)	CHARACTER	4	BFPFLAG	SECOND PREFIX WORD - FLAG - (DOS)
		1... ....		BFPALLOC	BUFFER ALLOCATED INDICATOR
		.1.. ....		BFPBID	BUFFER IS A CBID INDICATOR
		..1. ....		BFPEXT	0=BUFFER FROM STATIC PORTION 1=BUFFER FROM EXPANDED PORTION
		...1 1111		*	UNUSED - AVAILABLE
5	(5)	CHARACTER	2	*	
7	(7)	BITSTRING	1	BFPBINO	CBID INDEX NUMBER
8	(8)	ADDRESS	4	BFPBBA	THIRD PREFIX WORD
8	(8)	ADDRESS	4	BFPBPCB	IF BFPEXT=0---POINTER TO BPCB
8	(8)	ADDRESS	4	BFPBXPB	IF BFPEXT=1---POINTER TO XPB
12	(C)	CHARACTER	4	*	ALIGN START OF BUFFER ON A DOUBLE WORD BOUNDARY UNUSED - AVAILABLE
16	(10)	ADDRESS	4	BFPNXCHN	POINTER TO NEXT BUFFER IF NOT ALLOCATED OR START OF BUFFER DATA IF ALLOCATED
20	(14)	SIGNED	2	BFPBIZE	SIZE OF DATA IN BUFFER
22	(16)	SIGNED	2	BFPBUSED	COUNT OF DATA BYTES USED IN THIS BUFFER
24	(18)	CHARACTER	36	BFPBREGSA	START OF SAVE AREAS FOR REGISTER
24	(18)	SIGNED	4	BFPB5SA	SAVE AREA FOR R5
28	(1C)	SIGNED	4	BFPB6SA	SAVE AREA FOR R6
32	(20)	SIGNED	4	BFPB7SA	SAVE AREA FOR R7
36	(24)	SIGNED	4	BFPB8SA	SAVE AREA FOR R8
40	(28)	SIGNED	4	BFPB9SA	SAVE AREA FOR R9
44	(2C)	SIGNED	4	BFPB10SA	SAVE AREA FOR R10
48	(30)	SIGNED	4	BFPB11SA	SAVE AREA FOR R11
52	(34)	SIGNED	4	BFPB12SA	SAVE AREA FOR R12
56	(38)	SIGNED	4	BFPB13SA	SAVE AREA FOR R13

**Cross Reference**

Name	Hex Offset	Hex Value	Level
BFPALLOC	4	80	5
BFPBPCB	8		4
BFPCBID	4	40	5
BFPCBXNO	7		5
BFPEXT	4	20	5
BFPFLAG	4		4
BFPNXCHN	10		2
BFPPCBA	8		3
BFPSTID	0		4
BFPXBA	8		5
BFPRASA	2C		3
BFPRBSA	30		3
BFPRCSA	34		3
BFPRDSA	38		3
BFPREFIX	0		2
BFPREGSA	18		2
BFPR5SA	18		3
BFPR6SA	1C		3
BFPR7SA	20		3
BFPR8SA	24		3
BFPR9SA	28		3
BFPSIZE	14		2
BFPTIK	3		5
BFPTSKID	0		3
BFPUSED	16		2
ISTBFPFX	0		1

## Boundary Function Table (BFT)

<b>Function:</b>	BFT represents the status of all half sessions attached to an SNA cluster controller attached to a channel.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	NCBBFT (NCB) Locate individual entries by scanning the table for a network address match.
<b>Located in:</b>	BFT is adjacent to the ICNCB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTBFT	
0	(0)	CHARACTER	24	BFTBASE	BASE PORTION OF BFT
0	(0)	ADDRESS	4	BFTBFTCO	POINTER TO BF.TC OUTBOUND
4	(4)	ADDRESS	4	BFTBFTCI	POINTER TO BF.TC INBOUND
8	(8)	ADDRESS	4	BFTBFPCO	POINTER TO BF.PC OUTBOUND
12	(C)	ADDRESS	4	BFTBFPCI	POINTER TO BF.PC INBOUND
16	(10)	SIGNED	2	BFTNOENT	NUMBER OF BFT ENTRIES
18	(12)	SIGNED	2	BFTENTLN	LENGTH OF EACH ENTRY
20	(14)	SIGNED	2	BFTMXDAT	MAXDATA SIZE FOR PU
22	(16)	UNSIGNED	1	BFTPUTY	PU TYPE
23	(17)	CHARACTER	1	*	NOT USED - AVAILABLE
24	(18)	CHARACTER	8	BFTPUENT	BFT ENTRY FOR THE PU
24	(18)	UNSIGNED	4	BFTSCPSA	SSCP SUBAREA ADDRESS
28	(1C)	UNSIGNED	2	BFTSCPEA	SSCP ELEMENT ADDRESS
30	(1E)	UNSIGNED	2	BFTPUEA	PU ELEMENT ADDRESS
32	(20)	CHARACTER	*	*	REST OF BFT ENTRY

**BFT ENTRY**

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	48	BFTENTRY	BFT ENTRY
0	(0)	CHARACTER	48	BFTP1ENT	ENTRY FOR PU TYPE 1
0	(0)	CHARACTER	32	BFTP2ENT	ENTRY FOR PU TYPE 2
0	(0)	UNSIGNED	4	BFTPLUSA	PRIMARY LU SUBAREA ADDRESS
4	(4)	UNSIGNED	2	BFTPLUEA	PRIMARY LU ELEMENT ADDRESS
6	(6)	UNSIGNED	2	BFTSLUEA	SECONDARY LU ELEMENT ADDRESS
8	(8)	UNSIGNED	1	BFTLOCAD	LOCAL ADDRESS OF PU OR LU
9	(9)	CHARACTER	1	*	FINITE STATE MACHINES
		11.. ....		BFTCPSES	SEC.BF.SESS.RCV FOR THE SSCP TO PU OR SSCP TO LU SESSION
		..11 ....		BFTLUSES	SEC.BF.SESS.RCV FOR THE LU TO LU SESSION
		.... 1..		BFTPRSPP	PACING RESPONSE RECEIVED FROM THE PLU
		.... .1.		BFTPRSPS	PACING RESPONSE RECEIVED FROM THE SLU
		.... ..1.		BFTPACP	PACING IN ACTIVE BETWEEN SLU AND PLU
		.... ...1		BFTODAI	ASSIGNMENT INDICATOR (THE PU_TYPE 2 HAS ASSIGNED THE ELEMENT ADDRESS)
10	(A)	CHARACTER	1	*	SESSION CHARACTERISTICS
		1... ....		BFTCSQTY	SSCP SESSION-SEQUENCE NUMBERS OR IDENTIFIERS ARE BEING USED
		.1.. ....		BFTLSQTY	LU SESSION-SEQUENCE NUMBERS OR IDENTIFIERS ARE BEING USED
		..1. ....		BFT2SPI	2-STAGE PACING BEING USED INBOUND
		...1 ....		BFT2SPO	2-STAGE PACING BEING USED OUTBOUND
		.... 1111		*	NOT USED - AVAILABLE
11	(B)	CHARACTER	1	*	NOT USED - AVAILABLE
12	(C)	ADDRESS	4	BFTQPACP	BF.Q.PAC.(BF,PRI) - PACING QUEUE FOR THE PLU
16	(10)	ADDRESS	4	BFTQPACS	BF.Q.PAC.(BF,SEC) - PACING QUEUE FOR THE SLU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
20	(14)	UNSIGNED	1	BFTPACRP	BF.PAC.RQ.SEND.(BF,PRI) - PLU PACING STATE (COUNT)	
21	(15)	UNSIGNED	1	BFTPLIMP	LIMIT VALUE FOR BF.PAC.RQ.SEND.(BF,PRI)	
21	(15)	CHARACTER	1	BFTUBTYP	UNBIND TYPE CODE - VALID ONLY WHEN SESSION ENDING	
22	(16)	UNSIGNED	1	BFTPACRS	BF.PAC.RQ.SEND.(BF,SEC) - SLU PACING STATE (COUNT)	
23	(17)	UNSIGNED	1	BFTPLIMS	LIMIT VALUE FOR BF.PAC.RQ.SEND.(BF,SEC)	
24	(18)	ADDRESS	4	BFTNXNOD	POINTER TO NEXT ROUTING NODE (ISTVRBLK FOR CROSS-SUBAREA SESSIONS, ISTLUCB FOR SAME SUBAREA SESSIONS)	
28	(1C)	SIGNED	2	BFACTNO	VIRTUAL ROUTE ACTIVATION NUMBER	
30	(1E)	BITSTRING	1	BFTVRID	VIRTUAL ROUTE IDENTIFIER	
31	(1F)	BITSTRING	1	*	FLAG BYTE	
		1... ....		BFTSSHSQ	(SSCP,LU) SESSION QUEUED	
		.1.. ....		BFTLUHSQ	(APPLICATION,LU) SESSION QUEUED	
		..1. ....		BFTVRSON	VIRTUAL ROUTE INOPERATIVE NOTIFICATION BEGUN INDICATOR (0 = UNBIND NOT SENT) (1 = UNBIND SENT)	
		...1 ....		BFTIPRRQ	VIRTUAL ROUTE ISOLATED PACING RESPONSE REQUIRED INDICATOR	
		.... 1..		BFTBOUND	LU_LU SESSION BOUND INDICATOR	
		.... .1.		BFTPDTRC	PROBLEM DETERMINATION TRACE ACTIVE	
		.... ..1.		BFTFILTR	1 = SESSION NOT TRACED 0 = SESSION TRACED	
		.... ...1		*	NOT USED - AVAILABLE	
32	(20)	CHARACTER	16	*	EXTENSION FOR PU TYPE 1	
32	(20)	UNSIGNED	2	BFTLUSQN	NORMAL FLOW OUTBOUND SEQUENCE NUMBER (SQN_NORM) FOR LU TO LU SESSION	
34	(22)	UNSIGNED	2	BFTLUIDE	EXPEDITED FLOW OUTBOUND IDENTIFIER (ID_EXP) FOR LU TO LU SESSION	
36	(24)	UNSIGNED	2	BFTLUSQC	NORMAL FLOW INBOUND SEQUENCE NUMBER (BF.SQN_SEND_CNT) FOR LU TO LU SESSION	
38	(26)	UNSIGNED	2	BFTLUIDC	EXPEDITED FLOW INBOUND IDENTIFIER (BF.ID_EXP_SEND_CNT) FOR LU TO LU SESSION	
40	(28)	UNSIGNED	2	BFTCPSQN	NORMAL FLOW OUTBOUND SEQUENCE NUMBER (SQN_NORM) FOR SSCP TO LU/PU SESSION	
42	(2A)	UNSIGNED	2	BFTCPIDE	EXPEDITED FLOW OUTBOUND IDENTIFIER (ID_EXP) FOR SSCP TO LU/PU SESSION	
44	(2C)	UNSIGNED	2	BFTCPSQC	NORMAL FLOW INBOUND SEQUENCE NUMBER (BF.SQN_SEND_CNT) FOR SSCP TO LU/PU SESSION	
46	(2E)	UNSIGNED	2	BFTCPIDC	EXPEDITED FLOW INBOUND IDENTIFIER (BF.ID_EXP_SEND_CNT) FOR SSCP TO LU/PU SESSION	

## Constants

Len	Type	Value	Name	Description
VALUES FOR SESSION STATES (BFTCPSES AND BFTLUSES)				
0	BIT	00	BFTSERS	RESET
0	BIT	01	BFTSEPA	PENDING ACTIVE
0	BIT	10	BFTSEPR	PENDING RESET
0	BIT	11	BFTSEAC	ACTIVE
VALUES FOR SEQUENCE NUMBER TYPE (BFTSQNTY)				
0	BIT	0	BFTTYSQ	SEQUENCE NUMBERS ARE IN USE
0	BIT	1	BFTTYID	IDENTIFIERS ARE IN USE
VALUES FOR PU TYPE (BFTPUTY)				
1	HEX	01	BFTPU01	SNA TERMINAL
1	HEX	02	BFTPU02	SNA CLUSTER CONTROLLER
1	HEX	04	BFTPU04	PU TYPE 4
1	HEX	05	BFTPU05	PU TYPE 5

## Cross Reference

Name	Hex Offset	Hex Value	Level
BFACTNO	1C		4
BFTBASE	0		2
BFTBFPCI	C		3
BFTBFPCO	8		3
BFTBFTCI	4		3
BFTBFTCO	0		3
BFTBOUND	1F	08	5
BFTCPIDC	2E		4
BFTCPIDE	2A		4
BFTCPSES	9	80	5
BFTCPSQC	2C		4
BFTCPSQN	28		4
BFTCSQTY	A	80	5
BFTENTLN	12		3
BFTENTRY	0		1
BFTFILTR	1F	02	5
BFTIPRRQ	1F	10	5
BFTLOCAD	8		4
BFTLSQTY	A	40	5
BFTLUHSQ	1F	40	5
BFTLUIDC	26		4
BFTLUIDE	22		4
BFTLUSES	9	20	5
BFTLUSQC	24		4
BFTLUSQN	20		4
BFTMXDAT	14		3
BFTNOENT	10		3
BFTNXNOD	18		4
BFTODAI	9	01	5
BFTPACP	9	02	5
BFTPACRP	14		4
BFTPACRS	16		4
BFTPDRTRC	1F	04	5
BFTPLIMP	15		4
BFTPLIMS	17		4
BFTPLUEA	4		4
BFTPLUSA	0		4
BFTPRSPP	9	08	5
BFTPRSPS	9	04	5
BFTPUEA	1E		3
BFTPUENT	18		2
BFTPUTY	16		3
BFTP1ENT	0		2
BFTP2ENT	0		3
BFTQPACP	C		4
BFTQPACS	10		4
BFTSCPEA	1C		3
BFTSCPSA	18		3
BFTSLUEA	6		4
BFTSSHSQ	1F	80	5
BFTUBTYP	15		5
BFTVRID	1E		4
BFTVRSON	1F	20	5
BFT2SPI	A	20	5
BFT2SPO	A	10	5
ISTBFT	0		1



## Buffer List Entry (BLENT)

<b>Function:</b>	BLENT maps an entry in a buffer list. The user may define a buffer list to send nonadjacent data using a single SEND command. Each entry points to a piece of the data.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	16 (X'10')
<b>Pointed to by:</b>	LMPCURNT (LMPCB) - current buffer list entry LMPLASTE (LMPCB) - final buffer list entry RPLAREA (RPL) - data area pointer TSCDATAA (TSCB) - RU portion of TSCB pointer
<b>Included Blocks:</b>	RH (BLERH)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	16	ISTBLENT	BUFFER LIST ENTRY	
0	(0)	BITSTRING	1	BLEFLAGS	FLAGS	
		11.. ....		BLELMPEO	LMPEO CONTROL FLAGS -- UNDEFINED UNLESS OPTCD=LMPEO	
		1... ....		BLEBEGRU	THIS ENTRY BEGINS AN RU -- VTAM MAY NOT BREAK UP THE RU	
		.1.. ....		BLEENDRU	THIS ENTRY ENDS AN RU -- VTAM WILL BEGIN (WITH THE NEXT BUFFER LIST ENTRY) TO BREAK UP THE NEXT SET OF DATA UNLESS THE NEXT BUFFER LIST ENTRY PRECLUDES IT	
		..11 1111		*	NOT USED - AVAILABLE	
1	(1)	CHARACTER	3	BLERH	REQUEST HEADER	
4	(4)	CHARACTER	4	*	NOT USED - AVAILABLE	
8	(8)	ADDRESS	4	BLEAREA	POINTER TO USER DATA	
12	(C)	SIGNED	4	BLERLEN	LENGTH OF DATA	

### Cross Reference

Name	Hex Offset	Hex Value	Level
BLEAREA	8		2
BLEBEGRU	0	80	4
BLEENDRU	0	40	4
BLEFLAGS	0		2
BLELMPEO	0	80	3
BLERH	1		2
BLERLEN	C		2
ISTBLENT	0		1

## Buffer Pool Control Block (BPCB)

<b>Function:</b>	There is one BPCB for each of the 12 fixed-length buffer pools. The BPCB is the SMS anchor block for a buffer pool. It anchors a chain of free buffers and a queue of processors waiting for buffers. It also anchors a queue of PXBs describing the expanded portions of the buffer pool.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	224 (X'E0')
<b>Pointed to by:</b>	BFPBPCB (BFPFX) BPEBPCB (BPENT)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	224	ISTBPCB	
0	(0)	ADDRESS	4	BPCBPXFK	CHAIN POINTER FOR EXPANSION FAILED QUEUE
4	(4)	ADDRESS	4	BPCBPSSQ	FIELD USED BY TPQUE
8	(8)	BITSTRING	2	BPCBFLAG	POOL FLAGS
		1... ....		BPCBFM	POOL FORMAT
		.1.. ....		BPCBDISP	SHARED OR PRIVATE
		..1. ....		BPCBFX	FIXED OR PAGEABLE
		...1 ....		BPCBNFCH	NON-FETCH PROTECTION
		.... 1...		BPCBAL48	4,8 ALIGNMENT OF BUFFERS
		.... .1..		BPCBCBID	CBID POOL
		.... ..1.		BPCBNWS	NON-WORKING SET POOL
		.... ...1		*	RESERVED - NOT AVAILABLE
		1... ....		BPCBUSRF	USER REQ FIXED BUFFER
		.111 1111		*	NOT USED - AVAILABLE
10	(A)	BITSTRING	1	BPCBFLGS	FLAGS
		1... ....		BPCBFAIL	EXPANSION FAILED FLAG
		.111 1111		*	NOT USED - AVAILABLE
11	(B)	UNSIGNED	1	BPCBSPNO	SUBPOOL NUMBER
12	(C)	ADDRESS	4	BPCBFEXT	POINTER TO FIRST EXTENT
		1... ....		BPCBPRI0	INDICATOR FOR PRIORITY QUEUE
16	(10)	ADDRESS	4	BPCBADR1	BEGINNING ADDRESS OF POOL
20	(14)	ADDRESS	4	BPCBADR2	END ADDRESS OF POOL
24	(18)	ADDRESS	4	BPCBRPHA	PTR TO PRIORITY QUEUED RPH'S
28	(1C)	ADDRESS	4	BPCBRPHB	PTR TO NORMAL RPH QUEUE
32	(20)	ADDRESS	4	BPCBPDTY	POINTER TO POOL DIRECTORY
36	(24)	ADDRESS	4	BPCBNXCB	POINTER TO NEXT BPCB
40	(28)	SIGNED	2	BPCBBSIZ	BUFFER SIZE IN BYTES
42	(2A)	SIGNED	2	BPCBXINC	EXPANSION INCREMENT(BUFFS)
44	(2C)	SIGNED	4	BPCBTOTL	TOTAL NUMBER OF BUFFERS
48	(30)	CHARACTER	8	BPCBQBCS	CS FIELD FOR NUMBER OF BUFFERS NEEDED TO SATISFY QUEUED REQSTORES
48	(30)	SIGNED	2	*	UNUSED - NOT AVAILABLE
50	(32)	SIGNED	2	BPCBTHRE	SLOWDOWN THRESHOLD
52	(34)	SIGNED	4	BPCBQBNO	NUMBER OF BUFFERS NEEDED TO SATISFY QUEUED REQSTORES
56	(38)	CHARACTER	8	BPCBQREQ	RPH COUNTS
56	(38)	SIGNED	4	BPCBMQUE	MAXIMUM NUMBER OF CONCURRENTLY QUEUED REQUESTS ON THE BPCBRPHA AND BPCBRPHB QUEUES SINCE THE LAST SMS BUFFER USE TRACE RECORD WAS WRITTEN
60	(3C)	SIGNED	4	BPCBCQUE	CURRENT NUMBER OF RPH'S ON BPCBRPHA AND BPCBRPHB QUEUES
64	(40)	SIGNED	4	BPCBMUSE	MAXIMUM BUFFERS IN USE
68	(44)	CHARACTER	4	*	ALIGN BPCBCDS2
72	(48)	CHARACTER	8	BPCBCDS2	USED FOR CDS
72	(48)	ADDRESS	4	BPCBFBA	FIRST AVAILABLE BUFFER IN STATIC AREA
76	(4C)	SIGNED	4	BPCBCCNT	INCREMENTED FOR EACH BUFFER DEQUEUED
80	(50)	SIGNED	4	BPCBAVNO	COUNT OF AVAILABLE BUFFERS INCLUDED IN STATIC AND EXPANDED AREAS
84	(54)	CHARACTER	4	BPCBFLG2	BPCB FLAG BYTE 2

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		1... ....		BPCBRPHG	GATE FOR RPH QUEUES
		.1.. ....		BPCBLOW1	SLOWDOWN GATE
		..1. ....		BPCBLOW2	SLOWDOWN BDY CROSSING FLAG
		...1 1111		*	NOT USED - AVAILABLE
85	(55)	ADDRESS	3	BPCBTCBP	TCB ID OF GATE OWNER
88	(58)	CHARACTER	24	BPCBSAVE	SAVE AREA FOR ISTOREFBG WHEN BPCBRPHG IS ON
88	(58)	ADDRESS	4	BPCBR9	SAVED REGISTER 9
92	(5C)	ADDRESS	4	BPCBR10	SAVED REGISTER 10
96	(60)	ADDRESS	4	BPCBR11	SAVED REGISTER 11
100	(64)	ADDRESS	4	BPCBR12	SAVED REGISTER 12
104	(68)	ADDRESS	4	BPCBR13	SAVED REGISTER 13
108	(6C)	ADDRESS	4	BPCBR14	SAVED REGISTER 14
112	(70)	ADDRESS	4	BPCBRESP	POINTER TO LAST BUFFER IN RESIDUE
116	(74)	SIGNED	4	BPCBNUM	NUMBER BUFFERS IN PRIVATE AREA
120	(78)	SIGNED	4	BPCBNUMR	NUMBER BUFFERS IN RESIDUE AREA
124	(7C)	ADDRESS	4	BPCBRPHS	FBQ UNFINISHED WORK INDICATED
124	(7C)	BITSTRING	1	BPCBR3B0	REG3 BYTE0 DURING DEQUEUE
125	(7D)	ADDRESS	3	BPCBRPSA	POINTER TO DEQUEUED RPH
128	(80)	ADDRESS	4	BPCBSMSE	PTR TO SMS WE IN USE
132	(84)	SIGNED	4	BPCBAVSA	COUNT OF AVAILABLE BUFFERS IN STATIC AREA
136	(88)	ADDRESS	4	BPCBBPXB	PTR TO 1ST PXB ON CHAIN
140	(8C)	SIGNED	2	BPCBTHPX	EXPANSION THRESHOLD
140	(8C)	UNSIGNED	2	BPCBXPND	IF EQUAL TO BPCBNOXP (X'8000'), POOL NOT ELIGIBLE FOR EXPANSION
142	(8E)	SIGNED	2	BPCBTHPC	CONTRACTION THRESHOLD
144	(90)	SIGNED	4	BPCBTEXP	NUMBER TIMES POOL EXPANDED
148	(94)	SIGNED	4	BPCBMBUF	MAXIMUM NUMBER OF BUFFERS
152	(98)	CHARACTER	1	BPCBPXIP	LOCK FOR TPQUEING BPCB
153	(99)	CHARACTER	7	*	NOT USED - AVAILABLE
160	(A0)	SIGNED	4	BPCBEXLN	EXPANSION SIZE IN BYTES
164	(A4)	CHARACTER	4	BPCBRSV1	RESERVED - NOT AVAILABLE
168	(A8)	CHARACTER	48	BPCSAVE	SAVE AREA FOR REGS 14-8 ACROSS TPQUE EXPANSION WHEN SCHEDULED POOL IN EXPANSION OR CONTRACTION
216	(D8)	SIGNED	4	BPCBEXLM	EXPANSION LIMIT IN NUMBER OF BUFFERS
220	(DC)	CHARACTER	4	*	NOT ASSIGNED - AVAILABLE
224	(E0)	CHARACTER		*	FORCE DOUBLE WORD ALIGNMENT

Constants

Len	Type	Value	Name	Description
2	HEX	8000	BPCBNOXP	USED TO TEST BPCBXPND - IF EQUAL, EXPANSION IS PROHIBITED

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
BPCBADR1	10		2	BPCBFLAG	8		2
BPCBADR2	14		2	BPCBFLGS	A		2
BPCBAL48	8	08	3	BPCBFLG2	54		2
BPCBAVNO	50		2	BPCBFM	8	80	3
BPCBAVSA	84		2	BPCBFX	8	20	3
BPCBBPXB	88		2	BPCBLOW1	54	40	3
BPCBBSIZ	28		2	BPCBLOW2	54	20	3
BPCBCBID	8	04	3	BPCBMBUF	94		2
BPCBCCNT	4C		3	BPCBMQUE	38		3
BPCBCDS2	48		2	BPCBMUSE	40		2
BPCBCQUE	3C		3	BPCBNFCH	8	10	3
BPCBDISP	8	40	3	BPCBNUM	74		2
BPCBEXLM	D8		2	BPCBNUMR	78		2
BPCBEXLN	A0		2	BPCBNWS	8	02	3
BPCBFAIL	A	80	3	BPCBNXCB	24		2
BPCBFBA	48		3	BPCBPDTY	20		2
BPCBFEXT	C		2	BPCBPRI0	C	80	3

Name	Hex Offset	Hex Value	Level
BPCBPSSQ	4		2
BPCBPXFQ	0		2
BPCBPXIP	98		2
BPCBQBCS	30		2
BPCBQBNO	34		3
BPCBQREQ	38		2
BPCBRESP	70		2
BPCBRPHA	18		2
BPCBRPHB	1C		2
BPCBRPHG	54	80	3
BPCBRPHS	7C		2
BPCBRPSA	7D		3
BPCBRSV1	A4		2
BPCBR10	5C		3
BPCBR11	60		3
BPCBR12	64		3
BPCBR13	68		3
BPCBR14	6C		3
BPCBR3B0	7C		3
BPCBR9	58		3
BPCBSAVE	58		2
BPCBSMSE	80		2
BPCBSPNO	B		2
BPCBTCBP	55		3
BPCBTEXP	90		2
BPCBTHPC	8E		2
BPCBTHPX	8C		2
BPCBTHRE	32		3
BPCBTOTL	2C		2
BPCBUSRF	9	80	3
BPCBXINC	2A		2
BPCBXPND	8C		3
BPCSAVE	A8		2
ISTBPCB	0		1

## Buffer Pool Directory (BPDTY)

<b>Function:</b>	BPDTY is the main SMS control block. It is built before the first usable buffer pool is created. The directory anchors each BPCB. The BPDTY contains an SMS information header, an entry (BPENT) for each pool, and the CBID table.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ATCBPDA (ATCVT) BPCBPDTY (BPCB)
<b>Included Blocks:</b>	BPENTRY is a 12-member array. Each member is a buffer pool entry (BPENT).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	584	ISTBPDTY	
0	(0)	CHARACTER	392	BPDHDR	DIRECTORY HEADER
0	(0)	SIGNED	2	BPDBPENT	CURRENT NUMBER OF ENTRIES
2	(2)	SIGNED	2	BPDBPMAX	MAXIMUM NUMBER OF ENTRIES
4	(4)	SIGNED	2	BPDCHBNO	NUMBER BUFFERS FOR CHANNEL PROGRAM
6	(6)	SIGNED	2	BPDCHBSZ	BUFFER SIZE FOR CHANNEL PROGRAM
8	(8)	ADDRESS	4	BPDCHPCB	POINTER TO BPCB FOR CHANNEL PROGRAM
12	(C)	ADDRESS	4	BPDPGPCB	POINTER TO BPCB FOR PGBUF
16	(10)	ADDRESS	4	BPDADRS1	BEGINNIG ADDRESS FOR POOLS
20	(14)	ADDRESS	4	BPDADRS2	ENDING ADDRESS FOR POOLS
24	(18)	SIGNED	4	*	RESERVED
28	(1C)	ADDRESS	4	BPDSMPCB	POINTER TO SMS WORK ELEMENT (BPCB)
32	(20)	ADDRESS	4	BPDFBPE	FIRST POOL ENTRY
36	(24)	ADDRESS	4	BPDATCVT	POINTER TO ATCVT
40	(28)	UNSIGNED	4	BPDFLAG	FLAGS FIELD
		1... ....		BPDGTR	GTRACE REQUESTED
40	(28)	BITSTRING	3	BPDRSV01	NOT USED - AVAILABLE
44	(2C)	SIGNED	2	BPDREQCT	COUNT OF REQSTORES
46	(2E)	SIGNED	2	BPDREQMX	GTRACE REQUEST INTERVAL
48	(30)	CHARACTER	8	BPDPARM	GTRACE PARMETER
48	(30)	SIGNED	2	BPDTRLEN	GTRACE DATA LENGTH
50	(32)	CHARACTER	1	*	NOT USED - AVAILABLE
51	(33)	CHARACTER	1	BPDTRID	GTRACE FORMAT ID
52	(34)	ADDRESS	4	BPDTRADR	POINTER TO GTRACE DATA
56	(38)	CHARACTER	28	BPDTRACE (12)	GTRACE DATA
56	(38)	CHARACTER	2	BPDBNAME	BUFFER POOL
58	(3A)	CHARACTER	2	*	BUFFER POOL
60	(3C)	SIGNED	4	BPDMUSE	MAXIMUM BUFFERS IN USE
64	(40)	SIGNED	4	BPDMQUE	MAXIMUM REQUESTS QUEUED
68	(44)	SIGNED	4	BPDVNO	AVAILABLE NUMBER OF BUFFERS
72	(48)	SIGNED	4	BPDTXP	TOTAL NUMBER OF EXPANSIONS
76	(4C)	SIGNED	4	BPDMXBF	MAXIMUM NUMBER OF BUFFERS IN POOL
80	(50)	SIGNED	4	BPDCRBF	CURRENT NUMBERS OF BUFFERS IN POOL
392	(188)	CHARACTER	16	BPENTRY (12)	BEGIN POOL ENTRY (SEE BPENT)
584	(248)	CHARACTER	*	BPDCBID	CBID TABLE SECTION (SEE CBIDT)

### Cross Reference

Name	Hex Offset	Hex Value	Level
BPDADRS1	10		3
BPDADRS2	14		3
BPDATCVT	24		3
BPDAVNO	44		4
BPDBNAME	38		4
BPDBPENT	0		3
BPDBPMAX	2		3
BPDCBID	248		2
BPDCHBNO	4		3
BPDCHBSZ	6		3
BPDCHPCB	8		3
BPDCRBF	50		4
BPENTRY	188		2
BPDFBPE	20		3
BPDFLAG	28		3
BPDGTR	28	80	4
BPDHDR	0		2
BPDMQUE	40		4
BPDMUSE	3C		4
BPDMXBF	4C		4
BPDPARM	30		3
BPDPGPCB	C		3
BPREQCT	2C		3
BPREQMX	2E		3
BPDRSV01	28		4
BPDSMPCB	1C		3
BPDTEXP	48		4
BPDTRACE	38		3
BPDTRADR	34		4
BPDTRID	33		4
BPDTRLEN	30		4
ISTBPDTY	0		1

## Buffer Pool Entry (BPENT)

<b>Function:</b>	BPENT maps an individual entry in the buffer pool directory. There is one entry for each pool. Each entry contains the attributes of a buffer pool and the address of the BPCB corresponding to the buffer pool.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	16 (X'10')
<b>Located in:</b>	Found in the buffer pool directory (BPDTY).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ISTBPENT	
0	(0)	CHARACTER	4	BPEPID	POOL ID
4	(4)	BITSTRING	2	BPEFLAGS	POOL FLAGS
		1.. ....		BPEFM	POOL FORMAT
		.1.. ....		BPEDISP	SHARED OR PRIVATE
		..1. ....		BPEFIXED	FIXED OR PAGEABLE
		...1 ....		BPENFCHP	NON-FETCH PROTECTION
		.... 1..		BPEAL48	4,8 ALIGNMENT OF BUFFERS
		.... .1..		BPECBID	CBID POOL
		.... ..1.		BPENWS	NON-WORKING SET POOL
		.... ...1		BPERSV01	RESERVED
		1.. ....		BPEUSRF	USER REQUIRES FIXED BUF
		.111 1111		BPERSV02	RESERVED
6	(6)	SIGNED	2	BPEBFSIZ	BUFFER SIZE IN BYTES
8	(8)	ADDRESS	4	BPEBPCB	ADDRESS OF BPCB
12	(C)	CHARACTER	4	BPERSV03	RESERVED

## Cross Reference

Name	Hex Offset	Hex Value	Level
BPEAL48	4	08	3
BPEBFSIZ	6		2
BPEBPCB	8		2
BPECBID	4	04	3
BPEDISP	4	40	3
BPEFIXED	4	20	3
BPEFLAGS	4		2
BPEFM	4	80	3
BPENFCHP	4	10	3
BPENWS	4	02	3
BPEPID	0		2
BPERSV01	4	01	3
BPERSV02	5	40	3
BPERSV03	C		2
BPEUSRF	5	80	3
ISTBPENT	0		1

## Bisynchronous Communication Line Block (BSCLB)

<b>Function:</b>	A BSCLB represents a BSC line attached through a communication adapter. It is created when the line is activated.  The BSCLB describes the characteristics and dynamic status of the line. It also contains information needed to control I/O initialization and termination. This includes CCWs and the scheduling queues and parameters required to communicate with the I/O supervisor routines that perform the I/O operations.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	680 (X'2A8')
<b>Pointed to by:</b>	RPRNCBA (RPRE)
<b>Included Blocks:</b>	NCB (BSCLB), PAB (BSCIRPAB), CCW.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	680	ISTBSCLB	BSC LINE BLOCK
0	(0)	CHARACTER	312	BSCLB	COMMON NCB HEADER
312	(138)	CHARACTER	20	BSCIRPAB	INBOUND ROUTER PAB
332	(14C)	CHARACTER	4	*	NOT USED- AVAILABLE
336	(150)	CHARACTER	336	BSCDEVCA	DEVICE CONTROL AREA

THE SEQUENCE OF THE FOLLOWING CHANNEL PROGRAM CCWS MUST NOT BE CHANGED DUE TO A CODING DEPENDENCY IN THE BSC ERROR RECOVERY PROCEDURE (ISTTSCZI). IF NEW CCWS ARE ADDED, THE TABLES IN THE BSC ERROR RECOVERY PROCEDURE MUST BE UPDATED AS APPROPRIATE.

336	(150)	CHARACTER	264	BSCCHPGM	CHANNEL PROGRAM AREA
336	(150)	CHARACTER	8	BSCSENSE	BSC SENSE CCW
344	(158)	CHARACTER	8	BSCCLNOP	NOP USED TO TERMINATE POLLING OPERATION
352	(160)	CHARACTER	64	BSCINTRD	GENERAL POLL (INITIAL READ) CHANNEL PROGRAM
352	(160)	CHARACTER	8	BSCSMCCW	SET MODE (WRITE EOT) CCW
360	(168)	CHARACTER	8	BSCIRPL1	POLL 1 - POLL TO END OF LIST
368	(170)	CHARACTER	8	BSCIRTC1	TIC 1 - TIC TO BSCIRPL2
376	(178)	CHARACTER	8	BSCIRTC2	TIC 2 - TIC TO BSCIREAD
384	(180)	CHARACTER	8	BSCT2XTN	EXTENSION TO BSCIRTC2 CONTAINS VIRTUAL ADDRESS OF BSCIREAD
392	(188)	CHARACTER	8	BSCIRPL2	POLL 2 - POLL ENTIRE LIST
400	(190)	CHARACTER	8	BSCIRTC3	TIC 3 - TIC TO BSCIRPL2
408	(198)	CHARACTER	8	BSCIREAD	READ DATA - POLL COMPLETION
416	(1A0)	CHARACTER	16	BSCCNTRD	CONTINUE READ CHANNEL PROGRAM
416	(1A0)	CHARACTER	8	BSCCRWPA	WRITE POSITIVE ACKNOWLEDGEMENT
424	(1A8)	CHARACTER	8	BSCCREAD	CONTINUE READ MESSAGE
432	(1B0)	CHARACTER	16	BSCRPTRD	REPEAT READ CHANNEL PROGRAM
432	(1B0)	CHARACTER	8	BSCRWNA	WRITE NEGATIVE ACKNOWLEDGEMENT
440	(1B8)	CHARACTER	8	BSCRREAD	REPEAT READ MESSAGE
448	(1C0)	CHARACTER	8	BSCINQRD	INQUIRY READ
456	(1C8)	CHARACTER	24	BSCSTSRD	STATUS READ CHANNEL PROGRAM
456	(1C8)	CHARACTER	8	BSCSREOT	SET CONTROL MODE (WRITE EOT) CCW
464	(1D0)	CHARACTER	8	BSCRSRPL	SPECIFIC POLL
472	(1D8)	CHARACTER	8	BSCSREAD	STATUS READ
480	(1E0)	CHARACTER	16	BSCINTWR	INTERRUPT WRITE CHANNEL PROGRAM
480	(1E0)	CHARACTER	8	BSCIWRVI	SEND REVERSE INTERRUPT
488	(1E8)	CHARACTER	8	BSCIWRDR	READ RESPONSE
496	(1F0)	CHARACTER	64	BSCIWCON	INITIAL WRITE CONVERSATIONAL CHANNEL PROGRAM
496	(1F0)	CHARACTER	8	BSCICEOT	SET CONTROL MODE (WRITE EOT) CCW
504	(1F8)	CHARACTER	8	BSCICSEL	WRITE SELECTION CHARACTERS
512	(200)	CHARACTER	8	BSCICRRS	READ RESPONSE TO SELECTION
520	(208)	CHARACTER	8	BSCICSTX	WRITE STX AND ESC CHARACTERS
528	(210)	CHARACTER	8	BSCICTIC	TIC TO FIRST WRITE BUFFER



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
536	(218)	CHARACTER	8	BSCICXTN	EXTENSION TO BSCICTIC CONTAINS VIRTUAL ADDRESS OF WRITE CCW
544	(220)	CHARACTER	8	BSCICETX	WRITE ETX CHARACTER
552	(228)	CHARACTER	8	BSCICRRM	READ (RESPONSE TO) MESSAGE
560	(230)	CHARACTER	8	BSCRESET	RESET WRITE
568	(238)	CHARACTER	16	BSCIQWCV	INQUIRY WRITE CONVERSATIONAL CHANNEL PROGRAM
568	(238)	CHARACTER	8	BSCQCENQ	SEND INQUIRY
576	(240)	CHARACTER	8	BSCQCRRM	READ (RESPONSE TO) MESSAGE
584	(248)	CHARACTER	8	BSCT1XTN	EXTENSION OF BSCIRTC1
584	(248)	CHARACTER	4	*	RESERVED
588	(24C)	CHARACTER	4	BSCT1ADV	VIRTUAL ADDRESS OF DATA
592	(250)	CHARACTER	8	BSCT3XTN	EXTENSION OF BSCIRTC3
592	(250)	CHARACTER	4	*	RESERVED
596	(254)	CHARACTER	4	BSCT3ADV	VIRTUAL ADDRESS OF DATA
600	(258)	CHARACTER		BSCCPEND	END OF CHANNEL PROGRAM AREA
600	(258)	CHARACTER	20	BSCCHDTA	CHANNEL PROGRAM DATA AREA
600	(258)	CHARACTER	2	BSCACKTY	ACK0/ACK1 FLIP FLOP
600	(258)	CHARACTER	1	*	CONSTANT DLE ('10'X)
601	(259)	CHARACTER	1	BSCALTAK	CURRENT ACKNOWLEDGEMENT CHARACTER
602	(25A)	CHARACTER	2	BSCRSPA	READ RESPONSE AREA
602	(25A)	CHARACTER	1	BSCRSPA1	FIRST RESPONSE BYTE
603	(25B)	CHARACTER	1	BSCRSPA2	SECOND RESPONSE BYTE
604	(25C)	CHARACTER	2	BSCRVI	REVERSE INTERRUPT DATA
606	(25E)	CHARACTER	2	BSCSTXES	STX/ESC
608	(260)	CHARACTER	1	BSCETX	ETX
609	(261)	CHARACTER	1	BSCEOT	EOT
610	(262)	CHARACTER	5	BSCSELEC	SELECTION CHARACTERS
610	(262)	CHARACTER	4	BSCSEL	SELECT / DEVICE ADDRESS
610	(262)	CHARACTER	1	BSCSEL1	FIRST SELECTION CHARACTER
611	(263)	CHARACTER	1	BSCSEL2	SECOND SELECTION CHARACTER
612	(264)	CHARACTER	1	BSCDEV1	FIRST DEVICE ADDRESS
613	(265)	CHARACTER	1	BSCDEV2	SECOND DEVICE ADDRESS
614	(266)	CHARACTER	1	BSCENQ	ENQ
615	(267)	CHARACTER	1	BSCNAK	NAK
616	(268)	CHARACTER	1	BSCSMODE	SETMODE DATA ('00'X)
617	(269)	CHARACTER	1	*	NOT USED - AVAILABLE
618	(26A)	CHARACTER	2	BSCHOLDS	HOLD AREA FOR SENSE DATA WHEN THE TEMPORARY ERROR COUNTER ARRAY IS FULL
620	(26C)	ADDRESS	4	BSCBCT	POINTER TO BSC CLUSTER TABLE
624	(270)	ADDRESS	4	BSCBPL	POINTER TO BSC POLL LIST
628	(274)	ADDRESS	4	BSCWPEQ	WAITING PRINTER END QUEUE
632	(278)	ADDRESS	4	BSCACREQ	VIRTUAL ADDRESS OF A READ I/O BUFFER
636	(27C)	ADDRESS	4	BSCJTRPH	ADDRESS OF CONNECTION TERMINATOR RPH DURING PAB CLEANUP
640	(280)	ADDRESS	4	BSCCAW	SAVE AREA FOR NCBCAW DURING SENSE CCW I/O
644	(284)	UNSIGNED	2	BSCCUA	ACTUAL VALUE FOR CHANNEL ADDRESS
646	(286)	BITSTRING	1	BSCCMIO	CONNECTION MANAGER FLAGS
		11.. ....		BSCPUSIO	CONNECTION MANAGER/CHANNEL END APPENDAGE CONTROL FLAGS
		...1 ....		BSCTMPER	TEMPORARY ERROR INDICATOR
		...1 ....		BSCRECRQ	CLOSE DOWN RECORDING REQUIRED
		.... 1...		*	NOT USED - AVAILABLE
		.... .1..		BSCPNCNTD	AT LEAST ONE STATION IS PENDING CONTACTED
		.... ..1.		BSCCTDAL	ALL STATION RESPONDED TO CONTACT POLL
		.... ...1		BSCCMDIS	CONNECTION MANAGER DISABLE CHANNEL PROGRAM IS ACTIVE
647	(287)	UNSIGNED	1	BSCNUBCT	NUMBER OF BCT ENTRIES
648	(288)	UNSIGNED	1	BSCCCFSM	CURRENT CHANNEL PROGRAM FINITE STATE MACHINE
649	(289)	UNSIGNED	1	BSCOCFSM	ORIGINAL CHANNEL PROGRAM FINITE STATE MACHINE
650	(28A)	UNSIGNED	1	BSCPCFSM	PREVIOUS CHANNEL PROGRAM FINITE STATE MACHINE
651	(28B)	UNSIGNED	1	BSCLKFSM	LINE STATE
652	(28C)	CHARACTER	1	BSCLBR	LAST BLOCK TYPE RECEIVED
653	(28D)	CHARACTER	9	BSCTMPS	TEMPORARY ERROR WORK AREA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
653	(28D)	CHARACTER	3	BSCTEMPS (3)	A 3 ELEMENT ARRAY FOR COUNTING LINE ERRORS BY SENSE TYPE - IF SENSE TYPE IS NOT ALREADY BEING COUNTED, USE THE NEXT ELEMENT IN THE ARRAY
662	(296)	UNSIGNED	1	BSCRCNT	ERROR RETRY COUNT
663	(297)	UNSIGNED	1	BSCRLIM	LINE ERROR RETRY LIMIT
664	(298)	UNSIGNED	1	BSCBPESV	SAVE INDEX OF BPL ENTRY FOR WHICH INPUT DATA WAS RECEIVED
665	(299)	UNSIGNED	1	BSCDEVSU	DEVICE ADDRESS FROM WHICH INPUT DATA WAS RECEIVED
666	(29A)	UNSIGNED	1	BSCISOD	INDEX FOR LAST STATION FOR WHICH THERE WAS OUTPUT DATA
667	(29B)	UNSIGNED	1	BSCFCFSM	ORIGINAL FAILING CHANNEL PROGRAM FINITE STATE MACHINE
668	(29C)	UNSIGNED	1	BSCSERVL	SERVICE LIMIT (MAXIMUM NUMBER OF DATA OUTPUT OPERATIONS THAT CAN BE DONE BEFORE A GENERAL POLL IS REQUIRED)
669	(29D)	UNSIGNED	1	BSCSERCT	SERVICE COUNTER (INCREMENTED EACH TIME A WRITE IS SCHEDULED AND ZEROED EACH TIME A GENERAL POLL IS SCHEDULED)
670	(29E)	BITSTRING	1	BSCFLAGS	BSC FLAGS
		1... ....		BSCISLD	INITIAL STATUS - LOST DATA ERROR RECOVERY IN PROGRESS
		.1.. ....		BSCISTO	INITIAL STATUS - TIMEOUT ERROR RECOVERY IN PROGRESS
		..1. ....		BSCISUEX	INITIAL STATUS - UNIT EXCEPTION ERROR RECOVERY IN PROGRESS
		...1 ....		BSCTRM	TEST REQUEST MESSAGE PROCESSING ACTIVE
		.... 1..		BSCTO	GENERAL POLL TIME OUT HAS OCCURED
		.... .1..		BSCADDPE	PARAMETER FOR ISTTSCJL 1 = ADD POLLING LIST ENTRY 0 = DELETE POLLING LIST ENTRY
		.... ..11		*	NOT USED - AVAILABLE
671	(29F)	UNSIGNED	1	BSCFCPIN	INDEX TO THE FAILING CHANNEL PROGRAM WITHIN THE CHANNEL PROGRAM AREA IN THE BSCCLB
672	(2A0)	CHARACTER	8	BSCSYSUA	SYSTEM UNIQUE AREA
DOS/VSE UNIQUE AREA					
672	(2A0)	UNSIGNED	1	BSCSNCTR	SENSE I/O RETRY COUNTER
673	(2A1)	CHARACTER	2	BSCSENSV	SENSE SAVE AREA FOR THE LAST FAILURE
675	(2A3)	UNSIGNED	1	BSCTECT	COUNT OF TEMPORARY ERRORS
676	(2A4)	CHARACTER	4	*	NOT USED - AVAILABLE
END OF DOS/VSE UNIQUE AREA					
680	(2A8)	CHARACTER		BSCEND	FORCE ENDING ALIGNMENT
TEMPORARY ERROR COUNTER ARRAY OVERLAY					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	BSCTEMP	TEMPORARY ERROR COUNTER ENTRY
0	(0)	UNSIGNED	1	BSCCTCT	COUNT OF SENSE TYPE FOR ERROR RECORDING
1	(1)	CHARACTER	2	BSCSNTS	SENSE TYPE FOR ERROR RECORDING
DEVICE CONTROL FLAGS					
0	(0)	STRUCTURE	8	BSCDCFLG	DEVICE CONTROL FLAGS
		1... ....		BSCDSBL	DISABLE TO BE DONE
		.1.. ....		BSCACTCL	AT LEAST ONE CLUSTER ON THE LINE IS ACTIVE
		..1. ....		BSCFABOR	FORWARD ABORT
		...1 ....		BSCOBRL	LINE OBR REQUIRED
		.... 1..		BSCOBRS	STATION OBR REQUIRED
		.... .1..		BSCOBRC	OBR RECORDING COMPLETED
		.... ..1.		BSCREDIO	I/O REDRIVE REQUIRED AFTER OBR RECORDING COMPLETED
		.... ...1		BSCSENOI	SENSE CCW I/O HAS BEEN ISSUED
VALUES FOR NCBSNS1					

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	8	BSCSNS1	SENSE BIT DEFINITIONS
		1... ....		BSCCOMRJ	COMMAND REJECT
		.1.. ....		BSCINREQ	INTERVENTION REQUIRED
		..1. ....		BSCBOCHK	BUS OUT CHECK
		...1 ....		BSCEQPCK	EQUIPMENT CHECK
		.... 1..		BSCDACHK	DATA CHECK
		.... .1..		BSCOVRRN	OVERRUN
		.... ..1.		BSCLSDAT	LOST DATA
		.... ...1		BSCTCMP	TIMEOUT COMPLETE

**Constants**

Len	Type	Value	Name	Description
VALUES FOR BSCPUSIO				
0	BIT	00	BSCNOTCM	NOT CONNECTION MANAGER I/O
0	BIT	01	BSCCMPND	CONNECTION MANAGER I/O PENDING
0	BIT	10	BSCCMIOH	CONNECTION MANAGER I/O IS HALTED
0	BIT	11	BSCCMACT	CONNECTION MANAGER I/O ACTIVE
VALUES FOR BSCLKFSM				
4	DECIMAL	1	BSCLKRS	RESET STATE
4	DECIMAL	2	BSCLKPA	PENDING ACTIVE
4	DECIMAL	3	BSCLKOPA	OBR PENDING ACTIVE
4	DECIMAL	4	BSCLKAC	ACTIVE
4	DECIMAL	5	BSCLKOAC	OBR ACTIVE
4	DECIMAL	6	BSCLKPR	PENDING RESET
4	DECIMAL	7	BSCLKOPR	OBR PENDING RESET
VALUES FOR BSCERCOD				
1	HEX	01	BSCCTLCK	CONTROL CHECK
1	HEX	02	BSCSNDNT	SHOULD NOT OCCUR SENSE
1	HEX	03	BSCCHDCK	CHANNEL DATA CHECK
1	HEX	05	BSCEQCHK	EQUIPMENT CHECK
1	HEX	06	BSCINTRQ	INTERVENTION REQUIRED
1	HEX	07	BSCLSTDT	LOST DATA
1	HEX	08	BSCCMDRJ	COMMAND REJECT
1	HEX	09	BSCCCEQ3	CONDITION CODE 3
1	HEX	0B	BSCNOTIN	NOT INITIALIZED
1	HEX	0C	BSCCHDMG	CHANNEL DAMAGED
1	HEX	0D	BSCCHNCK	CHAINING CHECK
1	HEX	0E	BSCPGMCK	PROGRAM CHECK
1	HEX	0F	BSCPRTCK	PROTECTION CHECK
1	HEX	10	BSCSNOST	SHOULD NOT OCCUR STATUS
1	HEX	12	BSCDLCHK	DATA LENGTH CHECK
1	HEX	13	BSCOVRRN	OVERRUN
1	HEX	14	BSCUNDRN	UNDERRUN
1	HEX	15	BSCDATRJ	DATA REJECT
1	HEX	16	BSCDATCK	DATA CHECK
1	HEX	17	BSCPARCK	PARITY CHECK
1	HEX	18	BSCMCHCK	MACHINE CHECK
1	HEX	19	BSCTMOUT	TIMEOUT
1	HEX	1A	BSCUNKWN	UNKNOWN ERROR
1	DECIMAL	1	BSCIOPOL	GENERAL POLL ACTIVE
1	DECIMAL	2	BSCIOCR	CONTINUE READ ACTIVE
1	DECIMAL	3	BSCIOCM	CONTROL MODE STATE
1	DECIMAL	4	BSCIOIW1	INITIAL WRITE (PART ONE) ACTIVE
1	DECIMAL	5	BSCIOIW2	INITIAL WRITE (PART TWO) ACTIVE
1	DECIMAL	6	BSCIOINQ	INQUIRY WRITE ACTIVE
1	DECIMAL	7	BSCIOEOT	EOT SENT OR EOT EXPECTED
1	DECIMAL	8	BSCIOIC1	INITIAL WRITE CONVERSATIONAL (PART ONE) ACTIVE
1	DECIMAL	9	BSCIOIC2	INITIAL WRITE CONVERSATIONAL (PART TWO) ACTIVE
1	DECIMAL	10	BSCIOSTR	STATUS READ ACTIVE
1	DECIMAL	11	BSCIORR	REPEAT READ ACTIVE
1	DECIMAL	12	BSCIOINT	INTERUPT WRITE ACTIVE
1	DECIMAL	13	BSCIOIQR	INQUIRY READ ACTIVE

Len	Type	Value	Name	Description
1	DECIMAL	14	BSCIOQW	INQUIRY WRITE CONVERSATIONAL ACTIVE
1	HEX	01	BSCSOHC	START OF HEADER
1	HEX	02	BSCSTXC	START OF TEXT
1	HEX	03	BSCETXC	END OF TEXT
1	HEX	10	BSCDLEC	DATA LINK ESCAPE
1	HEX	26	BSCETBC	END TRANSMISSION BLOCK
1	HEX	2D	BSCENQC	INQUIRE
1	HEX	37	BSCBOTC	END OF TRANSMISSION
1	HEX	3D	BSCNAKC	NEGATIVE ACKNOWLEDGEMENT
1	HEX	70	BSCACK0	ACKNOWLEDGEMENT 0
1	HEX	61	BSCACK1	ACKNOWLEDGEMENT 1
1	HEX	11	BSCACKA	ACKNOWLEDGEMENT ALTERNATOR
2	HEX	1070	BSCACK0C	FULL ACK 0
2	HEX	1061	BSCACK1C	FULL ACK 1
2	HEX	106B	BSCWACKC	WAIT ACKNOWLEDGEMENT
2	HEX	107C	BSCRVIC	REVERSE INTERRUPT
2	HEX	0227	BSCWRTHC	WRITE HEADING CHARACTERS (START OF TEXT/ESCAPE)

GENERAL CONSTANTS

1	HEX	11	BSCSBAC	SET BUFFER ADDRESS
1	HEX	F2	BSCRBUF	READ BUFFER COMMAND
1	HEX	F6	BSCRMODC	READ MODIFIED COMMAND
2	HEX	00FE	BSCCCSSC	DOS/VSE CONDITION CODE 3 SENSE CODE
2	HEX	1000	BSCCECSC	EQUIPMENT CHECK SENSE CODE
2	HEX	FF01	BSCUESC	UNIT EXCEPTION SENSE CODE
4	DECIMAL	9	BSCSRRS	DATA AREA LENGTH FOR STATUS READS
4	DECIMAL	256	BSCCRRS	DATA AREA LENGTH FOR CONTINUE READ READS
4	DECIMAL	257	BSCGPRS	DATA AREA LENGTH FOR GENERAL POLL READS

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
BSCACKTY	258		4	BSCETX	260		4
BSCACREQ	278		3	BSCFABOR	0	20	2
BSCACTCL	0	40	2	BSCFCFSM	29B		3
BSCADDPE	29E	04	4	BSCFCPIN	29F		3
BSCALTAK	259		5	BSCFLAGS	29E		3
BSCBCT	26C		3	BSCHOLDS	26A		4
BSCBOCHK	0	20	2	BSCICEOT	1F0		5
BSCBPESV	298		3	BSCICETX	220		5
BSCBPL	270		3	BSCICRRM	228		5
BSCCAW	280		3	BSCICRRS	200		5
BSCCCFSM	288		3	BSCICSEL	1F8		5
BSCCHDTA	258		3	BSCICSTX	208		5
BSCCHPGM	150		3	BSCICTIC	210		5
BSCCMDIS	286	01	4	BSCICXTN	218		5
BSCCMIO	286		3	BSCINQRD	1C0		4
BSCCNTRD	1A0		4	BSCINREQ	0	40	2
BSCCOMRJ	0	80	2	BSCINTRD	160		4
BSCCPEND	258		4	BSCINTWR	1E0		4
BSCCREAD	1A8		5	BSCIQWCV	238		4
BSCCRWPA	1A0		5	BSCIREAD	198		5
BSCCTDAL	286	02	4	BSCIRPAB	138		2
BSCCUA	284		3	BSCIRPL1	168		5
BSCDACHK	0	08	2	BSCIRPL2	188		5
BSCDCFLG	0		1	BSCIRTC1	170		5
BSCDEVCA	150		2	BSCIRTC2	178		5
BSCDEVSV	299		3	BSCIRTC3	190		5
BSCDEV1	264		6	BSCISLD	29E	80	4
BSCDEV2	265		6	BSCISOD	29A		3
BSCDSBL	0	80	2	BSCISTO	29E	40	4
BSCEND	2A8		2	BSCISUEX	29E	20	4
BSCENQ	266		5	BSCIWCON	1F0		4
BSCBOT	261		4	BSCIWRDR	1E8		5
BSCQPC	0	10	2	BSCIWRVI	1E0		5

Name	Hex Offset	Hex Value	Level
BSCJTRPH	27C		3
BCKLNOP	158		4
BSCLB	0		2
BSCLEBR	28C		3
BCLKFSM	28B		3
BCLSDAT	0	02	2
BSCNAK	267		4
BSCNUBCT	287		3
BSCOBRC	0	04	2
BSCOBRL	0	10	2
BSCOBRS	0	08	2
BSCOCFSM	289		3
BSCOVRUN	0	04	2
BSCPCFSM	28A		3
BSCPNCTD	286	04	4
BSCPUSIO	286	80	4
BSCQCENQ	238		5
BSCQCRRM	240		5
BSCRCNT	296		3
BSCRECRQ	286	10	4
BSCREDIO	0	02	2
BSCRESET	230		4
BSCRLIM	297		3
BSCRPTRD	1B0		4
BSCRREAD	1B8		5
BSCRWNA	1B0		5
BSCRSPA	25A		4
BSCRSPA1	25A		5
BSCRSPA2	25B		5
BSCRVI	25C		4
BSCSEL	262		5
BSCSELEC	262		4
BSCSEL1	262		6
BSCSEL2	263		6
BSCSENIO	0	01	2
BSCSENSE	150		4
BSCSENSV	2A1		3
BSCSERCT	29D		3
BSCSERVL	29C		3
BSCSMCCW	160		5
BSCSMODE	268		4
BSCSNCTR	2A0		3
BSCSNS1	0		1
BSCSREAD	1D8		5
BSCSREOT	1C8		5
BSCRSPL	1D0		5
BSCSTSRD	1C8		4
BSCSTXES	25E		4
BSCSYSUA	2A0		2
BCTCT	0		2
BCTECT	2A3		3
BCTEMP	0		1
BCTEMPS	28D		4
BCTMPER	286	20	4
BCTMPS	28D		3
BCTO	29E	08	4
BCTOCMP	0	01	2
BCTRM	29E	10	4
BCTSNS	1		2
BCT1ADV	24C		5
BCT1XTN	248		4
BCT2XTN	180		5
BCT3ADV	254		5
BCT3XTN	250		4
BSCWPEQ	274		3
ISTBSCLB	0		1

## Basic Transmission Unit (BTU)

<b>Function:</b>	BTU maps the FID0 path information unit involved in communication between the host and communication controller for non-SNA devices. BTU contains TH fields, a basic data unit (BDU), and text.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Included Blocks:</b>	BDU (BTUBDU), TH (BTUTH), RH (BTURH).

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	20	ISTBTU	BASIC TRANSMISSION UNIT	
0	(0)	CHARACTER	10	BTUTH	TRANSMISSION HEADER	
10	(A)	CHARACTER	3	BTURH	REQUEST/RESPONSE HEADER	
13	(D)	CHARACTER	7	BTURU	REQUEST/RESPONSE UNIT	
13	(D)	CHARACTER	7	BTUBDU	BASIC DATA UNIT	
20	(14)	CHARACTER	*	BTUTEXT	NORMAL TEXT	

OVERLAYS FOR FID0 TRANSFORM MAPPING  
 REQUEST TAG FOR FID0 RECORD MODE SUPPORT  
 LOCATION: BTUTH + 6 BYTES

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	*	REQUEST TAG FOR FID0 RECORD MODE SUPPORT	
		1.. ....		BTUSC	SESSION CONTROL BTU	
		.1.. ....		BTUEXRSP	ONLY EXCEPTION RESPONSE REQUESTED	
		..1. ....		BTUPACE	PACING REQUEST	
		...1 ....		BTUBLKRQ	OUTBOUND REQUESTS ARE BLOCKED	
		.... 1..		BTURHQRI	QUEUED REQUEST INDICATOR	
		.... .1..		BTUSACD	STAND ALONE CONTACT OR DISCONNECT	
		.... ..11		*	NOT USED - AVAILABLE	
1	(1)	UNSIGNED	1	BTUSQN	SEQUENCE NUMBER	
0	(0)	STRUCTURE	8	BTUSYSTR	REDEFINITION FOR SYSTEM RESPONSE FLAGS	
		1.. ....		BTUSERR	ERROR RESPONSE INDICATOR	
		.11. ....		BTUPHASE	RESPONSE PHASE CODE	
		...1 1111		BTUSCODE	RESPONSE CODE	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	BTUEXTR	REDEFINITION FOR EXTENDED RESPONSE FLAGS	
		111. ....		BTUXFSTS	EXTENDED STATUS TYPE	
		...1 111.		BTUXFINS	EXTENDED STATUS CODE	
		.... ...1		BTUXLCI	LEADING GRAPHICS INCLUDED	

### 3270 TEXT AREA DEFINITION

20	(14)	STRUCTURE	2	*	INPUT TEXT AREA
20	(14)	CHARACTER	2	BTUIHDNG	TEXT HEADER
22	(16)	CHARACTER	*	BTUIDATA	ACTUAL DATA AREA

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
20	(14)	STRUCTURE	7	BTUISENS	BSC SENSE DATA AREA	
20	(14)	CHARACTER	3	*	'SOH', '%', 'R'	
23	(17)	CHARACTER	2	BTUSHDNG	CONTROL UNIT POLL ADDRESS, DEVICE ADDRESS	
25	(19)	CHARACTER	2	BTUISDTA	SENSE DATA	
25	(19)	BITSTRING	1	BTUISNS1	SENSE BYTE 1	
		11.. ....		*	USED FOR EBCDIC TRANSLATION	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		...1 ....		*	HARDWARE RESERVED
		...1 ....		*	HARDWARE RESERVED
		.... 1...		BTUISCDB	DEVICE BUSY
		.... .1..		BTUISCUS	UNIT SPECIFY
		.... ..1.		BTUISCDE	DEVICE END
		.... ...1		BTUISCTC	TRANSMISSION CHECK
26	(1A)	BITSTRING	1	BTUISNS2	SENSE BYTE 2
		11.. ....		*	USED FOR EBCDIC TRANSLATION
		...1 ....		BTUISCCR	COMMAND REJECT
		...1 ....		BTUISCIR	INTERVENTION REQUIRED
		.... 1...		BTUISCEC	EQUIPMENT CHECK
		.... .1..		BTUISCDC	DATA CHECK
		.... ..1.		BTUISCCC	CONTROL CHECK
		.... ...1		BTUISCOC	OPERATION CHECK
20	(14)	STRUCTURE	15	BTUTEST	TEST MODE DATA
20	(14)	CHARACTER	4	BTUOTCAW	CHANNEL ADDRESS WORD
24	(18)	CHARACTER	8	BTUITCSW	CHANNEL STATUS WORD
32	(20)	CHARACTER	2	BTUITSNS	SENSE DATA
34	(22)	CHARACTER	1	BTUITSIO	START I/O CONDITION CODE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
20	(14)	STRUCTURE	2	*	OUTPUT TEXT AREA
20	(14)	CHARACTER	2	BTUOHNG	DATA HEADER
20	(14)	CHARACTER	1	BTUOESCP	ESCAPE CHARACTER
21	(15)	CHARACTER	1	BTUOFNCD	FUNCTION CODE
22	(16)	CHARACTER	*	BTUODATA	ACTUAL DATA AREA

**Constants**

Len	Type	Value	Name	Description
<b>3270 FUNCTION CODE VALUES</b>				
1	HEX	6F	BTUFCEAU	FUNCTION CODE - ERASE ALL UNPROTECTED
1	HEX	7E	BTUFCEWA	FUNCTION CODE - ERASE/WRITE ALTERNATE
1	HEX	F1	BTUFCWR	FUNCTION CODE - WRITE
1	HEX	F2	BTUFCRDB	FUNCTION CODE - READ BUFFER
1	HEX	F3	BTUFCWSF	FUNCTION CODE - WRITE STRUCTURED FIELD
1	HEX	F5	BTUFCEWR	FUNCTION CODE - ERASE/ WRITE
1	HEX	F6	BTUFCRDM	FUNCTION CODE - READ MODIFIED

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
BTUBDU	D		3	BTUISNS2	1A		3
BTUBLKRQ	0	10	2	BTUITCSW	18		2
BTUEXRSP	0	40	2	BTUITSIO	22		2
BTUEXTR	0		1	BTUITSNS	20		2
BTUIDATA	16		2	BTUODATA	16		2
BTUIHDNG	14		2	BTUOESCP	14		3
BTUISCCC	1A	02	4	BTUOFNCD	15		3
BTUISCCR	1A	20	4	BTUOHNG	14		2
BTUISCDB	19	08	4	BTUOTCAW	14		2
BTUISCDC	1A	04	4	BTUPACE	0	20	2
BTUISCDE	19	02	4	BTUPHASE	0	40	2
BTUISCEC	1A	08	4	BTURH	A		2
BTUISCIR	1A	10	4	BTURHQRI	0	08	2
BTUISCOC	1A	01	4	BTURU	D		2
BTUISCTC	19	01	4	BTUSACD	0	04	2
BTUISCUS	19	04	4	BTUSC	0	80	2
BTUISDTA	19		2	BTUSCODE	0	10	2
BTUISENS	14		1	BTUSERR	0	80	2
BTUISNS1	19		3	BTUSHDNG	17		2

Name	Hex Offset	Hex Value	Level
BTUSQN	1		2
BTUSYSTR	0		1
BTUTEST	14		1
BTUTEXT	14		3
BTUTH	0		2
BTUXFINS	0	10	2
BTUXFSTS	0	80	2
BTUXLCI	0	01	2
ISTBTU	0		1



## Input Parameter List for Calling ISTECA (CAAPL)

<b>Function:</b>	CAAPL maps the input parameter list for ISTECA, which is the session management exit routine for authorization accounting and gateway node path list alteration.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	52 (X'34')
<b>Additional Notes:</b>	See the description of the session management exit routine, ISTECA, in <i>VTAM Customization</i> .

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	52	ISTCAAPL	PARAMETER LIST USED TO CALL ISTECA
0	(0)	ADDRESS	4	CAAPENV	POINTER TO ENVIRONMENT VECTOR(ISTENV)
4	(4)	ADDRESS	4	CAAPFNCP	POINTER TO EXIT FUNCTION CODE(ISTFUNC)
8	(8)	ADDRESS	4	CAAPUDP	POINTER TO A USER DATA FIELD WHICH WILL BE COPIED FROM AND BACK INTO THE ATCVT(ATCUDATA)
12	(C)	ADDRESS	4	CAAPRIC	POINTER TO THE RESOURCE IDENTIFICATION CONTROL VECTOR REPRESENTING THE PLU(ISTRIC)
12	(C)	ADDRESS	4	CAAPOPTS	POINTER TO AN EXIT OPTIONS BYTE WHICH WILL INDICATE FOR WHICH OPTIONS THE EXIT WILL BE CALLED
16	(10)	ADDRESS	4	CAAPSRIC	POINTER TO THE RESOURCE IDENTIFICATION CONTROL VECTOR REPRESENTING THE SLU(ISTRIC)
20	(14)	ADDRESS	4	CAAPSIDP	POINTER TO THE SESSION ID
24	(18)	SIGNED	4	*	RESERVED FOR AUTHORIZATION AND GWN PATH LIST CALLS
24	(18)	ADDRESS	4	CAAPTODP	POINTER TO 8 BYTE TIME OF DAY FOR ACCOUNTING CALLS
28	(1C)	ADDRESS	4	CAAP1GIV	POINTER TO FIRST GATEWAY INFORMATION VECTOR (ISTGIV) FOR GWN IN THE DIRECTION OF THE OLU FOR AUTHORIZATION AND ACCOUNTING
28	(1C)	ADDRESS	4	CAAPGPLP	POINTER TO GATEWAY PATH LIST (ISTGWNPL) FOR GWN PATH SELECTION EXIT

THE FOLLOWING POINTERS ARE RESERVED FOR ALL FUNCTIONS EXCEPT THE GATEWAY PATH LIST AND SSCP REORDER FUNCTIONS

32	(20)	SIGNED	4	*	
32	(20)	ADDRESS	4	CAAP2GIV	POINTER TO SECOND GATEWAY INFORMATION VECTOR (ISTGIV) FOR GWN IN THE DIRECTION OF THE DLU FOR SECONDARY AUTHORIZATION AND ACCOUNTING
36	(24)	ADDRESS	4	CAAOLASP	POINTER TO THE SSCP NAME VECTOR ON THE OLU SIDE OF CALLER
40	(28)	ADDRESS	4	CAADLASP	POINTER TO THE SSCP NAME VECTOR ON THE DLU SIDE OF CALLER
44	(2C)	ADDRESS	4	*	RESERVED
48	(30)	ADDRESS	4	*	RESERVED

## Cross Reference

Name	Hex Offset	Hex Value	Level
CAADLASP	28		2
CAAOLASP	24		2
CAAPENVP	0		2
CAAPFNCP	4		2
CAAPGPLP	1C		3
CAAPOPTS	C		3
CAAPPRIC	C		2
CAAPSIDP	14		2
CAAPSRIC	10		2
CAAPTODP	18		3
CAAPUDP	8		2
CAAP1GIV	1C		2
CAAP2GIV	20		3
ISTCAAPL	0		1

## VTAM Console ID (CID)

<b>Function:</b>	CID maps the contents of the field NCSPLSID in the NCSPL.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	9
<b>Included Blocks:</b>	POHD (CIDPOH)
<b>Located in:</b>	Found in the LMA and POWE.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	9	ISTCID	VTAM CONSOLE ID MAP	
0	(0)	UNSIGNED	1	CIDTYP	CONSOLE ID TYPE (SEE BELOW)	
1	(1)	CHARACTER	4	CIDPOH	PO HDR (CIDTYP = CIDPOA)	
1	(1)	UNSIGNED	1	CIDCID	CONSOLE ID (CIDTYP = CIDSYS)	
5	(5)	ADDRESS	4	CIDDEB	ACDEB ADDR (CIDTYP=CIDPOA)	

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR CONSOLE ID TYPE FIELD (CIDTYP)				
4	DECIMAL	0	CIDSYS	TYPE=SYSTEM CONSOLE
4	DECIMAL	1	CIDPOA	TYPE=PROGRAM OPERATOR APPL
4	DECIMAL	2	CIDURC	TYPE=USE ROUTING CODE (ONLY)
4	DECIMAL	3	CIDCNMA	CNMA CORRELATOR FORMAT

## CID Index Table (CIT)

<b>Function:</b>	The CIT provides a mapping for the VTAM CID index table. The CID index table provides direct access to an FMCB or FMCB extension given a unique session identifier (the CID). It is maintained by the CIDCTL TYPE(CID) functions.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	20	ISTCIT	CID INDEX TABLE - ALLOCATED IN BLOCKS OF ATCCITSZ BYTES, CHAINED BY CITNEXT, BASED FROM ATCCIT	
0	(0)	CHARACTER	20	CITHDR	CIT HEADER	
0	(0)	SIGNED	4	CITNUM	MAXIMUM NUMBER OF CIT ENTRIES IN BLOCK	
4	(4)	SIGNED	4	CITBASE	BASE FOR CID VALUES IN BLOCK	
8	(8)	SIGNED	4	CITCNT	CURRENT COUNT OF ASSIGNED CIT ENTRIES IN BLOCK	
12	(C)	SIGNED	4	CITLAST	LAST CIT INDEX ASSIGNED	
16	(10)	ADDRESS	4	CITNEXT	POINTER TO NEXT CIT BLOCK	
20	(14)	CHARACTER		CITENT	CIT ENTRY AREA	
20	(14)	CHARACTER	8	CITENTRY (*)	CIT ENTRY (INDEXED BY CID VALUE)	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
20	(14)	STRUCTURE		CITFRE	FREE CIT ENTRY OVERLAY AREA	
20	(14)	CHARACTER	8	CITFREE (*)	FREE CIT ENTRY (INDEXED BY CID VALUE)	
20	(14)	UNSIGNED	3	CITZERO	ALL ZEROES FIELD	
23	(17)	UNSIGNED	1	CITREUSE	STORED CID REUSE COUNT	
24	(18)	CHARACTER	4	*	NOT USED - AVAILABLE	
20	(14)	STRUCTURE		CITALC	ALLOCATED CIT ENTRY OVERLAY	
20	(14)	CHARACTER	8	CITALLOC (*)	ALLOCATED CIT ENTRY (INDEXED BY CID VALUE)	
20	(14)	ADDRESS	4	CITFMCB	FMCB/FMCB EXTENSION POINTER	
		1... ....		CITFMCBX	CITFMCB POINTS TO: (0 = AN FMCB) (1 = AN FMCB EXTENSION)	
24	(18)	ADDRESS	4	CITHNTE	HNTE ADDRESS ASSOCIATED WITH THE ELEMENT ADDRESS FOR THIS CIT - USED FOR LOCATING THE HNTE LOCKWORD.	

### Cross Reference

Name	Hex Offset	Hex Value	Level
CITALC	14		1
CITALLOC	14		2
CITBASE	4		3
CITCNT	8		3
CITENT	14		2
CITENTRY	14		3
CITFMCB	14		3
CITFMCBX	14	80	4
CITFRE	14		1
CITFREE	14		2
CITHDR	0		2
CITHNTE	18		3
CITLAST	C		3
CITNEXT	10		3
CITNUM	0		3
CITREUSE	17		3
CITZERO	14		3
ISTCIT	0		1

## Input Parameter List for Calling ISTCPCME (CMEPL)

<b>Function:</b>	CMEPL maps the input parameter list for ISTCPCME, which processes requests to use module ISTECAA, the session management exit routine.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	12 (X'C')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTCMEPL	INPUT PARAMETER LIST USED TO CALL ISTCPCME
0	(0)	ADDRESS	4	CMEPLSIB	POINTER TO THE SIB
4	(4)	CHARACTER	4	*	
4	(4)	UNSIGNED	1	CMEPLFCD	PRIMARY FUNCTION CODE
5	(5)	CHARACTER	3	*	RESERVED
8	(8)	ADDRESS	4	CMEPLGPL	CODE X'04' POINTER TO A GATEWAY PATH LIST CODE X'06' POINTER TO A ADJACENT SSCP NAMELIST (ISTASNL)

### Constants

Len	Type	Value	Name	Description
1	HEX	00	CMEFC00	CONSTANT FOR INITIAL AUTHORIZATION FUNCTION CODE
1	HEX	01	CMEFC01	CONSTANT FOR SECONDARY AUTHORIZATION FUNCTION CODE
1	HEX	02	CMEFC02	CONSTANT FOR INITIAL ACCOUNTING FUNCTION CODE
1	HEX	03	CMEFC03	CONSTANT FOR SECONDARY ACCOUNTING FUNCTION CODE
1	HEX	04	CMEFC04	CONSTANT FOR GATEWAY PATH SELECTION LIST FUNCTION CODE
1	HEX	05	CMEFC05	< H1 > SESSION MANAGEMENT EXIT CALLED FOR HARP SESSION SWITCH PROCESSING
1	HEX	06	CMEFC06	SESSION MANAGEMENT EXIT CALLED FOR ADJACENT SSCP REORDER
1	HEX	FF	CMEFCFF	INDICATE ISTECAA TERMINATION FUNCTION CODE

## Configuration Table (CONF T)

<b>Function:</b>	CONF T describes a configuration of the VTAM network.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ATCCONF T (ATCVT)
<b>Included Blocks:</b>	DBF (CONDBFSA) DYPAB (CONCDYPA, CONCDRMP) LDPRM (CONFTRLA, CONFLDLA, CONFXXLA, CONFPDLA, CONFALLA, CONFTTLA, CONTUNLA, CONFVRLA, CONFPDLA) RAP (CONTOLRA, CONTRCRA, CONUSSRA, CONRVYRA, CONPDLRA) RCDRM (CONSCPRA) RDT (CONVTHRA) RGP (CONGRPRA) RRN (CONPUNRA) SBF (CONXXSBF, where XX indicates type of buffer pool).
<b>Additional Notes:</b>	Primarily updated during VTAM attachment.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	304	ISTCONF T	
0	(0)	CHARACTER	8	CONCONF G	NAME OF CONFIGURATION TABLE
8	(8)	CHARACTER	16	CONRES	RESERVED - NOT USED
24	(18)	CHARACTER	8	CONDMNM	DEVICE MANAGEMENT CONTROL LAYER MODULE NAME
32	(20)	CHARACTER	8	CONFBNM	FEEDBACK PROCESSING ROUTINE MODULE NAME
40	(28)	ADDRESS	4	CONACB	POINTER TO VTAM ACB
44	(2C)	ADDRESS	4	CONCIBAD	POINTER TO COMMAND INPUT BUFFER
48	(30)	ADDRESS	4	*	NOT USED - AVAILABLE
52	(34)	ADDRESS	4	CONNCSLA	NCS PARAMETER LIST ADDRESS
56	(38)	ADDRESS	4	*	RESERVED
60	(3C)	ADDRESS	4	*	NOT USED - AVAILABLE
64	(40)	ADDRESS	4	*	NOT USED - AVAILABLE
68	(44)	ADDRESS	4	*	NOT USED - AVAILABLE
72	(48)	ADDRESS	4	CONSTCIB	POINTER TO START COMMAND CIB
76	(4C)	ADDRESS	4	CONRDBUF	POINTER TO BUFFER USED BY READ ROUTINE
80	(50)	ADDRESS	4	CONLDPRM	POINTER TO ISTLDPRM
84	(54)	ADDRESS	4	CONDCBOA	POINTER TO VTAMLIB DCB
88	(58)	ADDRESS	4	CONDCBLA	POINTER TO VTAMLST DCB
92	(5C)	ADDRESS	4	CONDCBBA	POINTER TO VTAMLIB DCB
96	(60)	ADDRESS	4	CONTPNCS	POINTER TO TPRINT (NOT USED IN VM VTAM)
100	(64)	ADDRESS	4	CONSTAFF	FOOTPRINT FOR NON-PSS STAE ROUTINE FOR VTAM TASK
104	(68)	ADDRESS	4	CONCSCB	POINTER FOR CSCB
108	(6C)	ADDRESS	4	CONSDECB	ECB USED TO POST ISTSDCLM TO RUN SYSDEF I/O CODE
112	(70)	ADDRESS	4	CONSDMLC	POINTER TO SYS DEF PARAMETER LIST ISTMLCA
116	(74)	ADDRESS	4	CONF01SV	POINTER TO HOST ATTACH SAVE AREA
120	(78)	ADDRESS	4	CONCDCRT	POINTER TO ISTCDCRT
124	(7C)	ADDRESS	4	CONINCTO	POINTER TO Istincto
128	(80)	ADDRESS	4	CONHCDRM	POINTER TO HOST CDRM RDTE
132	(84)	ADDRESS	4	CONDCDRM	POINTER TO DUMMY HOST CDRM RDTE
136	(88)	ADDRESS	4	CONECBAA	POINTER TO ECB AREA (CONECBA)
140	(8C)	ADDRESS	4	CONSBFAA	POINTER TO SMS START BUFFERS AREA (CONSBFSA)
144	(90)	ADDRESS	4	CONDBFAA	POINTER TO SMS DEFAULT BUFFERS AREA (CONDBFSA)
148	(94)	ADDRESS	4	CONVTHAA	POINTER TO VTAM RDT HEADER AREA (CONVTHRA)
152	(98)	ADDRESS	4	CONPUNAA	POINTER TO PUNS RDT SEGMENT (CONPUNRA)
156	(9C)	ADDRESS	4	CONTOLAA	POINTER TO APPL RDT AREA FOR SUBTASK CLEANUP (DOS)
160	(A0)	ADDRESS	4	CONTRCAA	POINTER TO APPL RDT AREA FOR TRACE (CONTRCRA)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
164	(A4)	ADDRESS	4	CONPDLAA	POINTER TO APPL RDT AREA FOR LU SUBTASK (CONPDLRA)
168	(A8)	ADDRESS	4	CONUSSAA	POINTER TO APPL RDT AREA FOR USSNOP (CONUSSRA)
172	(AC)	ADDRESS	4	*	NOT USED - AVAILABLE
176	(B0)	ADDRESS	4	CONSCPAA	POINTER TO CDRM RDT AREA FOR SSCP (CONSCPRA)
180	(B4)	ADDRESS	4	CONFDPAA	POINTER TO ATTACH PARAMETER LIST AREA FOR LU SUBTASK (CONFDPAA)
184	(B8)	ADDRESS	4	CONFTRAA	POINTER TO ATTACH PARAMETER LIST AREA FOR TRACE (CONFTRLA)
188	(BC)	ADDRESS	4	CONFLDAA	POINTER TO ATTACH PARAMETER LIST AREA FOR LOAD/DUMP (CONFLDLA)
192	(C0)	ADDRESS	4	CONFXXAA	POINTER TO ATTACH PARAMETER LIST AREA FOR SYS DEF (CONFXXLA)
196	(C4)	ADDRESS	4	CONFTTAA	POINTER TO ATTACH PARAMETER LIST AREA FOR SUBTASK CLEANUP (DOS) (CONFTTLA)
200	(C8)	ADDRESS	4	CONFVRAA	POINTER TO ATTACH PARAMETER LIST AREA FOR VR SELECTION (CONFVRAT)
204	(CC)	ADDRESS	4	CONFLSAA	POINTER TO ATTACH PARAMETER LIST AREA FOR DIRECTED LOAD SUBTASK (CONFLSLA)
208	(D0)	ADDRESS	4	CONTUNAA	POINTER TO ATTACH PARAMETER LIST AREA FOR TUNING STATS TASK (CONTUNLA)
212	(D4)	ADDRESS	4	CONCDPAA	POINTER TO CDRM DYPAB (CONCDYPA)
216	(D8)	ADDRESS	4	*	NOT USED - AVAILABLE
220	(DC)	ADDRESS	4	CONAREAA	POINTER TO CONF AREA (CONVARA)
224	(E0)	ADDRESS	4	*	NOT USED - AVAILABLE
228	(E4)	ADDRESS	4	CONGRPAA	POINTER TO CHANNEL GROUP RDTE
232	(E8)	CHARACTER	8	CONUSSTN	USS TABLE NAME SPECIFIED ON START COMMAND
240	(F0)	CHARACTER	8	CONPROCN	PROCNAME THAT STARTED VTAM
248	(F8)	ADDRESS	4	CONFALAA	POINTER TO ATTACH PARAMETER LIST AREA FOR ACTLINK SUBTASK
252	(FC)	CHARACTER	8	CONIDENT	JOB ID THAT STARTED VTAM
260	(104)	CHARACTER	44	*	NOT USED - AVAILABLE
304	(130)	CHARACTER	*	CONEND	END OF CONFT BASE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3836	CONVARA	
0	(0)	CHARACTER	56	CONAREAS	OTHER VARIABLES
0	(0)	CHARACTER	1	CONFLG01	INIT/TERM FLAGS
		1... ....		CONFSTMT	BIT TO INDICATE SET TIMER
		.1. ....		*	NOT USED - AVAILABLE
		.1. ....		CONFTEXTS	EXITS SCHEDULED FLAG
		...1 ....		CONFNTAC	NO ACTIVE CONNECTIONS FLAG
		.... 1111		*	NOT USED - AVAILABLE
1	(1)	CHARACTER	1	*	NOT USED - AVAILABLE
2	(2)	SIGNED	2	CONBUFSZ	SIZE OF BUFFER USED BY READ ROUTINE
4	(4)	CHARACTER	3	*	NOT USED - AVAILABLE
7	(7)	CHARACTER	1	CONLAST	LAST COMMAND CODE
8	(8)	CHARACTER	1	CONHALT	HALT FLAGS
		1... ....		CONHLTQ	QUICK FLAG
		.1. ....		CONHLTS	SESSION FLAG
		..11 1111		*	NOT USED - AVAILABLE
9	(9)	CHARACTER	1	CONVARY	VARY CODE
10	(A)	CHARACTER	1	CONDISPL	DISPLAY CODE
11	(B)	CHARACTER	1	CONMODFY	MODIFY CODE
12	(C)	CHARACTER	5	CONFLAGS	FLAGS
12	(C)	CHARACTER	1	CONDSFLG	DATA SET FLAGS:
		111. ....		*	NOT - USED AVAILABLE
		...1 ....		CONSYOBJ	SYS1.VTAMOBJ DATA SET IS OPEN
		.... 1..		CONSYLIB	SYS1.VTAMLIB DATA SET IS OPEN
		.... .1..		CONSYLST	SYS1.VTAMLST DATA SET IS OPEN
		.... ..11		*	NOT USED - AVAILABLE
13	(D)	CHARACTER	1	CONOPTFL	OPTIONAL SERVICES FLAGS:
		1... ....		CONWRMST	WARM SPECIFIED ON VTAM START COMMAND
		.111 ....		*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
		.... 1...		CONBUFR	BUFFER TRACE REQUESTED
		.... .1..		CONBTUTR	BTU TRACE
		.... ..1.		CONMODTR	MODULE TRACE
		.... ...1		CONIOTR	I/O TRACE
14	(E)	CHARACTER	1	CONSTAT	RESOURCE STATUS FLAGS:
		11.. ....		*	NOT USED - AVAILABLE
		..1. ....		CONHSTDF	HOST CRDM DEFINED TO VTAM
		...1 ....		CONSTOR	VTAM HAS STORAGE
		.... 1...		CONDSOPN	DATA SETS OPEN
		.... .1..		CONLODED	VTAM ROUTINES LOADED
		.... ..1.		CONVRYIN	NETWORK VARIED IN
		.... ...1		CONACTV	OPERATOR ACTIVE
15	(F)	CHARACTER	2	CONBUFF	BUFFER STATUS FLAGS:
		1... ....		CONSFEX	SMALL FIXED POOL EXISTS
		.1.. ....		CONSPEX	SMALL PAGED POOL EXISTS
		.1. ....		CONLFEX	LARGE FIXED POOL EXISTS
		...1 ....		CONLPEX	LARGE PAGED POOL EXISTS
		.... 1...		CONVFEX	VARIABLE FIXED BUFFER POOL (DOS) EXISTS
		.... .1..		CONVPEX	VARIABLE PAGEABLE BUFFER POOL (DOS) EXISTS
		.... ..1.		CONUECB	UECB POOL EXISTS
		.... ...1		CONIOEX	I/O FIXED POOL EXISTS
		1... ....		CONWPEX	WORKING SET POOL EXISTS
		.1.. ....		CONAPEX	ACE/ICE POOL EXISTS
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1...		CONCRPL	CRPL POOL EXISTS
		.... .111		*	NOT USED - AVAILABLE
17	(11)	CHARACTER	1	*	NOT USED - AVAILABLE
18	(12)	ADDRESS	2	CONMAXPL	MAXAPPL KEYWORD VALUE
20	(14)	CHARACTER	2	CONLIST	TWO CHARACTER STORAGE AREA FOR THE 'LIST=ID' OPERAND ON A START COMMAND (SET AND REFER- ENCED BY THE START COMMAND PROCESSOR <ISTINCCC> )
22	(16)	UNSIGNED	1	CONGLBBH	
23	(17)	CHARACTER	1	*	AVAILABLE
24	(18)	SIGNED	2	CONUNITS	RN HOST BUFFER SIZE (LBUF IN VSE, IOBUF IN VS/1,2)
26	(1A)	CHARACTER	6	CONSCPID	SSCPID
26	(1A)	BITSTRING	1	CONFNCNL	FUNCTION LEVEL
27	(1B)	BITSTRING	1	CONFILL	FILLER
28	(1C)	BITSTRING	1	CONBLKNO	BLOCK NUMBER
29	(1D)	BITSTRING	2	CONSTAID	STATION ID
		.... 1111		CONSTFIL	STATION ID FILLER
30	(1E)	BITSTRING	2	CONSTVAR	VARIABLE PORTION OF SSCP ID
32	(20)	CHARACTER	16	*	NOT USED - AVAILABLE
48	(30)	SIGNED	2	CONDLRVL	CONCURRENT NUMBER OF D/L/R SUBTASKS ALLOWED
50	(32)	CHARACTER	6	*	NOT USED - AVAILABLE
56	(38)	CHARACTER	80	CONDYPA	DYNAMIC PABS
56	(38)	CHARACTER	36	CONCDYPA	CDRM DYPAB
92	(5C)	CHARACTER	4	*	PADDING TO AVOID SKIPS
96	(60)	CHARACTER	36	*	NOT USED
132	(84)	CHARACTER	4	*	PADDING TO AVOID SKIPS
136	(88)	CHARACTER	2632	CONRDTA	RDT SEGMENTS
136	(88)	CHARACTER	160	CONVTHRA	VTAM HEADER RDT (ISTRDTE)
296	(128)	CHARACTER	464	CONSCPRA	SSCP CDRM RDT ENTRY (ISTCDRM)
760	(2F8)	CHARACTER	296	CONTOLRA	RESERVED
1056	(420)	CHARACTER	296	CONTRCRA	APPL RDT ENTRY FOR TERMINATION SUBTASK (ISTRAP)
1352	(548)	CHARACTER	296	CONUSSRA	APPL RDT ENTRY FOR USSNOP (ISTRAP)
1648	(670)	CHARACTER	296	CONPDLRA	APPL RDT ENTRY FOR ISTPOCLU SUBTASK (ISTRAP)
1944	(798)	CHARACTER	296	*	NOT USED - AVAILABLE
2240	(8C0)	CHARACTER	408	CONPUNRA	RDT NCP ENTRY FOR PUNS (ISTRRN)
2648	(A58)	CHARACTER	120	CONGRPRA	RDT CHANNEL GROUP ENTRY (ISTRFP)
2768	(AD0)	CHARACTER	540	CONLDPA	LOAD PARAMETER LISTS
2768	(AD0)	CHARACTER	44	CONFPDLA	ATTACH PARAMETER LIST FOR LU SUBTASK (ISTCDPRM)
2812	(AFC)	CHARACTER	16	CONIAB1	INTERVAL ANALYSIS BLOCK
2828	(B0C)	CHARACTER	44	CONFTRLA	RESERVED



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2872	(B38)	CHARACTER	16	*	INTERVAL ANALYSIS BLOCK
2888	(B48)	CHARACTER	44	CONFLDLA	ATTACH PARAMETER LIST FOR LOAD/DUMP (ISTLOPRM)
2932	(B74)	CHARACTER	16	*	INTERVAL ANALYSIS BLOCK
2948	(B84)	CHARACTER	44	CONFXXLA	ATTACH PARAMETER LIST FOR SYSDEF
2992	(BB0)	CHARACTER	16	*	INTERVAL ANALYSIS BLOCK
3008	(BC0)	CHARACTER	44	CONFTTLA	NOT USED - AVAILABLE
3052	(BEC)	CHARACTER	16	*	INTERVAL ANALYSIS BLOCK
3068	(BFC)	CHARACTER	44	CONFVRLA	ATTACH PARAMETER LIST FOR VIRTUAL ROUTE SELECTION
3112	(C28)	CHARACTER	16	*	INTERVAL ANALYSIS BLOCK
3128	(C38)	CHARACTER	44	CONFALLA	ATTACH PARAMETER LIST FOR ACTLINK SUBTASK
3172	(C64)	CHARACTER	16	*	INTERVAL ANALYSIS BLOCK
3188	(C74)	CHARACTER	44	CONFLSLA	
3232	(CA0)	CHARACTER	16	*	INTERVAL ANALYSIS BLOCK
3248	(CB0)	CHARACTER	44	CONTUNLA	ATTACH PARAMETER LIST FOR TUNING STATISTICS
3292	(CDC)	CHARACTER	16	*	INTERVAL ANALYSIS BLOCK
3308	(CEC)	CHARACTER	40	CONECBA	ECB AREAS
3308	(CEC)	CHARACTER	40	*	
3348	(D14)	CHARACTER	468	CONBUFA	SMS BUFFER AREAS
3348	(D14)	CHARACTER	260	CONSBFSA	
3608	(E18)	CHARACTER	208	CONDBFSA	
3816	(EE8)	CHARACTER	20	*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	36	CONECBL	POINTED TO BY CONECBAA
0	(0)	BITSTRING	4	CONDEACT	ECB FOR DEACTIVATE OF INTELLIGENT CONTROLLER
4	(4)	BITSTRING	4	CONTIMER	ECB FOR TIMER INTERRUPT
8	(8)	BITSTRING	4	CONTERM	ECB FOR VTAM TERMINATOR
12	(C)	BITSTRING	4	CONCDRME	ECB FOR HALT CDRM DEACTIVATE COMPLETE
16	(10)	BITSTRING	4	CONIOECB	ECB FOR HALT IOECB DEACTIVATE COMPLETE
20	(14)	BITSTRING	4	CONGRECB	ECB FOR FIRST GROUP TERMINATION
24	(18)	BITSTRING	4	CONAPPLE	ECB FOR HALT APPL DEACTIVATE COMPLETE
28	(1C)	BITSTRING	4	CONECDET	ECB FOR SUBTASK COMPLETION
32	(20)	BITSTRING	4	CONCAECB	HALT ECB FOR CA SEGMENT DEACTIVATION

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	260	CONSBFA	POINTED TO BY CONSBFAA
0	(0)	CHARACTER	20	CONSFBSF	SMALL FIXED LIST
20	(14)	CHARACTER	20	CONSPSBF	SMALL PAGEABLE LIST
40	(28)	CHARACTER	20	CONLFSBF	LARGE FIXED LIST
60	(3C)	CHARACTER	20	CONLPSBF	LARGE PAGEABLE LIST
80	(50)	CHARACTER	20	CONVFSBF	VARIABLE LENGTH FIXED LIST
100	(64)	CHARACTER	20	CONVPSBF	VARIABLE-LENGTH PAGEABLE LIST
120	(78)	CHARACTER	20	CONUESBF	UECB LIST
140	(8C)	CHARACTER	20	CONIOSBF	I/O FIXED LIST
160	(A0)	CHARACTER	20	CONWPSBF	WORKING SET POOL LIST
180	(B4)	CHARACTER	20	CONAPSBF	ACE/ICE POOL LIST
200	(C8)	CHARACTER	20	*	RESERVED
220	(DC)	CHARACTER	20	*	RESERVED
240	(F0)	CHARACTER	20	CONCRPLS	CRPL POOL LIST

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	208	CONDBFA	
0	(0)	CHARACTER	16	CONSFDBF	SMALL FIXED LIST
16	(10)	CHARACTER	16	CONSPDBF	SMALL PAGEABLE LIST
32	(20)	CHARACTER	16	CONLFDBF	LARGE FIXED LIST
48	(30)	CHARACTER	16	CONLPDBF	LARGE PAGEABLE LIST
64	(40)	CHARACTER	16	CONVFDBF	VARIABLE LENGTH FIXED LIST

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
80	(50)	CHARACTER	16	CONVPDBF	VARIABLE-LENGTH PAGEABLE LIST
98	(60)	CHARACTER	16	CONUEDBF	UECB LIST
112	(70)	CHARACTER	16	CONIODBF	I/O FIXED LIST
128	(80)	CHARACTER	16	CONWPDBF	WORKING SET POOL LIST
144	(90)	CHARACTER	16	CONAPDBF	ACE/ICE POOL LIST
160	(A0)	CHARACTER	16	*	RESERVED
176	(B0)	CHARACTER	16	*	RESERVED
192	(C0)	CHARACTER	16	CONCRPLD	CRPL POOL LIST

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CONACB	28		2	CONFLSAA	CC		2
CONACTV	E	01	5	CONFLSLA	C74		3
CONAPDBF	90		2	CONFPDAA	B4		2
CONAPEX	10	40	5	CONFPLA	AD0		3
CONAPPLE	18		2	CONFTEXTS	0	20	4
CONAPSBF	B4		2	CONFTRAC	0	10	4
CONAREAA	DC		2	CONFTRAA	B8		2
CONAREAS	0		2	CONFTRLA	B0C		3
CONBLKNO	1C		4	CONFSTM	0	80	4
CONBTUTR	D	04	5	CONFTTAA	C4		2
CONBUFA	D14		2	CONFTTLA	BC0		3
CONBUFF	F		4	CONFVRAA	C8		2
CONBUFSZ	2		3	CONFVRLA	BFC		3
CONBUFTR	D	08	5	CONFXXAA	C0		2
CONCAECB	20		2	CONFXXLA	B84		3
CONCDCRT	78		2	CONF01SV	74		2
CONCDPAA	D4		2	CONGLBBH	16		3
CONCDRME	C		2	CONGRECB	14		2
CONCDYPA	38		3	CONGRPAA	E4		2
CONCIBAD	2C		2	CONGRPRA	A58		3
CONCONFG	0		2	CONHALT	8		3
CONCRPL	10	08	5	CONHCDRM	80		2
CONCRPLD	C0		2	CONHLTQ	8	80	4
CONCRPLS	F0		2	CONHLTS	8	40	4
CONCSCB	68		2	CONHSTDF	E	20	5
CONDBFA	0		1	CONIAB1	AFC		3
CONDBFAA	90		2	CONIDENT	FC		2
CONDBFSA	E18		3	CONINCTO	7C		2
CONDCBBA	5C		2	CONIODBF	70		2
CONDCBLA	58		2	CONIOECB	10		2
CONDCBOA	54		2	CONIOEX	F	01	5
CONDCDRM	84		2	CONIOSBF	8C		2
CONDEACT	0		2	CONIOTR	D	01	5
CONDISPL	A		3	CONLAST	7		3
CONDLRVL	30		3	CONLDPA	AD0		2
CONDMNM	18		2	CONLDPRM	50		2
CONDSFLG	C		4	CONLFDBF	20		2
CONDSOPN	E	08	5	CONLFEX	F	20	5
CONDYPA	38		2	CONLFSBF	28		2
CONECBA	CEC		2	CONLIST	14		3
CONECBAA	88		2	CONLODED	E	04	5
CONECBL	0		1	CONLPDBF	30		2
CONECDET	1C		2	CONLPEX	F	10	5
CONEND	130		2	CONLPSBF	3C		2
CONFALAA	F8		2	CONMAXPL	12		3
CONFALLA	C38		3	CONMODFY	B		3
CONFBNPM	20		2	CONMODTR	D	02	5
CONFBNL	1A		4	CONNCSLA	34		2
CONFILL	1B		4	CONOPTFL	D		4
CONFAGS	C		3	CONPDLAA	A4		2
CONFLDAA	BC		2	CONPDLRA	670		3
CONFLDLA	B48		3	CONPROCN	F0		2
CONFLG01	0		3	CONPUNAA	98		2

Name	Hex Offset	Hex Value	Level
CONPUNRA	8C0		3
CONRDBUF	4C		2
CONRDTA	88		2
CONRES	8		2
CONSBFA	0		1
CONSBFAA	8C		2
CONSBFSA	D14		3
CONSCPAA	B0		2
CONSCPID	1A		3
CONSCPRA	128		3
CONSDECB	6C		2
CONSDMLC	70		2
CONSFDBF	0		2
CONSFEX	F	80	5
CONSFSBF	0		2
CONSPDBF	10		2
CONSPEX	F	40	5
CONSPSBF	14		2
CONSTAFP	64		2
CONSTAID	1D		4
CONSTAT	E		4
CONSTCIB	48		2
CONSTFIL	1D	08	5
CONSTOR	E	10	5
CONSTVAR	1E		5
CONSYLIB	C	08	5
CONSYLST	C	04	5
CONSYOBJ	C	10	5
CONTERM	8		2
CONTIMER	4		2
CONTOLAA	9C		2
CONTOLRA	2F8		3
CONTPNCS	60		2
CONTRCAA	A0		2
CONTRCRA	420		3
CONTUNAA	D0		2
CONTUNLA	CB0		3
CONUECB	F	02	5
CONUEDBF	60		2
CONUESBF	78		2
CONUNITS	18		3
CONUSSAA	A8		2
CONUSSRA	548		3
CONUSSTN	E8		2
CONVARA	0		1
CONVARY	9		3
CONVFDBF	40		2
CONVFEX	F	08	5
CONVFSBF	50		2
CONVPDBF	50		2
CONVPEX	F	04	5
CONVPSBF	64		2
CONVRYIN	E	02	5
CONVTHAA	94		2
CONVTHRA	88		3
CONWPDBF	80		2
CONWPEX	10	80	5
CONWPSBF	A0		2
CONWRMST	D	80	5
ISTCONFT	0		1

## CONVID Index Table (CONVT)

<b>Function:</b>	CONVT provides a mapping for the VTAM CONVID index table.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Additional Notes:</b>	The CONVID index table (CONVT) provides direct access to an LU 6.2 conversation control block (RAB) given a unique conversation identifier (CONVID). This table is maintained by the CIDCTL TYPE (CONVID) functions.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	20	ISTCONVT	CONVID INDEX TABLE - ALLOCATED IN BLOCKS OF ATCCITSZ BYTES, CHAINED BY CONVNEXT, BASED FROM ATCCONVT	
0	(0)	CHARACTER	20	CONVHDR	CONVT HEADER	
0	(0)	SIGNED	4	CONVNUM	MAXIMUM NUMBER OF CONVT ENTRIES IN TABLE	
4	(4)	SIGNED	4	CONVBASE	BASE FOR CONVT VALUES IN TABLE	
8	(8)	SIGNED	4	CONVCNT	CURRENT COUNT OF ASSIGNED CONVT ENTRIES IN TABLE	
12	(C)	SIGNED	4	CONVLAST	LAST CONVT INDEX ASSIGNED	
16	(10)	ADDRESS	4	CONVNEXT	POINTER TO NEXT CONVT TABLE	
20	(14)	CHARACTER		CONVENT	CONVT ENTRY AREA	
20	(14)	CHARACTER	8	CONVENTR (*)	CONVT ENTRY (INDEXED BY CONVID VALUE)	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
20	(14)	STRUCTURE		CONVFRE	FREE CONVENTR OVERLAY AREA	
20	(14)	CHARACTER	8	CONVFREE (*)	FREE CONVT ENTRY (INDEXED BY CONVID VALUE)	
20	(14)	UNSIGNED	3	CONVZERO	ALL ZEROS FIELD	
23	(17)	UNSIGNED	1	CONVREUS	STORED CONVID REUSE COUNT	
24	(18)	CHARACTER	4	*	NOT USED - AVAILABLE	
20	(14)	STRUCTURE		CONVALC	ALLOCATED CONVT ENTRY OVERLAY	
20	(14)	CHARACTER	8	CONVALLO (*)	ALLOCATED CONVT ENTRY (INDEXED BY CONVID VALUE)	
20	(14)	ADDRESS	4	CONVRAB	RAB POINTER	
24	(18)	ADDRESS	4	CONVHNT	HNT ADDRESS ASSOCIATED WITH THE ELEMENT ADDRESS FOR THIS CONVID - USED FOR LOCATING THE APPC HNT LOCKWORD	

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CONVALC	14		1	ISTCONVT	0		1
CONVALLO	14		2				
CONVBASE	4		3				
CONVCNT	8		3				
CONVENT	14		2				
CONVENTR	14		3				
CONVFRE	14		1				
CONVFREE	14		2				
CONVHDR	0		2				
CONVHNT	18		3				
CONVLAST	C		3				
CONVNEXT	10		3				
CONVNUM	0		3				
CONVRAB	14		3				
CONVREUS	17		3				
CONVZERO	14		3				

## Class-of-Service Control Block (COS)

<b>Function:</b>	COS maps the class-of-service table, a user-created table that defines classes of service for sessions. A class of service consists of a virtual route indicator and a transmission priority.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	RRNSFCOS (RRN). The table ISTSDCOS, if generated, is pointed to by ATCSDCOS.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTCOS	
0	(0)	CHARACTER	1	COSCBID	CONTROL BLOCK ID
1	(1)	UNSIGNED	1	COSHDLEN	HEADER LENGTH
2	(2)	UNSIGNED	2	COSNOENT	NUMBER OF ENTRIES

HEADER AND NAME FOR CLASS-OF-SERVICE TABLE ENTRIES

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTCOSX	
0	(0)	UNSIGNED	2	COSENTLN	LENGTH OF THIS ENTRY
2	(2)	CHARACTER	2	COSRSV01	AVAILABLE
4	(4)	CHARACTER	8	COSNAME	CLASS OF SERVICE NAME
12	(C)	CHARACTER	*	COSPAIRS	ROUTE/PRIORITY PAIR VALUES

ROUTE AND PRIORITY PAIRS FOR CLASS-OF-SERVICE TABLE

0	(0)	STRUCTURE	2	COSVRTP	
0	(0)	CHARACTER	1	COSRTE01	VIRTUAL ROUTE NUMBER
1	(1)	CHARACTER	1	COSPRI01	TRANSMISSION PRIORITY NUMBER

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR CLASS-OF-SERVICE TABLE				
1	HEX	BF	COSCBIDC	

### Cross Reference

Name	Hex Offset	Hex Value	Level
COSCBID	0		2
COSENTLN	0		2
COSHDLEN	1		2
COSNAME	4		2
COSNOENT	2		2
COSPAIRS	C		2
COSPRI01	1		2
COSRSV01	2		2
COSRTE01	0		2
COSVRTP	0		1
ISTCOS	0		1
ISTCOSX	0		1

## Control Point Control Block Prefix (CPCB)

<b>Function:</b>	CPCB is a work element used to schedule a process. For example, configuration services may use a CPCB to process inoperative requests. The CPCB may also be used as a prefix to a control point control block.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	64 (X'40')
<b>Located in:</b>	May be found as a prefix to the DLRPL, NCSPL, PPL, and RUPE.
<b>Included Blocks:</b>	WTD (CPCBTD)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	ISTCPCB	CONTROL POINT CONTROL BLOCK PREFIX
0	(0)	UNSIGNED	1	CPCBID	CONTROL BLOCK ID--SEE ISTCPK
1	(1)	UNSIGNED	1	CPCBLN	CONTROL BLOCK LENGTH
2	(2)	BITSTRING	1	CPCBFL	CONTROL BLOCK FLAGS
		1... ....		CPCBST	STATIC FLAG
		.1.. ....		CPCBRS	REQSTORED
		..1. ....		CPCBPV	PRIVATE STORAGE
		...1 ....		CPCBXN	TPEXIT NONE FLAG
		.... 1...		CPCBIB	INBOUND (REPLY)
		.... .1..		CPCBDX	DEFER EXIT
		.... ..1.		CPCBXC	CPXCTL FUNCTION FLAG
		.... ...1		CPCBNW	CPCALL NO WAIT FUNCTION FLAG
3	(3)	UNSIGNED	1	CPCBRC	RETURN CODE FIELD--SEE ISTCPK
4	(4)	CHARACTER	12	CPCBTO	AREA FOR OUTBOUND WTD
4	(4)	ADDRESS	4	CPCBQP	POINTER TO CONTROL BLOCK QUEUE
8	(8)	CHARACTER	4	*	AREA FOR WTD TYP
12	(C)	CHARACTER	4	*	AREA FOR WTD R13
16	(10)	CHARACTER	12	CPCBTD	A WHAT-TO-DO (SEE WTD)
16	(10)	ADDRESS	4	*	TELLS HOW TO RETURN
		1... ....		CPCBFA	FREE CPCB AFTER CPCALL FUNCTION IS COMPLETE
20	(14)	CHARACTER	4	*	OVERLAY AREA FOR WTD TYP
24	(18)	ADDRESS	4	CPCBPH	POINTER TO CURRENT RPH
24	(18)	ADDRESS	4	CPCB13	TO PASS REGISTER 13 FOR INBOUND REPLY
28	(1C)	BITSTRING	4	CPCBOPC	CONTROL POINT OP CODE--SEE ISTCPK
28	(1C)	BITSTRING	1	CPCBCAT	CATEGORY
29	(1D)	BITSTRING	3	CPCBFMH	FM HEADER (NS HEADER)
32	(20)	ADDRESS	4	CPCBUSR	CPCB USER FIELD
36	(24)	CHARACTER	17	CPCBURC	USER REQUEST CORRELATOR
36	(24)	CHARACTER	8	CPCBNAME	USER REQUEST CORRELATOR NAME FIELD
44	(2C)	CHARACTER	9	CPCBUDTA	USER REQUEST CORRELATOR DATA FIELD
53	(35)	UNSIGNED	1	CPCBMNR	MINOR RETURN CODE
54	(36)	CHARACTER	1	CPCBFL2	FLAG BYTE
		1... ....		CPCBNOCS	1 = NON-CONFIG SVCS RUPEURC
		.1.. ....		CPCBNT	1 = NOTRACE SPECIFIED
		..1. ....		CPCBSAVE	CPCALL SAVEWKE FUNCTION FLAG
		...1 ....		CPCBAWAT	1 = ASYNCHRONOUS WAIT HAS OCCURRED
		.... 11..		CPCBROUT	SSCP ROUTE CODE
		.... ..11		*	UNUSED-AVAILABLE
55	(37)	CHARACTER	9	CPCBCON	CONSOLE IDENTIFIER (OR POI HEADER)

OVERLAYS OF CPCBUDTA PART OF CPCBURC FIELD TO ASSURE CONSISTANT USE AMONG THE DIFFERENT COMPONENTS THAT USE THE CPCBURC FIELD.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	9	CPCEID	EVENT ID MAP
44	(2C)	UNSIGNED	1	CPCBIDL	EVENT ID LENGTH (MAX = 8)
45	(2D)	CHARACTER	8	CPCBEVI	EVENT ID

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	9	CPCSSIO	SESSION SERVICES USE
44	(2C)	UNSIGNED	1	CPCBFORM	REQUEST FORMAT
45	(2D)	CHARACTER	8	CPCBPCID	PCID FOR SESSION

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	9	CPCQLNAM	QUALIFY NAME MAP
44	(2C)	CHARACTER	1	CPCBUTYP	TYPE FIELD
45	(2D)	CHARACTER	8	CPCBUNET	NET ID
44	(2C)	STRUCTURE	9	CPCSCVRU	PATH SCV RU MAP
44	(2C)	CHARACTER	1	*	TYPE FIELD
45	(2D)	CHARACTER	8	CPCBUPTH	NCP PATH NAME

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	9	CPCNETAD	NETWORK ADDRESS MAP
44	(2C)	CHARACTER	1	CPCBUREQ	REQUEST TYPE FIELD
45	(2D)	CHARACTER	6	CPCBDAF	DEST NETWORK ADDRESS
51	(33)	CHARACTER	2	*	RESERVED
44	(2C)	STRUCTURE	9	CPCSPCNT	SPIN COUNT OVERLAY
44	(2C)	CHARACTER	2	CPCBSPIN	SPIN COUNT
46	(2E)	CHARACTER	7	*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	9	CPCILCOR	INITLOAD CORRELATOR OVERLAY
44	(2C)	CHARACTER	4	CPCBICOR	INITLOAD CORRELATOR
48	(30)	CHARACTER	5	*	RESERVED
44	(2C)	STRUCTURE	9	CPCRNAA	RNAA/FNA CORRELATOR OVERLAY
44	(2C)	CHARACTER	4	CPCRNCOR	CORRELATOR FIELD
48	(30)	CHARACTER	2	CPCRNALS	ALS ELEMENT ADDRESS
50	(32)	CHARACTER	2	CPCRNFLG	FLAG BYTES
		1... ..		CPCRNCOMP	COMPONENT INDICATOR 0 = RNAA FROM CONFIG SERVICES 1 = RNAA FROM ADDRESS MANAGMENT
		.1.. ....		CPCRNADD	ADDRESS TO ALLOCATE 0 = ALLOCATE SLU ADDRESS 1 = ALLOCATE PLU ADDRESS
		..1. ....		CPCSSREQ	SESS SERVICES FNA REQ
		...1 ....		CPCDURES	DELETE DUPLICATE RESOURCE
		.... 1111		CPCRNDRT	DR TYPE INDICATOR X'0' - ADD X'1' - MOVE
		1111 ....		CPCRNENA	ENA CAPABILITY X'0' - PRE-ENA ADDRESS REQUIRED X'1' - ENA COMPATIBLE PREFERRED X'2' - PRE-ENA COMPATIBLE ADDRESS PREFERRED
		.... 1111		CPCNRV1	RESERVED
52	(34)	CHARACTER	1	CPCNRV2	RESERVED

THE FOLLOWING OVERLAY OF BYTE 9 OF CPCBURC IS DEFINING AN AVAILABLE BIT WITHIN THE DACTTRACE TYPE BYTE TO BE USED AS NS INDICATOR OF A F NOTRACE, ID=NCPNAME, SCOPE=ALL COMMAND. THE BIT WILL BE USED BY THE DACTTRACE RESPONSE PROCESSOR TO DETERMINE IF SCOPE=ALL WAS SPECIFIED AND WILL BE TURNED OFF WITHIN THE ACTUAL ATRTYPE BYTE IN THE DACTTRACE RU PRIOR TO BEING SENT TO THE NCP. A REDIFINITION OF ATRTYPE USING THE BIT WILL MAKE A RECODING OF THIS INTERFACE NECESSARY.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	CPCSCPOL	SCOPE OVERLAY
		11.. ....		*	RESERVED
		..1. ....		CPCBSCOP	SCOPE=ALL INDICATOR
		...1 1111		*	RESERVED
44	(2C)	STRUCTURE	9	CPCDSLIN	DOWNSTREAM LINE MAP

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	CHARACTER	1	CPCBTRAC	TYPE FIELD
45	(2D)	CHARACTER	8	CPCBDSLN	DOWNSTREAM LINE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	9	CPCSESRV	SESSION SERVICES EVENT ID MAP
44	(2C)	CHARACTER	1	CPCBSETP	EVENT ID SESSION TYPE
45	(2D)	CHARACTER	8	CPCBSEID	EVENT ID
44	(2C)	STRUCTURE	9	CPCBUDTK	TRANSLATE KEY TARGET MAP
44	(2C)	CHARACTER	8	CPCBTRKY	AREA FOR TRANSLATED KEY
52	(34)	CHARACTER	1	*	UNUSED-AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	STRUCTURE	9	CPCBPRDP	PURGE DUMP REQUEST OVERLAY
44	(2C)	CHARACTER	4	CPCBPRG	PURGE DUMP REQUEST
48	(30)	ADDRESS	4	CPCBWKE	WORK ELEMENT
52	(34)	CHARACTER	1	*	NOT USED - AVAILABLE
44	(2C)	STRUCTURE	9	CPCMGURC	MANAGEMENT SERVICES USER REQUEST CORRELATOR
44	(2C)	ADDRESS	4	CPCBRUPE	ASSOCIATED RUPE
48	(30)	UNSIGNED	2	CPCBPRID	VTAM PRID
50	(32)	CHARACTER	3	*	NOT USED - AVAILABLE

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR CPCBROUT - SSCP ROUTE CODE				
0	BIT	00	CPCBRTCS	ROUTE TO CONFIG SERVICES
0	BIT	11	CPCBRTSS	ROUTE TO SESSION SERVICES
0	BIT	10	CPCBRTMS	ROUTE TO MANAGEMENT SERVICES

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CPCBAWAT	36	10	3	CPCBPRG	2C		2
CPCBCAT	1C		3	CPCBPRID	30		2
CPCBCON	37		2	CPCBPV	2	20	3
CPCBDAF	2D		2	CPCBQP	4		3
CPCBDSLN	2D		2	CPCBRC	3		2
CPCBDX	2	04	3	CPCBROUT	36	08	3
CPCBEVI	2D		2	CPCBRS	2	40	3
CPCBFA	10	80	4	CPCBRUPE	2C		2
CPCBFL	2		2	CPCBSAVE	36	20	3
CPCBFL2	36		2	CPCBSCOP	0	20	2
CPCBFMH	1D		3	CPCBSEID	2D		2
CPCBFORM	2C		2	CPCBSETP	2C		2
CPCBIB	2	08	3	CPCBSPIN	2C		2
CPCBICOR	2C		2	CPCBST	2	80	3
CPCBID	0		2	CPCBTD	10		2
CPCBIDL	2C		2	CPCBTO	4		2
CPCBLN	1		2	CPCBTRAC	2C		2
CPCBMNR	35		2	CPCBTRKY	2C		2
CPCBNAME	24		3	CPCBUDTA	2C		3
CPCBNOCS	36	80	3	CPCBUDTK	2C		1
CPCBNT	36	40	3	CPCBUNET	2D		2
CPCBNW	2	01	3	CPCBUPTH	2D		2
CPCBOPC	1C		2	CPCBURC	24		2
CPCBPCID	2D		2	CPCBUREQ	2C		2
CPCBPH	18		3	CPCBUSR	20		2
CPCBPRDP	2C		1	CPCBUTYP	2C		2



Name	Hex Offset	Hex Value	Level
CPCBWKE	30		2
CPCBXC	2	02	3
CPCBXN	2	10	3
CPCB13	18		4
CPCDSLIN	2C		1
CPCDURES	32	10	3
CPCEID	2C		1
CPCILCOR	2C		1
CPCMGURC	2C		1
CPCNETAD	2C		1
CPCQLNAM	2C		1
CPCRNAA	2C		1
CPCRNADD	32	40	3
CPCRNALS	30		2
CPCRNCMP	32	80	3
CPCRNCOR	2C		2
CPCRNDRT	32	08	3
CPCRNENA	33	80	3
CPCRNFLG	32		2
CPCRNRV1	33	08	3
CPCRNRV2	34		2
CPCSCPOL	0		1
CPCSCVRU	2C		1
CPCSESRV	2C		1
CPCSPCNT	2C		1
CPCSSIO	2C		1
CPCSSREQ	32	20	3
ISTCPCB	0		1

## Control Point Component Recovery Record (CPCRR)

<b>Function:</b>	SSCP, CDRM, and PUNS use the CPCRR as a work area. The base section (ISTCPCRR) is used to send a USS message or a negative response with a USS message when no storage is available.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	627 (X'273')
<b>Located in:</b>	Found in the CRA.
<b>Included Blocks:</b>	RUPE (CPCRUPE) - RUPE to send response TSCB (CPCTSCB) GTNCS (CPCGTNCS) TPMPPL (CPCTPMPL, CPCRTMPMP).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	627	ISTCPCRR	CONTROL POINT CRR
0	(0)	CHARACTER	16	CPCPFX	PREFIX FOR CRR
16	(10)	CHARACTER	132	CPCRUPE	RUPE TO SEND RESPONSE
148	(94)	CHARACTER	72	CPCRSA1	REGISTER SAVE AREA 1
220	(DC)	CHARACTER	72	CPCRSA2	REGISTER SAVE AREA 2
292	(124)	CHARACTER	68	CPCTSCB	TSCB FOR TPIOS INTERFACE
360	(168)	CHARACTER	267	CPCMSGBF	USS MESSAGE BUFFER
360	(168)	SIGNED	2	CPCMSGLN	LENGTH OF MESSAGE DATA
362	(16A)	CHARACTER	265	CPCMSGTX	TEXT OF USS MESSAGES

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
292	(124)	STRUCTURE	116	CPCOVLAY	OVERLAY FOR ISTINCYS
292	(124)	CHARACTER	72	CPCRSA3	REGISTER SAVE AREA 3
364	(16C)	CHARACTER	8	CPCGTNCS	GET/FREE NCSPL PARAMETER LIST
372	(174)	CHARACTER	36	CPCTPMPL	TPMSG PARAMETER LIST-- SEE TPMPPL

-----  
 ISTPUCRT OVERLAY  
 -----

0	(0)	STRUCTURE	120	CPCRTOVL	PUCRT OVERLAY
0	(0)	SIGNED	4	CPCRTFSA	SUBAREA NUMBER FOR MACROS
4	(4)	UNSIGNED	1	CPCRTERN	ER NUMBER TO SEND I/O
5	(5)	CHARACTER	1	CPCRTFLG	FLAGS
		1... ....		CPCRTRSP	OK TO SEND RESPONSE
		.1.. ....		CPCRT531	NEED TO ISSUE MESSAGE 531I
		..11 1111		*	AVAILABLE
6	(6)	CHARACTER	62	CPCRTMSG	VARIABLE MESSAGE TEXT
68	(44)	CHARACTER	36	CPCRTMPMP	TPMSG PARAMETER LIST-- SEE TPMPPL
104	(68)	CHARACTER	16	CPCRTPLA	

**Cross Reference**

Name	Hex Offset	Hex Value	Level
CPCGTNCS	16C		2
CPCMSGBF	168		2
CPCMSGLN	168		3
CPCMSGTX	16A		3
CPCOVLAY	124		1
CPCPFX	0		2
CPCRSA1	94		2
CPCRSA2	DC		2
CPCRSA3	124		2
CPCRTERN	4		2
CPCRTFLG	5		2
CPCRTFSA	0		2
CPCRTMSG	6		2
CPCRTOVL	0		1
CPCRTPLA	68		2
CPCRTPMP	44		2
CPCRTRSP	5	80	3
CPCRT531	5	40	3
CPCRUPE	10		2
CPCTPMPL	174		2
CPCTSCB	124		2
ISTCPCRR	0		1

## Control Point Constants (CPK)

**Function:** CPK defines control point constants used in SSCP processing.

### Constants

Len	Type	Value	Name	Description
<b>CONSTANTS FOR CPCBID (CONTROL POINT CONTROL BLOCK I.D.)</b>				
1	HEX	50	CPKDLRPL	CONTROL BLOCK = ISTDLRPL
1	HEX	54	CPKRUPE	CONTROL BLOCK = ISTRUPE
1	HEX	57	CPKPPL	CONTROL BLOCK = ISTPPL
1	HEX	58	CPKTQE	CONTROL BLOCK = ISTTQE
1	HEX	5F	CPKCPCB	CONTROL BLOCK = ISTCPCB
1	HEX	60	CPKNCSPL	CONTROL BLOCK = ISTNCSPL
1	HEX	6A	CPKNOSPL	CONTROL BLOCK = ISTNOSPL
1	HEX	79	CPKMFT	CONTROL BLOCK = ISTMFT
1	HEX	7A	CPKFILTR	CONTROL BLOCK = ISTFILTR
<b>NON-CPCB CONTROL BLOCK IDS</b>				
1	HEX	5A	CPKPRQAB	CONTROL BLOCK = ISTRQAB
1	HEX	5B	CPKPRBLK	CONTROL BLOCK = ISTRBLK
1	HEX	98	CPKSIB	CONTROL BLOCK = ISTSIB
<b>CONSTANTS FOR CPCBOPC - CONTROL POINT OP CODE</b>				
1	HEX	00	CPKCMD	OPERATOR COMMAND
1	HEX	01	CPKDLR	DUMP/LOAD/RESTART REQUEST
1	HEX	02	CPKIOPRG	I/O PURGE REQUEST
1	HEX	03	CPKTMR	TIMER MANAGEMENT REQUEST
1	HEX	04	CPKUSSRU	UNFORMATTED (FMD) REQUEST
1	HEX	08	CPKFMDRU	FMD REQUEST UNIT
1	HEX	09	CPKNCRU	NC REQUEST UNIT
1	HEX	0A	CPKDFCRU	DFC REQUEST UNIT
1	HEX	0B	CPKSCRU	SC REQUEST UNIT
1	HEX	0C	CPKFMDAM	FMD ACCESS METHOD RU
1	HEX	0D	CPKNCAM	NC ACCESS METHOD RU
1	HEX	0E	CPKDFCAM	DFC ACCESS METHOD RU
1	HEX	0F	CPKSCAM	SC ACCESS METHOD RU
<b>CONSTANTS FOR USER REQUEST CORRELATION (CPCBUREQ)</b>				
1	HEX	01	CPKPDUMP	PURGED DUMP
<b>VARY COMMANDS</b>				
4	HEX	00010000	CPKVARY	VARY COMMAND
4	HEX	00010001	CPKVACT	VARY ACTIVATE
4	HEX	00010002	CPKVDEA	VARY INACTIVATE
4	HEX	00010004	CPKVLON	VARY LOGON
4	HEX	00010005	CPKVALO	VARY ACT + LOGON
4	HEX	00010008	CPKVDRDS	VARY DRDS
4	HEX	00010012	CPKVDEI	VARY INACT IMM
4	HEX	00010032	CPKVDII	VARY INACT IMM(INT)
4	HEX	00010040	CPKVANS	VARY ANS
4	HEX	00010041	CPKACTAN	VARY ACT + ANS
4	HEX	00010045	CPKACTAL	VARY ACT + ANS + LOGON
4	HEX	00010080	CPKVHGUP	VARY HANGUP
4	HEX	00010100	CPKVPUSE	VARY PATH=USE
4	HEX	00010200	CPKVPNUS	VARY PATH=NOUSE
4	HEX	00010400	CPKVINOP	VARY INOP
4	HEX	00010802	CPKVFORC	FORCED DEACTIVATE
4	HEX	00011002	CPKVRACT	FORCED REACTIVATE
4	HEX	00011802	CPKVGVBK	VARY INACT GIVEBACK
4	HEX	00012000	CPKVACQ	VARY ACQUIRE
4	HEX	00012001	CPKACQAC	VARY ACT + ACQUIRE
4	HEX	00012002	CPKVDSON	INACTIVATE (SON)

Len	Type	Value	Name	Description
4	HEX	00012005	CPKACQAL	VARY ACT + ACQ + LOGON
4	HEX	00014000	CPKVREL	VARY RELEASE
4	HEX	00014010	CPKRELIM	VARY RELEASE IMM
4	HEX	00014012	CPKRELGB	VARY RELEASE GIVEBACK
4	HEX	00018000	CPKVDIAL	VARY DIAL
4	HEX	00018004	CPKVNLOL	VARY NOLOGON
<hr/>				
MODIFY COMMANDS				
<hr/>				
4	HEX	00020001	CPKMDUM	MODIFY DUMP 370X
4	HEX	00020002	CPKMENCR	MODIFY FEATURE(02)
4	HEX	00020004	CPKMCHA	MODIFY CHANGE
4	HEX	00020010	CPKMTBL	MODIFY TABLE
4	HEX	000200A0	CPKMACUT	MODIFY TRACE,NETCNTR
4	HEX	000200C0	CPKMDCUT	MODIFY NOTRACE,NETCNTR
4	HEX	00020120	CPKMAGPT	MODIFY ACT GENERALIZED P/U TRACE
4	HEX	00020140	CPKMDGPT	MODIFY DACT GENERALIZED P/U TRACE
4	HEX	00020180	CPKMADD	MODIFY LOAD ACTION=ADD
4	HEX	00020200	CPKMCDRM	MODIFY CDRM
4	HEX	00020280	CPKMREPL	MODIFY LOAD ACTION=REPLACE
4	HEX	00020401	CPKMTNCP	TRANSFER NCP DUMP FROM DISK
4	HEX	00020408	CPKMDRM	MODIFY DR MOVE
4	HEX	00020480	CPKMPURG	MODIFY LOAD ACTION=PURGE
4	HEX	00020801	CPKMPNCP	PURGE NCP DUMP FROM DISK
4	HEX	00020808	CPKMDRD	MODIFY DR DELETE
4	HEX	00020820	CPKMALT	MODIFY ACT LINE TRACE
4	HEX	00020840	CPKMDLT	MODIFY DEACT LINE TRACE
4	HEX	00020880	CPKMCANC	MODIFY LOAD ACTION=CANCEL
4	HEX	00021001	CPKMCSP	MODIFY DUMP (CSP)
4	HEX	00021801	CPKMP CSP	PURGE CSP DUMP
4	HEX	00022001	CPKMMOSS	MODIFY DUMP (MOSS)
4	HEX	00022801	CPKMPMOS	PURGE MOSS DUMP
4	HEX	00024001	CPKMDYDU	MODIFY DUMP (DYNAMIC)
4	HEX	00024020	CPKALSIT	MODIFY ACT SITTRACE
4	HEX	00024040	CPKDLSIT	MODIFY DACT SITTRACE
4	HEX	00028001	CPKMCHDY	MODIFY DUMP DYNA(CH)
4	HEX	00028820	CPKALTG	MODIFY ACT TG TRACE
4	HEX	00028840	CPKDLTG	MODIFY DEACT TG TRACE
<hr/>				
ERP COMMANDS				
<hr/>				
4	HEX	00030001	CPKEERRA	SOFT INOP
4	HEX	00030002	CPKTKOVR	SSCP TAKEOVER
4	HEX	00030004	CPKEDACT	HARD INOP
<hr/>				
DISPLAY COMMANDS				
<hr/>				
4	HEX	00040000	CPKDSPLY	DISPLAY
<hr/>				
INTERNAL COMMANDS				
<hr/>				
4	HEX	00060001	CPKTPST	TPPOST COMMAND
4	HEX	00060002	CPKII	IPL INIT COMMAND
4	HEX	00060004	CPKIT	IPL TEXT COMMAND
4	HEX	00060008	CPKIF	IPL FINAL COMMAND
4	HEX	00060010	CPKDI	DUMP INIT COMMAND
4	HEX	00060020	CPKDT	DUMP TEXT COMMAND
4	HEX	00060040	CPKDF	DUMP FINAL COMMAND
4	HEX	00060100	CPKHLTCD	HALT-PROCESS CDLINKS
4	HEX	00061001	CPKRCS	REQUEST CSP DUMP
4	HEX	00062000	CPKRESLU	RESET LU
4	HEX	00062001	CPKRMOS	REQUEST MOSS DUMP
4	HEX	00063001	CPKRTHDR	INTERNAL TRANSFER OF DUMP HEADER
4	HEX	00063002	CPKRTNCP	INTERNAL TRANSFER OF DUMP MAIN STORAGE
4	HEX	00064000	CPKRLOAD	REQUEST LOAD
4	HEX	00064001	CPKRDYDP	REQUEST DYNA DUMP TEXT
4	HEX	00068000	CPKRDUMP	REQUEST DUMP
<hr/>				
DIAL COMMANDS				
<hr/>				
4	HEX	00080001	CPKDSTR	DIAL START COMMAND
<hr/>				
D/L/R REQUESTS				
<hr/>				

Len	Type	Value	Name	Description
4	HEX	012B0000	CPKCKPTN	CKPTN FUNCTION
4	HEX	014B0000	CPKCHKPT	CHKPT FUNCTION
4	HEX	01BD0000	CPKCPMSG	CPMSG FUNCTION
4	HEX	01DD0000	CPKPURGE	D/L/R PURGE
4	HEX	01EA0000	CPKCRYPT	CPCRYPT FUNCTION
4	HEX	01ED0000	CPKVRSEL	VIRTUAL ROUTE SELECT
<hr/>				
I/O PURGE REQUESTS				
<hr/>				
4	HEX	02510000	CPKIPCLR	CLEAR CDRM-CDRM SESS
4	HEX	02520000	CPKIPERP	CDRM ERP INTERNAL CLR
<hr/>				
TIMER MGT REQUESTS				
<hr/>				
4	HEX	03000000	CPKSTIMR	SET TIMER REQUEST
<hr/>				
UNFORMATTED (FMD) RUS				
<hr/>				
4	HEX	04000000	CPKUSS	UNFORMATTED REQ UNIT
4	HEX	FF000000	CPKVECTR	VECTOR
<hr/>				
FMD REQUEST UNITS				
<hr/>				
4	HEX	08010001	CPKCXLIM	CHANGE TRANSMISSION LIMIT
4	HEX	08010002	CPKCNRPL	CHANGE -RESP TO POLL LIMIT
4	HEX	08010003	CPKCSESL	CHANGE SESSION LIMIT
4	HEX	08010004	CPKCPOLL	CHANGE POLL LIMIT
4	HEX	08010201	CPKCON	CONTACT
4	HEX	08010202	CPKDISC	DISCONTACT
4	HEX	08010203	CPKIPLI	IPL INITIAL
4	HEX	08010204	CPKIPLT	IPL TEXT
4	HEX	08010205	CPKIPLF	IPL FINAL
4	HEX	08010206	CPKDMPI	DUMP INITIAL
4	HEX	08010207	CPKDMPT	DUMP TEXT
4	HEX	08010208	CPKDMPF	DUMP FINAL
4	HEX	08010209	CPKRMPO	REMOTE POWER OFF
4	HEX	0801020A	CPKALK	ACTIVATE LINK
4	HEX	0801020B	CPKDLK	DEACTIVATE LINK
4	HEX	0801020E	CPKCO	CONNECT OUT
4	HEX	0801020F	CPKABCON	ABANDON CONNECTION
4	HEX	08010211	CPKSCV	SET CONTROL VECTOR
4	HEX	08010214	CPKESLOW	ENTER SLOWDOWN
4	HEX	08010215	CPKXSLOW	EXIT SLOWDOWN
4	HEX	08010216	CPKACI	ACTIVATE CONNECT IN
4	HEX	08010217	CPKDCI	DEACTIVATE CONNECT IN
4	HEX	08010218	CPKABCO	ABANDON CONNECT OUT
4	HEX	08010219	CPKANA	ASSIGN NETWORK ADDRESS
4	HEX	0801021A	CPKFNA	FREE NETWORK ADDRESS
4	HEX	0801021B	CPKRDISC	REQUEST DISCONTACT
4	HEX	08010280	CPKCTD	CONTACTED
4	HEX	08010281	CPKINOP	INOPERATIVE
4	HEX	08010284	CPKRCON	REQUEST CONTACT
4	HEX	08010285	CPKNLSLA	NS LOST SUBAREA
4	HEX	08010302	CPKATRAC	ACTIVATE TRACE
4	HEX	08010303	CPKDTRAC	DEACTIVATE TRACE
4	HEX	08010331	CPKDSPST	DISPLAY STORAGE
4	HEX	08010334	CPKRECST	RECORD STORAGE
4	HEX	08010381	CPKRECMS	RECORD MAINT STATISTICS
4	HEX	08010382	CPKRTSTD	RECORD TEST DATA
4	HEX	08010383	CPKRLINT	RECORD LINE TRACE DATA
4	HEX	08010604	CPKNSPE	NETWORK SERVICES PROCEDURE ERROR
4	HEX	08010681	CPKISO	INIT(SELF) FORMAT 0
4	HEX	08010683	CPKTSO	TERMINATE(SELF) (COMP)
4	HEX	083F0233	CPKINTLD	NS INIT LOAD
4	HEX	083F0234	CPKLDST	NS LOAD STATUS
4	HEX	083F0814	CPKTRINQ	TRANSLATE INQUIRY
4	HEX	083F0816	CPKTRPLY	TRANSLATE REPLY
4	HEX	08410210	CPKRNA	REQUEST NETWORK ADDRESS ASSIGNMENT
4	HEX	08410220	CPKNFYSE	NOTIFY SSEND
4	HEX	08410237	CPKLRQD	NS LOAD REQUIRED
4	HEX	08410240	CPKADDNR	ADD NETWORK RESOURCE
4	HEX	08410243	CPKIPLIN	NS IPL INIT

Len	Type	Value	Name	Description
4	HEX	08410244	CPKIPLTX	NS IPL TEXT
4	HEX	08410245	CPKIPLFN	NS IPL FINAL
4	HEX	08410246	CPKIPLAB	NS IPL ABORT
4	HEX	08410286	CPKRDENR	REQUEST DELETE NETWORK RESOURCE
4	HEX	08410287	CPKNSLCP	NS LOST CONTROL POINT
4	HEX	08410289	CPKRINOP	NS ROUTE INOP
4	HEX	0841028A	CPKRACDR	REQUEST ACTIVATE CDRM
4	HEX	08410304	CPKREQMS	REQUEST MAINTENANCE STATISTICS
4	HEX	08410305	CPKLL2	ENTER TEST MODE LINK LEVEL 2
4	HEX	08410307	CPKRRST	REQUEST EXPLICIT ROUTE TEST
4	HEX	08410311	CPKMSSCV	MAINTENANCE SERV SCV
4	HEX	08410384	CPKRCFMS	RECORD AND FORMAT MAINTENANCE STATISTICS
4	HEX	08410385	CPKRTR	RECORD TEST RESULT
4	HEX	08410386	CPKERTSD	EXPLICIT ROUTE TESTED
4	HEX	0841038D	CPKNMVT	NMVT
4	HEX	08810387	CPKRECHO	REQUEST ECHO TEST
4	HEX	08810389	CPKECHO	ECHO TEST
4	HEX	08810601	CPKCINIT	CONTROL INIT (CINIT)
4	HEX	08810602	CPKCTERM	CONTROL TERM (CTERM)
4	HEX	08810620	CPKNFY	NOTIFY
4	HEX	08810629	CPKCLNUP	CLEANUP
4	HEX	08810680	CPKIO	INIT(OTHER)
4	HEX	08810681	CPKIS1	INIT(SELF) FORMAT 1
4	HEX	08810682	CPKTO	TERMINATE(OTHER)
4	HEX	08810683	CPKTS	TERMINATE(SELF)
4	HEX	08810685	CPKBF	BIND FAILURE
4	HEX	08810686	CPKSS	SESSION STARTED
4	HEX	08810687	CPKUBF	UNBIND FAILURE
4	HEX	08810688	CPKSE	SESSION ENDED
4	HEX	08810810	CPKFWD	FORWARD REQUEST
4	HEX	08810814	CPKCNM	CNM REQUEST
4	HEX	08812601	CPKBFCIN	BF CONTROL INITIATE
4	HEX	08812629	CPKBFLN	BF CLEANUP
4	HEX	08812681	CPKBFIN	BF INITIATE
4	HEX	08812683	CPKBFTRM	BF TERMINATE
4	HEX	08812686	CPKBFSST	BF SESSION STARTED
4	HEX	08812688	CPKBFSE	BF SESSION ENDED
4	HEX	0881268C	CPKBFINF	BFSESSINFO REQUEST
4	HEX	08810812	CPKDLVR	DELIVER REQUEST
4	HEX	08818620	CPKCDNFY	CD NOTIFY
4	HEX	08818627	CPKCDDSL	CD DIRECT SEARCH LIST
4	HEX	08818640	CPKCDIO	CD INIT(OTHER)
4	HEX	08818641	CPKCDIN	CD INITIATE
4	HEX	08818643	CPKCDTRM	CD TERMINATE
4	HEX	08818645	CPKCDSF	CD SESS SETUP FAILURE
4	HEX	08818646	CPKCDSS	CD SESSION STARTED
4	HEX	08818647	CPKCDTF	CD SESS TAKED FAILURE
4	HEX	08818648	CPKCDSE	CD SESSION ENDED
4	HEX	08818649	CPKCDTD	CD TAKEDOWN
4	HEX	0881864A	CPKCDTDC	CD TAKEDOWN COMPLETE
4	HEX	0881864B	CPKCDCI	CD CINIT

## NC REQUEST UNITS

4	HEX	09050000	CPKNCLSA	NC LOST SUBAREA
4	HEX	09060000	CPKANS	AUTO NETWORK SHUTDOWN STARTED
4	HEX	09060000	CPKERINO	EXPLICIT ROUTE INOP
4	HEX	09070000	CPKANSC	AUTO NETWORK SHUTDOWN COMPLETE
4	HEX	09080000	CPKLOSTP	LOST PATH
4	HEX	09090000	CPKERTST	EXPLICIT ROUTE TEST
4	HEX	090A0000	CPKERTRP	ER TEST REPLY
4	HEX	090B0000	CPKERACT	EXPLICIT ROUTE ACTIVATE
4	HEX	090C0000	CPKERARY	EXPLICIT ROUTE ACT REPLY
4	HEX	090D0000	CPKACTVR	ACTIVATE VIRTUAL ROUTE
4	HEX	090E0000	CPKDACVR	DEACT VIRTUAL ROUTE
4	HEX	090F0000	CPKEROP	EXPLICIT ROUTE OPERATIVE
4	HEX	09510000	CPKSWNCP	SWITCH TO NCP MODE
4	HEX	09520000	CPKSWEP	SWITCH TO EP MODE

Len	Type	Value	Name	Description
<b>DFC REQUEST UNITS</b>				
4	HEX	0A040000	CPKLUS	LU STATUS
4	HEX	0A050000	CPKRTRCV	READY TO RECEIVE
4	HEX	0A700000	CPKBIS	BRACKET INITIATION STOPPED
4	HEX	0A710000	CPKSBI	STOP BRACKET INITIATION
4	HEX	0A800000	CPKQEC	QUIESCE AT END OF CHAIN
4	HEX	0A810000	CPKQCOMP	QUIESCE COMPLETE
4	HEX	0A820000	CPKRELQ	RELEASE QUIESCE
4	HEX	0A830000	CPKCANCL	CANCEL
4	HEX	0A840000	CPKCHASE	CHASE
4	HEX	0AC00000	CPKSHUTD	SHUTDOWN
4	HEX	0AC10000	CPKSHUTC	SHUTDOWN COMPLETE
4	HEX	0AC20000	CPKRSHUT	REQUEST SHUTDOWN
4	HEX	0AC80000	CPKBID	BID
4	HEX	0AC90000	CPKSIG	SIGNAL
<b>SC REQUEST UNITS</b>				
4	HEX	0B0D0000	CPKALU	ACTIVATE LU
4	HEX	0B0E0000	CPKDLU	DEACTIVATE LU
4	HEX	0B110000	CPKAPU	ACTIVATE PU
4	HEX	0B120000	CPKDPU	DEACTIVATE PU
4	HEX	0B140000	CPKACD	ACTIVATE CDRM
4	HEX	0B150000	CPKDCCD	DEACTIVATE CDRM
4	HEX	0B310000	CPKBIND	BIND SESSION
4	HEX	0B320000	CPKUNBND	UNBIND SESSION
4	HEX	0BA00000	CPKSDT	START DATA TRAFFIC
4	HEX	0BA10000	CPKCLEAR	CLEAR SESSION
4	HEX	0BA20000	CPKSTSN	SET AND TEST SEQUENCE NUMBER
4	HEX	0BA30000	CPKRQR	REQUEST RECOVERY
4	HEX	0BC00000	CPKCRV	CRYPTOGRAPHY VERIFY
<b>FMD ACCESS METHOD RUS</b>				
4	HEX	0C0102A0	CPKALRRU	AM ALLOCATE RESOURCE
4	HEX	0C0102A1	CPKFRERU	AM FREE RESOURCE
4	HEX	0C0102A2	CPKRTARU	AM SET ROUTABLE STATE
4	HEX	0C0102A3	CPKRTIRU	AM RESET ROUTABLE STATE
4	HEX	0C010480	CPKRECMD	AM RECORD MEASUREMENT DATA
4	HEX	0C410206	CPKGGWN	AM GAINED GWN
4	HEX	0C410207	CPKLGWN	AM LOST GWN
4	HEX	0C410208	CPKDEXF	AM DEACTIVATE TRANSFORMS
4	HEX	0C410210	CPKARNAA	AM REQUEST NETWORK ADDRESS ASSIGNMENT
4	HEX	0C410212	CPKCNNCT	AM CONNECT
4	HEX	0C410213	CPKDSCNT	AM DISCONNECT
4	HEX	0C410214	CPKINTPU	AM INIT_PU
4	HEX	0C410266	CPKAXID	AM EXCHANGE ID
4	HEX	0C4102BD	CPKAAL	AM ADD LINK
4	HEX	0C4102BE	CPKAALS	AM ADD LINK STATION
4	HEX	0C4102BF	CPKDELNR	DELETE NETWORK RESOURCE
4	HEX	0C4102CD	CPKARDP	AM REQUEST DUMP
4	HEX	0C4102CE	CPKARLDC	AM REQUEST CONDITIONAL LD
4	HEX	0C4102CF	CPKARLDU	AM REQUEST UNCOND LOAD
4	HEX	0C410601	CPKOACB	AM OPEN ACB
4	HEX	0C410602	CPKCACB	AM CLOSE ACB
4	HEX	0C810619	CPKARC	ADDRESS REQUEST COMPLETE AMRU
4	HEX	0C810620	CPKRESUM	AM RESUME
4	HEX	0C810629	CPKACU	AM CLEANUP
4	HEX	0C810643	CPKCDGEN	GENERIC TERMINATE
4	HEX	0C810680	CPKAREAL	AM REALLOCATE
4	HEX	0C810681	CPKGSSESS	GENERIC SESSION INITIATION
4	HEX	0C810801	CPKAMNFY	AM NOTIFY
4	HEX	0C810A00	CPKSLS	API SETLOGON(START)
4	HEX	0C810A01	CPKSLP	API SETLOGON(STOP)
4	HEX	0C810A02	CPKSLQ	API SETLOGON(QUIESCE)
4	HEX	0C810A10	CPKSML	API SIMLOGON
4	HEX	0C810A20	CPKODQ	API OPNDST(ACQUIRE)
4	HEX	0C810A21	CPKODC	API OPNDST(ACCEPT)
4	HEX	0C810A30	CPKILM	API INQUIRE(LOGONMSG)



Len	Type	Value	Name	Description
4	HEX	0C810A31	CPKIDC	API INQUIRE(DEVCHAR)
4	HEX	0C810A32	CPKICT	API INQUIRE(COUNTS)
4	HEX	0C810A33	CPKITL	API INQUIRE(TOPLOGON)
4	HEX	0C810A34	CPKICX	API INQUIRE(CIDXLATE)
4	HEX	0C810A35	CPKITM	API INQUIRE(TERMS)
4	HEX	0C810A36	CPKIAS	API INQUIRE(APPSTAT)
4	HEX	0C810A37	CPKISP	API INQUIRE(SESSPARMS)
4	HEX	0C810A38	CPKISK	API INQUIRE(SESSKEY)
4	HEX	0C810A39	CPKIDY	API INQUIRE(DISPLAY)
4	HEX	0C810A40	CPKINT	API INTERPRET
4	HEX	0C810A50	CPKCDP	API CLSDST(PASS)
4	HEX	0C810A51	CPKCDR	API CLSDST(RELEASE)
4	HEX	0C810A60	CPKSNC	API SESSIONC
4	HEX	0C810A70	CPKSCD	API SENDCMD
4	HEX	0C810A75	CPKSND	API SEND
4	HEX	0C810A80	CPKRCD	API RCVCMD
4	HEX	0C810A85	CPKRCV	API RECEIVE
4	HEX	0C810A90	CPKRQS	API REQSESS
4	HEX	0C810AA0	CPKOPS	API OPNSEC
4	HEX	0C810AB0	CPKTMS	API TERMSESS
4	HEX	0C810AC0	CPKRSR	API RESETSR
<hr/>				
NC ACCESS METHOD RUS				
<hr/>				
4	HEX	0D010000	CPKVRINO	AM VR INOPERATIVE
4	HEX	0D0B0000	CPKRQERA	AM REQUEST ER ACTIVATE
4	HEX	0D0E0000	CPKRQVRD	AM REQUEST VR DEACTIVATE
4	HEX	0DFF0000	CPKVRSTA	AM VR STATUS
<hr/>				
DFC ACCESS METHOD RUS				
<hr/>				
4	HEX	0E010000	CPKPGCE	AM PURGE CHAIN ELEMENT
<hr/>				
SC ACCESS METHOD RUS				
<hr/>				
4	HEX	0F010000	CPKNOTFY	AM NOTIFY (SCHEDULE LOSTERM)
4	HEX	0F020000	CPKSSA	AM SET SESSION ADDRESS
4	HEX	0F030000	CPKSSAD	AM SSA AND DISCONNECT
4	HEX	0F040000	CPKOSA	AM OVERRIDE SESS ADDR
4	HEX	0F050000	CPKPGWQ	AM PURGE WAIT QUEUE
4	HEX	0F060000	CPKFLAM	AM FLUSH
4	HEX	0F310000	CPKGBIND	AM GENERIC BIND
4	HEX	0F320000	CPKGUNB	AM GENERIC UNBIND
<hr/>				
VALUES FOR CPCBRC (RETURN CODE)				
<hr/>				
4	DECIMAL	0	CPKSUCC	SUCCESSFUL
4	DECIMAL	3	CPKMIGR	MIGRATION NODE ENCOUNTERED
4	DECIMAL	4	CPKNRESP	NOT SUCCESSFUL (NEGATIVE RESPONSE)
4	DECIMAL	4	CPKCTDL	370X ALREADY LOADED
4	DECIMAL	8	CPKPURGD	NOT SUCCESSFUL (PURGED)
4	DECIMAL	12	CPKLOADF	I/O ERROR FOR 370X LOAD
4	DECIMAL	16	CPKRETRY	TIMING CONFLICT - REISSUE
4	DECIMAL	20	CPKOVRID	NOT SUCCESSFUL (OVERRIDDEN)
4	DECIMAL	20	CPKDUCOM	370X DUMP COMPLETE
4	DECIMAL	24	CPKHALTD	NOT SUCCESSFUL (HALTED)
4	DECIMAL	28	CPKUNREC	NOT SUCCESSFUL (UNRECOGNIZED REQUEST)
4	DECIMAL	32	CPKNOSTG	NOT SUCCESSFUL (NO STORAGE)
4	DECIMAL	36	CPKINREM	ACTIVATE REMOTE FAILED (REMOTE INACT)
4	DECIMAL	44	CPKHDREC	HALF A DUMP RECORD
4	DECIMAL	64	CPKDYDUC	DYNAMIC DUMP COMPLETE
4	DECIMAL	68	CPKDSKEM	3725 DSKETTE EMPTY
4	DECIMAL	171	CPKABEND	NOT SUCCESSFUL (ABENDED)
<hr/>				
VALUES FOR RPRDFLV (DEACTIVATE FLAVOR INDICATOR)				
<hr/>				
1	HEX	01	CPKDFSFT	SOFT INOP (OR FORCE REACT)
1	HEX	02	CPKDFNRM	DEACTIVATE (NORMAL)
1	HEX	03	CPKDFIMM	DEACTIVATE (IMMEDIATE)
1	HEX	04	CPKDFDMP	MODIFY DUMP
1	HEX	05	CPKDFHRD	HARD INOP (OR FORCE DEACT)
1	HEX	06	CPKDFSON	DEACTIVATE (SESSION OUTAGE NOTIFICATION)
1	HEX	07	CPKDFGVB	DEACTIVATE (GIVEBACK)

Len	Type	Value	Name	Description
1	HEX	08	CPKDFPDR	DEACTIVATE FLAVOR OF PENDING DELETE RESOURCE

## Component Recovery Area (CRA)

<b>Function:</b>	The CRA indicates which VTAM locks are currently held. It contains three CRRs, an RPH, and a pointer to the currently active CRR.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	2032 (X'7F0')
<b>Pointed to by:</b>	ATCCRAQ (ATCVT) - available VIT entries: ULKA (TPUNLOCK all) - pointer to CRALKACT UNLK (TPUNLOCK) - pointer to CRALKACT (See <i>VTAM Diagnosis</i> for more information on the VIT entries.)
<b>Included Blocks:</b>	ASCRR (CRAASCRR), NATBL (CRANATBL), RPH (CRARPH)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2032	ISTCRA	COMPONENT RECOVERY AREA
0	(0)	CHARACTER	160	CRACLRL	AREA OF CRA TO BE CLEARED
0	(0)	CHARACTER	108	CRARPH	RPH FOR PROCESS
108	(6C)	CHARACTER	52	CRABASIC	BASIC SECTION OF CRA
108	(6C)	ADDRESS	4	*	RESERVED
112	(70)	CHARACTER	8	CRAHDR	CRA HEADER
112	(70)	ADDRESS	4	CRACRR	POINTER TO ACTIVE CRR
116	(74)	ADDRESS	4	CRAFRR	POINTER TO ACTIVE FRR
120	(78)	BITSTRING	4	CRALKACT	LOCK LEVEL AND OWNERSHIP FLAGS
		1... ..		CRALEV32	LEVEL 32 LOCK HELD
		.1. ....		CRALEV31	LEVEL 31 LOCK HELD
		..1. ....		CRALEV30	LEVEL 30 LOCK HELD
		...1 ....		CRALEV29	LEVEL 29 LOCK HELD
		.... 1..		CRALEV28	LEVEL 28 LOCK HELD
		.... .1.		CRALEV27	LEVEL 27 LOCK HELD
		.... ..1.		CRALEV26	LEVEL 26 LOCK HELD
		.... ...1		CRALEV25	LEVEL 25 LOCK HELD
		1... ....		CRALEV24	LEVEL 24 LOCK HELD
		.1. ....		CRALEV23	LEVEL 23 LOCK HELD
		..1. ....		CRALEV22	LEVEL 22 LOCK HELD
		...1 ....		CRALEV21	LEVEL 21 LOCK HELD
		.... 1..		CRALEV20	LEVEL 20 LOCK HELD
		.... .1.		CRALEV19	LEVEL 19 LOCK HELD
		.... ..1.		CRALEV18	LEVEL 18 LOCK HELD
		.... ...1		CRALEV17	LEVEL 17 LOCK HELD
		1... ....		CRALEV16	LEVEL 16 LOCK HELD
		.1. ....		CRALEV15	LEVEL 15 LOCK HELD
		..1. ....		CRALEV14	LEVEL 14 LOCK HELD
		...1 ....		CRALEV13	LEVEL 13 LOCK HELD
		.... 1..		CRALEV12	LEVEL 12 LOCK HELD
		.... .1.		CRALEV11	LEVEL 11 LOCK HELD
		.... ..1.		CRALEV10	LEVEL 10 LOCK HELD
		.... ...1		CRALEV09	LEVEL 9 LOCK HELD
		1... ....		CRALEV08	LEVEL 8 LOCK HELD
		.1. ....		CRALEV07	LEVEL 7 LOCK HELD
		..1. ....		CRALEV06	LEVEL 6 LOCK HELD
		...1 ....		CRALEV05	LEVEL 5 LOCK HELD
		.... 1..		CRALEV04	LEVEL 4 LOCK HELD
		.... .1.		CRALEV03	LEVEL 3 LOCK HELD
		.... ..1.		CRALEV02	LEVEL 2 LOCK HELD
		.... ...1		CRALEV01	LEVEL 1 LOCK HELD
124	(7C)	ADDRESS	4	CRAL1PTR	POINTER TO LEVEL 1 LOCK
128	(80)	ADDRESS	4	CRAL2PTR	POINTER TO LEVEL 2 LOCK
132	(84)	ADDRESS	4	CRAL3PTR	POINTER TO LEVEL 3 LOCK
136	(88)	ADDRESS	4	CRAL4PTR	POINTER TO LEVEL 4 LOCK
140	(8C)	ADDRESS	4	CRAL5PTR	POINTER TO LEVEL 5 LOCK
144	(90)	ADDRESS	4	CRAL6PTR	POINTER TO LEVEL 6 LOCK
148	(94)	ADDRESS	4	CRAL7PTR	POINTER TO LEVEL 7 LOCK

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
152	(98)	ADDRESS	4	CRAL8PTR	POINTER TO LEVEL 8 LOCK	
156	(9C)	ADDRESS	4	CRAL9PTR	POINTER TO LEVEL 9 LOCK	
160	(A0)	CHARACTER	56	CRANATBL	WORK AREA FOR CIDCTL	
160	(A0)	CHARACTER	52	CRANRCLT	LMTABLE WORK AREA	
160	(A0)	CHARACTER	36	CRARCE	RESOURCE CONNECTION ELEMENT WORK TABLE	
216	(D8)	CHARACTER	128	CRAPSS	PSS AREA	
216	(D8)	CHARACTER	72	CRASAVE	SAVE AREA	
288	(120)	CHARACTER	32	CRARSTCK	RECOVERY STACK	
320	(140)	CHARACTER	24	CRAEPARM	ESTAE PARM LIST	
320	(140)	ADDRESS	4	CRAERPH	POINTER TO RPH	
324	(144)	ADDRESS	4	CRAPST	PST FOR RECOVERY	
328	(148)	ADDRESS	4	CRARETRN	RETURN ADDRESS	
332	(14C)	ADDRESS	4	CRARPARM	POINTER TO RECOVERY PARAMETER LIST	
336	(150)	UNSIGNED	4	CRAERRCD	FIRST ERROR CODE	
344	(158)	CHARACTER	80	CRASVC	SERVICE ROUTINE CRA	
344	(158)	CHARACTER	60	CRAASCRR	CRR FOR SMS	
404	(194)	ADDRESS	4	CRAHSIZ	HEADER SIZE QUEUED SMS REQUEST	
408	(198)	CHARACTER	8	CRAMASK	PREFIX MASK QUEUED SMS REQUEST	
408	(198)	ADDRESS	4	CRABFPST	PST ADDRESS	
412	(19C)	CHARACTER	4	CRABFFLG	SECOND PREFIX WORD - CONTROL BLOCK ID	
		1... ....		CRALLOC	BUFFER ALLOCATED INDICATOR	
		.111 1111		*	UNUSED-AVAILABLE	
413	(19D)	CHARACTER	2	CRACEELE	CONNECTION ELEMENT ELEMENT ADDRESS	
415	(19F)	BITSTRING	1	CRACBXNO	CBID INDEX NUMBER	
416	(1A0)	SIGNED	4	CRABUFA	BUFFER QUEUE FOR FBQ ALLOCATION	
		1... ....		CRABFTBA	NO BUFFERS ALLOCATED YET	
420	(1A4)	ADDRESS	4	CRAPLSAD	POINTER TO REAL ISTPLSCB	
424	(1A8)	CHARACTER	1608	CRAPROCR	PROCESS CRR: MAXIMUM SIZE IS	
424	(1A8)	CHARACTER	1608	*	CRA SIZE MINUS SUM OF BASIC, RPH, ISTNATBL, PSS AREA, AND SAVE AREA.	

CRAVRE IS AN OVERLAY BASED BY CRAFRR

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	CRAVRE		
0	(0)	ADDRESS	4	CRAVRR	POINTER TO VTAM RECOVERY ROUTINE	
		1... ....		CRANODMP	VRR WANTS NO DUMP	
4	(4)	ADDRESS	4	CRAVRPRM	PARAMETER FOR RECOVERY ROUTINE	

CRAPLIST IS AN OVERLAY BASED AT CRAEPARM

0	(0)	STRUCTURE	8	CRAPLIST	PARAMETER LIST FROM ESTAE/SETFRR
0	(0)	ADDRESS	4	CRAPLRPH	POINTER TO RPH RUNNING AT TIME OF ABEND
4	(4)	ADDRESS	4	CRAPLPST	POINTER TO PST OF TASK WHICH ESTABLISHED ESTAE OR FRR

## Constants

Len	Type	Value	Name	Description
4	HEX	80000000	CRALMS32	32ND LEVEL LOCK MASK
4	HEX	40000000	CRALMS31	31ST LEVEL LOCK MASK
4	HEX	20000000	CRALMS30	30TH LEVEL LOCK MASK
4	HEX	10000000	CRALMS29	29TH LEVEL LOCK MASK
4	HEX	08000000	CRALMS28	28TH LEVEL LOCK MASK
4	HEX	04000000	CRALMS27	27TH LEVEL LOCK MASK
4	HEX	02000000	CRALMS26	26TH LEVEL LOCK MASK
4	HEX	01000000	CRALMS25	25TH LEVEL LOCK MASK
4	HEX	00800000	CRALMS24	24TH LEVEL LOCK MASK
4	HEX	00400000	CRALMS23	23RD LEVEL LOCK MASK
4	HEX	00200000	CRALMS22	22ND LEVEL LOCK MASK
4	HEX	00100000	CRALMS21	21ST LEVEL LOCK MASK
4	HEX	00080000	CRALMS20	20TH LEVEL LOCK MASK
4	HEX	00040000	CRALMS19	19TH LEVEL LOCK MASK
4	HEX	00020000	CRALMS18	18TH LEVEL LOCK MASK
4	HEX	00010000	CRALMS17	17TH LEVEL LOCK MASK

Len	Type	Value	Name	Description
4	HEX	00008000	CRALMS16	16TH LEVEL LOCK MASK
4	HEX	00004000	CRALMS15	15TH LEVEL LOCK MASK
4	HEX	00002000	CRALMS14	14TH LEVEL LOCK MASK
4	HEX	00001000	CRALMS13	13TH LEVEL LOCK MASK
4	HEX	00000800	CRALMS12	12TH LEVEL LOCK MASK
4	HEX	00000400	CRALMS11	11TH LEVEL LOCK MASK
4	HEX	00000200	CRALMS10	10TH LEVEL LOCK MASK
4	HEX	00000100	CRALMS09	9TH LEVEL LOCK MASK
4	HEX	00000080	CRALMS08	8TH LEVEL LOCK MASK
4	HEX	00000040	CRALMS07	7TH LEVEL LOCK MASK
4	HEX	00000020	CRALMS06	6TH LEVEL LOCK MASK
4	HEX	00000010	CRALMS05	5TH LEVEL LOCK MASK
4	HEX	00000008	CRALMS04	4TH LEVEL LOCK MASK
4	HEX	00000004	CRALMS03	3RD LEVEL LOCK MASK
4	HEX	00000002	CRALMS02	2ND LEVEL LOCK MASK
4	HEX	00000001	CRALMS01	1ST LEVEL LOCK MASK
4	CHARACTER	CRA	CRACRA	CHARACTER CONTROL BLOCK ID

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CRAALLOC	19C	80	5	CRALEV29	78	10	5
CRAASCRR	158		3	CRALEV30	78	20	5
CRABASIC	6C		3	CRALEV31	78	40	5
CRABFFLG	19C		4	CRALEV32	78	80	5
CRABFPST	198		4	CRALKACT	78		4
CRABFTBA	1A0	80	4	CRAL1PTR	7C		4
CRABUFA	1A0		3	CRAL2PTR	80		4
CRACBXNO	19F		5	CRAL3PTR	84		4
CRACEELE	19D		5	CRAL4PTR	88		4
CRACL	0		2	CRAL5PTR	8C		4
CRACRR	70		5	CRAL6PTR	90		4
CRAEPARM	140		3	CRAL7PTR	94		4
CRAERPH	140		4	CRAL8PTR	98		4
CRAERRCD	150		4	CRAL9PTR	9C		4
CRAFRR	74		5	CRAMASK	198		3
CRAHDR	70		4	CRANATBL	A0		2
CRAHSIZ	194		3	CRANODMP	0	80	3
CRALEV01	7B	01	5	CRANRCLT	A0		3
CRALEV02	7B	02	5	CRAPLIST	0		1
CRALEV03	7B	04	5	CRAPLPST	4		2
CRALEV04	7B	08	5	CRAPLRPH	0		2
CRALEV05	7B	10	5	CRAPLSAD	1A4		3
CRALEV06	7B	20	5	CRAPROCR	1A8		2
CRALEV07	7B	40	5	CRAPSS	D8		2
CRALEV08	7B	80	5	CRAPST	144		4
CRALEV09	7A	01	5	CRARCE	A0		4
CRALEV10	7A	02	5	CRARETRN	148		4
CRALEV11	7A	04	5	CRARPARM	14C		4
CRALEV12	7A	08	5	CRARPH	0		3
CRALEV13	7A	10	5	CRARSTCK	120		3
CRALEV14	7A	20	5	CRASAVE	D8		3
CRALEV15	7A	40	5	CRASVC	158		2
CRALEV16	7A	80	5	CRAVRE	0		1
CRALEV17	79	01	5	CRAVRPRM	4		2
CRALEV18	79	02	5	CRAVRR	0		2
CRALEV19	79	04	5	ISTCRA	0		1
CRALEV20	79	08	5				
CRALEV21	79	10	5				
CRALEV22	79	20	5				
CRALEV23	79	40	5				
CRALEV24	79	80	5				
CRALEV25	78	01	5				
CRALEV26	78	02	5				
CRALEV27	78	04	5				
CRALEV28	78	08	5				

## Copied RPL Control Block (CRPL)

<b>Function:</b>	A CRPL is a copy of an application program RPL that VTAM maintains in its buffers while processing the application program's request.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	118 (X'76')
<b>Pointed to by:</b>	ATCCRPLQ (ATCVT)
<b>Included Blocks:</b>	IFGRPL (CRPRRPL).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	118	ISTCRPL	
0	(0)	CHARACTER	112	CRPRRPL	AREA FOR COPIED RPL
112	(70)	ADDRESS	4	CRPRRPLP	POINTER TO APPLICATION RPL
112	(70)	ADDRESS	4	CRPCHAIN	CRPL CHAIN OUT OF MPST
116	(74)	CHARACTER	2	*	RESERVED
116	(74)	UNSIGNED	1	*	RESERVED
117	(75)	UNSIGNED	1	*	RESERVED

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**Second Level ACDEB Index Table (DEBX2)**

<b>Function:</b>	DEBX2 provides a mapping for a VTAM second level ACDEB index table and table entry.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	1K <sup>1</sup>

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	31	ISTDEBX2 (252)	1K TABLE (INCLUDING SMS HEADER) (1 ORIGIN ARRAY)
0	(0)	UNSIGNED	1	DEBXLE	CHAINING INDICATOR
		1... ..		DEBSAL	ALLOCATION INDICATOR
1	(1)	CHARACTER	1	*	NOT USED - AVAILABLE
2	(2)	CHARACTER	2	DEBXI	INDEX TO NEXT AVAILABLE SLOT
2	(2)	UNSIGNED	1	DEBX11	INDEX INTO FIRST LEVEL TABLE
3	(3)	UNSIGNED	1	DEBX12	INDEX INTO SECOND LEVEL TABLE

## Device Characteristics Control Block (DEVCH)

<b>Function:</b>	DEVCH originates in the RDT. It defines the device characteristics of a resource.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	8
<b>Pointed to by:</b>	MLCPTR4 (MLCA) - DEVCH in RDT terminal entry during system definition
<b>Located in:</b>	Found in the CDCINIT (CDCIN), CINIT (CTLIN), and BIND (GBIND) RUs, and in the NIB, RPRE, and TSPL.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTDEVCH	
0	(0)	BITSTRING	1	DEVSHCH	DEVICE SCHEDULING CHARACTERISTICS
0	(0)	BITSTRING	1	DEVCHAR	COMPATIBILITY EXISTING CODE
		1... ....		DEVINPUT	DEVICE IS FOR INPUT
		.1.. ....		DEVOTPUT	DEVICE IS FOR OUTPUT
		...1. ....		DEVCONVR	DEVICE IS CONVERSATION RN DEFINITION
		....1 ....		DEVSUBND	DEVICE HAS SCHEDULABLE SUB-NODES
		.... 1...		DEVSPS	DEVICE IS START PRINT SENSITIVE
		.... .1..		DEVNNSPT	NODE HAS NETWORK MANAGEMENT SUPPORT
		.... .1.		DEVCTCL	NODE HAS CONNECTION CONTROL DEPENDENCIES
		.... ...1		DEVSPOLL	SPECIFIC POLLED BSC 3270
1	(1)	BITSTRING	1	DEVTCODE	DEVICE TYPE CODES
1	(1)	BITSTRING	1	DEVCHAR2	COMPATIBILITY EXISTING CODE
2	(2)	BITSTRING	1	DEVMCODE	DEVICE MODEL CODE
3	(3)	BITSTRING	1	DEVFLAGS	USE DEPENDS ON DEVSHCH VALUES
		1111 ....		DEVFCCTL	USED IF DEVICE REQUIRES CONNECTION CONTROL
		1... ....		DEVCBSC	RESET ORDERLY, BI-SYNCH TERMINALS EXCEPT 3270'S
		.1.. ....		DEVCSL	RESET AT END OF COMMAND. 3270'S AND START/STOP
		..1. ....		DEVCRVB	EXCEPT TERMINALS WITH REVERSE BREAK FEATURE
		...1 ....		DEVCSWL	RESET IMMEDIATE. START/STOP TERMINALS WITH
		.... 1111		DEVCHAR3	REVERSE BREAK FEATURE
		.... 1...		DEVATTN	1=HIGHER NODE IS SWITCH CON- NECTION,
		.... .1..		DEVCCHEK	0=LEASED CONNECTION
		.... ..1.		DEVSTCL	COMPATIBILITY EXISTING CODE
		.... ...1		DEVCSLPLN	TERMINAL CAN INTERRUPT WITH ATTENTION
4	(4)	CHARACTER	1	DEVPHYSA	TERMINAL HAS CHECKING
5	(5)	BITSTRING	1	DEVMODE	TERMINAL HAS STATION CONTROL
		1... ....		DEVREC	TERMINAL HAS SELECTOR PEN
		.1.. ....		DEVBASIC	PHYSICAL DEVICE ADDRESS
		..11 111.		*	MISCELLANEOUS FLAG FIELD
		.... ...1		DEVADVFE	RECORD MODE CAN BE USED
					BASIC MODE CAN BE USED
					RESTRICTED FOR NON-SNA CROSS-DOMAIN SESSION
					SETUP - NOT - AVAILABLE
					ADVANCED FEATURES CAN BE USED - FOR 3270
					DEVICE TYPES, 3270 EXTENDED DATA STREAM USED (
					REQUIRING BSC TRANSPARENT DLC )
6	(6)	BITSTRING	1	DEVAUXTP	AUXILIARY DEVICE TYPE. VALID ONLY WHEN DEVICE
					TYPE (DEVTCODE) IS AN LU (DEVLU).
7	(7)	UNSIGNED	1	DEVLANG	LANGUAGE FIELD OBTAINED FROM LOGMODE
		1... ....		DEVQUERY	ISSUE READ PARTITION QUERY TO THE DEVICE TO
		.111 1111		DEVLNGID	DETERMINE THE LANGUAGE CHARACTERISTICS
					LANGUAGE IDENTIFIER B'0000001' = U.S. ENGLISH
					B'0010001' = KATAKANA



## Constants

Len	Type	Value	Name	Description
DEVICE TYPE CODES				
1	HEX	01	DEV2740	DEVICE IS A 2740
1	HEX	02	DEV2741	DEVICE IS A 2741
1	HEX	03	DEV1050	DEVICE IS A 1050
1	HEX	04	DEVTWX	DEVICE IS A TWX
1	HEX	05	DEVWTTY	DEVICE IS A WTTY
1	HEX	06	DEV115A	DEVICE IS A 115A
1	HEX	07	DEV83B3	DEVICE IS AN 83B3
1	HEX	08	DEV2715	DEVICE IS A 2715
1	HEX	09	DEV2770	DEVICE IS A 2770
1	HEX	0A	DEV2780	DEVICE IS A 2780
1	HEX	0B	DEV3735	DEVICE IS A 3735
1	HEX	0C	DEV3780	DEVICE IS A 3780
1	HEX	0D	DEV1130	DEVICE IS AN 1130
1	HEX	0E	DEV1800	DEVICE IS AN 1800
1	HEX	0F	DEV DAN	DEVICE IS A DAN
1	HEX	11	DEV3125	DEVICE IS A 3125
1	HEX	12	DEV3135	DEVICE IS A 3135
1	HEX	13	DEVSYS3	DEVICE IS SYS 3
1	HEX	14	DEV2701	DEVICE IS A 2701
1	HEX	15	DEV2703	DEVICE IS A 2703
1	HEX	16	DEV3704	DEVICE IS A 3704
1	HEX	17	DEV3705	DEVICE IS A 3705
1	HEX	17	DEVPU4	DEVICE PU TYPE 4
1	HEX	17	DEVPU5	DEVICE PU TYPE 5
1	HEX	18	DEV2980	DEVICE IS A 2980
1	HEX	19	DEV3277	DEVICE IS A 3277
1	HEX	1A	DEV3284	DEVICE IS A 3284
1	HEX	1B	DEV3286	DEVICE IS A 3286
1	HEX	1C	DEV3275	DEVICE IS A 3275
1	HEX	1D	DEV3741	DEVICE IS A 3741
1	HEX	1E	DEV3747	DEVICE IS A 3747
1	HEX	1F	DEVRSV05	AVAILABLE
1	HEX	20	DEVRSV06	AVAILABLE
1	HEX	21	DEVRSV07	AVAILABLE
1	HEX	22	DEVRSV08	AVAILABLE
1	HEX	28	DEVMTA	DEVICE IS AN MTA
1	HEX	33	DEV2972	DEVICE IS A 2972
1	HEX	34	DEV3271	DEVICE IS A 3271
1	HEX	36	DEV3272	DEVICE IS A 3272
1	HEX	35	DEVCC	DEVICE IS A PHYSICAL UNIT
1	HEX	64	DEV1052	DEVICE IS A 1052
1	HEX	65	DEV1053	DEVICE IS A 1053
1	HEX	66	DEV1054	DEVICE IS A 1054
1	HEX	67	DEV1055	DEVICE IS A 1055
1	HEX	68	DEV1056	DEVICE IS A 1056
1	HEX	69	DEV1057	DEVICE IS A 1057
1	HEX	6A	DEV1058	DEVICE IS A 1058
1	HEX	6B	DEV1092	DEVICE IS A 1092
1	HEX	6C	DEV1093	DEVICE IS A 1093
1	HEX	6D	DEVLU	DEVICE IS A LOGICAL UNIT
1	HEX	78	DEV545	DEVICE IS A 545
1	HEX	79	DEV1017	DEVICE IS A 1017
1	HEX	7A	DEV1018	DEVICE IS A 1018
1	HEX	7B	DEV2203	DEVICE IS A 2203
1	HEX	7C	DEV2213	DEVICE IS A 2213
1	HEX	7D	DEV2265	DEVICE IS A 2265
1	HEX	7E	DEV2502	DEVICE IS A 2502
1	HEX	7F	DEV50	DEVICE IS A 50
1	HEX	80	DEV1255	DEVICE IS A 1255
1	HEX	81	DEV5496	DEVICE IS A 5496
MODEL CODES				
1	HEX	00	DEVMOD1	MODEL 1

Len	Type	Value	Name	Description
1	HEX	01	DEVMOD2	MODEL 2
<b>AUXILIARY DEVICE TYPES</b>				
1	HEX	00	DEVAUND	AUX DEVICE IS UNDEFINED ACTUAL DEVICE IS A LOGICAL UNIT
1	HEX	04	DEVA2741	AUX DEVICE IS AN LU 2741
1	HEX	08	DEVAWTTY	AUX DEVICE IS AN LU WTTY
1	HEX	20	DEVATWX	AUX DEVICE IS AN LU TWX
1	HEX	40	DEVA2740	AUX DEVICE IS AN LU 2740
1	HEX	10	DEVA115A	AUX DEVICE IS AN LU 115A
1	HEX	30	DEVA83B3	AUX DEVICE IS AN LU 83B3
1	HEX	80	DEVA1050	AUX DEVICE IS AN LU 1050
1	HEX	90	DEVA2780	AUX DEVICE IS AN LU 2780
1	HEX	91	DEVA3780	AUX DEVICE IS A LU 3780
1	HEX	92	DEVARS05	AVAILABLE
1	HEX	93	DEVARS06	AVAILABLE
1	HEX	94	DEVARS07	AVAILABLE
1	HEX	95	DEVARS08	AVAILABLE

### Cross Reference

Name	Hex Offset	Hex Value	Level
DEVADVFE	5	01	3
DEVAUXTP	6		2
DEVBASIC	5	40	3
DEVCATTN	3	08	4
DEVCBSC	3	80	4
DEVCCHEK	3	04	4
DEVCCCTL	0	02	4
DEVCHAR	0		3
DEVCHAR2	1		3
DEVCHAR3	3	08	3
DEVCONVR	0	20	4
DEVCRVB	3	20	4
DEVCSLPN	3	01	4
DEVCSL	3	40	4
DEVCSLCL	3	02	4
DEVCSWL	3	10	4
DEVFCCTL	3	80	3
DEVFLAGS	3		2
DEVINPUT	0	80	4
DEVLANG	7		2
DEVLNGID	7	40	3
DEVMCODE	2		2
DEVMODE	5		2
DEVNNSPT	0	04	4
DEVOTPUT	0	40	4
DEVPHYSA	4		2
DEVQUERY	7	80	3
DEVREC	5	80	3
DEVSHCH	0		2
DEVSPOLL	0	01	4
DEVSPS	0	08	4
DEVSUBND	0	10	4
DEVTCODE	1		2
ISTDEVCH	0		1

**VTAM VABEND Reason Codes (DIE)**

<b>Function:</b>	DIE provides a definition for all VTAM VABEND codes (including VTAM DIE reason codes).
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**Constants**

Len	Type	Value	Name	Description
1	HEX	FF	DIEFLAV	Indicate an FF flavor of ABEND
2	HEX	FF01	DIEURRT	The info unit type was not request, response, or vector
2	HEX	FF02	DIEFBLKF	A FREEBLK macro returned a non-zero return code
2	HEX	FF03	DIEIFCN	An invalid function code was detected by a called module
2	HEX	FF04	DIEMISSI	A request, response, or vector was not defined to the RU information table
2	HEX	FF05	DIEIRENV	The main entry for the extended router was invoked but processing was already occurring within a CALLSSCP environment
2	HEX	FF06	DIENOSEN	No sense code was set but should have been
2	HEX	FF07	DIENOFMT	The CPCBURC field contained no format but response has format
2	HEX	FF08	DIENOASS	The associated RUPE pointer in response RUPE was zero
2	HEX	FF09	DIENOVWA	The VWA area in use is too small to satisfy this request
2	HEX	FF10	DIERSPAB	A request to queue response to PAB was made
2	HEX	FF11	DIEISUSP	An invalid suspend code was passed to suspend
2	HEX	FF12	DIEISENV	An invalid SENDER invocation was made
2	HEX	FF13	DIEUNEXP	An unexpected value was received
2	HEX	FF14	DIESTATE	An invalid state was encountered (e.g. invalid state machine value or otherwise leg of a select statement was encountered)
2	HEX	FF15	DIEIMPBS	Impossible bit value setting. For example, if a field (enumerated type) can only take on 4 values (BIT(2)). This is that unattainable 5th value !
2	HEX	FF16	DIEUNXCB	An unexpected control block was received as input
2	HEX	FF17	DIEINVSB	A invalid sib or sib address was passed to freesib
2	HEX	FF18	DIENOBUF	The SENDER buffer area is not large enough
2	HEX	FF19	DIEIDET	The DETERMINER routine returned invalid results
2	HEX	FF20	DIEIBLD	The BUILD routine returned invalid results
2	HEX	FF21	DIEVTRF	VTFREE failed
2	HEX	FF22	DIESRTF	SRTDEL failed

## Dump/Load/Restart Parameter List (DLRPL)

<b>Function:</b>	DLRPL describes the work element used by the dump/load/restart subtask.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ATCDLRPT (ATCVT) RRNCDPWE (RRN)
<b>Included Blocks:</b>	CPCB (DLRPLPFX) TPMPL (DLRPLTPM, DLRPLTPL) WTD (DLRPLWTD).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	180	ISTDLRPL	D/L/R PARAMETER LIST
0	(0)	CHARACTER	64	DLRPLPFX	CPCB PREFIX

THE FOLLOWING STRUCTURE MUST COINCIDE WITH THE ISTCPCB

0	(0)	UNSIGNED	1	DLRPLIDF	CONTROL BLOCK ID FIELD
1	(1)	UNSIGNED	1	DLRPLLTH	CONTROL BLOCK LENGTH
2	(2)	BITSTRING	1	DLRPLFLG	CONTROL BLOCK FLAGS
3	(3)	UNSIGNED	1	DLRPLRCD	D/L/R RETURN CODE
4	(4)	CHARACTER	12	DLRPLWTO	OVERLAY FOR CPCBTO
4	(4)	ADDRESS	4	DLRPLQPT	POINTER TO NEXT WORK ELEMENT
4	(4)	ADDRESS	4	DLRPLUSR	USER DATA FIELD
8	(8)	CHARACTER	8	*	RESERVED - NOT AVAILABLE
16	(10)	CHARACTER	12	DLRPLWTD	REQUESTER NOTIFICATION FIELDS
16	(10)	ADDRESS	4	DLRPLRNF	POINTER TO REQUESTER NOTIFICATION
20	(14)	UNSIGNED	1	DLRPLRPF	REQUESTER NOTIFICATION TYPE
21	(15)	CHARACTER	7	*	RESERVED - NOT AVAILABLE
28	(1C)	CHARACTER	36	*	RESERVED - NOT AVAILABLE

END STRUCTURE TO COINCIDE WITH ISTCPCB

64	(40)	CHARACTER	72	DLRPLRSA	REGISTER SAVE AREA
64	(40)	CHARACTER	16	*	1ST 4 WORDS OF REGISTER SAVE AREA
80	(50)	ADDRESS	4	DLRPLR15	REGISTER 15 SAVE AREA
136	(88)	UNSIGNED	1	DLRPLFCD	D/L/R FUNCTION CODE
137	(89)	CHARACTER	3	DLRPLRS0	NOT USED - AVAILABLE
140	(8C)	CHARACTER	36	DLRPLTPM	TPMSG PARAMETER LIST
140	(8C)	CHARACTER	36	DLRPLTPL	(ALIAS FOR ISTINCR6 USE)
176	(B0)	ADDRESS	4	DLRPLCON	POINTER TO CONSOLE ID (OR POI HEADER
180	(B4)	CHARACTER	*	DLRPLIST	PARAMETER LIST

THE FOLLOWING PARAMETER LISTS ARE BASED AT DLRPLIST  
 PARAMETER LIST FOR MODULE ISTINCOQ (CPMSG PROCESSOR)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	DLRPLCOQ	ISTINCOQ PARAMETER LIST
0	(0)	BITSTRING	4	DLRPLOPT	RESPONSE PROCESSING OPTIONS
		1... ....		DLRPLFOL	FOLD RESPONSE
		.1.. ....		DLRPLGYN	GUARANTEE YES/NO

PARAMETER LIST FOR MODULE ISTINCDP (PURGE PROCESSOR)

0	(0)	STRUCTURE	4	DLRPLCDP	ISTINCDP PARAMETER LIST
0	(0)	ADDRESS	4	DLRPLWKE	POINTER TO WORK ELEMENT TO BE PURGED

PARAMETER LIST FOR MODULE ISTINCR6 (CKPTN PROCESSOR)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	52	DLRPLCR6	ISTINCR6 PARAMETER LIST
0	(0)	ADDRESS	4	DLRPLNOD	POINTER TO NODE ID
4	(4)	ADDRESS	4	*	ISTINCR6 OPTIONS AREA
4	(4)	UNSIGNED	1	DLRPLFNC	ISTINCR6 OP CODE FIELD
5	(5)	BITSTRING	1	DLRPLSWS	ISTINCR6 SWITCHES
8	(8)	CHARACTER	4	DLRPLMID	ISTINCR6 MESSAGE ID FIELD
12	(C)	ADDRESS	4	DLRPLSA1	ISTINCR6 SAVE AREA 1
16	(10)	ADDRESS	4	DLRPLSA2	ISTINCR6 SAVE AREA 2
20	(14)	CHARACTER	20	DLRPLMSG	ISTINCR6 MESSAGE TEXT AREA
40	(28)	CHARACTER	12	DLRENDEQ	ISTINCR6 ENQUEUE/DEQUEUE PARAMETER LIST AREA

PARAMETER LIST FOR MODULE ISTINCR4 (CHKPT PROCESSOR)

0	(0)	STRUCTURE	48	DLRPLCR4	ISTINCR4 PARAMETER LIST
0	(0)	ADDRESS	4	DLRPLRDT	POINTER TO RDTE FOR CHECK POINT

NOTE: CARE MUST BE TAKEN THAT THE DECLARATION OF THE FOLLOWING FIELDS OF ISTDLRPL AND CR4RECRD (THE CHECK- POINT RECORD IN MODULE ISTINCR4) ALWAYS MATCH: DLRCHKPT CR4CHKPT

4	(4)	BITSTRING	4	DLRCRMSK	CHECKPOINT OPTION BITS
4	(4)	BITSTRING	2	DLRCHKPT	CHECKPOINTED ITEMS INDICATORS
		1.. ....		DLRACTV	ACTIVE/INACTIVE STATUS CHANGED
		.1.. ....		DLRPACTV	PORT ACT/INACT STATUS CHANGED
		..1. ....		DLRPOLD	POLL DELAY VALUE CHANGED
		...1 ....		DLRNRPL	NEGATIVE RESPONSE TO POLL LIMIT CHANGED
		.... 1..		DLRSESLM	SESSION LIMIT VALUE CHANGED
		.... .1..		DLRDTRLM	DEVICE TRANSMISSION LIMIT CHANGED
		.... .1.		DLRLGAPL	APPL CONTROLLER (LOGAPPL) CHANGED
		.... .1.		DLRLGMOD	LOGON MODE (LOGMODE) CHANGED
		1.. ....		DLRANSMD	ANSWER MODE STATUS CHANGED
		.1.. ....		DLRCUA	CUA VALUE CHANGED
		..1. ....		DLRRNME	RNAME VALUE CHANGED
		...1 ....		DLRPTUSE	PATH USE/NOUSE STATUS CHANGED
		.... 1..		DLRCKRIN	RIN VALUES (PEER, REAL) CHANGED
		.... .1..		DLRCKCRY	CRYPTOGRAPHY VALUES CHANGED (OS/VIS ONLY)
		.... .1.		DLRLDSTA	LOAD STATION CHANGED
		.... .1.		DLRDUSTA	DUMP STATION CHANGED
6	(6)	BITSTRING	1	DLRCRMOD	CHECKPOINT BIT DATA VALUES
		1.. ....		DLRAIMOD	DEVICE HAS BECOME ACTIVE
		.1.. ....		DLRPTMOD	PORT HAS BECOME ACTIVE
		..1. ....		DLRDISK	DISK SWITCHES CHANGED
		...1 1111		DLRRSVD2	NOT USED - AVAILABLE
7	(7)	BITSTRING	1	DLRCRRTN	ISTINCR4 ROUTINE FLAGS FOR OPTIONAL FEATURES
		1.. ....		DLRMDRQD	CRYPTOGRAPHY REQUIRED IN SEGMENT (OS/VIS ONLY)
		.111 1111		DLRRSVD5	NOT USED - AVAILABLE
8	(8)	UNSIGNED	1	DLRPLOPC	ISTINCR4 OP CODE FIELD
9	(9)	ADDRESS	1	DLRPLPID	PATH ID
10	(A)	CHARACTER	1	DLRFLAGS	MISCELLANEOUS FLAGS
		1.. ....		DLRPLWRM	WARM START REQUESTED
		.111 1111		DLRRSVD3	NOT USED - AVAILABLE

NOTE: THE DECLARATION OF THE ISOLA DISK CONTROL BITS (DLRDISK) MUST MATCH THE FIELD CR4DISK IN ISTINCR4.

11	(B)	CHARACTER	1	DLRDISK	ISOLA DISK SWITCHES
		1.. ....		DLRLDDSK	LOAD FROM DISK
		.1.. ....		DLRSVMOD	SAVE MODULE ON DISK
		..1. ....		DLRCCUDP	DISK AUTODUMP
		...1 ....		DLRCCULD	DISK AUTOLOAD
		.... 1..		DLRIGNOR	IGNORE CCUDP, CCULD
		.... .111		DLRPAD	PAD BITS - DO NOT USE
12	(C)	CHARACTER	36	DLRPLWKA	ISTINCR4 MISCELLANEOUS WORK AREA

PARAMETER LIST FOR MODULE ISTCPCRY (CPCRYPT PROCESSOR)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	86	DLRPLCRY	ISTCPCRY PARAMETER LIST

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	UNSIGNED	1	DLRCYOPC	CPCRYPT SUB-FUNCTION CODE
1	(1)	CHARACTER	3	DLRCYRS1	NOT USED - AVAILABLE
4	(4)	ADDRESS	4	DLRPKEY1	POINTER TO CPCRYPT KEY (1) PARAMETER
8	(8)	ADDRESS	4	DLRPKEY2	POINTER TO CPCRYPT KEY (2) PARAMETER
12	(C)	CHARACTER	8	DLRTRANM	APPLICATION NAME FOR CPPOST
20	(14)	CHARACTER	6	DLRTRPNA	PRIMARY NETWORK ADDRESS FOR CPPOST
26	(1A)	CHARACTER	6	DLRTRSNA	SECONDARY NETWORK ADDRESS FOR CPPOST
32	(20)	CHARACTER	12	DLRCYWKA	ISTCPCRY MISCELLANEOUS WORK AREA
44	(2C)	CHARACTER	8	DLRTKEY1	OBTAINED ENCRYPTION KEY OPTIONAL
52	(34)	CHARACTER	8	DLRTKEY2	OBTAINED ENCRYPTION KEY OPTIONAL
60	(3C)	BITSTRING	1	DLRENT1	RPRENTRY FROM RDTE1
61	(3D)	BITSTRING	1	DLRENT2	RPRENTRY FROM RDTE2
62	(3E)	CHARACTER	8	DLRNAME1	RPRNAME FROM RDTE1
70	(46)	CHARACTER	8	DLRNAME2	RPRNAME FROM RDTE2
78	(4E)	CHARACTER	8	DLRCDRM	RCDRCDRM FROM RDTE1

PARAMETER LIST FOR MODULE ISTINMAV (ALLOCATION/DEALLOCATION)

180	(B4)	STRUCTURE	4	DLRPLMAV	PARAMETER LIST FOR ISTINMAV MVS ONLY
180	(B4)	ADDRESS	4	DLRRUPE	ADDRESS OF ACTLINK/DACLINK RUPE

PARAMETER LIST FOR MODULE ISTINVAV (ALLOCATION/DEALLOCATION)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
180	(B4)	STRUCTURE	4	DLRPLVAV	PARAMETER LIST FOR ISTINMAV VM ONLY
180	(B4)	SIGNED	4	DLRDEVC	DEVICE ADDRESS

PARAMETER LIST FOR MODULE ISTPUCX0 (VR SELECTION SUBTASK)

0	(0)	STRUCTURE	64	DLRPLCX0	ISTPUCX0 PARAMETER LIST
0	(0)	ADDRESS	4	DLRX0GBP	POINTER TO GENERIC BIND RUPE
4	(4)	UNSIGNED	4	DLRX0DSA	DESTINATION SUBAREA
8	(8)	CHARACTER	8	DLRX0SLU	SLU NAME
16	(10)	UNSIGNED	4	DLRX0OSA	ORIGIN SUBAREA
20	(14)	CHARACTER	8	DLRX0PLU	PLU NAME
28	(1C)	CHARACTER	8	DLRX0COS	CLASS-OF-SERVICE NAME
36	(24)	UNSIGNED	1	DLRX0RCD	SUBTASK ENTRY REASON CODE
37	(25)	BITSTRING	1	DLRX0FLG	EXIT INFORMATION FLAGS
		1... ..		DLRX0ERO	SESSION REQUEST REQUIRES ERO IN DIRECTION FROM SLU TO PLU
		.111 1111		*	NOT USED - AVAILABLE
38	(26)	CHARACTER	2	DLRX0R00	NOT USED - AVAILABLE

THE PARAMETER LIST AND VR DESCRIPTOR BLOCK BELOW REPRESENT AN EXTERNAL USER INTERFACE (WITH THE INSTALLATION VIRTUAL ROUTE SELECTION EXIT) AND CHANGES MUST BE CONSIDERED ACCORDINGLY. NOTE IN PARTICULAR THAT THE FIRST TWO WORDS OF THE PARAMETER LIST (THE REASON CODE AND USER FIELD POINTERS) APPEAR ALONE IN THE EXIT PARAMETER LIST WHEN THE EXIT IS DRIVEN FOR TERMINATION AND THUS APPEAR IN A SEPARATE DSECT IN THE VR SUBTASK WORK AREA (DECLARED IN ISTPUCX0 AND IN ISTPUCT0). CHANGES IN THE FIRST TWO WORDS MUST BE COORDINATED ACCORDINGLY.

40	(28)	CHARACTER	24	DLRX0STP	EXIT PARAMETER LIST
40	(28)	ADDRESS	4	DLRRCOPT	POINTER TO REASON CODE
44	(2C)	ADDRESS	4	DLRUSRPT	POINTER TO USER DATA FIELD
48	(30)	ADDRESS	4	DLRFLGPT	POINTER TO INFORMATION FLAGS
52	(34)	ADDRESS	4	DLRCOSPT	POINTER TO COS NAME
56	(38)	ADDRESS	4	DLROSAPT	POINTER TO ORIGIN SUBAREA NUMBER
60	(3C)	ADDRESS	4	DLRDSAPT	POINTER TO DESTINATION SUBAREA NUMBER
64	(40)	ADDRESS	4	DLRVRIDP (*)	POINTERS TO VR DESCRIPTOR BLOCKS
		1... ..		DLRLAST	LAST WORD OF LIST

THE FOLLOWING OVERLAY MAPS THE VR DESCRIPTOR BLOCK. VR DESCRIPTOR BLOCKS ARE POINTED TO BY THE ENTRIES IN THE DLVRDIDP ARRAY.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	12	DLRVRDAT (*)	VR DESCRIPTOR BLOCK (1 PER VRID)	
0	(0)	CHARACTER	2	DLRVRID	VIRTUAL ROUTE IDENTIFIER	
0	(0)	UNSIGNED	1	DLRVRN	VIRTUAL ROUTE NUMBER	
1	(1)	UNSIGNED	1	DLRTP1	TRANSMISSION PRIORITY	
2	(2)	UNSIGNED	1	DLRVRSTA	VIRTUAL ROUTE STATUS	
3	(3)	CHARACTER	1	DLRVRRO1	NOT USED - AVAILABLE	
4	(4)	UNSIGNED	2	DLRVTLCT	VR LU-LU SESSION COUNT(VRN,TPI)	
6	(6)	UNSIGNED	2	DLRVRLCT	VR LU-LU SESSION COUNT(ALL TPIS)	
8	(8)	UNSIGNED	2	DLRVTSCT	VR SESSION COUNT (VRN,TPI)	
10	(A)	UNSIGNED	2	DLRVRSCT	VR SESSION COUNT (ALL TPIS)	

## Constants

Len	Type	Value	Name	Description
ISTDLRPL CONTROL BLOCK ID FOR FIELD DLRPLIDF				
1	HEX	50	DLRPLBID	ISTDLRPL CBID
FUNCTION CODE VALUES FOR FIELD DLRPLFCF				
1	DECIMAL	43	DLRPLCKP	FUNCTION = CKPTN
1	DECIMAL	75	DLRPLCHK	FUNCTION = CHKPT
1	DECIMAL	189	DLRPLCPM	FUNCTION = CPMSG
1	DECIMAL	202	DLRPLCAL	FUNCTION = DEVICE ALLOCATION
1	DECIMAL	205	DLRPLCDL	FUNCTION = DEVICE DEALLOCATION
1	DECIMAL	221	DLRPLPRG	FUNCTION = PURGE
1	DECIMAL	234	DLRPLCPT	FUNCTION = CPCRYPT
1	DECIMAL	237	DLRPLVRS	FUNCTION = VIRTUAL ROUTE SELECTION
RETURN CODE VALUES FOR FIELD DLRPLRCD NOTE: SEE ALSO ISTINCR4 RETURN CODES BELOW.				
1	DECIMAL	0	DLRPLAOK	RETURN CODE = SUCCESSFUL
1	DECIMAL	4	DLRPLNOG	RETURN CODE = UNSUCCESSFUL
1	DECIMAL	8	DLRPLPGD	RETURN CODE = PURGED
1	DECIMAL	24	DLRPLHLT	RETURN CODE = HALTED
1	DECIMAL	28	DLRPLUNR	RETURN CODE = UNRECOGNIZED
1	DECIMAL	32	DLRPLNOS	RETURN CODE = NO STORAGE
1	DECIMAL	171	DLRPLABE	RETURN CODE = ABENDED
REQUESTOR NOTIFICATION VALUES FOR FIELD DLRPLRPF				
1	DECIMAL	0	DLRPLRPH	DLRPLRNF -> RPH
1	DECIMAL	1	DLRPLPAB	DLRPLRNF -> PAB
1	DECIMAL	2	DLRPLECB	DLRPLRNF -> ECB
1	HEX	FF	DLRPLNON	NO NOTIFICATION REQUESTED
FUNCTION CODE VALUES FOR FIELDS DLRPLFNC AND DLRPLOPC				
1	DECIMAL	0	DLRPLADD	FUNCTION = ADD (OR WRITE)
1	DECIMAL	1	DLRPLOPN	FUNCTION = OPEN DATA SET
1	DECIMAL	2	DLRPLCLS	FUNCTION = CLOSE DATA SET
1	DECIMAL	3	DLRPLDEL	FUNCTION = DELETE (OR ERASE)
1	DECIMAL	4	DLRPLPW	FUNCTION = OPEN(WARM)
RETURN CODE VALUES FROM ISTINCR4 FOR FIELD DLRPLMNR				
1	HEX	04	DLRPLVSM	VSAM MACRO ERROR
1	HEX	08	DLRPLINC	INCONSISTENT FUNCTIONAL ERROR
1	HEX	0C	DLRPLVTM	VTAM ERROR
1	HEX	10	DLRPLEMP	EMPTY DATA SET
FUNCTION CODE VALUES FOR FIELD DLRCYOPC				
1	DECIMAL	1	DLRCYVfy	FUNCTION = VERIFY KEY EXISTS
1	DECIMAL	2	DLRCYGET	FUNCTION = GET SESSION KEYS
1	DECIMAL	3	DLRCYTRN	FUNCTION = TRANSLATE KEY
1	DECIMAL	4	DLRCYGWT	FUNCTION = GATEWAY TRANSLATE KEY
RETURN CODE VALUES FOR FIELD DLRCYRCD				
1	DECIMAL	4	DLRCYNG1	RDTE(1) PARAMETER INVALID
1	DECIMAL	8	DLRCYNG2	RDTE(2) PARAMETER INVALID

Len	Type	Value	Name	Description
1	DECIMAL	12	DLRCYNOP	FEAT02 NOT OPERATIONAL
1	DECIMAL	16	DLRCYEXT	REJECT BY INSTALLATION EXIT
1	DECIMAL	20	DLRCYLOG	ISTCPCRY LOGICAL ERROR
1	DECIMAL	24	DLRCYSYS	FEAT02 PROGRAM PRODUCT SYSTEM ERROR

VR SELECTION EXIT REASON CODE FOR FIELD DLRX0RCD

1	DECIMAL	0	DLRFIRST	VR SELECT (FIRST TIME)
1	DECIMAL	1	DLRSELCT	VR SELECT (SUBSEQUENT TIMES)
1	DECIMAL	2	DLRVRABE	VR SELECT (AFTER ABEND)
1	DECIMAL	3	DLRTERM	TERMINATION (VTAM HALTED)
1	DECIMAL	4	DLRABTRM	TERMINATION (AFTER ABEND)

CONSTANTS FOR DLRVRSTA FIELD

4	DECIMAL	1	DLRVRNAC	VIRTUAL ROUTE NOT ACTIVE
4	DECIMAL	2	DLRVRACT	VIRTUAL ROUTE IS ACTIVE

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DLRACTV	4	80	4	DLRPLCR4	0		1
DLRAIMOD	6	80	4	DLRPLCR6	0		1
DLRANSMD	5	80	4	DLRPLCX0	0		1
DLRCCUDP	B	20	3	DLRPLFCD	88		2
DLRCCULD	B	10	3	DLRPLFLG	2		3
DLRCDRM	4E		2	DLRPLFNC	4		3
DLRCHKPT	4		3	DLRPLFOL	0	80	3
DLRCKCRY	5	04	4	DLRPLGYN	0	40	3
DLRCKRIN	5	08	4	DLRPLIDF	0		3
DLRCOSPT	34		3	DLRPLIST	B4		2
DLRCRMOD	6		3	DLRPLLTH	1		3
DLRCRMSK	4		2	DLRPLMAV	B4		1
DLRCRRTN	7		3	DLRPLMID	8		2
DLRCUA	5	40	4	DLRPLMSG	14		2
DLRCYOPC	0		2	DLRPLNOD	0		2
DLRCYRS1	1		2	DLRPLOPC	8		2
DLRCYWKA	20		2	DLRPLOPT	0		2
DLRDEV	B4		2	DLRPLPFX	0		2
DLRDISK	B		2	DLRPLPID	9		2
DLRDISKC	6	20	4	DLRPLQPT	4		4
DLRDSAPT	3C		3	DLRPLRCD	3		3
DLRDTRLM	4	04	4	DLRPLRDT	0		2
DLRDUSTA	5	01	4	DLRPLRNF	10		4
DLRENDEQ	28		2	DLRPLRPF	14		4
DLRENT1	3C		2	DLRPLRSA	40		2
DLRENT2	3D		2	DLRPLRS0	89		2
DLRFLAGS	A		2	DLRPLR15	50		3
DLRFLGPT	30		3	DLRPLSA1	C		2
DLRIGNOR	B	08	3	DLRPLSA2	10		2
DLRLAST	40	80	4	DLRPLSWS	5		3
DLRLDDSK	B	80	3	DLRPLTPL	8C		3
DLRLDSTA	5	02	4	DLRPLTPM	8C		2
DLRLGAPL	4	02	4	DLRPLUSR	4		5
DLRLGMOD	4	01	4	DLRPLVAV	B4		1
DLRMDRQD	7	80	4	DLRPLWKA	C		2
DLRNAME1	3E		2	DLRPLWKE	0		2
DLRNAME2	46		2	DLRPLWRM	A	80	3
DLRNRPL	4	10	4	DLRPLWTD	10		3
DLROSAPT	38		3	DLRPLWTO	4		3
DLRPACTV	4	40	4	DLRPOLD	4	20	4
DLRPAD	B	04	3	DLRPTMOD	6	40	4
DLRPKEY1	4		2	DLRPTUSE	5	10	4
DLRPKEY2	8		2	DLRRCDPT	28		3
DLRPLCDP	0		1	DLRRNME	5	20	4
DLRPLCON	B0		2	DLRRSVD2	6	10	4
DLRPLCOQ	0		1	DLRRSVD3	A	40	3
DLRPLCRY	0		1	DLRRSVD5	7	40	4



Name	Hex Offset	Hex Value	Level
DLRRUPE	B4		2
DLRSESLM	4	08	4
DLRSVMOD	B	40	3
DLRTKEY1	2C		2
DLRTKEY2	34		2
DLRTPI	1		3
DLRTRANM	C		2
DLRTRPNA	14		2
DLRTRSNA	1A		2
DLRUSRPT	2C		3
DLRVRDAT	0		1
DLRVRID	0		2
DLRVRIDP	40		3
DLRVRLCT	6		2
DLRVRN	0		3
DLVRR01	3		2
DLVRSCT	A		2
DLVRSSTA	2		2
DLVTLCT	4		2
DLVTSCT	8		2
DLRXOCOS	1C		2
DLRXODSA	4		2
DLRXOER0	25	80	3
DLRXOFLG	25		2
DLRXOGBP	0		2
DLRXOOSA	10		2
DLRXOPLU	14		2
DLRXORCD	24		2
DLRXOR00	26		2
DLRXOSLU	8		2
DLRXOSTP	28		2
ISTDLRPL	0		1

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## Dial Number Table (DNT)

<b>Function:</b>	DNT maps information used to establish a dial-out connection.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	33 (X'21')
<b>Pointed to by:</b>	RSWDIALT (RSW)
<b>Located in:</b>	Found in switched terminal set header and RNCA.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	33	ISTDNT	DIAL NUMBER TABLE
0	(0)	UNSIGNED	1	DNTCTDIG	NUMBER OF DIGITS IN TELEPHONE NUMBER OR ZERO IF DIRECT CALL PATH
1	(1)	CHARACTER	32	DNTTELNO	TELEPHONE NUMBER
1	(1)	CHARACTER	8	DNTNAME	LINE NAME USED INSTEAD OF DIAL NUMBERS FOR X21 SW DIRECT CALL PATHS

## Direct Search List Session Information Control Block (DSSIB)

<b>Function:</b>	DSSIB provides a mapping for the direct search list session information control block.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	92 (X'5C')
<b>Pointed to by:</b>	ATCDSSBQ (ATCVT)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	92	ISTDSSIB	Direct Search List SIB
0	(0)	UNSIGNED	1	DSSCBID	Direct Search List SIB ID
1	(1)	UNSIGNED	1	DSSFSM	Process status FSM
2	(2)	BITSTRING	1	DSSSTAT	Status flags
		1... ....		DSSRCINC	Routing count has been incremented
		.1... ....		DSSOLUD	1 = In originating domain
		..1. ....		DSSRDET	DLU real name has been determined
		...1 ....		DSSADET	DLU alias name has been determined
		.... 1...		DSSRTIP	1 = This session is performing routing 0 = Session is not performing routing
		.... .1..		*	RESERVED
		.... ..11		*	RESERVED
3	(3)	UNSIGNED	1	DSSRTFSM	Routing FSM (See ISTASRIT for values)
4	(4)	ADDRESS	4	DSSBKPTR	Pointer to the previous element on the DSSIB chain
8	(8)	ADDRESS	4	DSSFWPTR	Pointer to the next element on the DSSIB chain
12	(C)	UNSIGNED	1	DSSVISIT	SSCP Visit count
13	(D)	CHARACTER	1	DSSLUST	LU status
		1... ....		DSSLUAV	0 = LU unavailable 1 = LU available
		.111 ....		*	The following fields are meaningful only if the LU is unavailable (DSSLUAV = 0)
		.1... ....		DSSLSCE	LU session count exhausted
		..1. ....		DSSLBTD	LU being taken down
		...1 ....		DSSLNE	LU not enabled (Implementation: the LU is permanently blocking logons)
		.... 1...		DSSSLCE	0 = SSCP to LU connection exists 1 = No SSCP to LU connection exists
		.... .111		*	Not used - available
14	(E)	CHARACTER	1	DSSLUIN	LU information
		1... ....		DSSNHS	0 = LU does not reside in PU-T5 node 1 = LU resides in PU-T5 node
		.1... ....		DSSPCAP	0 = LU is not primary capable 1 = LU is primary capable
		..1. ....		DSSAPPL	0 = LU is accepting initiates or is accepting logons. 1 = LU is temporarily blocking initiates and logons
		...1 ....		DSSPARL	0 = LU is not parallel session capable 1 = LU is parallel session capable
		.... 1...		DSSENA	0 = LU is not ENA capable 1 = LU is ENA capable
		.... .1..		DSSSSCPs	1 = SSCP Status DSRLST
		.... ..1.		DSSPDRBT	1 = Predefined RDTE rebuilt by this request
		.... ...1		*	Not used - available
15	(F)	CHARACTER	1	*	Available
16	(10)	ADDRESS	4	DSSASLP	Adjacent SSCP list pointer (ISTASRIT)
20	(14)	ADDRESS	4	DSSFQPC	Pointer to name portion of fully qualified PCID
24	(18)	CHARACTER	8	DSSPCID	PCID for this request
32	(20)	CHARACTER	8	DSSOSSCP	Owning SSCP name
40	(28)	CHARACTER	8	DSSRNAME	Real name of DLU resource
48	(30)	CHARACTER	8	DSSNRNID	DLU network ID
56	(38)	CHARACTER	8	DSSALIAS	Alias name of DLU resource
64	(40)	CHARACTER	8	DSSALNID	DLU alias network ID
72	(48)	CHARACTER	8	DSSASSCP	Adjacent SSCP in originating direction
80	(50)	ADDRESS	4	DSSRDTE	Pointer to DLU RDTE
84	(54)	ADDRESS	4	DSSREQP	Pointer to RUDB for request
88	(58)	ADDRESS	4	DSSRSPP	Pointer to RUDB for response

### Constants

Len	Type	Value	Name	Description
Value for DSSCBID , Control Block ID				
1	HEX	6B	DSSCBTYP	Direct Search List SIB
Values for DSSFSM				
1	HEX	10	DSSFPDSL	Processing DSRLST
1	HEX	20	DSSFTLUN	Translating LU name
1	HEX	30	DSSFRIP	Routing in progress
1	HEX	40	DSSFDSS	Pending DSRLST Response

### Cross Reference

Name	Hex Offset	Hex Value	Level
DSSADET	2	10	3
DSSALIAS	38		2
DSSALNID	40		2
DSSAPPL	E	20	3
DSSASLP	10		2
DSSASSCP	48		2
DSSBKPTR	4		2
DSSCBID	0		2
DSSENA	E	08	3
DSSFQPC	14		2
DSSFSM	1		2
DSSFWPTR	8		2
DSSLBTD	D	20	4
DSSLNE	D	10	4
DSSLSCE	D	40	4
DSSLUAV	D	80	3
DSSLUIN	E		2
DSSLUST	D		2
DSSNHS	E	80	3
DSSNRNID	30		2
DSSOLUD	2	40	3
DSSOSSCP	20		2
DSSPARL	E	10	3
DSSPCAP	E	40	3
DSSPCID	18		2
DSSPDRBT	E	02	3
DSSRCINC	2	80	3
DSSRDET	2	20	3
DSSRDTE	50		2
DSSREQP	54		2
DSSRNAME	28		2
DSSRSP	58		2
DSSRTFSM	3		2
DSSRTIP	2	08	3
DSSSLCE	D	08	3
DSSSSCPS	E	04	3
DSSSTAT	2		2
DSSVISIT	C		2
ISTDSSIB	0		1

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## Device Characteristics Control Block (DVCHR)

<b>Function:</b>	DVCHR contains information about device characteristics. See DEVCH for the data area map.
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## Destination Vector Table (DVT)

<b>Function:</b>	DVT is a parameter list for the VTAM execution sequence controller. DVT lists, in the order they are to be executed, the routines needed to perform a given function.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable
<b>Pointed to by:</b>	PABDVTA (PAB) RPHDVTA (RPH) VIT entries: DISP (PSS PAB Dispatch) ESC (PSS TPESC) EXIT (PSS TPEXIT) POST (PSS TPPOST) QUE (PSS TPQUE) RESM (PSS Dispatch) SCHED (PSS TPSCHED) WAIT (PSS TPWAIT) See <i>VTAM Diagnosis</i> for more information on the VIT entries.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	ISTDVT	
0	(0)	CHARACTER	24	DVTHDR	USED BY ISTOCCRD AND FUNCTION RELEASE
0	(0)	ADDRESS	4	DVTHFORW	POINTS TO NEXT DVT ON CHAIN
4	(4)	SIGNED	2	DVTHECNT	NUMBER OF ENTRIES IN THE DVT
6	(6)	SIGNED	2	DVTHUCNT	USE COUNT = NUMBER OF EPT'S REFERENCING THE DVT
8	(8)	CHARACTER	1	DVTHFGA	FLAG FIELD 1
		1... ....		DVTHFGA0	FLAG BYTE: X'80' = A DUPLICATE DVT HAS BEEN BUILT
		.1.. ....		DVTHFGA1	DELETE PROCESS MODULE FOR THIS DVT
		..1. ....		DVTRSV02	RESERVED
		...1 ....		DVTRSV03	RESERVED
		.... 1..		DVTRSV04	RESERVED
		.... .1..		DVTRSV05	RESERVED
		.... ..1.		DVTRSV06	RESERVED
		.... ...1		DVTRSV07	RESERVED
9	(9)	CHARACTER	1	DVTHFGB	RESERVED
10	(A)	SIGNED	2	DVTHLEN	LENGTH OF DVT (BYTES)
12	(C)	SIGNED	2	DVTHDCNT	COUNT OF DUPLICATE DVT'S
14	(E)	CHARACTER	6	DVTRSV15	RESERVED
20	(14)	CHARACTER	4	DVTRSV01	RESERVED
24	(18)	CHARACTER	*	DVTENTRY	BEGIN ENTRIES

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTDVTE	
0	(0)	ADDRESS	4	DVTPROC	PROCESSOR POINTER FIELD
		1... ....		DVTEXTF	END OF DVT

**Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>	<b>Level</b>
DVTENTRY	18		2
DVTEXTF	0	80	3
DVTHDCNT	C		3
DVTHDR	0		2
DVTHECNT	4		3
DVTHFGA	8		3
DVTHFGA0	8	80	4
DVTHFGA1	8	40	4
DVTHFGB	9		3
DVTHFORW	0		3
DVTHLEN	A		3
DVTHUCNT	6		3
DVTPROC	0		2
DVTRSV01	14		3
DVTRSV02	8	20	4
DVTRSV03	8	10	4
DVTRSV04	8	08	4
DVTRSV05	8	04	4
DVTRSV06	8	02	4
DVTRSV07	8	01	4
DVTRSV15	E		3
ISTDVT	0		1
ISTDVTE	0		1

## Disabled Work Area (DWA)

<b>Function:</b>	DWA maps a work area used in disabled code. This storage area resides in fixed storage.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	2368 (X'940')
<b>Pointed to by:</b>	A particular disabled work area for a host processor is located by (ATCDWA + host processor address) * length(ISTDWA).
<b>Included Blocks:</b>	RPH (DWARPH), LOK (DWALOCK).

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2368	ISTDWA	DISABLED WORK AREA	
0	(0)	CHARACTER	108	DWARPH	RPH HEADER	
108	(6C)	CHARACTER	4	*	AVAILABLE UNUSED	
112	(70)	CHARACTER	8	DWALOCK	LOCK WORD	
120	(78)	ADDRESS	4	DWALOCKA	ADDRESS OF HELD LOCK	
		1... ....		DWALOCKF	LOCK HELD FLAG (0) = LOCK HAS BEEN RELEASED (1) = LOCK HELD	
124	(7C)	CHARACTER	4	*	TSLOCK SAVE AREA	
124	(7C)	CHARACTER	1	DWAIMASK	INTERRUPT MASK SAVE AREA	
125	(7D)	CHARACTER	3	*	RESERVED	
128	(80)	CHARACTER	4	*	AVAILABLE	
136	(88)	CHARACTER	180	DWAOWA	OUTBOUND WORK AREA	
316	(13C)	CHARACTER	4	*	AVAILABLE	
320	(140)	CHARACTER	1024	DWAGWA	GENERAL WORK AREA	
1344	(540)	CHARACTER	1024	DWAAWA	ATTENTION HANDLER WORK AREA	
2368	(940)	CHARACTER		DWAEND	END OF DWA	

### Cross Reference

Name	Hex Offset	Hex Value	Level
DWAAWA	540		2
DWAEND	940		2
DWAGWA	140		2
DWAIMASK	7C		3
DWALOCK	70		2
DWALOCKA	78		2
DWALOCKF	78	80	3
DWAOWA	88		2
DWARPH	0		2
ISTDWA	0		1



## Dynamic Process Anchor Block (DYPAB)

<b>Function:</b>	DYPAB contains a header and a PAB that is needed to run a VTAM process, but would not otherwise be in a control block.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	36 (X'24')
<b>Included Blocks:</b>	PAB (DYPPAB)

### Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	36	ISTDYPAB	LEVEL 1 DECLARE
0	(0)	CHARACTER	1	DYPTYPE	CONTROL BLOCK TYPE CODE
1	(1)	UNSIGNED	1	DYPLNGTH	CONTROL BLOCK LENGTH (BYTES)
2	(2)	CHARACTER	2	DYPFLGS	FLAGS
4	(4)	ADDRESS	4	DYPCHAIN	CHAIN POINTER
4	(4)	ADDRESS	4	DYPPACTB	POINTER TO PACE TABLE
8	(8)	ADDRESS	4	DYPTSKID	TASKID OR POINTER TO PSS TABLES
12	(C)	CHARACTER	4	*	NOT USED - AVAILABLE
16	(10)	CHARACTER	20	DYPPAB	START OF PAB

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR CONTROL BLOCK TYPE CODE (DYTYPE)				
1	HEX	11	DYTYP	TYPE

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## Event Control Block (ECB)

<b>Function:</b>	ECB maps the system event control block used by wait logic.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	4

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTECB	EVENT CONTROL BLOCK
0	(0)	CHARACTER	1	*	RESERVED
		1... ....		+	TRAFFIC BIT
		.1.. ....		ECBCOMP	COMMON NAME FOR COMPLETION BIT
		..11 1111		*	RESERVED
1	(1)	UNSIGNED	3	ECBCODE	COMPLETION CODE

## Common Mapping for Event IDs (EID)

**Function:** EID provides a mapping for the IDs of events waited on throughout VTAM.

**Boundary:** Byte.

**Size in bytes:** Variable.

**Additional Notes:** For more information on the event IDs, see *VTAM Messages and Codes*.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	22	EIDCDIAL	SESSION SERVICES IS WAITING FOR A DIAL TO BE COMPLETED	
0	(0)	CHARACTER	2	EIDDIZER	ENSURES EVENT UNIQUENESS	
2	(2)	CHARACTER	4	EIDDIID	EYE CATCHER EVENT IDENTIFIER	
6	(6)	CHARACTER	8	EIDDIPNM	THE PHYSICAL UNIT'S NAME	
14	(E)	CHARACTER	8	EIDDIPCI	THE PROCEDURE CORRELATION ID (PCID) ASSOCIATED WITH THE SESSION	
22	(16)	CHARACTER	*	EIDDIPCD	OUR SESSION PCID	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	6	EIDCNACT	CONFIGURATION SERVICES IS WAITING FOR AN NCP TO BECOME ACTIVE	
0	(0)	CHARACTER	6	EIDNANAD	THE NCP'S NETWORK ADDRESS	
0	(0)	STRUCTURE	14	EIDCLACT	CONFIGURATION SERVICES IS WAITING FOR A LINK TO BECOME ACTIVE	
0	(0)	CHARACTER	6	EIDLANNA	THE NCP NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDLALNA	THE LINK NETWORK ADDRESS	
12	(C)	CHARACTER	2	EIDLAID	ENSURES EVENT UNIQUENESS	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	14	EIDCCIRS	CONFIGURATION SERVICES IS WAITING FOR A RESPONSE TO AN ACTIVATE OR DEACTIVATE CONNECT IN	
0	(0)	CHARACTER	6	EIDCINNA	NCP NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDCILNA	LINK NETWORK ADDRESS	
12	(C)	CHARACTER	2	EIDCIIID	ENSURES EVENT UNIQUENESS	
0	(0)	STRUCTURE	16	EIDCTRRS	CONFIGURATION SERVICES IS WAITING FOR THE RESPONSE TO AN ACTIVATE OR DEACTIVATE TRACE REQUEST	
0	(0)	CHARACTER	6	EIDTRNNA	THE NCP NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDTRRNA	THE RESOURCE NETWORK ADDRESS	
12	(C)	CHARACTER	3	EIDTRRQC	SNA REQUEST CODE	
15	(F)	CHARACTER	1	EIDTRTTY	TRACE REQUEST UNIT TYPE BYTE	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	10	EIDCSTBL	SESSION SERVICES IS WAITING FOR AN LU TO BECOME STABLE	
0	(0)	CHARACTER	2	EIDSTZER	ENSURES EVENT UNIQUENESS	
2	(2)	CHARACTER	8	EIDSTLNM	THE LOGICAL UNIT'S NAME	
10	(A)	CHARACTER	*	EIDSTPCD	SESSION PCID	
0	(0)	STRUCTURE	24	EIDCTNRS	CONFIGURATION SERVICES IS WAITING FOR THE RESPONSE TO AN ACTIVATE OR DEACTIVATE NETCLR TRACE REQUEST	
0	(0)	CHARACTER	16	*	ACT/DEACT TRACE EID	
16	(10)	CHARACTER	8	EIDTNLNN	NAME OF LINE	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	11	EIDCTRNA	CONFIGURATION SERVICE IS WAITING FOR A RESPONSE TO A RNAA FOR A INDEPENDENT LU WHEN PROCESSING A ACTIVATE TRACE COMMAND	
0	(0)	CHARACTER	8	EIDTRLUA	LU RESOURCE NAME	
8	(8)	CHARACTER	3	EIDTRRHC	SNA REQUEST CODE FOR RNAA	

WAIT STATE EVENT IDS ASSOCIATED WITH THE SESSION SERVICES CONTROL  
 I/O LQABS POINTED TO BY ATCIOLQB.

0	(0)	STRUCTURE	15	EIDINFRS	THE ORIGINATOR OF A REQUEST IS WAITING FOR A RESPONSE TO A NORMAL FLOW REQUEST UNIT	
0	(0)	CHARACTER	6	EIDNFONA	NETWORK ADDRESS OF ORIGINATOR OF REQUEST	
6	(6)	CHARACTER	6	EIDNFDNA	NETWORK ADDRESS OF DESTINATION RESOURCE	
12	(C)	CHARACTER	1	EIDNFD	ENSURES EVENT UNIQUENESS	
13	(D)	CHARACTER	2	EIDNFRSQ	REQUEST UNIT SEQUENCE NUMBER	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	15	EIDIEFRS	THE ORIGINATOR OF A REQUEST IS WAITING FOR A RESPONSE TO AN EXPEDITED FLOW REQUEST UNIT	
0	(0)	CHARACTER	6	EIDEFONA	NETWORK ADDRESS OF ORIGINATOR OF REQUEST	
6	(6)	CHARACTER	6	EIDEFDNA	NETWORK ADDRESS OF DESTINATION RESOURCE	
12	(C)	CHARACTER	1	EIDEFID	ENSURES EVENT UNIQUENESS	
13	(D)	CHARACTER	2	EIDEFRSQ	REQUEST UNIT SEQUENCE NUMBER	
0	(0)	STRUCTURE	15	EIDIRCRU	MANAGEMENT SERVICES IS WAITING TO RECEIVE A REQUEST UNIT WITH A CERTAIN PROCEDURE ID FROM A PU	
0	(0)	CHARACTER	6	EIDRCSSC	SESSION SERVICES CONTROL POINT NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDRCPNA	THE PHYSICAL UNIT'S NETWORK ADDRESS	
12	(C)	CHARACTER	1	EIDRCID	ENSURES EVENT UNIQUENESS	
13	(D)	CHARACTER	2	EIDRCPRI	PROCEDURE RELATION ID (PRID)	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	23	EIDINTFY	SESSION SERVICES IS WAITING FOR A SESSION SETUP ATTEMPT TO SUCCEED OR FAIL SO THAT THE SESSION INITIATOR MAY BE NOTIFIED	
0	(0)	CHARACTER	6	EIDINSSC	SESSION SERVICES CONTROL POINT'S NETWORK ADDRESS	
6	(6)	CHARACTER	1	EIDINFID	ENSURES EVENT UNIQUENESS	
7	(7)	CHARACTER	8	EIDINPCD	PROCEDURE CORRELATION ID (PCID)	
15	(F)	CHARACTER	8	EIDISSCP	NAME OF SSCP IN THE OLU DIRECTION	
23	(17)	CHARACTER	*	EIDINPCI	SESSION PCID	
0	(0)	STRUCTURE	21	EIDICDNT	SESSION SERVICES IS WAITING FOR A CROSS DOMAIN SESSION SETUP ATTEMPT TO SUCCEED OR FAIL SO THAT THE SESSION INITIATOR MAY BE NOTIFIED	
0	(0)	CHARACTER	6	EIDICDSC	SESSION SERVICES CONTROL POINT'S NETWORK ADDRESS	
6	(6)	CHARACTER	1	EIDICDID	ENSURES EVENT UNIQUENESS	
7	(7)	CHARACTER	6	EIDICDNA	CDRM IN DLU DIRECTION NETWORK ADDRESS	
13	(D)	CHARACTER	8	EIDICDPC	PROCEDURE CORRELATION ID (PCID)	
21	(15)	CHARACTER	*	EIDICDPD	SESSION PCID	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	19	EIDIRSTO	CONFIGURATION SERVICES IS WAITING FOR A RECORD STORAGE REQUEST FROM THE NCP	
0	(0)	CHARACTER	6	EIDRSSSC	SESSION SERVICES CONTROL POINT'S NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDRSNNA	THE NCP NETWORK ADDRESS	
12	(C)	CHARACTER	1	EIDRSID	ENSURES EVENT UNIQUENESS	
13	(D)	ADDRESS	4	EIDRSSTA	POINTER TO BEGINNING OF STORAGE TO BE DUMPED	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
17	(11)	CHARACTER	2	EIDRSSTL	LENGTH OF STORAGE TO BE DUMPED	
0	(0)	STRUCTURE	21	EIDIGRSA	THE SENDER OF A GENERIC BIND OR UNBIND IS WAITING FOR ROUTE SELECTION AND ACTIVATION	
0	(0)	CHARACTER	6	EIDGRONA	THE ORIGINATOR'S OR SENDER'S NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDGRDNA	THE DESTINATION RESOURCE NETWORK ADDRESS	
12	(C)	CHARACTER	1	EIDGRID	ENSURES EVENT UNIQUENESS	
13	(D)	CHARACTER	8	EIDGRPCI	PROCEDURE CORRELATION ID (PCID)	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	29	EIDISEND	SESSION SERVICES IS WAITING FOR A SESSION ENDED OR CROSS DOMAIN SESSION END TO BE RECEIVED	
0	(0)	CHARACTER	6	EIDSESSC	SESSION SERVICES CONTROL POINT'S NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDSADDR	THE ADDRESS OF THE RESOURCE THE SESSION ENDED IS EXPECTED FROM	
12	(C)	CHARACTER	8	EIDSNET	THE NETWORK IN WHICH THE ADDRESS IS KNOWN	
20	(14)	CHARACTER	1	EIDSESID	ENSURES EVENT UNIQUENESS	
21	(15)	CHARACTER	8	EIDSDPCI	PCID OF SESSION WAITING ON SESSION END	
29	(1D)	CHARACTER	*	EIDSEPCI	SESSION PCID BASING LOCATION	
0	(0)	STRUCTURE	17	EIDIIOSC	THE PVI SUBCOMPONENT IS WAITING TO BE POSTED BY TSC WHEN AN I/O OPERATION HAS BEEN SCHEDULED	
0	(0)	CHARACTER	6	EIDIOONA	THE NETWORK ADDRESS OF THE ORIGINATOR OF THE I/O REQUEST	
6	(6)	CHARACTER	6	EIDIODNA	THE NETWORK ADDRESS OF THE DESTINATION RESOURCE	
12	(C)	CHARACTER	1	EIDIOID	ENSURES EVENT UNIQUENESS	
13	(D)	ADDRESS	4	EIDIOTSC	ADDRESS OF TSCB ASSOCIATED WITH THE REQUEST UNIT	
17	(11)	CHARACTER	*	EIDIOPCI	SESSION PCID BASING LOCATION	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	15	EIDICRV	LOGICAL UNIT SERVICES IS WAITING TO RECEIVE A CRV REQUEST FROM A PRIMARY LU SO THAT 'OPNSEC' MACRO PROCESSING CAN BE COMPLETED	
0	(0)	CHARACTER	6	EIDCRSSC	SESSION SERVICES CONTROL POINT'S NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDCRPLU	THE PRIMARY LU NETWORK ADDRESS	
12	(C)	CHARACTER	3	EIDCRID	EYE CATCHER EVENT IDENTIFIER	
0	(0)	STRUCTURE	14	EIDIOSAR	SESSION SERVICES IS WAITING FOR AN OVERRIDE SESSION ADDRESS REQUEST FOR A NON-SNA LU TO BE COMPLETED	
0	(0)	CHARACTER	6	EIDOSSC	SESSION SERVICES CONTROL POINT'S NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDOSLUA	THE LU'S NETWORK ADDRESS	
12	(C)	CHARACTER	2	EIDOSID	ENSURES EVENT UNIQUENESS	
14	(E)	CHARACTER	*	EIDOPCID	SESSION PCID BASING LOCATION	

WAIT-STATE EVENT IDS ASSOCIATED WITH THE LOGICAL UNIT SERVICES  
MANAGER LQAB POINTED TO BY ATCLUSMQ.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	23	EIDLACPT	LOGICAL UNIT SERVICES IS WAITING FOR A CINIT REQUEST UNIT FROM THE SSCP TO SATISFY AN OPNDST ACCEPT REQUEST	
0	(0)	CHARACTER	8	EIDACPLU	THE PRIMARY LU'S NETWORK NAME	
8	(8)	CHARACTER	6	EIDACID	EYE CATCHER EVENT IDENTIFIER	
14	(E)	CHARACTER	8	EIDACSLU	THE SECONDARY LU'S NETWORK NAME	

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
22	(16)	CHARACTER	1	EIDACVR	INDICATES WHETHER THE OPNDST REQUEST SPECIFIED A BIND-IMAGE OVERRIDE
0	(0)	STRUCTURE	24	EIDLAQIR	LOGICAL UNIT SERVICES IS WAITING FOR A CINIT REQUEST FROM THE SSCP TO SATISFY AN OPNDST 'ACQUIRE' REQUEST
0	(0)	CHARACTER	8	EIDAQPLU	THE PRIMARY LU'S NETWORK NAME
8	(8)	CHARACTER	7	EIDAQID	EYE CATCHER EVENT IDENTIFIER
15	(F)	CHARACTER	9	EIDAQURC	USER REQUEST CORRELATOR

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	EIDLRCVC	LOGICAL UNIT SERVICES IS WAITING FOR AN ACF/VTAM OPERATOR MESSAGE TO BE RECEIVED SO THAT A QUEUED RCVCMD REQUEST CAN BE COMPLETED
0	(0)	CHARACTER	8	EIDRCANM	THE APPLICATION'S NETWORK NAME
8	(8)	CHARACTER	6	EIDRCVID	EYE CATCHER EVENT IDENTIFIER
0	(0)	STRUCTURE	25	EIDLTRK	LUS IS WAITING FOR CRYPTO KEY TRANSLATION IN OPNSEC PROCESSING
0	(0)	CHARACTER	8	EIDTRANM	APPLICATION NAME
8	(8)	CHARACTER	5	EIDTRKID	EVENT IDENTIFIER
13	(D)	CHARACTER	6	EIDTRPNA	PRIMARY NETWORK ADDRESS
19	(13)	CHARACTER	6	EIDTRSNA	SECONDARY NETWORK ADDRESS

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WAIT-STATE EVENT IDS ASSOCIATED WITH THE PHYSICAL UNIT SERVICES  
 LQAB POINTED TO BY ATPULQB.

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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	EIDPPCMP	PHYSICAL UNIT SERVICES IS WAITING FOR AN ONGOING PROCESS TO BE COMPLETED SO THAT ANOTHER REQUEST MAY BE PROCESSED
0	(0)	CHARACTER	2	EIDPCZER	ENSURES EVENT UNIQUENESS
2	(2)	CHARACTER	2	EIDPCELE	LINK ELEMENT ADDRESS
0	(0)	STRUCTURE	10	EIDPFLUC	PHYSICAL UNIT SERVICES IS WAITING THE LUCB ASSOCIATED WITH AN APPLICATION PROGRAM TO BE FREED SO THAT CLOSE ACB PROCESSING CAN COMPLETE
0	(0)	CHARACTER	2	EIDFLELE	APPLICATION PROGRAM'S ELEMENT ADDRESS
2	(2)	CHARACTER	8	EIDFLID	EYE CATCHER EVENT IDENTIFIER

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	EIDPVHLT	PHYSICAL UNIT SERVICES IS WAITING FOR CLOSE ACB PROCESSING FOR ALL APPLICATIONS TO COMPLETE SO THAT HALT PROCESSING CAN BE COMPLETED
0	(0)	CHARACTER	12	EIDVHID	EYE CATCHER EVENT IDENTIFIER
0	(0)	STRUCTURE	16	EIDPACT	PHYSICAL UNIT SERVICES IS WAITING FOR ACTLU TO BE RECEIVED FROM THE SSCP SO THAT OPEN ACB PROCESSING CAN BE COMPLETED FOR AN APPLICATION PROGRAM
0	(0)	CHARACTER	8	EIDACANM	NETWORK NAME OF APPLICATION
8	(8)	CHARACTER	8	EIDACTID	EYE CATCHER EVENT IDENTIFIER

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	18	EIDPDACT	PHYSICAL UNIT SERVICES IS IS WAITING FOR DACTLU TO BE RECEIVED FROM THE SSCP SO THAT CLOSE ACB PROCESSING CAN BE COMPLETED FOR AN APPLICATION
0	(0)	CHARACTER	8	EIDDAANM	NETWORK NAME FOR APPLICATION

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
8	(8)	CHARACTER	10	EIDDAID	EYE CATCHER EVENT IDENTIFIER	
0	(0)	STRUCTURE	14	EIDPADDV	PHYSICAL UNIT SERVICES IS WAITING FOR ALLO- CATION OR DEALLOCATION OF A LINK TO COMPLETE SO THAT DACTLINK PROCESSING MAY COMPLETE	
0	(0)	CHARACTER	4	EIDADCUA	THE LINK'S CHANNEL UNIT ADDRESS	
4	(4)	CHARACTER	10	EIDADID	EYE CATCHER EVENT IDENTIFIER	

WAIT-STATE EVENT IDS ASSOCIATED WITH THE NETWORK OPERATOR  
SERVICES LQAB POINTED TO BY ATCNOSQ.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	18	EIDNNORS	NETWORK OPERATOR SERVICES IS WAITING FOR A RECORD STORAGE REQUEST TO BE RECEIVED FROM AN NCP AS PART OF 'D NCPSTOR' OR 'D DISK COMMAND PROCESSING	
0	(0)	CHARACTER	8	EIDNONAM	THE NETWORK NAME OF THE NCP	
8	(8)	CHARACTER	3	EIDNOZER	ENSURES EVENT UNIQUENESS	
11	(B)	ADDRESS	4	EIDNOSTA	POINTER TO BEGINNING OF NCP STORAGE AREA TO BE DUMPED	
15	(F)	CHARACTER	2	EIDNOSTL	LENGTH OF STORAGE AREA TO BE DUMPED	
17	(11)	CHARACTER	1	EIDNOTYP	EVENTID TYPE	
0	(0)	STRUCTURE	10	EIDNRTR	NETWORK OPERATOR SERVICES IS WAITING FOR A RECORD TEST RESULTS REQUEST TO BE RECEIVED FROM AN NCP AS PART OF 'MODIFY LL2' COMMAND PROCESSING	
0	(0)	CHARACTER	8	EIDRTNAM	THE NETWORK NAME OF THE NCP	
8	(8)	CHARACTER	2	EIDRTPRI	PROCEDURE RELATION ID (PRID) ASSOCIATED WITH THE REQUEST	

WAIT-STATE EVENT IDS ASSOCIATED WITH THE SESSION SERVICES  
MISCELLANEOUS LQAB POINTED TO BY ATCSSLQB.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	10	EIDSIDEQ	SESSION SERVICES IS WAITING FOR THE COMPLETION OF SETCV PROCESSING	
0	(0)	CHARACTER	2	EIDCSID	ENSURES EVENT UNIQUENESS	
2	(2)	CHARACTER	8	EIDCSPCI	PROCEDURE CORRELATION ID (PCID)	
10	(A)	CHARACTER	*	EIDCPCID	SESSION PCID BASING LOCATION	
0	(0)	STRUCTURE	18	EIDSINIT	SESSION SERVICES IS WAITING FOR A CDINIT TO BE ROUTED TO THE NEXT SSCP IN THE SESSION INITI- ATION PATH	
0	(0)	CHARACTER	2	EIDINID	ENSURES EVENT UNIQUENESS	
2	(2)	CHARACTER	8	EIDINSID	NETWORK ID OF THE NEXT SSCP IN THE SESSION INI- TIATION PATH	
10	(A)	CHARACTER	8	EIDINDLU	NETWORK NAME OF LU	
18	(12)	CHARACTER	*	EIDIPCID	SESSION PCID BASING LOCATION	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	10	EIDCDTAK	CDTAKEDOWN COMPLETE ANCHOR EVENT	
0	(0)	CHARACTER	2	EIDCDID	UNIQUE IDENTIFIER	
2	(2)	CHARACTER	8	EIDSSCPN	NAME OF EXTERNAL SSCP	
0	(0)	STRUCTURE	14	EIDIOREQ	SESSION SERVICES IS WAITING FOR A RESPONSE FROM A DEVICE LU	
0	(0)	CHARACTER	6	EIDIOSSC	SESSION SERVICES CONTROL POINT NETWORK ADDRESS	
6	(6)	CHARACTER	6	EIDIOSLU	THE LU NETWORK ADDRESS	
12	(C)	CHARACTER	2	EIDIOSID	ENSURES EVENT UNIQUENESS	
14	(E)	CHARACTER	*	EIDIOPCD	SESSION PCID BASING LOCATION	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	23	EIDICDSE	SESSION SERVICES IS WAITING FOR A CROSS DOMAIN SESSION END BECAUSE A PLU INITIATED SESSION REQUEST HAS DUPLICATED THE NETWORK ADDRESS PAIR OF A TERMINATING SESSION	
0	(0)	CHARACTER	8	EIDINET	NETWORK IDENTIFIER OF PLU ADDRESS	
8	(8)	CHARACTER	6	EIDIPLU	NETWORK ADDRESS OF PLU	
14	(E)	CHARACTER	1	EIDIEID	ENSURES EVENT UNIQUENESS	
15	(F)	CHARACTER	8	EIDIDPCI	PROCEDURE CORRELATION ID (PCID) OF TERMINATING SESSION	
23	(17)	CHARACTER	*	EIDIEPCI	SESSION PCID BASING LOCATION	
0	(0)	STRUCTURE	10	EIDCRYPY	SESSION SERVICES IS WAITING TO OBTAIN A CRYPTOGRAPHIC KEY FOR THE SESSION	
0	(0)	CHARACTER	2	EIDCRPID	ENSURES EVENT UNIQUENESS	
2	(2)	CHARACTER	8	EIDCRPCI	PROCEDURE CORRELATION ID (PCID)	
10	(A)	CHARACTER	*	EIDCYPCI	SESSION PCID BASING LOCATION	

### Constants

Len	Type	Value	Name	Description
2	HEX	0000	EIDDIZEC	VALUE FOR EIDDIZER
2	HEX	0001	EIDDIZ2C	VALUE FOR EIDDIZER
4	CHARACTER	DIAL	EIDDIIDC	VALUE FOR EIDDIID
2	HEX	0000	EIDLAIIDC	VALUE FOR EIDLAIID
2	HEX	0001	EIDCIIDC	VALUE FOR EIDCIID
2	HEX	0000	EIDSTZEC	VALUE FOR EIDSTZER
1	HEX	00	EIDNFIIDC	VALUE FOR EIDNFIID
1	HEX	01	EIDEFIIDC	VALUE FOR EIDEFIID
1	HEX	02	EIDRCIIDC	VALUE FOR EIDRCIID
1	HEX	03	EIDNTFIIDC	VALUE FOR EIDNTFIID
1	HEX	07	EIDCDFIIDC	VALUE FOR EIDCDFIID
1	HEX	04	EIDRSIID	VALUE FOR EIDRSID WHEN PROCESSING DYNAMIC NCP DUMP
1	HEX	05	EIDRSIIDM	VALUE FOR EIDRSID WHEN PROCESSING MOSS DUMP
1	HEX	06	EIDRSIIDC	VALUE FOR EIDRSID WHEN PROCESSING CSP DUMP
1	HEX	07	EIDRSIITH	TRANSFER NCP DUMP HEADER
1	HEX	08	EIDRSIITN	TRANSFER NCP DUMP MAIN STORAGE
1	HEX	09	EIDRSIIDS	DISPLAY DISK
1	HEX	31	EIDGRIDC	VALUE FOR EIDGRID
1	HEX	86	EIDSEIIDC	VALUE FOR EIDSEIID
1	HEX	99	EIDIOIIDC	VALUE FOR EIDIOIID
3	CHARACTER	CRV	EIDCIIIDC	VALUE FOR EIDCIIID
2	HEX	FF04	EIDOSIIDC	VALUE FOR EIDOSIID
6	CHARACTER	ACCEPT	EIDACIIDC	THE VALUE FOR EIDACIID
1	CHARACTER	Y	EIDACOVY	THE VALUE FOR EIDACOVY: C'Y' = REQUEST SPECIFIED A BIND-IMAGE OVERRIDE
1	CHARACTER	N	EIDACOVN	THE VALUE FOR EIDACOVN: C'N' = REQUEST DID NOT SPECIFY BIND-IMAGE OVERRIDE
7	CHARACTER	ACQUIRE	EIDAQIIDC	VALUE FOR EIDAQIID
6	CHARACTER	RCVCMID	EIDRCVIIDC	VALUE FOR EIDRCVIID
5	CHARACTER	TRKEY	EIDTRKIIDC	VALUE FOR EIDTRKIID
2	HEX	0000	EIDPCZEC	VALUE FOR EIDPCZER
8	CHARACTER	FREELUCB	EIDFLIIDC	VALUE FOR EIDFLIID PHYSICAL UNIT SERVICES IS WAITING FOR ALL FMCBS ASSOCIATED WITH AN APPLICATION PROGRAM TO BE FREED SO THAT THE APPLICATION PROGRAM'S NETWORK ADDRESS CAN BE DEALLOCATED. THIS EVENT IS NO LONGER USED
12	CHARACTER	VTAM HALT	EIDVHIIDC	VALUE FOR EIDVHIID
8	CHARACTER	ACTIVATE	EIDACTIIDC	VALUE FOR EIDACTIID
10	CHARACTER	DEACTIVATED	EIDDAIIDC	VALUE FOR EIDDAIID
10	CHARACTER	LK AL DEAL	EIDADIIDC	VALUE FOR EIDADIID
3	HEX	000000	EIDNOZEC	VALUE FOR EIDNOZER
2	HEX	0002	EIDSQIIDC	VALUE FOR EIDSQIID
2	HEX	0003	EIDINIIDC	VALUE FOR EIDINIID
2	HEX	0004	EIDCDIIDC	UNIQUE IDENTIFIER
2	HEX	FF05	EIDIOSIIDC	VALUE FOR EIDIOSIID



Len	Type	Value	Name	Description
1	HEX	07	EIDIEIDC	VALUE FOR EIDIEID
2	HEX	0008	EIDSQCRY	VALUE FOR EIDCRPID

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
EIDACANM	0		2	EIDIEFRS	0		1
EIDACID	8		2	EIDIEID	E		2
EIDACQVR	16		2	EIDIEPCI	17		2
EIDACPLU	0		2	EIDIGRSA	0		1
EIDACSLU	E		2	EIDIIOSC	0		1
EIDACTID	8		2	EIDINDLU	A		2
EIDADCUA	0		2	EIDINET	0		2
EIDADID	4		2	EIDINFID	6		2
EIDAQID	8		2	EIDINFRS	0		1
EIDAQPLU	0		2	EIDINID	0		2
EIDAQURC	F		2	EIDINPCD	7		2
EIDCCIRS	0		1	EIDINPCI	17		2
EIDCDIAL	0		1	EIDINSID	2		2
EIDCDID	0		2	EIDINSSC	0		2
EIDCDTAK	0		1	EIDINTFY	0		1
EIDCIID	C		2	EIDIODNA	6		2
EIDCILNA	6		2	EIDIOID	C		2
EIDCINNA	0		2	EIDIOONA	0		2
EIDCLACT	0		1	EIDIOPCD	E		2
EIDCNACT	0		1	EIDIOPCI	11		2
EIDCPCID	A		2	EIDIOREQ	0		1
EIDCRID	C		2	EIDIOSAR	0		1
EIDCRPCI	2		2	EIDIOSID	C		2
EIDCRPID	0		2	EIDIOSLU	6		2
EIDCRPLU	6		2	EIDIOSSC	0		2
EIDCRSSC	0		2	EIDIOTSC	D		2
EIDCRYPY	0		1	EIDIPCID	12		2
EIDCSID	0		2	EIDIPLU	8		2
EIDCSPCI	2		2	EIDIRCRU	0		1
EIDCSTBL	0		1	EIDIRSTO	0		1
EIDCTNRS	0		1	EIDISEND	0		1
EIDCTRNA	0		1	EIDISSCP	F		2
EIDCTRRS	0		1	EIDLACPT	0		1
EIDCYPCI	A		2	EIDLALNA	C		2
EIDDAANM	0		2	EIDLALNA	6		2
EIDDAID	8		2	EIDLANNA	0		2
EIDDIID	2		2	EIDLAQIR	0		1
EIDDIPCD	16		2	EIDLRCVC	0		1
EIDDIPCI	E		2	EIDLTRK	0		1
EIDDIPNM	6		2	EIDNANAD	0		2
EIDDIZER	0		2	EIDNFDNA	6		2
EIDEFDNA	6		2	EIDNFID	C		2
EIDEFID	C		2	EIDNFONA	0		2
EIDEFONA	0		2	EIDNFRSQ	D		2
EIDEFRSQ	D		2	EIDNNORS	0		1
EIDFLELE	0		2	EIDNONAM	0		2
EIDFLID	2		2	EIDNOSTA	B		2
EIDGRDNA	6		2	EIDNOSTL	F		2
EIDGRID	C		2	EIDNOTYP	11		2
EIDGRONA	0		2	EIDNOZER	8		2
EIDGRPCI	D		2	EIDNRTR	0		1
EIDICDID	6		2	EIDOPCID	E		2
EIDICDNA	7		2	EIDOSID	C		2
EIDICDNT	0		1	EIDOSLUA	6		2
EIDICDPC	D		2	EIDOSSSC	0		2
EIDICDPD	15		2	EIDPACT	0		1
EIDICDSC	0		2	EIDPADDV	0		1
EIDICDSE	0		1	EIDPCELE	2		2
EIDICRV	0		1	EIDPCZER	0		2
EIDIDPCI	F		2	EIDPDACT	0		1

Name	Hex Offset	Hex Value	Level
EIDPFLUC	0		1
EIDPPCMP	0		1
EIDPVHLT	0		1
EIDRCANM	0		2
EIDRCID	C		2
EIDRCPNA	6		2
EIDRCPRI	D		2
EIDRCSSC	0		2
EIDRCVID	8		2
EIDRSID	C		2
EIDRSNNA	6		2
EIDRSSSC	0		2
EIDRSSTA	D		2
EIDRSSTL	11		2
EIDRTNAM	0		2
EIDRTPRI	8		2
EIDSADDR	6		2
EIDSDPCI	15		2
EIDSEPCI	1D		2
EIDSESID	14		2
EIDSESSC	0		2
EIDSIDEQ	0		1
EIDSINIT	0		1
EIDSNET	C		2
EIDSSCPN	2		2
EIDSTLNM	2		2
EIDSTPCD	A		2
EIDSTZER	0		2
EIDTNLNN	10		2
EIDTRANM	0		2
EIDTRKID	8		2
EIDTRLUA	0		2
EIDTRNNA	0		2
EIDTRPNA	D		2
EIDTRRHC	8		2
EIDTRRNA	6		2
EIDTRRQC	C		2
EIDTRSNA	13		2
EIDTRTTY	F		2
EIDVHID	0		2

## Environment Vector Control Block (ENV)

<b>Function:</b>	ENV maps the environment vector control block used by ISTECAAA, the session management exit routine for authorization accounting and gateway node path list alteration. It contains the host's network ID, SSCP name, PU type 5 host name, and network address.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Additional Notes:</b>	See the description of the session management exit routine, ISTECAAA, in <i>VTAM Customization</i> .

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	4	ISTENV	ENVIRONMENT VECTOR	
0	(0)	SIGNED	2	ENVLEN	TOTAL LENGTH OF ISTENV, INCLUDING THIS FIELD	
2	(2)	CHARACTER	2	ENVNET	NETID PORTION	
2	(2)	UNSIGNED	1	ENVNTLEN	TOTAL LENGTH OF NETID PORTION, INCLUDING THIS LENGTH BYTE	
3	(3)	CHARACTER	1	ENVID06	VECTOR KEY: X'06'	
4	(4)	CHARACTER	*	ENVNETID	NETWORK ID OF THE HOST AS SPECIFIED ON THE START OPTION	

THE FOLLOWING OVERLAYS ARE ALWAYS INCLUDED IN THE ORDER SHOWN HERE. EACH OVERLAY STARTS AT THE END OF THE PREVIOUS ONE.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	ENVSCP NM	SSCP NAME PORTION	
0	(0)	UNSIGNED	1	ENVSNLEN	TOTAL LENGTH SSCP NAME PORTION, INCLUDING THIS LENGTH BYTE	
1	(1)	CHARACTER	1	ENVID07	VECTOR KEY: X'07'	
2	(2)	CHARACTER	*	ENVSSCPN	SSCP NAME OF THE HOST AS SPECIFIED ON THE START OPTION	
0	(0)	STRUCTURE	2	ENVHSTNM	PHYSICAL UNIT TYPE 5 HOST NAME PORTION	
0	(0)	UNSIGNED	1	ENVHNLEN	TOTAL LENGTH HOST NAME PORTION, INCLUDING THIS LENGTH BYTE	
1	(1)	CHARACTER	1	ENVID08	VECTOR KEY: X'08'	
2	(2)	CHARACTER	*	ENVHOSTN	PHYSICAL UNIT TYPE 5 HOST NAME, SPECIFIED AS THE PU NAME ON THE START OPTION	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	ENVHSTNA	NETWORK ADDRESS OF THE HOST PHYSICAL UNIT PORTION	
0	(0)	UNSIGNED	1	ENVHALEN	TOTAL LENGTH HOST NETWORK ADDRESS PORTION, INCLUDING THIS LENGTH BYTE	
1	(1)	CHARACTER	1	ENVID09	VECTOR KEY: X'09'	
2	(2)	CHARACTER	6	ENVHSTA	NETWORK ADDRESS OF THE HOST PHYSICAL UNIT	
0	(0)	STRUCTURE	10	ENVADJO	ADJACENT NETWORK ID IN OLU DIRECTION	
0	(0)	UNSIGNED	1	ENVAOLEN	TOTAL LENGTH ADJACENT NETWORK ID INCLUDING THIS LENGTH BYTE	
1	(1)	CHARACTER	1	ENVID0A	VECTOR KEY: X'0A'	
2	(2)	CHARACTER	8	ENVAONET	ADJACENT NETWORK ID IN OLU DIRECTION	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	10	ENVADJD	ADJACENT NETWORK ID IN DLU DIRECTION	
0	(0)	UNSIGNED	1	ENVADLEN	TOTAL LENGTH ADJACENT NETWORK ID INCLUDING THIS LENGTH BYTE	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
1	(1)	CHARACTER	1	ENVID0B	VECTOR KEY: X'0B'
2	(2)	CHARACTER	8	ENVADNET	ADJACENT NETWORK ID IN DLU DIRECTION

### Constants

Len	Type	Value	Name	Description
1	HEX	06	ENV06	CONSTANT FOR VECTOR KEY X'06'
1	HEX	07	ENV07	CONSTANT FOR VECTOR KEY X'07'
1	HEX	08	ENV08	CONSTANT FOR VECTOR KEY X'08'
1	HEX	09	ENV09	CONSTANT FOR VECTOR KEY X'09'
1	HEX	0A	ENV0A	CONSTANT FOR VECTOR KEY X'0A'
1	HEX	0B	ENV0B	CONSTANT FOR VECTOR KEY X'0B'

### Cross Reference

Name	Hex Offset	Hex Value	Level
ENVADJD	0		1
ENVADJO	0		1
ENVADLEN	0		2
ENVADNET	2		2
ENVAOLEN	0		2
ENVAONET	2		2
ENVHALEN	0		2
ENVHNLEN	0		2
ENVHOSTA	2		2
ENVHOSTN	2		2
ENVHSTNA	0		1
ENVHSTNM	0		1
ENVID0A	1		2
ENVID0B	1		2
ENVID06	3		3
ENVID07	1		2
ENVID08	1		2
ENVID09	1		2
ENVLEN	0		2
ENVNET	2		2
ENVNETID	4		3
ENVNTLEN	2		3
ENVSCPNM	0		1
ENVSLEN	0		2
ENVSSCPN	2		2
ISTENV	0		1

## Entry Point Table (EPT)

<b>Function:</b>	EPT maps the header and an entry (EPTENTRY) for the entry point table. Each entry contains a symbolic DVT name and a pointer to the DVT.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ATCFEPT (ATCVT) - first on OPEN/CLOSE chain EPTCHAIN (EPT) - next entry point table OCCCEPTAB (OCCRR) TSPEPTA (TSPENSAA in TSPL)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	32	ISTEPT	MAPPING MACRO	
0	(0)	ADDRESS	4	EPTCHAIN	NEXT ENTRY POINT TABLE	
4	(4)	SIGNED	2	EPTLEN	LENGTH OF EPT (IN BYTES)	
6	(6)	SIGNED	2	EPTENTCT	COUNT OF ENTRIES IN THIS ENTRY POINT TABLE	
8	(8)	SIGNED	4	EPTUSECT	COUNT OF USERS WHO ARE REFERENCING THIS EPT	
12	(C)	CHARACTER	4	EPTDVC	4-CHAR DEVICE TYPE	
16	(10)	BITSTRING	4	EPTQUAL	QUALIFICATION MASK USED TO BUILD THIS EPT	
20	(14)	BITSTRING	4	EPTMASK	BIT MASK INDICATING WHICH QUALIFICATION CRITERIA WERE USED	
24	(18)	CHARACTER	8	EPTMODE	MODE NAME USED TO BUILD THE EPT	
32	(20)	SIGNED	4	EPTENTRY (*)	BEGIN ENTRIES HERE	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	16	ISTEPT	ENTRY MAPPING MACRO	
0	(0)	CHARACTER	8	EPTNAME	SYMBOLIC DVT NAME	
8	(8)	ADDRESS	4	EPTDVTA	DVT POINTER FIELD	
12	(C)	CHARACTER	3	*	NOT USED - AVAILABLE	
15	(F)	CHARACTER	1	EPTFLAG1	EPT FLAGS	
		1... ....		EPTENDF	END OF EPT	
		.111 1111		*	RESERVED	

## Cross Reference

Name	Hex Offset	Hex Value	Level
EPTCHAIN	0		2
EPTDVC	C		2
EPTDVTA	8		2
EPTENDF	F	80	3
EPTENTCT	6		2
EPTENTRY	20		2
EPTFLAG1	F		2
EPTLEN	4		2
EPTMASK	14		2
EPTMODE	18		2
EPTNAME	0		2
EPTQUAL	10		2
EPTUSECT	8		2
ISTEPT	0		1
ISTEPT	0		1

## Explicit Route Table and Entries (ERT)

<b>Function:</b>	The explicit route table and entries are built when the path table is activated or upon receipt of an ER_OP RU. The table contains a fullword queue anchor for each destination subarea. Each anchor points to a chain of ERTes (entries), which describe the ERs for that particular destination subarea.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ATCERTP (ATCVT) - Anchor for ER table queue, which can be indexed by destination subarea.
<b>Included Blocks:</b>	ARSI (ERTARSI).

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	4	ISTERT (*)	BASED ON ATCERTP-- AN ARRAY OF (MAXSUBA + 1)	
0	(0)	ADDRESS	4	ERTEQUE	ERTE QUEUE ANCHORS	ERTE QUEUE FOR ASSOCIATED DESTINATION SUBAREA

### EXPLICIT ROUTE TABLE ENTRY

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	40	ISTERTE	EXPLICIT ROUTE TABLE ENTRY	
0	(0)	UNSIGNED	1	ERTBID	CONTROL BLOCK ID	
1	(1)	UNSIGNED	1	ERTLEN	CONTROL BLOCK LENGTH	
2	(2)	CHARACTER	2	ERTR00	NOT USED - AVAILABLE	
4	(4)	ADDRESS	4	ERTPTR	POINTER TO NEXT ERTE FOR SAME DESTINATION SUBAREA	
8	(8)	UNSIGNED	1	ERTERN	EXPLICIT ROUTE NUMBER (ERN)	
9	(9)	UNSIGNED	1	ERTFSM	FINITE STATE MACHINE (SEE CONSTANTS	
		1... ....		ERTGDF	CATEGORY GENERICALLY DEFINED	
		.1.. ....		ERTGOP	CATEGORY GENERICALLY OPERATIVE	
10	(A)	BITSTRING	1	ERTFLG	FLAGS FIELD	
		1... ....		ERTMIG	MIGRATION INDICATOR	
		.1.. ....		ERTACRCV	FSM MODIFIER -- ER_ACT RECEIVED INDICATOR (ER HAS BEEN SUCCESSFULLY ACTIVATED FROM THE OTHER END OF THE ROUTE)	
		..11 1111		ERTR01	NOT USED - AVAILABLE	
11	(B)	BITSTRING	1	ERTR02	NOT USED - AVAILABLE	
12	(C)	BITSTRING	2	ERTRERN	REVERSE EXPLICIT ROUTE NUMBER MASK	
14	(E)	BITSTRING	2	ERTIERN	ER-TO-IER (ER-TO-VR) MAPPING MASK	
16	(10)	BITSTRING	2	ERTR03	NOT USED - AVAILABLE	
18	(12)	BITSTRING	2	ERTIDERN	IDENTITY EXPLICIT ROUTE MASK	
20	(14)	UNSIGNED	2	ERTHOPS	NUMBER OF TRANSMISSION GROUPS IN THE ER (HOPS)	
22	(16)	CHARACTER	1	*	NOT USED - AVAILABLE	
23	(17)	UNSIGNED	1	*	RESERVED	
24	(18)	UNSIGNED	4	ERTADJSA	ADJACENT SUBAREA NUMBER	
28	(1C)	UNSIGNED	4	ERTDSA	DESTINATION SUBAREA NUMBER	
32	(20)	CHARACTER	8	ERTARSI	ACTIVATION REQUEST SEQUENCE ID	

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR CONTROL BLOCK ID (ERTBID)				
1	HEX	14	ERTIDCON	CONTROL BLOCK IS ERT ENTRY
CONSTANT FOR ER NUMBER (ERTERN)				
1	DECIMAL	7	ERTENAMX	MAXIMUM ENA ER NUMBER
1	DECIMAL	15	ERTESAMX	MAXIMUM ESA ER NUMBER
CONSTANTS FOR FINITE STATE MACHINE (ERTFSM)				
1	HEX	00	ERTRSET	RESET (NOT DEFINED)
1	HEX	41	ERTOPND	OPER, NOT DEFD (ER.OP RECVD)
1	HEX	42	ERTACND	ACTV, NOT DEFD (ER.ACT RECVD)
1	HEX	83	ERTINOP	INOPERATIVE (DEFD, NOT OPER)
1	HEX	C4	ERTOPER	OPERATIVE (ER.OP RECEIVED)
1	HEX	C5	ERTPACT	PEND ACTIVE (ER.ACT SENT)
1	HEX	C7	ERTACTV	ACTIVE (ER_ACT_REPLY (ACTIVATED) RECEIVED)

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ERTACRCV	A	40	3
ERTADJSA	18		2
ERTARSI	20		2
ERTBID	0		2
ERTDSA	1C		2
ERTEQUE	0		2
ERTERN	8		2
ERTFLG	A		2
ERTFSM	9		2
ERTGDF	9	80	3
ERTGOP	9	40	3
ERTHOPS	14		2
ERTIDERN	12		2
ERTIERN	E		2
ERTLEN	1		2
ERTMIG	A	80	3
ERTPTR	4		2
ERTRERN	C		2
ERTR00	2		2
ERTR01	A	20	3
ERTR02	B		2
ERTR03	10		2
ISTERT	0		1
ISTERTE	0		1

## Event Codes to Identify Event IDs (EVNTK)

**Function:** EVNTK provides a set of VTAM constants that correspond one-to-one with each event ID in ISTEID.

### Constants

Len	Type	Value	Name	Description
<b>CODES FOR EVENT IDS ASSOCIATED WITH THE CONFIGURATION SERVICES MISCELLANEOUS COMMAND LQAB POINTED TO BY ATCMCQAB</b>				
2	HEX	0101	EVNDIAL	SESSION SERVICES IS WAITING FOR A DIAL TO BE COMPLETED
2	HEX	0102	EVNNACT	CONFIGURATION SERVICES IS WAITING FOR AN NCP TO BECOME ACTIVE
2	HEX	0103	EVNLACT	CONFIGURATION SERVICES IS WAITING FOR A LINK TO BECOME ACTIVE
2	HEX	0104	EVNCIRS	CONFIGURATION SERVICES IS WAITING FOR A RESPONSE TO AN ACTIVATE OR DEACTIVATE CONNECT IN
2	HEX	0105	EVNTRRS	CONFIGURATION SERVICES IS WAITING FOR THE RESPONSE TO AN ACTIVATE OR DEACTIVATE TRACE REQUEST
2	HEX	0106	EVNSTBL	SESSION SERVICES IS WAITING FOR AN LU TO BECOME STABLE
2	HEX	0107	EVNTNRS	CONFIGURATION SERVICES IS WAITING FOR THE RESPONSE TO AN ACTIVATE OR DEACTIVATE NETCTLR TRACE REQUEST
2	HEX	0108	EVNTRNA	ACT TRACE WAITING FOR RNAA RESPONSE
2	HEX	0109	EVNDLIP	SESSION SERVICES IS WAITING FOR A PREVIOUS DIAL TO BE COMPLETED
<b>CODES FOR EVENT IDS ASSOCIATED WITH THE I/O LQABS POINTED TO BY ATCIOLQB.</b>				
2	HEX	0201	EVNNFRS	THE ORIGINATOR OF A REQUEST IS WAITING FOR A RESPONSE TO A NORMAL FLOW REQUEST UNIT
2	HEX	0202	EVNEFRS	THE ORIGINATOR OF A REQUEST IS WAITING FOR A RESPONSE TO AN EXPIDITED FLOW REQUEST UNIT
2	HEX	0203	EVNRCRU	MANAGEMENT SERVICES IS WAITING TO RECEIVE A REQUEST UNIT WITH A CERTAIN PROCEDURE ID FROM A PHYSICAL UNIT
2	HEX	0206	EVNRSTO	CONFIGURATION SERVICES IS WAITING FOR A RECORD STORAGE REQUEST FROM THE NCP AS PART OF A DUMP PROCESSING
2	HEX	0207	EVNGRSA	THE SENDER OF A GENERIC BIND OR UNBIND IS WAITING FOR ROUTE SELECTION AND ACTIVATION
2	HEX	0208	EVNSEND	SESSION SERVICES IS WAITING FOR A SESSION ENDED OR CROSS-DOMAIN SESSION ENDED TO BE RECEIVED
2	HEX	0209	EVNIOSC	THE PVI SUBCOMPONENT IS WAITING TO BE POSTED BY TSC WHEN AN I/O OPERATION HAS BEEN SCHEDULED
2	HEX	020A	EVNCRV	LOGICAL UNIT SERVICES IS WAITING TO RECEIVE A CRV REQUEST FROM A PRIMARY LOGICAL UNIT SO THAT 'OPNSEC' MACRO PROCESSING CAN BE COMPLETED
2	HEX	020B	EVNOSAR	SESSION SERVICES IS WAITING FOR AN OVERRIDE SESSION ADDRESS REQUEST FOR A NON-SNA LOGICAL UNIT TO BE COMPLETED
2	HEX	020C	EVNIOREQ	SESSION SERVICES IS WAITING FOR DEVICE IO
<b>CODES FOR EVENT IDS ASSOCIATED WITH THE LOGICAL UNIT SERVICES MANAGER LQAB POINTED TO BY ATCLUSMQ.</b>				



Len	Type	Value	Name	Description
2	HEX	0301	EVNACPT	LOGICAL UNIT SERVICES IS WAITING FOR A CINIT REQUEST UNIT FROM THE SSCP TO SATISFY AN 'OPNDST' ACCEPT REQUEST
2	HEX	0302	EVNAQIR	LOGICAL UNIT SERVICES IS WAITING FOR A CINIT REQUEST FROM THE SSCP TO SATISFY AN 'OPNDST' ACQUIRE REQUEST
2	HEX	0304	EVNRCVC	LOGICAL UNIT SERVICES IS WAITING FOR AN ACF/VTAM OPERATOR MESSAGE TO BE RECEIVED SO THAT A QUEUED RCVCMDC REQUEST CAN BE COMPLETED
2	HEX	0306	EVNLTRK	LOGICAL UNIT SERVICES IS WAITING FOR CRYPTO KEY TRANSLATION IN OPNSEC PROCESSING
2	HEX	0307	EVNURSP	LOGICAL UNIT SERVICES IS WAITING FOR UNBIND RESPONSE

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CODES FOR EVENT IDS ASSOCIATED WITH THE PHYSICAL UNIT SERVICES  
LQAB POINTED TO BY ATCPULQB.

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2	HEX	0401	EVNPCMP	PHYSICAL UNIT SERVICES IS WAITING FOR AN ONGOING PROCESS TO BE COMPLETED SO THAT ANOTHER REQUEST MAY BE PROCESSED
2	HEX	0402	EVNFLUC	PHYSICAL UNIT SERVICES IS WAITING FOR THE LUCB ASSOCIATED WITH AN APPLICATION PROGRAM TO BE FREED SO THAT CLOSE ACB PROCESSING CAN COMPLETE EVENT EVNFMCB IS NO LONGER USED
2	HEX	0404	EVNVHLT	PHYSICAL UNIT SERVICES IS WAITING FOR CLOSE ACB PROCESSING FOR ALL APPLICATIONS TO COMPLETE SO THAT HALT PROCESSING CAN BE COMPLETED
2	HEX	0405	EVNACT	PHYSICAL UNIT SERVICES IS WAITING FOR ACTLU TO BE RECEIVED FROM THE SSCP SO THAT OPEN ACB PROCESSING CAN BE COMPLETED FOR AN APPLICATION PROGRAM
2	HEX	0406	EVNDACT	PHYSICAL UNIT SERVICES IS WAITING FOR DACTLU TO BE RECEIVED FROM THE SSCP SO THAT CLOSE ACB PROCESSING CAN BE COMPLETED FOR AN APPLICATION
2	HEX	0407	EVNADDV	PHYSICAL UNIT SERVICES IS WAITING FOR ALLOCATION OR DEALLOCATION OF A LINK TO COMPLETE SO THAT DACTLINK PROCESSING MAY COMPLETE

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CODES FOR EVENT IDS ASSOCIATED WITH THE NETWORK OPERATOR  
SERVICES LQAB POINTED TO BY ATCNOSQ.

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2	HEX	0501	EVNNORS	NETWORK OPERATOR SERVICES IS WAITING FOR A RECORD STORAGE REQUEST TO BE RECEIVED FROM AN NCP AS PART OF 'D NCPSTOR' OR 'D DISK' COMMAND PROCESSING
2	HEX	0502	EVNRTR	NETWORK OPERATOR SERVICES IS WAITING FOR A RECORD TEST RESULTS REQUEST TO BE RECEIVED FROM AN NCP AS PART OF 'MODIFY LL2' COMMAND PROCESSING

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CODES FOR EVENT IDS ASSOCIATED WITH THE SESSION SERVICES  
MISCELLANEOUS LQAB POINTED TO BY ATCSSLQB.

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2	HEX	0601	EVNSIDEQ	SESSION SERVICES IS WAITING FOR THE COMPLETION OF SETCV BEFORE RESUMING PROCESSING OF CDINIT DQ OR CDCINIT
2	HEX	0602	EVNINIT	SESSION SERVICES IS WAITING FOR A SESSION INITIATION REQUEST (CDINIT) TO BE ROUTED TO THE NEXT SSCP IN THE SESSION INITIATION PATH
2	HEX	0603	EVNNTFY	SESSION SERVICES IS WAITING FOR A SESSION SETUP ATTEMPT TO SUCCEED OR FAIL SO THAT THE SESSION INITIATOR MAY BE NOTIFIED
2	HEX	0604	EVNCDNT	SESSION SERVICES IS WAITING FOR AN INIT-OTHER CD TO SUCCEED OR FAIL SO THAT A CROSS DOMAIN OR CROSS NET RESOURCE CAN BE NOTIFIED
2	HEX	0605	EVNCDTAK	CDTAKEDOWN COMPLETE RUPE WILL BE SENT TO NOTIFY OUR SSCP WHENEVER ALL SESSIONS USING THE SPECIFIED SSCP HAVE BEEN TERMINATED

<b>Len</b>	<b>Type</b>	<b>Value</b>	<b>Name</b>	<b>Description</b>
2	HEX	0606	EVNCDSE	SESSION SERVICES IS WAITING ON CDESSEND FOR TERMINATING SESSION BECAUSE PLU INITIATED SESSION REQUEST HAS SAME PLU ADDRESS PAIR AS SESSION IN TERMINATION
2	HEX	0607	EVNCRYP	SESSION SERVICES IS WAITING FOR ENCRYPTION KEYS TO OBTAINED FOR THE SESSION

## Exit Parameter List Interface (EXLST)

<b>Function:</b>	EXLST contains the addresses of an application program's exit routines.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	70 (X'46')
<b>Pointed to by:</b>	ACBUCL (ACB) GBIEXLST (GBIPRM in GBIND RU) GBSEXLST (GBSPRM in GBIND RU) NIBEXLST (NIB) UECEXLST (UECB)
<b>Included Blocks:</b>	IKQEXLST, VSAM portion of EXLST.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	70	IFGEXLST	LEVEL ONE DECLARE	
0	(0)	CHARACTER	40	EXLCOMN	EXLST COMMON SECTION	
0	(0)	ADDRESS	1	EXLID	EXLST IDENTIFIER '81'	
1	(1)	ADDRESS	1	EXLSTYP	EXLST SUBTYPE	
2	(2)	SIGNED	2	EXLLEN	LENGTH OF LIST	
2	(2)	SIGNED	2	EXLLEN2	LENGTH OF LIST	
4	(4)	BITSTRING	1	*	RESERVED FLAGS	
5	(5)	BITSTRING	1	EXLEODF	EODAD ENTRY DESCRIPTION	
		1... ....		EXLEODS	EXIT SPECIFIED	
		.1.. ....		EXLEODA	EXIT ACTIVE	
		..1. ....		EXLEODK	ENTRY ADDRESS POINTS TO EXIT ROUTINE NAME	
		...1 1111		*	RESERVED	
6	(6)	ADDRESS	4	EXLEODP	POINTER TO EODAD EXIT	
10	(A)	BITSTRING	1	EXLSYNF	SYNAD ENTRY DESCRIPTION	
		1... ....		EXLSYNS	EXIT SPECIFIED	
		.1.. ....		EXLSYNA	EXIT ACTIVE	
		..1. ....		EXLSYNK	ENTRY ADDRESS POINTS TO EXIT ROUTINE NAME	
		...1 1111		*	RESERVED	
11	(B)	ADDRESS	4	EXLSYNP	POINTER TO SYNAD EXIT	
15	(F)	BITSTRING	1	EXLLERF	LERAD ENTRY DESCRIPTION	
		1... ....		EXLLERS	EXIT SPECIFIED	
		.1.. ....		EXLLERA	EXIT ACTIVE	
		..1. ....		EXLLERK	ENTRY ADDRESS POINTS TO EXIT ROUTINE NAME	
		...1 1111		*	RESERVED	
16	(10)	ADDRESS	4	EXLLERP	POINTER TO LERAD EXIT	
20	(14)	BITSTRING	1	EXLSCIPF	SCIP ENTRY	
20	(14)	BITSTRING	1	EXLUPADF	UPAD ENTRY	
		1... ....		EXLSCIPS	EXIT SPECIFIED	
		1... ....		EXLUPADS	EXIT SPECIFIED	
		.1.. ....		EXLSCIPA	EXIT ACTIVE	
		..1. ....		EXLUPADA	EXIT ACTIVE	
		...1. ....		EXLSCIPK	RESERVED	
		...1. ....		EXLUPADK	ENTRY ADDRESS POINTS TO EXIT ROUTINE NAME	
		...1 1111		*	RESERVED	
21	(15)	ADDRESS	4	EXLSCIPP	POINTER TO SCIP EXIT	
21	(15)	ADDRESS	4	EXLUPADP	POINTER TO UPAD EXIT	
25	(19)	BITSTRING	1	EXLLGNF	LOGON ENTRY DESCRIPTION	
		1... ....		EXLLGNS	EXIT SPECIFIED	
		.1.. ....		EXLLGNA	EXIT ACTIVE	
		..1. ....		EXLLGNK	RESERVED	
		...1 1111		*	RESERVED	
26	(1A)	ADDRESS	4	EXLLGNP	POINTER TO LOGON EXIT	
30	(1E)	BITSTRING	1	EXLJRNf	JRNAD ENTRY DESCRIPTION	
		1... ....		EXLJRNS	EXIT SPECIFIED	
		.1.. ....		EXLJRNA	EXIT ACTIVE	
		..1. ....		EXLJRNK	ENTRY ADDRESS POINTS TO EXIT ROUTINE NAME	
		...1 1111		*	RESERVED	
31	(1F)	ADDRESS	4	EXLJRNP	POINTER TO JRNAD EXIT	

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
35	(23)	BITSTRING	1	EXLOPNF	OPENAD ENTRY DESCRIPTION
		1.. ....		EXLOPNS	EXIT SPECIFIED
		.1.. ....		EXLOPNA	EXIT ACTIVE
		..1. ....		EXLOPNK	ENTRY ADDRESS POINTS TO EXIT ROUTINE NAME
		...1 1111		*	RESERVED
36	(24)	ADDRESS	4	EXLOPNP	POINTER TO OPENAD EXIT
40	(28)	CHARACTER	30	EXLVTEXT	START OF EXTENSION
40	(28)	BITSTRING	1	EXLNLGNF	LOSTERM ENTRY DESCRIPTION
		1.. ....		EXLNLGNS	EXIT SPECIFIED
		.1.. ....		EXLNLGNA	EXIT ACTIVE
		..1. ....		EXLNLGNK	RESERVED - NOT AVAILABLE
		...1 1..		*	RESERVED - NOT AVAILABLE
41	(29)	ADDRESS	4	EXLNLGNP	POINTER TO LOSTERM EXIT
45	(2D)	BITSTRING	1	EXLRLRQF	RELREQ ENTRY DESCRIPTION
		1.. ....		EXLRLRQS	EXIT SPECIFIED
		.1.. ....		EXLRLRQA	EXIT ACTIVE
		..1. ....		EXLRLRQK	RESERVED - NOT AVAILABLE
		...1 1..		*	RESERVED - NOT AVAILABLE
46	(2E)	ADDRESS	4	EXLRLRQP	POINTER TO RELREQ EXIT
50	(32)	CHARACTER	5	*	RESERVED - NOT AVAILABLE
55	(37)	BITSTRING	1	EXLATTNF	ATTN ENTRY DESCRIPTION
		1.. ....		EXLATTNS	EXIT SPECIFIED
		.1.. ....		EXLATTNA	EXIT ACTIVE
		..1. ....		EXLATTNK	RESERVED - NOT AVAILABLE
		...1 1..		*	RESERVED - NOT AVAILABLE
56	(38)	ADDRESS	4	EXLATTNP	POINTER TO ATTN EXIT
60	(3C)	BITSTRING	1	EXLTPNDF	TPEND ENTRY DESCRIPTION
		1.. ....		EXLTPNDS	EXIT SPECIFIED
		.1.. ....		EXLTPNDA	EXIT ACTIVE
		..1. ....		EXLTPNDK	RESERVED - NOT AVAILABLE
		...1 1..		*	RESERVED - NOT AVAILABLE
61	(3D)	ADDRESS	4	EXLTPNDP	POINTER TO TPEND EXIT
65	(41)	BITSTRING	1	EXLTNSEF	NSEXIT ENTRY DESCRIPTION
		1.. ....		EXLTNSES	EXIT SPECIFIED
		.1.. ....		EXLTNSEA	EXIT ACTIVE
		..1. ....		EXLTNSEK	RESERVED - NOT AVAILABLE
		...1 1..		*	RESERVED - NOT AVAILABLE
66	(42)	ADDRESS	4	EXLTNSEP	POINTER TO NSEXIT EXIT
0	(0)	STRUCTURE	5	EXLDFAS	BASE AT JRNAD
0	(0)	BITSTRING	1	EXLDFASF	DFASY ENTRY DESCRIPTION
		1.. ....		EXLDFASS	EXIT SPECIFIED
		.1.. ....		EXLDFASA	EXIT ACTIVE
		..1. ....		EXLDFASK	RESERVED - NOT AVAILABLE
		...1 1..		*	RESERVED - NOT AVAILABLE
1	(1)	ADDRESS	4	EXLDFASP	POINTER TO DFASY EXIT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	EXLRESP	BASE AT OPENAD
0	(0)	BITSTRING	1	EXLRESPF	RESP ENTRY DESCRIPTION
		1.. ....		EXLRESPS	EXIT SPECIFIED
		.1.. ....		EXLRESPA	EXIT ACTIVE
		..1. ....		EXLRESPK	RESERVED - NOT AVAILABLE
		...1 1..		*	RESERVED - NOT AVAILABLE
1	(1)	ADDRESS	4	EXLRESPP	POINTER TO RESP EXIT
0	(0)	STRUCTURE	5	IFGEXLEF	GENERAL ENTRY FORMAT
0	(0)	CHARACTER	5	EXLENTY	ENTRY DESCRIPTION
0	(0)	BITSTRING	1	EXLFLAG	FLAG BYTE
0	(0)	BITSTRING	1	EXLENFL	FLAG BYTE
		1.. ....		EXLSPEC	EXIT SPECIFID
		.1.. ....		EXLACTM	EXIT ACTIVE
		..1. ....		EXLLNK	ENTRY ADDRESS POINTS TO EXIT ROUTINE NAME
		...1 1111		*	RESERVED
1	(1)	ADDRESS	4	EXLEXITP	POINTER TO EXIT
1	(1)	ADDRESS	4	EXLEADDR	EXIT ADDRESS

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
EXLACTM	0	40	5	EXLSCIPF	14		3
EXLATTNA	37	40	4	EXLSCIPK	14	20	5
EXLATTNF	37		3	EXLSCIPP	15		3
EXLATTNK	37	20	4	EXLSCIPS	14	80	5
EXLATTNP	38		3	EXLSPEC	0	80	5
EXLATTNS	37	80	4	EXLSTYP	1		3
EXLCOMN	0		2	EXLSYNA	A	40	4
EXLDFAS	0		1	EXLSYNF	A		3
EXLDFASA	0	40	3	EXLSYNK	A	20	4
EXLDFASF	0		2	EXLSYNP	B		3
EXLDFASK	0	20	3	EXLSYNS	A	80	4
EXLDFASP	1		2	EXLTNSEA	41	40	4
EXLDFASS	0	80	3	EXLTNSEF	41		3
EXLEADDR	1		4	EXLTNSEK	41	20	4
EXLENFL	0		4	EXLTNSEP	42		3
EXLENTRY	0		2	EXLTNSES	41	80	4
EXLEODA	5	40	4	EXLTPNDA	3C	40	4
EXLEODF	5		3	EXLTPNDF	3C		3
EXLEODK	5	20	4	EXLTPNDK	3C	20	4
EXLEODP	6		3	EXLTPNDP	3D		3
EXLEODS	5	80	4	EXLTPNDS	3C	80	4
EXLEXITP	1		3	EXLUPADA	14	40	6
EXLFLAG	0		3	EXLUPADF	14		4
EXLID	0		3	EXLUPADK	14	20	6
EXLJRNA	1E	40	4	EXLUPADP	15		4
EXLJRNF	1E		3	EXLUPADS	14	80	6
EXLJRNK	1E	20	4	EXLVTEXT	28		2
EXLJRNP	1F		3	IFGEXLEF	0		1
EXLJRNS	1E	80	4	IFGEXLST	0		1
EXLLEN	2		3				
EXLLEN2	2		4				
EXLLERA	F	40	4				
EXLLERF	F		3				
EXLLERK	F	20	4				
EXLLERP	10		3				
EXLLERS	F	80	4				
EXLLGNA	19	40	4				
EXLLGNF	19		3				
EXLLGNK	19	20	4				
EXLLGNP	1A		3				
EXLLGNS	19	80	4				
EXLLNK	0	20	5				
EXLNLGNA	28	40	4				
EXLNLGNF	28		3				
EXLNLGNK	28	20	4				
EXLNLGNP	29		3				
EXLNLGNS	28	80	4				
EXLOPNA	23	40	4				
EXLOPNF	23		3				
EXLOPNK	23	20	4				
EXLOPNP	24		3				
EXLOPNS	23	80	4				
EXLRESP	0		1				
EXLRESPA	0	40	3				
EXLRESPF	0		2				
EXLRESPK	0	20	3				
EXLRESPP	1		2				
EXLRESPS	0	80	3				
EXLRLRQA	2D	40	4				
EXLRLRQF	2D		3				
EXLRLRQK	2D	20	4				
EXLRLRQP	2E		3				
EXLRLRQS	2D	80	4				
EXLSCIPA	14	40	5				

---

## Free Block Queue Element (FBQE)

<b>Function:</b>	FBQE describes the free block queue element used by the GETBLK/FREEBLK processor.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	8
<b>Pointed to by:</b>	FBQFBQE (FBQE) - next FBQE on same page PGHFBQE (PGHDR) - first FBQE on a page

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTFBQE	FREE BLOCK QUEUE ELEMENT
0	(0)	ADDRESS	4	FBQFBQE	POINTER TO NEXT FBQE
4	(4)	SIGNED	4	FBQLENTH	LENGTH OF FBQE IN BYTES

---

**FMCB Directory Table (FDT)**

**Function:** FDT provides a mapping for the FMCB directory table.

The FDT is allocated for an application when the application is opened and it is determined the FDT is external from the LUCB/MALT. The FDT is deallocated for an application either when the application is closed or when it is abending and LUCFDEXT/MALFDEXT indicates that the FDT is external.

**Boundary:** Fullword.

**Size in bytes:** 8 bytes per entry.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		ISTFDT	FMCB DIRECTORY TABLE BASED BY LUCFDTPT/MALFDTPT
0	(0)	CHARACTER	8	FDENTRY (*)	FDT ENTRY (INDEXED BY HASH VALUE)
0	(0)	ADDRESS	4	FDTFMCB	QUEUE HEADER TO FMCB CHAIN
4	(4)	ADDRESS	4	FDTFMCBX	QUEUE HEADER TO FMCBEXT CHAIN

## Function Management Control Block (FMCB)

<b>Function:</b>	<p>FMCB is the VTAM representation of a half-session. An LUCB associates an FMCB with an application program and points to the FMCB extension. The FMCB contains a queue anchor for requests and responses, the addresses of the DVTs for routines selected at session establishment, the status of the half-session represented by the FMCB, and queue headers for I/O requests represented by RPLs and TSCBs. TSC is the major user of FMCBs. The FMCB extension contains the address of the associated FMCB. Logical unit services (LUS) is the major user of the FMCB extension.</p> <p>The name FMCB is used for a TSPL when the TSPL contains information about a half-session.</p>
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	208 (X'D0')
<b>Pointed to by:</b>	<p>ACDRAFQH (ACDEB) - oldest FMCB on RECEIVE ANY queue                  ACDRAFQT (ACDEB) - newest FMCB on RECEIVE ANY queue                  TSPFMCBA (TSPL) - address of FMCB associated with TSPL                  TSPAFMCB (TSPL) - next FMCB on RECEIVE ANY queue                  TSPPFMCB (TSPL) - previous FMCB on RECEIVE ANY queue                  TSPNEXTA (TSPL) - next FMCB extension on LUCB queue                  TSPPREVA (TSPL) - previous FMCB extension on LUCB queue                  TSPSTQ (TSPL) - next FMCB extension on PST queue</p>
<b>Included Blocks:</b>	<p>TSPENSAA (FMCENSA--environment status area),                  TSPPCSAA (FMCPSCA--path control status area),                  TSPTCSAA (FMCTCSA--transmission control status area),                  TSPDFSAA (FMCDFCSA--data flow control status area),                  TSPSSAA (FMCPSSA--PSS status area)</p>
<b>Additional Notes:</b>	Fields mapped are not the complete contents of the FMCB. The FMCB serves as a basing map for the TSPL. To find the meaning of all of the fields, see the map of TSPL.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	208	ISTFMCB	RECORD MODE FMCB
0	(0)	CHARACTER	72	FMCENSA	ENVIRONMENT STATUS AREA
72	(48)	CHARACTER	32	FMCPSCA	PATH CONTROL STATUS AREA
104	(68)	CHARACTER	24	FMCTCSA	TRANSMISSION CONTROL STATUS AREA
128	(80)	CHARACTER	4	FMCDFCSA	DATA FLOW CONTROL STATUS AREA
132	(84)	CHARACTER	76	FMCPSSA	PRESENTATION SERVICES STATUS AREA

### Constants

Len	Type	Value	Name	Description
1	HEX	03	FMTYPE	CONTROL BLOCK ID FOR FMCB



## Function Management Header 5 (FM5)

<b>Function:</b>	FM5 provides a mapping for the FMH5. The FMH5 carries a request for a conversation to be established between two transaction programs. The transaction program that issues the APPCCMD CONTROL=ALLOC must specify an FMH5 when it issues the command.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	10	ISTFM5	FMH5 MAPPING	
0	(0)	CHARACTER	10	FM5BASE	FIXED LENGTH BASE	
0	(0)	UNSIGNED	1	FM5LENTH	LENGTH FIELD	
1	(1)	CHARACTER	1	FM5FLAG1	FLAG FIELDS 1	
		1... ....		FM5CONCT	CONCATENATION	
		.111 1111		FM5TYP	TYPE OF FMH	
2	(2)	BITSTRING	2	FM5TYPE	FMH5 TYPE	
4	(4)	BITSTRING	1	FM5FLAG2	FLAG BYTE	
		1... ....		FM5UIDAV	USER ID ALREADY VERIFIED	
		.111 ....		*	RESERVED	
		.... 1...		FM5PIPPR	1 = PIP PRESENT AFTER FMH5	
		.... .111		*	RESERVED	
5	(5)	UNSIGNED	1	FM5LNFLP	LENGTH OF FIXED LENGTH PARAMETERS	
6	(6)	CHARACTER	3	FM5FXLEN	FIXED LENGTH PARAMETERS	
6	(6)	BITSTRING	1	FM5RSCTP	RESOURCE TYPE	
7	(7)	BITSTRING	1	*	RESERVED	
8	(8)	BITSTRING	1	FM5FLAG3	FLAGS FOR FIXED LENGTH PARMS	
		11.. ....		FM5SYNCH	SYNCHRONIZATION LEVEL	
		..1. ....		FM5RESUP	RECONNECTION SUPPORT 0=NO, 1=YES	
		...1 1111		*	RESERVED	
9	(9)	UNSIGNED	1	FM5LNTPN	LENGTH OF TRANSACTION PROGRAM NAME (NOT INCLUDING THIS BYTE)	
10	(A)	CHARACTER	*	FM5TPNAM	TRANSACTION PROGRAM NAME	
0	(0)	STRUCTURE	1	FM5ASI	ACCESS SECURITY INFORMATION SUBFIELDS	
0	(0)	UNSIGNED	1	FM5LNASI	LENGTH OF ASI SUBFIELDS (NOT INCLUDING THIS BYTE)	
1	(1)	CHARACTER	*	FM5ASEC	CONTAINS ALL ACCESS SECURITY SUBFIELDS. THESE SUBFIELDS ARE MAPPED BY THE FM5ACCSE DSECT. THERE MAY BE ZERO OR MORE OF THESE SUBFIELDS, AND EACH MUST BE SEPARATELY MAPPED BY THE FM5ACCSE DSECT.	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	FM5LUOW1	LOGICAL UNIT OF WORK ID FIELD	
0	(0)	UNSIGNED	1	FM5LNUW	LENGTH OF LUOW ID (NOT INCLUDING THIS BYTE)	
1	(1)	CHARACTER	1	FM5LUWI	LUOW ID	
1	(1)	UNSIGNED	1	FM5LNFQN	LENGTH OF FULLY QUALIFIED LU NETWORK NAME (NOT INCLUDING THIS BYTE)	
2	(2)	CHARACTER	*	FM5FQNAM	FULLY QUALIFIED LU NAME	
0	(0)	STRUCTURE	8	FM5LUOW2	LUOW - PART 2	
0	(0)	BITSTRING	6	FM5LUWIN	LUOW INSTANCE NUMBER	
6	(6)	BITSTRING	2	FM5LUWSN	LUOW SEQUENCE NUMBER	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	1	FM5CVCOR	CONVERSATION CORRELATOR	
0	(0)	UNSIGNED	1	FM5LNCCS	LENGTH OF CONVERSATION CORRELATOR OF SENDER (NOT INCLUDING THIS BYTE)	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
1	(1)	CHARACTER	*	FM5CCS	CONVERSATION CORRELATOR OF SENDING TRANSACTION

ACCESS SECURITY SUBFIELD  
 THIS DSECT IS USED TO MAP EACH ACCESS SECURITY SUBFIELD. THESE SUBFIELDS ARE ALL CONTAINED IN THE FIELD 'FM5ASEC'. YOU MUST DETERMINE HOW MANY SUBFIELDS ARE SPECIFIED, AND DETERMINE THE LENGTH OF EACH OF THE SUBFIELDS.

0	(0)	STRUCTURE	2	FM5ACCSE	ACCESS SECURITY SUBFIELD
0	(0)	UNSIGNED	1	FM5ASLL	SUBFIELD LENGTH (NOT INCLUDING THIS BYTE)
1	(1)	BITSTRING	1	FM5ASTY	SUBFIELD TYPE
2	(2)	CHARACTER	*	FM5ASDA	SUBFIELD DATA

PROGRAM INITIALIZATION PARAMETER (PIP).  
 THE PIP, IF IT EXISTS (INDICATED BY FM5PIPPR), FOLLOWS THE FMH5.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	4	FM5PIPFM	PIP FORMAT
0	(0)	UNSIGNED	2	FM5PIPLN	PIP LENGTH (INCLUDING THIS BYTE)
2	(2)	BITSTRING	2	FM5PIPGD	GDS INDICATOR
4	(4)	CHARACTER	*	FM5PIPSF	ZERO OR MORE PIP SUBFIELDS, EACH OF WHICH HAS THE FOLLOWING FORMAT
0	(0)	STRUCTURE	4	FM5PIPSM	PIP SUBFIELD MAP
0	(0)	UNSIGNED	2	FM5PIPSL	SUBFIELD LENGTH (INCLUDING THIS BYTE)
2	(2)	BITSTRING	2	FM5PIPSG	GDS INDICATOR
4	(4)	CHARACTER	*	FM5PIPSD	SUBFIELD DATA

## Constants

Len	Type	Value	Name	Description
0	BIT	0000101	FM5TYPE5	IBM ARCHITECTED FMH5
THE FOLLOWING CONSTANT IS USED WITH 'FM5TYPE'				
2	HEX	02FF	FM5ATTCH	TYPE = ATTACH
THE FOLLOWING CONSTANTS ARE USED WITH 'FM5RSCTP'				
1	HEX	D0	FM5BASIC	BASIC CONVERSATION
1	HEX	D1	FM5MAPED	MAPPED CONVERSATION
THE FOLLOWING CONSTANTS ARE USED WITH 'FM5SYNCH'				
0	BIT	00	FM5NONE	NONE
0	BIT	01	FM5CONFM	CONFIRM
0	BIT	10	FM5CSB	CONFIRM, SYNC POINT, AND BACKOUT
THE FOLLOWING CONSTANTS ARE USED WITH 'FM5ASTY'				
1	HEX	00	FM5ASIPR	PROFILE
1	HEX	01	FM5ASIPW	PASSWORD
1	HEX	02	FM5ASIID	USER ID
THE FOLLOWING CONSTANT IS USED WITH 'FM5PIPGD'				
2	HEX	12F5	FM5PIPF5	PIP VARIABLE
THE FOLLOWING CONSTANT IS USED WITH 'FM5PIPSG'				
2	HEX	12E2	FM5PIPE2	PIP SUBFIELD

## Cross Reference

Name	Hex Offset	Hex Value	Level
FM5ACCSE	0		1
FM5ASDA	2		2
FM5ASEC	1		2
FM5ASI	0		1
FM5ASLL	0		2
FM5ASTY	1		2
FM5BASE	0		2
FM5CCS	1		2
FM5CONCT	1	80	4
FM5CVCOR	0		1
FM5FLAG1	1		3
FM5FLAG2	4		3
FM5FLAG3	8		4
FM5FQNAM	2		3
FM5FXLEN	6		3
FM5LENTH	0		3
FM5LNASI	0		2
FM5LNCCS	0		2
FM5LNFLP	5		3
FM5LNFQN	1		3
FM5LNLUW	0		2
FM5LNTPN	9		3
FM5LUOW1	0		1
FM5LUOW2	0		1
FM5LUWI	1		2
FM5LUWIN	0		2
FM5LUWSN	6		2
FM5PIPFM	0		1
FM5PIPGD	2		2
FM5PIPLN	0		2
FM5PIPPR	4	08	4
FM5PIPSD	4		2
FM5PIPSF	4		2
FM5PIPSG	2		2
FM5PIPSL	0		2
FM5PIPSM	0		1
FM5RESUP	8	20	5
FM5RSCTP	6		4
FM5SYNCH	8	80	5
FM5TPNAM	A		2
FM5TYP	1	40	4
FM5TYPE	2		3
FM5UIDAV	4	80	4
ISTFM5	0		1

## Configuration Services Finite State Machine (FSM)

<b>Function:</b>	FSM contains values for the finite state machine used by configuration services.
<b>Additional Notes:</b>	FSM values are found in the RDT entry for a network resource.

### Constants

Len	Type	Value	Name	Description
VALUES FOR RPRCURS1 AND RPRDESS1 (CONFIG MACHINE CATEGORIES)				
1	HEX	00	FSMCATIN	CATEGORY = INACTIVE
1	HEX	01	FSMCATPI	CATEGORY = PEND.INACT
1	HEX	02	FSMCATCO	CATEGORY = CONNECTABLE
1	HEX	03	FSMCATRA	CATEGORY = REACTIVATE
1	HEX	04	FSMCATPA	CATEGORY = PEND.ACTIVE
1	HEX	05	FSMCATAC	CATEGORY = ACTIVE
1	HEX	06	FSMCATRT	CATEGORY = ROUTABLE
VALUES FOR RPRCURST AND RPRDESST (CONFIGURATION MACHINE)				
2	HEX	0000	FSMRESET	RESET
2	HEX	0001	FSMDEFND	DEFINED
2	HEX	0002	FSMRELS	RELEASED
2	HEX	0003	FSMINACT	INACTIVE
2	HEX	0004	FSMNEVAC	INACTIVE.NEVER.ACT
2	HEX	0005	FSMIINOP	INACTIVE.INOP
2	HEX	0006	FSMINACS	INACT WITH SESSIONS
2	HEX	0007	FSMINACX	INACT WITH ADDRESS TRANSFORMS
2	HEX	0100	FSMPINAC	PEND.INACT
2	HEX	0101	FSMPRSET	PEND.RESET
2	HEX	0102	FSMPHLIN	PEND.HL.INACT
2	HEX	0103	FSMPRMPO	PEND.REMPO.RSP
2	HEX	0104	FSMPDANS	PEND.INACT.ANS
2	HEX	0105	FSMPNFY3	PEND.NFY(3).REQ
2	HEX	0106	FSMPTRM3	PEND.TRM(3).RSP
2	HEX	0107	FSMPSUB3	PEND.SUBNODE.INACT(3)
2	HEX	0108	FSMPNFY2	PEND.NFY(2).REQ
2	HEX	0109	FSMPTRM2	PEND.TRM(2).RSP
2	HEX	010A	FSMPSUB2	PEND.SUBNODE.INACT(2)
2	HEX	010B	FSMPABCN	PEND.ABCON.RSP
2	HEX	010C	FSMPFSNA	PEND.FSNA.RSP
2	HEX	010D	FSMPDISC	PEND.DISC.RSP
2	HEX	010E	FSMPDELNR	PEND.DELNR.RSP
2	HEX	010F	FSMPDACTLU	PEND.DACTLU.RSP
2	HEX	0110	FSMPDACP	PEND.DACTPU.RSP
2	HEX	0111	FSMPSWEP	PEND.SWEP.RSP
2	HEX	0112	FSMPDLNK	PEND.DACTLINK.RSP
2	HEX	0113	FSMPNFY1	PEND.NFY(1).REQ
2	HEX	0114	FSMPTRM1	PEND.TRM(1).RSP
2	HEX	0115	FSMPSUB1	PEND.SUBNODE.INACT(1)
2	HEX	0116	FSMPABCO	PEND.ABCO.RSP
2	HEX	0117	FSMRSV01	NOT USED - AVAILABLE
2	HEX	0118	FSMP095A	PEND.OPQ(DUMP).RSP
2	HEX	0119	FSMPFDMP	PEND.DUMP.RSP
2	HEX	011A	FSMRSV02	NOT USED - AVAILABLE
2	HEX	011B	FSMDUMPC	DUMP.COMPLETE
2	HEX	011C	FSMPFNNA	PEND.FNNA.RSP
2	HEX	011D	FSMPDLUC	PEND.DACTLU.RSP(CLEANUP)
2	HEX	011E	FSMDALUC	DACTLU.COMPLETE
2	HEX	011F	FSMDAPUC	DACTPU.COMPLETE
2	HEX	0120	FSMPFDLU	PEND.FORCE.DACTLU
2	HEX	0121	FSMPCDLA	PEND.CLEANUP.DACTLINK.ACTIV
2	HEX	0122	FSMPCDLI	PEND.CLEANUP.DACTLINK.INACT
2	HEX	0123	FSMDGVBK	PEND.DACTLINK.GIVEBACK
2	HEX	0200	FSMCONCT	CONNECTABLE

Len	Type	Value	Name	Description
2	HEX	0201	FSMRDIAL	REDIAL
2	HEX	0300	FSMRACTN	REACT AT THIS NODE LEVEL
2	HEX	0301	FSMRACTH	REACT AT HIGHER NODE LEVEL
2	HEX	0400	FSMNCONO	NEG.CONOUT.RSP
2	HEX	0401	FSMPCONO	PEND.CONOUT.RSP
2	HEX	0402	FSMPREQC	PEND.REQCON.REQ
2	HEX	0403	FSMNNAUV	NEG.SCV(AU).RSP
2	HEX	0404	FSMPNAUV	PEND.SCV(AU).RSP
2	HEX	0405	FSMNSSSV	NEG.SCV(SSS).RSP
2	HEX	0406	FSMPSSSV	PEND.SCV(SSS).RSP
2	HEX	0407	FSM284AF	OPQ(RELOAD).FAILED
2	HEX	0408	FSMP284A	PEND.OPQ(RELOAD).RSP
2	HEX	0409	FSMHLACF	HLACT.FAILED
2	HEX	040A	FSMPHLAC	PEND.HLACT
2	HEX	040B	FSMRSV03	NODESET.FAILED
2	HEX	040D	FSMPLSTU	PEND.LOADSTA(UNCOND)
2	HEX	040E	FSMPLOAD	PEND.LOAD
2	HEX	040F	FSMCT1NS	CONTACT(1).NOT.SENT
2	HEX	0410	FSMNACTL	NEG.ACTLU.RSP
2	HEX	0411	FSMPACTL	PEND.ACTLU.RSP
2	HEX	0412	FSMNACTP	NEG.ACTPU.RSP
2	HEX	0413	FSMPAPU1	PEND.ACTPU(1).RSP
2	HEX	0414	FSMPSNCP	PEND.SWNC.P.RSP
2	HEX	0415	FSMNALNK	NEG.ACTLINK.RSP
2	HEX	0416	FSMPALNK	PEND.ACTLINK.RSP
2	HEX	0417	FSMINVAP	INVALID.ACTPU.RSP
2	HEX	0418	FSM183AF	OPQ(AUTOSYN).FAILED
2	HEX	0419	FSMPADST	PEND.ADDLINKSTA.RSP
2	HEX	041A	FSMNSARV	NEG.SCV(SAR).RSP
2	HEX	041B	FSMPSARV	PEND.SCV(SAR).RSP
2	HEX	041C	FSMNCONT	NEG.CON.RSP
2	HEX	041D	FSMCTDER	CTD.ERR
2	HEX	041E	FSMPCON1	PEND.CON(1).RSP
2	HEX	041F	FSMPCTD1	PEND.CTD(1).REQ
2	HEX	0420	FSMNADST	NEG.ADDLINKSTA.RSP
2	HEX	0421	FSMPADLK	PEND.ADDLINK.RSP
2	HEX	0422	FSMPCON2	PEND.CON(2).RSP
2	HEX	0423	FSMNADLK	NEG.ADDLINK.RSP
2	HEX	0424	FSMPCTD2	PEND.CTD(2).REQ
2	HEX	0425	FSMPAPU2	PEND.ACTPU(2).RSP
2	HEX	0426	FSMNASNA	NEG.ASNA.RSP
2	HEX	0427	FSMPASNA	PEND.ASNA.RSP
2	HEX	0428	FSMNSDT	NEG.SDT.RSP
2	HEX	0429	FSMPSDT	PEND.SDT.RSP
2	HEX	042A	FSMNSTD	NEG.SCV(STD).RSP
2	HEX	042B	FSMPSTD	PEND.SCV(STD).RSP
2	HEX	042C	FSMPFDSC	PEND.FORCE.DISC
2	HEX	042D	FSMHLACC	HLACT.COMPLETE
2	HEX	042E	FSMNSNCP	NEG.SWNC.P.RSP
2	HEX	042F	FSMNACDR	NEG.ACTCDRM.RSP
2	HEX	0430	FSMPACDR	PEND.ACTCDRM.RSP
2	HEX	0431	FSMNANNA	NEG.ANNA.RSP
2	HEX	0432	FSMPANNA	PEND.ANNA.RSP
2	HEX	0433	FSMRADDF	RDTADD.FAILED
2	HEX	0434	FSMPALUC	PEND.ACTLU.RSP(CLEANUP)
2	HEX	0435	FSMPVYLM	PEND.OPQ(VFYLM).RSP
2	HEX	0436	FSMNVYLM	NEG.OPQ(VFYLM).RSP
2	HEX	0437	FSMPOAS1	PEND.OPQ.AUTOSYN(1)
2	HEX	0438	FSMPOAS2	PEND.OPQ.AUTOSYN(2)
2	HEX	0439	FSMRSV04	NOT USED - AVAILABLE
2	HEX	043A	FSMCTRQI	CONTACTED.RQI
2	HEX	043B	FSMLLQED	LOWER.LEVEL.QUEUED
2	HEX	043C	FSMNLOAD	LOAD.FAILED
2	HEX	043D	FSMCTD1	CONTACTED(1)
2	HEX	043E	FSMRSV05	NOT USED - AVAILABLE
2	HEX	043F	FSMPLSTC	PEND.LOADSTA(COND)
2	HEX	0440	FSMPFDCP	PEND.FORCE.DACTPU.RSP
2	HEX	0441	FSMINOP	INOPERATIVE

Len	Type	Value	Name	Description
2	HEX	0442	FSMPDANC	PEND.DACTPU(ANSC).RSP
2	HEX	0443	FSMPDPA1	PEND.DACTPU(ACT1).RSP
2	HEX	0444	FSMPDPA2	PEND.DACTPU(ACT2).RSP
2	HEX	0445	FSMFDSCC	FORCE.DISC.COMPLETE
2	HEX	0446	FSMPMALD	PENDING MIGRATION ACTPULOAD DUMP PROCEDURE
2	HEX	0447	FSMPMATM	PENDING MIGRATION ACTPU TIMER
2	HEX	0448	FSMPBFSI	PENDING BFSESSINFO
2	HEX	0500	FSMRSV06	NOT USED - AVAILABLE
2	HEX	0501	FSMAPEER	ATTACH.PEER
2	HEX	0502	FSMRSV07	NOT USED - AVAILABLE
2	HEX	0503	FSMRSV08	NOT USED - AVAILABLE
2	HEX	0504	FSMPSUBR	PEND.SUBNODE.RELEASE
2	HEX	0505	FSMACTIV	ACTIVE
2	HEX	0600	FSMRINAC	ROUTABLE.INACTIVE
2	HEX	0601	FSMRLSD	ROUTABLE.RELEASED

VALUES FOR RLNCURAM AND RLNDESAM (ANSWER MODE MACHINE)

1	HEX	00	FSMAMRES	RESET
1	HEX	01	FSMAMDIS	DISABLED
1	HEX	02	FSMAMNDR	NEG.DACTCI.RSP
1	HEX	03	FSMAMPDR	PEND.DACTCI.RSP
1	HEX	04	FSMAMNAR	NEG.ACTCI.RSP
1	HEX	05	FSMAMPAR	PEND.ACTCI.RSP
1	HEX	06	FSMAMENA	ENABLED

VALUES FOR RLNCURTR AND RLNDESTR (LINE TRACE MACHINE)

1	DECIMAL	0	FSMTRRES	RESET
1	DECIMAL	1	FSMTRPDR	PEND.DACTTRACE.RSP
1	DECIMAL	2	FSMTRPAR	PEND.ACTTRACE.RSP
1	DECIMAL	3	FSMTRACT	ACTIVE

VALUES FOR RCPSESPR AND RCPSESSC (SESSION SERVICES MACHINE)

0	BIT	0000	FSMSSINH	INHIBITED
0	BIT	0001	FSMSSDIS	NOT.ENABLED
0	BIT	0011	FSMSSENA	ENABLED
0	BIT	0001	FSMSSUNS	UNSTABLE
0	BIT	0011	FSMSSSTA	STABLE

VALUES FOR RCCLDFSM (PU ALS\_SEC LOAD FSM)

1	DECIMAL	1	FSMDLRST	RESET
1	DECIMAL	2	FSMDLPRP	PEND.RESPONSE
1	DECIMAL	3	FSMDLPLD	PEND.LOAD
1	DECIMAL	4	FSMDLPAB	PEND.ABORT
1	DECIMAL	5	FSMDLLDD	ACTIVE

VALUES FOR RCCFSM, PATFSM, AND SRTSHFSM

1	HEX	00	FSMRSET	RESET
1	HEX	01	FSMPDCNT	PEND.DISCONNECT
1	HEX	04	FSMPCNT	PEND.CONNECT
1	HEX	05	FSMCNT	CONNECT'D
1	HEX	14	FSMPINTP	PEND.INITPU
1	HEX	15	FSMINTPU	INITPU'D

## Function Code for ISTECAAA (FUNC)

<b>Function:</b>	FUNC maps the 2-byte function code and a 1-byte flag used in calling ISTECAAA, the session management exit routine for authorization accounting and gateway node path list alteration. The primary function code gives the reason why ISTECAAA was called.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	3
<b>Additional Notes:</b>	See the description of the session management exit routine, ISTECAAA, in <i>VTAM Customization</i> .

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	3	ISTFUNC	FUNCTION CODE OVERLAY	
0	(0)	CHARACTER	3	FUNCCODE	FUNCTION CODE AND FLAGS	
0	(0)	CHARACTER	1	FUNPRIFC	PRIMARY FUNCTION CODE	
1	(1)	CHARACTER	1	FUNSECFC	SECONDARY FUNCTION CODE	
		1... ....		FUNHTYPE	1 = SESSION IS XREF BACKUP 0 = XREF PRIMARY OR NON XREF	
		.1.. ....		*	RESERVED	
		..11 ....		FUNSESSI	SESSION INITIATOR	
		.... 1..		FUNDLUA	1 = DLU REAL NETID IS ASSUMED 0 = DLU REAL NETID IS NOT ASSUMED	
		.... .1..		FUNDSL	1 = ADJACENT SSCP SELECTION OR ALIAS SELECTION INVOKED FOR DSRLST ROUTING (PLU RIC INITIALIZED, SLU RIC NOT INITIALIZED) 0 = ADJACENT SSCP SELECTION OR ALIAS SELECTION INVOKED FOR CDINIT ROUTING (BOTH PLU AND SLU RIC INITIALIZED)	
		.... ..1.		FUNGWOD	1 = GATEWAY PATH SELECTION INVOKED FOR DLU DIRECTION 0 = GATEWAY PATH SELECTION INVOKED FOR OLU DIRECTION	
		.... ...1		FUNTAKOV	1 = SESSION MANAGEMENT CODE BEING DRIVEN FOR TAKEOVER 0 = SESSION MANAGEMENT CODE NOT BEING DRIVEN FOR TAKEOVER	
2	(2)	CHARACTER	1	*	RESERVED	
		1... ....		*	RESERVED	
		.11. ....		*	RESERVED	
		...1 ....		*	RESERVED	
		.... 1..		*	RESERVED	
		.... .111		*	AVAILABLE	

### Constants

Len	Type	Value	Name	Description
CONSTANTS TO INDICATE SESSION INITIATOR, FUNSESSI				
FUNAUTO - THE SESSION WAS INITIATED VIA AN AUTOLOGON REQUEST. THE OLU IS THE SLU.				
FUNPLUR - THE SESSION WAS INITIATED BY THE PLU. THE OLU IS THE PLU.				
FUNSLUR - THE SESSION WAS INITIATED BY THE SLU. THE OLU IS THE SLU.				
FUNOTHR - THE SESSION WAS INITIATED BY A THIRD PARTY. THE OLU/DLU STATUS CANNOT BE DETERMINED YET.				
0	BIT	00	FUNAUTO	CONSTANT FOR AUTOLOGON SESSION
0	BIT	01	FUNPLUR	CONSTANT FOR PLU REQUESTED SESSION
0	BIT	10	FUNSLUR	CONSTANT FOR SLU REQUESTED SESSION
0	BIT	11	FUNOTHR	CONSTANT FOR THIRD PARTY REQUESTED SESSION

### Cross Reference

Name	Hex Offset	Hex Value	Level
FUNCCODE	0		2
FUNDLUA	1	08	4
FUNDSL	1	04	4
FUNGWOD	1	02	4
FUNHTYPE	1	80	4
FUNPRIFC	0		3
FUNSECFC	1		3
FUNSESSI	1	20	4
FUNTAKOV	1	01	4
ISTFUNC	0		1



## Gateway Information Vectors (GIV)

<b>Function:</b>	GIV maps the gateway information vectors pointed to by ISTCAAPL, the parameter list used to call ISTEEXCAA, which is the session management exit routine for authorization accounting and gateway node path list alteration. These vectors contain the gateway node name and the class-of-service names for the origin and destination sides of the gateway node.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	CAAP1GIV (CAAPL) - first GIV in the direction of the origin LU (OLU) CAAP2GIV (CAAPL) - second GIV in the direction of the destination LU (DLU)
<b>Additional Notes:</b>	See the description of the session management exit routine, ISTEEXCAA, in <i>VTAM Customization</i> .

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTGIV	GATEWAY INFORMATION VECTOR
0	(0)	UNSIGNED	1	GIVLEN	LENGTH OF DATA FIELD
1	(1)	CHARACTER	1	GIVDATA	DATA FIELD
1	(1)	UNSIGNED	1	GIVGWNL	LENGTH OF GWN NAME
2	(2)	CHARACTER	*	GIVGWNM	GWN NAME

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	GIVOCOS	CLASS OF SERVICE NAME IN THE NETWORK ON THE ORIGIN SIDE OF THE GWN NAMED IN GIVGWNM
0	(0)	UNSIGNED	1	GIVOCOSL	LENGTH OF CLASS OF SERVICE NAME
1	(1)	CHARACTER	*	GIVOCOSN	CLASS OF SERVICE NAME FOR NETWORK ON THE ORIGIN SIDE OF THE GATEWAY
0	(0)	STRUCTURE	1	GIVDCOS	CLASS OF SERVICE NAME IN THE NETWORK ON THE DESTINATION SIDE OF THE GWN NAMED IN GIVGWNM
0	(0)	UNSIGNED	1	GIVDCOSL	LENGTH OF CLASS OF SERVICE NAME
1	(1)	CHARACTER	*	GIVDCOSN	CLASS OF SERVICE NAME FOR NETWORK ON THE DESTINATION SIDE OF THE GATEWAY

## Cross Reference

Name	Hex Offset	Hex Value	Level
GIVDATA	1		2
GIVDCOS	0		1
GIVDCOSL	0		2
GIVDCOSN	1		2
GIVGWNL	1		3
GIVGWNM	2		3
GIVLEN	0		2
GIVOCOS	0		1
GIVOCOSL	0		2
GIVOCOSN	1		2
ISTGIV	0		1

## Gateway Node Path Selection List (GWNPL)

<b>Function:</b>	GWNPL maps the gateway node path selection list in the session management exit routine (ISTEXCAA). That list shows, in order of preference, the gateway nodes to use in establishing an LU-LU session.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	CAAPGPLP (CAAPL)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	12	ISTGWNPL	GATEWAY NODE PATH SELECTION LIST	
0	(0)	SIGNED	2	GWNPLEN	LENGTH OF GWN LIST	
2	(2)	CHARACTER	10	GWNPLIST	GWN LIST	
2	(2)	CHARACTER	8	GWNPLNET	NETID OF THE ADJACENT SSCP	
10	(A)	SIGNED	2	GWNPLNOP	NUMBER OF GATEWAY ENTRIES	
12	(C)	CHARACTER	*	GWNPLENT	GATEWAY PATH ENTRY	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	21	GWNENTRY	GATEWAY ENTRY	
0	(0)	UNSIGNED	1	GWNENTLN	LENGTH OF GWN ENTRY INFORMATION	
1	(1)	CHARACTER	20	GWNENTIN	GWN ENTRY INFORMATION	
1	(1)	CHARACTER	8	GWNENTNM	GATEWAY NODE NAME	
9	(9)	SIGNED	4	GWNENTSA	THIS NETWORK SUBAREA OF GWN NAMED IN GWNENTNM	
13	(D)	CHARACTER	8	GWNENTAN	ADJACENT NETID ACCESSED BY GWN NAMED IN GWNENTNM	

### Cross Reference

Name	Hex Offset	Hex Value	Level
GWNENTAN	D		3
GWNENTIN	1		2
GWNENTLN	0		2
GWNENTNM	1		3
GWNENTRY	0		1
GWNENTSA	9		3
GWNPLENT	C		3
GWNPLIST	2		2
GWNPLEN	0		2
GWNPLNET	2		3
GWNPLNOP	A		3
ISTGWNPL	0		1

## Host-Attached Link Control Block (HALCB)

<b>Function:</b>	A HALCB represents an SDLC line attached through a communication adapter. It is created when the line is activated.  The HALCB describes the characteristics and dynamic status of the line. It also contains information needed to control I/O initialization and termination. This includes CCWs and the scheduling queues and parameters required to communicate with the I/O supervisor routines that perform the I/O operations.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	616 (X'268')
<b>Pointed to by:</b>	RPRNCBA (RPRE)
<b>Included Blocks:</b>	NCB (HALCB) PAB (HALIRPAB) CCW (HALSMCCW, HALFNOP, HALAPTIC, HALAUTOP, HALNPTIC, HALARTIC, HALCNSCB, HALWRTIC, HALPOLL, HALRDTIC, HALSNSCB, HALKLNOP) SCX (HALCUSCB) SSIO (HALCONFG)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	616	ISTHALCB	HOST ATTACHED LINK CONTROL BLOCK
0	(0)	CHARACTER	312	HALCB	COMMON NCB HEADER
312	(138)	CHARACTER	20	HALIRPAB	INBOUND ROUTER PAB
332	(14C)	BITSTRING	1	*	RESERVED
333	(14D)	BITSTRING	3	HALIDNM	IDNUM CALLER
		1111 ....		*	RESERVED NOT AVAILBLE
333	(14D)	BITSTRING	2	HALIDNUM	IDNUM
333	(14D)	BITSTRING	2	*	RESERVED
336	(150)	CHARACTER	257	HALDEVCA	DEVICE CONTROL AREA
START OF CHANNEL PROGRAM AREA					
336	(150)	CHARACTER	136	HALCHPGM	CHANNEL PROGRAMS
336	(150)	CHARACTER	8	HALSMCCW	SET MODE CCW
344	(158)	CHARACTER	8	HALFNOP	FIRST NOP CCW
352	(160)	CHARACTER	8	HALAPTIC	TIC TO AUTOPOLL NOTE: THIS IS CHANGED ON THE FLY TO GO TO THE CONTROL SCB TO INITIATE A WRITE CHANNEL PROGRAM
360	(168)	CHARACTER	8	HALAPXTN	HALAPTIC EXTENSION CONTAINS VIRTUAL ADDRESS OF AUTOPOLL CCW
368	(170)	CHARACTER	8	HALAUTOP	AUTO POLL CCW
376	(178)	CHARACTER	8	HALNPTIC	TIC TO FIRST NOP CCW
384	(180)	CHARACTER	8	HALARTIC	TIC TO READ CHANNEL PROGRAM NOTE: THIS CCW IS EXECUTED WHENEVER STATUS MODIFER IS SET IN RESPONSE TO POLL.
392	(188)	CHARACTER	8	HALARXTN	HALARTIC EXTENSION CONTAINS VIRTUAL ADDRESS OF BUFFER
400	(190)	CHARACTER	8	HALCNSCB	CONTROL SCB CCW
408	(198)	CHARACTER	8	HALWRTIC	TIC TO WRITE CHANNEL PROGRAM
416	(1A0)	CHARACTER	8	HALWRXTN	HALWRTIC EXTENSION CONTAINS VIRTUAL ADDRESS OF WRITE CHANNEL PROGRAM
424	(1A8)	CHARACTER	8	HALPOLL	WRITE POLL CCW
432	(1B0)	CHARACTER	8	HALRDTIC	TIC TO READ CHANNEL PROGRAM NOTE: THIS TIC IS SET AS PART OF THE WRITE CHANNEL PROGRAM.
440	(1B8)	CHARACTER	8	HALRDXTN	HALRDTIC EXTENSION CONTAINS VIRTUAL ADDRESS OF READ CHANNEL PROGRAM
448	(1C0)	CHARACTER	8	HALSNSCB	SENSE SCB CCW
456	(1C8)	CHARACTER	8	HALKLNOP	NOP TO KILL CHANNEL PROGRAM
464	(1D0)	CHARACTER	8	HALNPSAV	SAVE AREA FOR HALNPTIC EXTENSION
464	(1D0)	CHARACTER	4	*	RESERVED
468	(1D4)	CHARACTER	4	HALNPADV	VIRTUAL ADDRESS OF TEST CHANNEL PROGRAM

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
END OF CHANNEL PROGRAM AREA					
472	(1D8)	CHARACTER	20	HALCUSCB	CURRENT SDLC POLLING LIST AVAILABLE
492	(1EC)	CHARACTER	4	*	
496	(1F0)	ADDRESS	4	HALASCB	ADDRESS OF SDLC POLLING LIST
500	(1F4)	CHARACTER	41	HALCAREA	CONNECTION MANAGER AREA
500	(1F4)	CHARACTER	28	HALSMODX	EXTENDED SET MODE INFORMATION
500	(1F4)	CHARACTER	8	HALSMODE	SET MODE INFORMATION
500	(1F4)	BITSTRING	1	HALSMDYN	DYNAMIC CHANGE FLAGS
		1... ..		HALDYNAI	AUTOPOLL INDEX 0 = DO NOT CHANGE 1 = CHANGE AUTOPOLL INDEX BYTE 1 CONTAINS THE NEW INDEX VALUE
		.1.. ....		HALDYNCI	CONTACT POLL INDEX 0 = DO NOT CHANGE 1 = CHANGE CONTACT POLL INDEX BYTE 2 CONTAINS THE NEW INDEX VALUE
		..1. ....		*	RESERVED
		...1 1111		HALRSV01	NOT USED - RESERVED
501	(1F5)	UNSIGNED	1	HALSMAPI	AUTOPOLL INDEX VALUE
502	(1F6)	UNSIGNED	1	HALSMCPI	CONTACT POLL INDEX VALUE
503	(1F7)	UNSIGNED	1	HALSMCPF	CONTACT POLL FREQUENCY
504	(1F8)	UNSIGNED	1	HALSMSSP	SERVICE SEEKING PAUSE
505	(1F9)	UNSIGNED	1	HALSMTO	PRIMARY - IDLE DETECT TIMEOUT REPLYTO SEC- ONDARY - NONPRODUCTIVE RECEIVE TIMEOUT ACTIVTO
506	(1FA)	BITSTRING	1	HALSM6	SETMODE BYTE 6
		1... ..		HALSM6PS	PRIMARY/SECONDARY STATION 0 = PRIMARY STATION 1 = SECONDARY STATION
		.111 1111		HALRSV02	NOT USED - RESERVED
507	(1FB)	BITSTRING	1	HALSMADR	SECONDARY STATION SDLC ADDRESS
508	(1FC)	UNSIGNED	1	HALSMRTO	X.21 TIME OUT RETRY VALUE
		1... ..		HALSMSTR	SET TIME RUN
		.1.. ....		HALSM128	RETRY TIMEOUT = 12.8 SECONDS
		..1. ....		HALSMR64	RETRY TIMEOUT = 6.4 SECONDS
		...1 ....		HALSMR32	RETRY TIMEOUT = 3.2 SECONDS
		.... 1...		HALSMR16	RETRY TIMEOUT = 1.6 SECONDS
		.... .1..		HALSMR08	RETRY TIMEOUT = 0.8 SECONDS
		.... ..1.		HALSMR04	RETRY TIMEOUT = 0.4 SECONDS
		.... ...1		HALSMR02	RETRY TIMEOUT = 0.2 SECONDS
509	(1FD)	CHARACTER	4	*	TIMER VALUES
509	(1FD)	CHARACTER	2	HALX21TM	FREE PERIOD AFTER THE DIAL COMPLETION -- TIME VALUE FOR X.21 SHM/MPS
511	(1FF)	CHARACTER	2	HALNPOLL	NON-PRODUCTIVE POLLING TIME-- TIME VALUE FOR X.21 SHM/MPS
513	(201)	CHARACTER	15	*	RESERVED FOR FUTURE SETMODE FIELD
528	(210)	BITSTRING	2	HALCMIO	CONNECTION MANAGER I/O
528	(210)	BITSTRING	1	HALCMIO1	THIS FIELD IS FOR DATA TRANSFER ALINGMENT
		11.. ....		HALPUSIO	CONNECTION MANAGER / CHANNEL END APPENDAGE COMMUNICATION
		..1. ....		HALSECON	INDICATE SECONDARY STATUS
		...1 ....		HALSW	1 = LINE GENNED AS SWITCHED
		.... 1...		HALASYNC	ASYNCHRONOUS I/O FOR CONNECTION MANAGER
		.... .1..		HALTMACT	STATION BEING WRITTEN TO IS UNDER LINK LEVEL 2 TEST
		.... ..1.		HALX21SW	LINE IS GENNED AS X.21 SWITCHED
		.... ...1		HALDCALL	X.21 LINE IS DIRECT CALL ONLY
		1... ....		HALX21SH	LINE IS GENNED AS X.21 SHM SWITCHED
		.1.. ....		HALDLRTY	DIAL RETRY IS ACTIVE
		..1. ....		HALSAD	LINE IS FOR SUBAREA DIAL
		...1 ....		HALLNKRN	1 = RE-ENABLE THE LINK
		.... 1...		HALSDLAO	SUBAREA DIAL LU ACTIVATION HAS OCCURED (AT LEAST ONE LU HAS BEEN ACTIVATED)
		.... .1..		*	RESERVED
		.... ..1.		*	RESERVED
		.... ...1		*	RESERVED
530	(212)	BITSTRING	1	HALACCTO	ACTIVITY TIMEOUT - ACTIVTO
531	(213)	BITSTRING	1	HALRECTO	REPLY TIMEOUT - REPLYTO
532	(214)	UNSIGNED	1	HALMAXBF	MAXIMUM READ BUFFER ALLOCATION

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
533	(215)	UNSIGNED	1	HALMINBF	MINIMUM READ BUFFER ALLOCATION	
534	(216)	CHARACTER	7	HALCONFG	LINE CONFIGURATION	
541	(21D)	UNSIGNED	1	*	RESERVED	
542	(21E)	CHARACTER	1	*	NOT-USED AVAILABLE	
543	(21F)	UNSIGNED	1	HALPIUPF	LENGTH OF FID1 TH PREFIX	
544	(220)	ADDRESS	4	HALSCBSV	SAVE ADDRESS OF SPL	
548	(224)	SIGNED	2	HALNUSCB	NUMBER OF SPL OR PUT ENTRIES IN THE TABLE	
550	(226)	UNSIGNED	2	HALCUA	CHANNEL UNIT ADDRESS OF THE LINK	
552	(228)	CHARACTER	1	HALCEARC	CHANNEL END APPENDAGE RETURN CODE	
553	(229)	BITSTRING	1	HALFLAG1	FLAGS	
		1.. ....		HALSDRL	STATISTICAL DATA RECORD FOR LINK REQUIRED	
		.1. ....		HALSDRS	STATISTICAL DATA RECORD FOR STATION REQUIRED	
		..1. ....		HALCD	INDICATE PU_TY4/5	
		...1 ....		HALOVRFL	STATISTICAL COUNTERS OVERFLOWED	
		.... 1..		HALDISCN	'1'B - DISCONNECTION OCCURED '0'B - DISCONNECTION NOT OCCURED	
		.... .1..		HALRECRQ	OBR RECORDING REQUIRED FOR A COUNTER OVERFLOW	
		.... ..1.		HALSTST	TEST COMMAND ACTIVE ON CA SECONDARY SIDE	
		.... ...1		HALSADAD	SUBAREA DIAL AUTO DISCONNECT FUNCTION SUPPORTED	
554	(22A)	CHARACTER	4	HALSTATS	I/O STATISTICS	
554	(22A)	SIGNED	2	HALTOFRM	TOTAL COUNT OF FRAMES SENT AND ACKNOWLEDGED	
556	(22C)	SIGNED	2	HALTIFRM	TOTAL COUNT OF FRAMES RECEIVED	
558	(22E)	CHARACTER	9	HALTMPS	TEMPORARY ERROR WORK AREA	
558	(22E)	CHARACTER	3	HALTEMPS (3)	A 3 ELEMENT ARRAY FOR COUNTING LINE ERRORS BY SENSE TYPE - IF SENSE TYPE IS NOT ALREADY BEING COUNTED, USE THE NEXT ELEMENT IN THE ARRAY	
558	(22E)	UNSIGNED	1	HALTCT	COUNT BY SENSE TYPE FOR OBR	
559	(22F)	CHARACTER	2	HALTSNS	SENSE TYPE FOR OBR	
567	(237)	UNSIGNED	1	HALTECT	TEMPORARY ERROR COUNT	
568	(238)	UNSIGNED	1	HALBUFCT	NUMBER OF TIMES MINIMUM BUFFERS WERE SUFFICIENT	
569	(239)	UNSIGNED	1	*	AVAILABLE	
570	(23A)	UNSIGNED	1	HALRLIM	LINK ERROR RETRY LIMIT	
571	(23B)	CHARACTER	2	HALFSM	FINITE STATE MACHINE	
571	(23B)	BITSTRING	1	HALLFSM	LINK FINITE STATE MACHINE	
572	(23C)	BITSTRING	1	HALCFSM	CONNECTION FINITE STATE MACHINE	
573	(23D)	UNSIGNED	1	HALPUIND	INDEX TO CURRENT PUT	
574	(23E)	UNSIGNED	1	HALTMSVI	SAVED INDEX OF PUT FOR LL2	
575	(23F)	BITSTRING	1	HALRTYM	GENNED CONSTANT FOR RETRY LIMIT	
576	(240)	ADDRESS	4	HALTGCSBA	ADDRESS OF TRANSMISSION GROUP CONTROL BLOCK	
580	(244)	CHARACTER	2	HALCPS	CALL PROGRESS SIGNAL (CPS)	
582	(246)	UNSIGNED	2	HALSDLUC	SUBAREA DIAL LU-LU SESSION COUNT	
584	(248)	ADDRESS	4	HALLPDAA	ADDRESS OF LPDA CONTROL BLOCK	
588	(24C)	ADDRESS	4	HALNEXT	POINTER TO NEXT X.21 SHM HALCB	
592	(250)	BITSTRING	1	HALPMFSM	FSM FOR PORT MANAGER I/O	
		11.. ....		HALPMCM	PORT MANAGER I/O ON BEHALF OF THE CONNECTION MANAGER	
		..11 ....		HALPMP	PORT MANAGER I/O ON BEHALF OF THE LINK SCHEDULER	
		.... 1111		*	NOT USED - AVAILABLE	
593	(251)	UNSIGNED	1	HALFLAG2	FLAG BYTE	
		1.. ....		HALMODPL	MODIFY AUTOPOLL	
		.11. ....		*	RESERVED	
		...1 ....		*	RESERVED	
		.... 1111		*	AVAILABLE	
594	(252)	CHARACTER	2	*	NOT USED - AVAILABLE	
596	(254)	ADDRESS	4	HALDIALT	POINTER TO X21 DIAL#	
600	(258)	CHARACTER	16	HALSYSUA	SYSTEM UNIQUE AREA	
600	(258)	CHARACTER	8	HALADJNM	ADJACENT RESOURCE NAME	
608	(260)	CHARACTER	8	HALSDTOT	SUBAREA DIAL DISCONNECT TIME OF DAY	
616	(268)	CHARACTER		HALEND	FORCE ENDING ALIGNMENT	

VALUES FOR DEVICE CONTROL FLAGS

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	1	HALDCFLG	
		1... ....		HALOBRL	OBR RECORD FOR THE LINK REQUIRED
		.1.. ....		HALOBRS	OBR RECORD FOR THE STATION REQUIRED
		..1. ....		HALPUREC	1 = CLOSE DOWN RECORD REQUIRED FOR THE STATION (PU)
		...1 ....		HALSCBRR	PUT THE LINK IN RECEIVE READY MODE
		.... 1..		HALSETMD	ISSUE SET MODE TO CHANGE AUTOPOLL INDEX
		.... .1..		HALDSBL	DISABLE TO BE DONE
		.... ..1.		*	NOT USED- AVAILABLE
		.... ...1		HALAP1	SET NOP DURING AUTOPOLL RETRY

**Constants**

Len	Type	Value	Name	Description
VALUE FOR HALPUSIO				
0	BIT	00	HALNOTCM	NON CONNECTION MANAGER I/O
0	BIT	01	HALCMPND	CONNECTION MANAGER I/O IS PENDING
0	BIT	10	HALCMACT	CONNECTION MANAGER I/O IS ACTIVE
0	BIT	11	HALCMIOH	CONNECTION MANAGER I/O IS HALTED
VALUES FOR LINK FINITE STATE MACHINE				
1	HEX	00	HALFSLRS	RESET STATE
1	HEX	01	HALFSLSI	SENSE I/O PENDING
1	HEX	02	HALFSLEP	ENABLE PENDING
1	HEX	08	HALFSLAC	ACTIVE STATE
1	HEX	10	HALFSLHP	HALT I/O PENDING
1	HEX	20	HALFSLDD	DACTLINK DISABLE PENDING
1	HEX	30	HALFSLDI	DISABLE INOP PENDING
1	HEX	40	HALFSLDA	DISABLE ACTLINK PENDING
VALUES FOR CONNECTION FINITE STATE MACHINE				
1	HEX	00	HALFSCRS	RESET STATE
1	HEX	01	HALFSCAP	ANSWER PENDING
1	HEX	02	HALFSCAD	AUTODIAL PENDING
1	HEX	03	HALFSCXA	X.21 ANSWER PENDING
1	HEX	04	HALFSCMD	MANUAL DIAL PENDING
1	HEX	05	HALFSCXD	X.21 AUTOCALL PENDING
1	HEX	06	HALFSCH1	X.21 SHM HALT I/O PENDING 1
1	HEX	07	HALFSCH2	X.21 SHM HALT I/O PENDING 2
1	HEX	08	HALFSCCO	CONNECTED STATE
1	HEX	10	HALFSCA1	ABANDON CONNECTION 1
1	HEX	11	HALFSCA2	ABANDON CONNECTION 2
1	HEX	12	HALFSCX1	X.21 SHM AUTOCALL PENDING 1
1	HEX	13	HALFSCX2	X.21 SHM AUTOCALL PENDING 2
1	HEX	21	HALFSCDP	DACTCONNIN PENDING
1	HEX	41	HALFSCOP	ABANDON CONNECT OUT PENDING
1	HEX	51	HALFSCXO	X.21 OBR PENDING
1	HEX	60	HALFSCPD	ANSWER PENDING FOR SUBAREA DIAL START
1	HEX	61	HALFSCSA	ANSWER PENDING FOR SUBAREA DIAL FINISH
1	HEX	65	HALFSCSD	AUTODIAL PENDING FOR SUBAREA DIAL LINK
1	HEX	69	HALFSCDR	DISCONNECT/RE-ENABLE ANSWER STATE
VALUE FOR HALPMCM AND HALPMPD				
0	BIT	00	HALRESET	PORT MANAGER I/O RESET
0	BIT	01	HALACTIV	PORT MANAGER I/O ACTIVE
REPLY TIMEOUT VALUE FOR XID(00) CHANNEL PROGRAM				
1	DECIMAL	50	HALXIDTO	FIFTY SECOND REPLY TIME OUT VALUE FOR XID(00) CHANNEL PROGRAM
EQUATES FOR RETURN CODES (NCBRCODE)				
1	HEX	01	HALNORML	PROCESS AS NORMAL
1	HEX	04	HALRETRY	ERROR IS RETRYABLE
1	HEX	08	HALERROR	ERROR IS PERMANENT & NOT RETRYABLE

Len	Type	Value	Name	Description
1	HEX	0C	HALERPCM	ERROR IS TO BE ANALYZED BY CONNECTION MANAGER
EQUATES FOR ERROR CODES (NCBERCOD)				
1	HEX	01	HALCTLCK	CHANNEL CONTROL CHECK
1	HEX	02	HALSNDNT	SHOULD NOT OCCUR SENSE
1	HEX	03	HALCHDCK	CHANNEL DATA CHECK
1	HEX	05	HALEQCHK	EQUIPMENT CHECK
1	HEX	06	HALINTRQ	INTERVENTION REQUIRED
1	HEX	07	HALLSTD	LOST DATA
1	HEX	08	HALCMDRJ	COMMAND REJECT
1	HEX	09	HALCCEQ3	CONDITION CODE 3
1	HEX	0B	HALNOTIN	NOT INITIALIZED
1	HEX	0C	HALCHDMG	CHANNEL DAMAGED
1	HEX	0D	HALCHNCK	CHAINING CHECK
1	HEX	0E	HALPGMCK	CHANNEL PROGRAM CHECK
1	HEX	0F	HALPRTCK	PROTECTION CHECK
1	HEX	10	HALSNOST	SHOULD NOT OCCUR
1	HEX	13	HALOVRRN	OVERRUN
1	HEX	15	HALDATRJ	DATA REJECT
1	HEX	16	HALDATCK	DATA CHECK
1	HEX	18	HALMCHCK	MACHINE CHECK
1	HEX	19	HALTMOUT	TIMEOUT
1	HEX	1A	HALUNKWN	UNKNOWN ERROR
THE FOLLOWING EQUATES ARE FOR THE 1ST BYTE OF SENSE DATA (NCBSNS1)				
1	HEX	80	HALCOMRJ	COMMAND REJECT
1	HEX	40	HALINREQ	INTERVENTION REQUIRED
1	HEX	10	HALEQPCK	EQUIPMENT CHECK
1	HEX	08	HALDACHK	DATA CHECK
1	HEX	04	HALOVRUN	OVERRUN
1	HEX	02	HALLSDAT	LOST DATA
1	HEX	01	HALTOCMP	TIMEOUT COMPLETE
THE FOLLOWING EQUATES ARE FOR THE SECOND BYTE OF SENSE DATA (NCBSNS2).				
THE SECOND BYTE OF SENSE DATA IS SENSITIVE TO THE CONTENTS OF THE FIRST BYTE OF DATA THEREFORE SEE THE MAJOR COMMENTS BEFORE EACH GROUP OF SENSE EQUATES.				
COMMAND REJECT (BIT0 = ON)				
1	HEX	03	HALCRNSW	DIAL COMMAND ISSUED TO NON- SWITCHED LINE
1	HEX	04	HALCRACA	DIAL COMMAND ISSUED AND NO AUTO CALL ADAPTER
1	HEX	05	HALCRDTR	DTR ON WHEN DIAL COMMAND INITIATED
1	HEX	06	HALCRDTI	DTR OFF AT COMMAND INITIATION
1	HEX	07	HALCRDTC	DTR OFF DURING CHAINING
1	HEX	08	HALCRINV	8 IMMEDIATE OPERATION TYPE COMMANDS HAVE BEEN EXECUTED CONSECUTIVELY
1	HEX	09	HALCRINC	COMMAND CODE IN CCW DID NOT MATCH VALID SDLC-ICA COMMANDS
1	HEX	0B	HALCRLAD	LISTEN ISSUED TO LINE ALREADY IN DATAPHASE
1	HEX	10	HALCROUT	LINE DIRECTION OUT DURING READ
1	HEX	11	HALCRINB	LINE DIRECTION IN DURING WRITE
1	HEX	12	HALCRHAW	DATA ADDRESS NOT ON HALF WORD ADDRESS
1	HEX	13	HALCRIFR	7 OUTSTANDING UNACKNOWLEDGED I-FRAMES IN WRITE PIU
1	HEX	14	HALCRDCT	DATA COUNT EXHAUSTED
1	HEX	15	HALCRSCB	NO CURRENT SCB DEFINED
1	HEX	16	HALCRLCT	CCW LENGTH COUNT ERROR
1	HEX	17	HALCRFUW	DATA ADDRESS NOT ON FULLWORD ADDRESS
1	HEX	18	HALCRTMF	MORE THAN 127 COMMANDS FLUSHED
1	HEX	19	HALCRWTS	CCW LENGTH COUNT OF WRITE LESS THAN 2
INTERVENTION REQUIRED (BIT1 = ON)				
1	HEX	20	HALIRDSE	DSR OFF DURING READ OR WRITE
1	HEX	21	HALIRDSR	DSR OFF AT COMMAND INITIATION
1	HEX	22	HALIRCTS	CTS NOT ACTIVATED BEFORE TIMEOUT

Len	Type	Value	Name	Description
1	HEX	23	HALIRCTE	CTS OFF AT EXECUTION OF WRITE
1	HEX	24	HALIRCLK	MODEM CLOCK LOST
1	HEX	25	HALIRCTF	CTS NOT DEACTIVATED BEFORE TIMEOUT
1	HEX	29	HALIRDLO	DLO SIGNAL ON WHEN DIAL INITIATED
1	HEX	2A	HALIRPWI	PWI LEAD OFF AT COMMAND INITIATION
1	HEX	2B	HALIRPWX	PWI LEAD FALLEN AT EXECUTION OF DIAL
1	HEX	2C	HALIRTMO	ACU FAILED TO TURN ON OR OFF THE PND WITHIN ALLOTTED TIME
1	HEX	2D	HALIRTMR	DSC,DSR,ACR NOT PRESENTED WITHIN 60 SECONDS AFTER DIAL
1	HEX	2E	HALIRTOD	DSR NOT ACTIVATED BY DATA SET WITHIN 1 SECOND AFTER DTR PRESENTED
1	HEX	31	HALIRDTE	ENABLE COMMAND ISSUED TO ALREADY ENABLED LINE BUT DSR NOT ACTIVE OR LINE DISABLED AND DSR ON
1	HEX	33	HALIRCCC	CONNECTION CLEARED BEFORE COMPLETION
1	HEX	34	HALIRNCR	NON_RETRIABLE CALL PROGRESS SIGNAL RECEIVED
<b>EQUIPMENT CHECK (BIT3 = ON)</b>				
1	HEX	60	HALECUTO	UNEXPECTED TRAP OCCURED
1	HEX	61	HALECTRH	B-STAT TRAPS CONTINUOUSLY GENERATED FOR LINE
1	HEX	62	HALECMCK	CCA MACHINE CHECK
1	HEX	63	HALECCLK	INTERNAL CLOCK SIGNAL LOST
1	HEX	64	HALECBST	NO VALID CCA B-STAT
1	HEX	65	HALECCOM	COMPARATOR ERROR
1	HEX	70	HALECDSE	DSR OFF DURING READ OR WRITE
1	HEX	71	HALECDSR	DSR OFF AT INITIATION OF READ OR WRITE
1	HEX	72	HALECCTS	CTS NOT ACTIVE TIMEOUT
1	HEX	73	HALECCTE	CTS OFF AT EXECUTION OF WRITE
1	HEX	74	HALECCTF	CTS NOT DEACTIVE TIMEOUT
1	HEX	75	HALECRSD	RTS DOWN WHEN LINE IN OUTBOUND DIRECTION
1	HEX	76	HALECDTO	DTR OFF DURING ENABLE
<b>DATA CHECK (BIT4 = ON)</b>				
1	HEX	90	HALDCFCS	FCS ERROR DURING READ
1	HEX	91	HALDCSCB	OFFSET VALUE IN SCB ERROR
1	HEX	92	HALDCIFR	INVALID FRAME OR ABORT DURING READ IF PRIMARY
1	HEX	93	HALDCISE	SDLC SEQUENCE INVALID ON INBOUND
1	HEX	95	HALDCSMD	SET MODE INFORMATION ERROR
1	HEX	96	HALDCWOR	AN NR OUT OF RANGE RECEIVED
1	HEX	97	HALDCFOR	FORMAT ERROR. CPS LACKS REQUIRED DELIMITER
1	HEX	98	HALDCICS	INVALID CHARACTER DETECTED IN SELECTION SEQUENCE
<b>OVERRUN (BIT5 = ON)</b>				
1	HEX	A0	HALORREC	OVERRUN CONDITION DURING READ
1	HEX	A1	HALORTRX	UNDERRUN DURING WRITE
1	HEX	A2	HALORCDI	DATA CHAINING SPECIFIED IN READ PIU
1	HEX	A3	HALORCDO	DATA CHAINING SPECIFIED IN WRITE PIU
<b>LOST DATA (BIT6 = ON)</b>				
1	HEX	C0	HALLDNRD	CHARACTER RECEIVED AND LOST BECAUSE NO INBOUND COMMAND ACTIVE
1	HEX	C1	HALLDFLD	LENGTH COUNT IS ZERO AND NO READ
1	HEX	C2	HALLDPND	PND ON DURING DIAL INITIATION
1	HEX	C4	HALLDDSR	DSC ON DURING DIAL
1	HEX	C5	HALLDDSO	DSR OR ACU'S DSC SIGNAL RISES EARLY DURING DIAL
1	HEX	C7	HALLDHIO	HIO ISSUED DURING READ OR DATA TRANSFER
<b>TIMEOUT COMPLETE (BIT7 = ON)</b>				
1	HEX	E6	HALTOACR	ABANDON CALL AND RETRY LEAD OF ACU ROSE DURING INITIALIZATION OF DIAL
1	HEX	E7	HALTOACE	ABANDON CALL AND RETRY CAME ACTIVE DURING DIAL
1	HEX	EC	HALTOSWD	DSR NOT DEACTIVE TIMEOUT



Len	Type	Value	Name	Description
1	HEX	F0	HALTONRT	NONPRODUCTIVE RECEIVE TIMEOUT DURING READ TYPE COMMAND
1	HEX	F1	HALTOITO	IDLE TIMEOUT ON PRIMARY STATION
1	HEX	F2	HALTOFCT	FILL CHARACTER TIMEOUT
1	HEX	F4	HALTORCR	RETRIABLE CALL PROGRESS SIGNAL RECEIVED
1	HEX	FE	HALTOSKP	TOO MANY SPLS WITH SKIP SPECIFIED DURING AUTOPLL
<b>END OF SELECTION CHARACTER FOR DIRECT CONNECT OUT</b>				
1	HEX	4E	HALEOS	END OF SELECTION CHARACTER FOR X.21 LINES
<b>VALID RETRIABLE CALL PROGRESS SIGNALS(CPS) FOR X.21</b>				
2	CHARACTER	20	HALCPSNC	CPS 20 - NO CONNECTION
2	CHARACTER	21	HALCPSNB	CPS 21 - NUMBER BUSY
2	CHARACTER	23	HALCPSTE	CPS 23 - SELECTION SIGNALS TRANSMISSION ERROR
2	CHARACTER	61	HALCPSCG	CPS 61 - NETWORK CONGETION
<b>FUNCTION CODES FOR ISTTSCHX</b>				
1	HEX	00	HALHXNOF	NO FUNCTION REQUESTED
1	HEX	01	HALHXANS	ANSWER REQUEST CODE
1	HEX	02	HALHXDIL	DIAL REQUEST CODE
1	HEX	03	HALHXCT2	SECONDARY CONTACT REQUEST CODE
1	HEX	04	HALHXCSW	CONTACT FOR SWITCHED LINE REQUEST CODE
1	HEX	05	HALHXFTB	FORMAT A TEST BUFFER REQUEST CODE
1	HEX	06	HALHXCTS	BUILD CONTACT CHANNEL PROGRAM FOR SUBAREA NODES
1	HEX	07	HALHXSAX	BUILD SUBAREA ANSWER XID

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
HALACCTO	212		4	HALFLAG2	251		2
HALADJNM	258		3	HALFNOP	158		4
HALAPTIC	160		4	HALFSM	23B		3
HALAPXTN	168		4	HALIDNM	14D		2
HALAP1	0	01	2	HALIDNUM	14D		3
HALARTIC	180		4	HALIRPAB	138		2
HALARXTN	188		4	HALKLNOP	1C8		4
HALASCB	1F0		3	HALLFSM	23B		4
HALASYNC	210	08	6	HALLNKRN	211	10	5
HALAUTOP	170		4	HALLPDAA	248		3
HALBUFCT	238		3	HALMAXBF	214		4
HALCAREA	1F4		3	HALMINBF	215		4
HALCB	0		2	HALMODPL	251	80	3
HALCD	229	20	4	HALNEXT	24C		3
HALCEARC	228		3	HALNPADV	1D4		5
HALCFSM	23C		4	HALNPOLL	1FF		6
HALCHPGM	150		3	HALNPSAV	1D0		4
HALCMIO	210		4	HALNPTIC	178		4
HALCMIO1	210		5	HALNUSCB	224		3
HALCNSCB	190		4	HALOBRL	0	80	2
HALCONFG	216		4	HALOBRS	0	40	2
HALCPS	244		3	HALOVRFL	229	10	4
HALCUA	226		3	HALPIUPF	21F		3
HALCUSCB	1D8		3	HALPMCM	250	80	4
HALDCALL	210	01	6	HALPMFMSM	250		3
HALDCFLG	0		1	HALPMPC	250	20	4
HALDEVCA	150		2	HALPOLL	1A8		4
HALDIALT	254		2	HALPUIND	23D		3
HALDISCN	229	08	4	HALPUREC	0	20	2
HALDLRTY	211	40	5	HALPUSIO	210	80	6
HALDSBL	0	04	2	HALRDTIC	1B0		4
HALDYNAI	1F4	80	7	HALRDXTN	1B8		4
HALDYNCI	1F4	40	7	HALRECRQ	229	04	4
HALEND	268		3	HALRECTO	213		4
HALFLAG1	229		3	HALRLIM	23A		3

Name	Hex Offset	Hex Value	Level
HALRSV01	1F4	10	7
HALRSV02	1FA	40	7
HALRTYM	23F		3
HALSAD	211	20	5
HALSADAD	229	01	4
HALSCBRR	0	10	2
HALSCBSV	220		3
HALSDLAO	211	08	5
HALSDLUC	246		3
HALSDRL	229	80	4
HALSDRS	229	40	4
HALSDTOD	260		3
HALSECON	210	20	6
HALSETMD	0	08	2
HALSMADR	1FB		6
HALSMAPI	1F5		6
HALSMCCW	150		4
HALSMCPF	1F7		6
HALSMCPI	1F6		6
HALSMDYN	1F4		6
HALSMODE	1F4		5
HALSMODX	1F4		4
HALSMRTO	1FC		5
HALSMR02	1FC	01	6
HALSMR04	1FC	02	6
HALSMR08	1FC	04	6
HALSMR16	1FC	08	6
HALSMR32	1FC	10	6
HALSMR64	1FC	20	6
HALSMSSP	1F8		6
HALSMSTR	1FC	80	6
HALSMTO	1F9		6
HALSM128	1FC	40	6
HALSM6	1FA		6
HALSM6PS	1FA	80	7
HALNSCB	1C0		4
HALSTATS	22A		3
HALSTST	229	02	4
HALSW	210	10	6
HALSYSUA	258		2
HALTCT	22E		5
HALTECT	237		3
HALTEMPS	22E		4
HALTGCBA	240		3
HALTIFRM	22C		4
HALTMACT	210	04	6
HALTMPS	22E		3
HALTMSVI	23E		3
HALTOFRM	22A		4
HALTSNS	22F		5
HALWRTIC	198		4
HALWRXTN	1A0		4
HALX21SH	211	80	5
HALX21SW	210	02	6
HALX21TM	1FD		6
ISTHALCB	0		1

## Host Node Table (HNT)

<b>Function:</b>	HNT provides a mapping for the VTAM host node table.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable
<b>Pointed to by:</b>	ATCHNT (ATCVT)
<b>Included Blocks:</b>	LOK (HNTELOCK).
<b>Additional Notes:</b>	The host node table contains an entry for each host element address. The entry includes data concerning element nodes within a host subarea plus a pointer to an associated control block (RDT, NCB; LUCB, for example).

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	24	ISTHNT	HOST NODE TABLE - ALLOCATED IN BLOCKS OF 2K BYTES, CHAINED BY HNTNXBLK, BASED FROM ATCHNT	
0	(0)	CHARACTER	24	HNTHDR	HNT BLOCK HEADER	
0	(0)	ADDRESS	4	HNTNXBLK	POINTER TO NEXT HNT BLOCK	
4	(4)	SIGNED	4	HNTNXENT	NEXT AVAILABLE ENTRY INDEX	
8	(8)	SIGNED	2	HNTBASEV	ENTRY NUMBER BASE VALUE	
10	(A)	UNSIGNED	2	HNTHIGH	HIGHEST ELEMENT IN BLOCK	
12	(C)	UNSIGNED	2	HNTNUME	NUMBER OF ENTRIES PER BLOCK	
14	(E)	CHARACTER	6	*	NOT USED - AVAILABLE	
20	(14)	SIGNED	4	*	RESERVED	
24	(18)	CHARACTER	*	HNTENTRY	HNT ENTRY AREA (SEE BELOW)	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
24	(18)	STRUCTURE		HNTSLOTS	HNT ENTRY INDEXES	
24	(18)	CHARACTER	40	HNTSLOT (*)	HNT ENTRY SLOT (INDEXED BY HOST ELEMENT ADDRESS MINUS HNTBASE)	

HNT ENTRY						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	40	HNTENT	HNT ENTRY MAPPING (BASED ON HNTE ADDRESS)	
0	(0)	CHARACTER	8	HNTSENT	HNT SUBENTRY - USED FOR COMPARE DOUBLE & SWAPS	
0	(0)	CHARACTER	4	HNTDATA	HNT SUBENTRY WORD 1 - USED FOR SETTING UP THE OLD IMAGE	
0	(0)	UNSIGNED	1	HNTETYP	HNTE ENTRY TYPE	
1	(1)	BITSTRING	1	HNTPTYP	HNTE POINTER TYPE	
2	(2)	CHARACTER	2	HNTFLAGS	HNTE FLAGS	
2	(2)	BITSTRING	1	*	NOT USED - AVAILABLE	
		1... ....		HNTTRAF	SUPPORTS TRAFFIC FLAG	
		.111 ....		HNTLEVEL	010 = POINTER TO FIRST AUXILIARY ADDRESS HNTE 011 = POINTER TO BASE ADDRESS HNTE	
		.... 1111		HNTFSM	HNTE FINITE STATE MACH	
4	(4)	ADDRESS	4	HNTPTR	HNTE POINTER, POINTER TO VARIOUS CONTROL BLOCKS, ACCORDING TO THE CURRENT HNTPTYP VALUE	
8	(8)	CHARACTER	8	*	RESERVED	
8	(8)	ADDRESS	4	*	RESERVED	
12	(C)	UNSIGNED	4	*	AVAILABLE FOR USE	
16	(10)	CHARACTER	8	HNTBASE	POINTER TO ANOTHER HNTE DEPENDING ON CONTENTS OF HNTLEVEL	
16	(10)	ADDRESS	4	HNTBSBLK	BASE NODE HNT ADDRESS	
20	(14)	SIGNED	4	HNTBSIND	BASE NODE HNTE INDEX	
24	(18)	CHARACTER	8	HNTELOCK	HNTE LOCK WORD (MUST BE ON A DOUBLE-WORD BOUNDARY)	
32	(20)	CHARACTER	8	HNTERBLK	HNTE RAB LOCK WORD (MUST BE ON A DOUBLE-WORD BOUNDARY)	

**Constants**

Len	Type	Value	Name	Description
<b>HNTETYP - HNT ENTRY TYPE CODES</b>				
1	DECIMAL	0	HNTFREE	HNTE/ELEMENT ADDRESS IS AVAILABLE FOR ASSIGNMENT
<b>NEITHER BASE NOR SUBORDINATE</b>				
1	DECIMAL	1	HNTPUNS	PUNS ADDRESS (ELEMENT 0)
1	DECIMAL	2	HNTSSCP	SSCP ADDRESS (ELEMENT 1)
1	DECIMAL	3	HNTLINK	DYNAMIC LINK
1	DECIMAL	4	HNTLNKST	DYNAMIC LINK STATION
<b>BASE NODES</b>				
1	DECIMAL	5	HNTAPPL	BASE APPL
1	DECIMAL	6	HNTCALIN	ICA LINE
1	DECIMAL	7	HNTLSDAN	LOCAL-SNA DAN
1	DECIMAL	8	HNTLSPU	LOCAL-SNA PU
1	DECIMAL	9	HNTLNDAN	LOCAL-NON-SNA DAN
<b>SUBORDINATE NODES</b>				
1	DECIMAL	10	HNTFRAUX	FIRST AUXILIARY APPL
1	DECIMAL	11	HNTDYAUX	DYNAMIC AUXILIARY APPL
1	DECIMAL	12	HNTCAPU	ICA PU
1	DECIMAL	13	HNTCALU	ICA LU
1	DECIMAL	14	HNTLSLU	LOCAL-SNA LU
1	DECIMAL	15	HNTLNLU	LOCAL-NON-SNA LU
<b>OTHERS</b>				
1	DECIMAL	16	HNTRCE	RESOURCE CONNECTION ELEMENT
<b>HNTPTYP - HNT POINTER TYPE CODES</b>				
1	HEX	00	HNTAVAIL	HNTPTR IS AN INDEX WHICH POINTS TO NEXT AVAILABLE HNTE IN BLOCK (0 IF BLOCK IS FULL)
1	HEX	01	HNTLUMA	HNTPTR POINTS TO LUCB/MALT
1	HEX	02	HNTNCB	HNTPTR POINTS TO NCB
1	HEX	03	HNTRDTE	HNTPTR POINTS TO RDTE OR CE SRTE
<b>HNTFSM - HNTE FINITE STATE MACHINE</b>				
0	BIT	0000	HNTFSAVL	HNTE IS AVAILABLE FOR ASGNMT
0	BIT	0001	HNTFSASG	HNTE IS ASSIGNED/INACTIVE
0	BIT	0010	HNTFSACT	HNTE IS ACTIVE (ROUTABLE)
<b>HNTLEVEL - HNTE LEVEL VALUES</b>				
0	BIT	000	HNTNULL	THIS NODE CURRENTLY NEITHER POINTS TO A BASE NODE NOR IS REFERENCED BY A SUBORDINATE NODE
0	BIT	001	HNTNBCAP	BASE NODE CAPABLE, BUT NO SUBORDINATE NODE CURRENTLY POINTS TO THIS BASE NODE
0	BIT	010	HNTNBASE	BASE NODE - AT LEAST ONE SUBORDINATE NODE CURRENTLY POINTS TO THIS BASE NODE
0	BIT	011	HNTNSUBR	SUBORDINATE NODE - THIS HNTE'S HNTBASE FIELD CURRENTLY POINTS TO A BASE NODE

**Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>	<b>Level</b>
HNTBASE	10		2
HNTBASEV	8		3
HNTBSBLK	10		3
HNTBSIND	14		3
HNTDATA	0		3
HNTELOCK	18		2
HNTENT	0		1
HNTENTRY	18		2
HNTERBLK	20		2
HNTETYP	0		4
HNTFLAGS	2		4
HNTFSM	3	08	5
HNTHDR	0		2
HNTHIGH	A		3
HNTLEVEL	3	40	5
HNTNUM	C		3
HNTNXBLK	0		3
HNTNXENT	4		3
HNTPTR	4		3
HNTPTYP	1		4
HNTSENT	0		2
HNTSLOT	18		2
HNTSLOTS	18		1
HNTTRAF	3	80	5
ISTHNT	0		1

## Half-Session Queue Header (HSQH)

<b>Function:</b>	HSQH is used as an anchor point for half-sessions using the same virtual route.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	32 (X'20')
<b>Pointed to by:</b>	VRBSESSQ (VRBLK)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTHSQH	HALF SESSION QUEUE HEADER
0	(0)	ADDRESS	4	HSQCHAIN	CHAIN POINTER
4	(4)	ADDRESS	4	HSQHSCB (7)	POINTER TO HALF SESSION MAJOR CONTROL BLOCK (I.E. POINTER TO EITHER A FMCB, ICNCB, OR LDNCB)
		1... ....		HSQHOLDF	HALF SESSION TRAFFIC MAY BE HELD FOR VIRTUAL ROUTE PACING INDICATOR (0 = NOT HELD) (1 = MAY BE HELD)

MAPS INDIVIDUAL ENTRIES STARTING AT HSQHSCB

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	HSQENTRY	HALF SESSION QUEUE ENTRY
0	(0)	ADDRESS	4	HSQEHSCB	POINTER TO HALF SESSION MAJOR CONTROL BLOCK
		1... ....		HSQEHOLD	HALF SESSION TRAFFIC MAY BE HELD FOR VIRTUAL ROUTE PACING INDICATOR (0 = NOT HELD) (1 = MAY BE HELD)

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## Interval Analysis Block Control Block (IACCB)

<b>Function:</b>	IACCB provides a mapping for the interval analysis block.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	16 (X'10')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ISTIACCB	INTERVAL ANALYSIS BLOCK
0	(0)	CHARACTER	8	IABTOD	AREA TO STORE TOD CLOCK
0	(0)	SIGNED	4	IABTLO	TIME OF LAST OCCURRENCE
4	(4)	SIGNED	4	IABATI	AVERAGE TIME INTERVAL
8	(8)	SIGNED	2	IABNOE	NUMBER OF EVENTS
10	(A)	SIGNED	2	IABCNT	THRESHOLD COUNT
12	(C)	SIGNED	4	IABINT	THRESHOLD TIME INTERVAL

## Intelligent Controller Node Control Block (ICNCB)

<b>Function:</b>	An ICNCB represents a channel-attached communication controller or cluster controller to VTAM. It is created when the PU is activated.  The ICNCB describes the characteristics and current status of the controller. It also contains information needed to control I/O initialization and termination. This includes CCWs, and scheduling queues and parameters required to communicate with the I/O supervisor routines that perform the I/O operations.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	RPRNCBA (RPRE) TSPNXNOD (TSPL) VIT entries: ATT (CIO Attention) ERP (CIO Error Recovery) INT (CIO Interruption) SIO (CIO Start I/O) See <i>VTAM Diagnosis</i> for more information on the VIT entries.
<b>Included Blocks:</b>	CCW (ICNWSCCW, ICNWTSTIC, ICNWBCCW, ICNPNCCW, ICNMNOP, ICNRSCCW, ICNRSTIC), NCB (ICNCB).
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for more information about related channel programs.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	512	ISTICNCB	INTELLIGENT CONTROLLER NODE CONTROL BLOCK
0	(0)	CHARACTER	312	ICNCB	COMMON NCB HEADER
312	(138)	CHARACTER	96	ICNDEVCA	DEVICE CONTROL AREA
312	(138)	CHARACTER	8	ICNWSCCW	WRITE START CCW
320	(140)	CHARACTER	8	ICNWTSTIC	WRITE START TIC CCW NOTE: USE ISTTIC TO OVERLAY THIS FIELD TO OBTAIN THE VIRTUAL ADDRESS OF THE WRITE CHANNEL PROGRAM
328	(148)	CHARACTER	8	ICNTICX1	TIC EXTENSION EXTENDS EIGHT BYTES BEYOND NORMAL TIC TO CONTAIN VIRTUAL ADDRESS OF WRITE BUFFER
336	(150)	CHARACTER	8	ICNWBCCW	WRITE BREAK CCW
344	(158)	CHARACTER	8	ICNPNCCW	NOP CCW
352	(160)	CHARACTER	8	ICNSMNOP	STATUS MODIFIER NOP
360	(168)	CHARACTER	8	ICNRSCCW	READ START CCW
368	(170)	CHARACTER	8	ICNRSTIC	READ START TIC CCW NOTE: USE ISTTIC TO OVERLAY THIS FIELD TO OBTAIN THE VIRTUAL ADDRESS OF THE READ CHANNEL PROGRAM
376	(178)	CHARACTER	8	ICNTICX2	TIC EXTENSION EXTENDS EIGHT BYTES BEYOND NORMAL TIC TO CONTAIN VIRTUAL ADDRESS OF READ BUFFER
384	(180)	CHARACTER	8	*	RESERVED
392	(188)	CHARACTER	8	*	RESERVED
400	(190)	CHARACTER	8	*	RESERVED
408	(198)	CHARACTER	72	*	RESERVED
480	(1E0)	CHARACTER	8	*	RESERVED
488	(1E8)	CHARACTER	8	*	RESERVED
496	(1F0)	SIGNED	4	*	RESERVED
500	(1F4)	UNSIGNED	2	*	RESERVED
502	(1F6)	SIGNED	2	*	RESERVED
504	(1F8)	UNSIGNED	2	ICNPUNEA	PU ELEMENT ADDRESS
506	(1FA)	CHARACTER	1	ICNLNKMD	LINK MODE
507	(1FB)	CHARACTER	1	*	RESERVED
508	(1FC)	CHARACTER	1	*	DEVICE CONTROL FLAGS
		1... ....		ICNLCLUS	ICNCB FOR LOCAL CLUSTER
		.1. ....		*	RESERVED
		..1. ....		ICNREAD	ALLOCATE READ BUFFERS WITHOUT CHECKING VIRTUAL ROUTE FLOW CONTROL STATE
		...1 ....		*	RESERVED



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1...		*	RESERVED
		.... .1..		*	RESERVED
		.... .01.		*	RESERVED
		.... ...1		*	RESERVED
509	(1FD)	CHARACTER	1	*	
		1... ....		*	RESERVED
		.1.. ....		*	RESERVED
		.01. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1...		*	RESERVED
		.... .1..		*	RESERVED
		.... .01.		*	RESERVED
		.... ...1		*	RESERVED
510	(1FE)	BITSTRING	1	*	
		1... ....		*	RESERVED
		.1.. ....		*	RESERVED
		.011 1111		*	NOT USED - AVAILABLE
511	(1FF)	BITSTRING	1	*	
		1111 ....		*	NOT USED - AVAILABLE
		.... 1111		*	RESERVED
512	(200)	CHARACTER		ICNEND	END OF ICNCB

OVERLAY FOR SENSE DATA AREA

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2	ICNSENSE	SENSE DATA AREA
0	(0)	BITSTRING	1	*	SENSE BYTE 1
		1... ....		ICNCMDRJ	COMMAND REJECT
		.1.. ....		ICNINTRQ	INTERVENTION REQUIRED
		.01. ....		ICNBOCHK	BUS OUT CHECK
		...1 ....		ICNEQCHK	EQUIPMENT CHECK
		.... 1...		ICNDTCHK	DATA CHECK
		.... 1...		ICNSN01	DATA CHECK
		.... .1..		ICNOVRUN	OVERRUN
		.... .01.		ICNSN02	OVERRUN
		.... .1..		ICNIPLRQ	IPL REQUIRED
		.... ...1		ICNABORT	ABORT
1	(1)	BITSTRING	1	*	SENSE BYTE 2
		1... ....		ICNDLCHK	DATA LENGTH CHECK
		.1.. ....		ICNDTREJ	DATA REJECT
		.011 1111		*	RESERVED

TUNING STATISTICS ICNCB OVERLAY

0	(0)	STRUCTURE	544	ISTICNCT	
0	(0)	CHARACTER	512	*	
512	(200)	CHARACTER	32	ICNSTATS	TUNING DATA

THE FOLLOWING FIELDS MUST REMAIN IN THE SPECIFIED ORDER  
AS THEY MAP WITH FIELDS IN ISTTUNB

512	(200)	SIGNED	4	ICNCHWR	COUNT OF WRITE CHANNEL PROGRAMS
516	(204)	SIGNED	4	ICNCHRD	COUNT OF READ CHANNEL PROGRAMS
520	(208)	SIGNED	4	ICNATTN	TOTAL NUMBER OF ATTENTION STATUS INDICATIONS RECEIVED
524	(20C)	SIGNED	4	ICNRDATN	ATTENTIONS RECEIVED ON A READ CHANNEL PROGRAM
528	(210)	SIGNED	4	ICNIPIU	COUNT OF PIUS INBOUND
532	(214)	SIGNED	4	ICNOPIU	COUNT OF PIUS OUTBOUND
536	(218)	SIGNED	4	ICNRDBUF	TOTAL OF READ BUFFERS USED
540	(21C)	SIGNED	4	ICNSLODN	NUMBER OF TIMES NCP ENTERED SLOWDOWN

## Constants

Len	Type	Value	Name	Description
CONSTANTS AREA (DEFINITIONS)				
1	HEX	31	ICNWINIT	WRITE START 1 OP CODE
1	HEX	32	ICNRINIT	READ START 1 OP CODE
1	HEX	60	ICNCFLIP	FOR FLIPPING READ/WRITE START CCW CODES
1	HEX	01	ICNANSMD	ANSWER MODE
1	HEX	02	ICNCTLMD	CONTROL MODE
1	HEX	03	ICNCONMD	CONNECTED MODE

## Cross Reference

Name	Hex Offset	Hex Value	Level
ICNABORT	0	01	3
ICNATTN	208		3
ICNBOCHK	0	20	3
ICNCB	0		2
ICNCHRD	204		3
ICNCHWR	200		3
ICNCMDRJ	0	80	3
ICNDEVCA	138		2
ICNDLCHK	1	80	3
ICNDTCHK	0	08	3
ICNDTREJ	1	40	3
ICNEND	200		2
ICNEQCHK	0	10	3
ICNINTRQ	0	40	3
ICNIPIU	210		3
ICNIPLRQ	0	02	3
ICNLCLUS	1FC	80	3
ICNLNKMD	1FA		2
ICNPPCCW	158		3
ICNOPIU	214		3
ICNOVRUN	0	04	3
ICNPUNEA	1F8		2
ICNRDATN	20C		3
ICNRDBUF	218		3
ICNREAD	1FC	20	3
ICNRSCCW	168		3
ICNRSTIC	170		3
ICNSENSE	0		1
ICNSLODN	21C		3
ICNSMNOP	160		3
ICNSN01	0	08	4
ICNSN02	0	04	4
ICNSTATS	200		2
ICNTICX1	148		3
ICNTICX2	178		3
ICNWCCW	150		3
ICNWSCCW	138		3
ICNWSTIC	140		3
ISTICNCB	0		1
ISTICNCT	0		1

## Intermediate Network Node Control Block (INNCB)

<b>Function:</b>	The INNCB contains two structures.  The first structure (ISTINNCB) is used as a control point for the intermediate routing function. It contains information about storage used for traffic to an adjacent node in slowdown mode and indicates which traces are active for the INN node.  The second structure (ISTINNX) represents the adjacent node that is in slowdown mode. It points to the NCB for this node and to a queue of PIUs waiting to be sent.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	80 (X'50')
<b>Pointed to by:</b>	ATCINNCB (ATCVT) INNINNX (INNCB) - pointer to queue of extensions, each of which is mapped by ISTINNX.
<b>Located in:</b>	ISTINNCB is obtained from fixed common storage. ISTINNX is obtained from VTAM private storage.
<b>Included Blocks:</b>	DYPAB (INNPCDYP), PAB (INNPCPAB, INNUTPAB)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	80	ISTINNCB	INN CONTROL BLOCK	
0	(0)	CHARACTER	16	INNPCDYP	HEADER FOR INNPCPAB	
0	(0)	CHARACTER	12	*	DYPAB HEADER	
12	(C)	ADDRESS	4	INNWORKQ	WORK QUEUE	
16	(10)	CHARACTER	20	INNPCPAB	INN PATH CONTROL ROUTING PAB	
36	(24)	ADDRESS	4	INNINNX	QUEUE OF INN EXTENSIONS WHICH REPRESENT ADJACENT NODES IN SLOWDOWN	
40	(28)	CHARACTER	20	INNUTPAB	INN UTILITY PAB	
60	(3C)	ADDRESS	4	INNUTQUE	QUEUE OF TSCB(S) AND RPH(S) WAITING FOR PROCESSING BY THE INN UTILITY PROCESSOR	
64	(40)	SIGNED	4	INNBLMT	USER SUPPLIED LIMIT, IN BYTES, OF THE AMOUNT OF STORAGE THAT MAY BE USED FOR INN SLOWDOWN TRAFFIC	
68	(44)	SIGNED	4	INNBCUR	NUMBER OF BYTES OF STORAGE CURRENTLY IN USE FOR INN SLOWDOWN PROCESSING	
72	(48)	SIGNED	4	INNBMAX	MAXIMUM NUMBER OF BYTES EVER USED FOR INN SLOWDOWN PROCESSING	
76	(4C)	CHARACTER	1	INNFLAGS	INN FLAGS	
		1... ..		INNOUTSD	IF ON INDICATES ONE OR MORE ADJACENT NODES CAME OUT OF SLOWDOWN	
		.1.. ..		INNIOTRC	INDICATES I/O TRACE IS ACTIVE	
		..1. ....		*	NOT USED - AVAILABLE	
		...1 ....		INNMESAG	INDICATES MESSAGE WAS SENT FOR THIS STORAGE SHORTAGE	
		.... 1111		*	NOT USED - AVAILABLE	
77	(4D)	CHARACTER	3	*	NOT USED - AVAILABLE	
80	(50)	CHARACTER		INNEND	END OF INN CONTROL BLOCK	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	16	ISTINNX	INN CONTROL BLOCK EXTENSION	
0	(0)	ADDRESS	4	INNINNX	CHAIN POINTER TO NEXT INNX	
4	(4)	ADDRESS	4	INNXCBC	POINTER TO THE NCB IN SLOWDOWN	
8	(8)	ADDRESS	4	INNXTSCB	POINTER TO THE QUEUE OF INN PIUS WAITING FOR TRANSMISSION	
12	(C)	SIGNED	4	*	NOT USED - AVAILABLE	
16	(10)	CHARACTER		INNXCBC	END OF INNX CONTROL BLOCK	

## Cross Reference

Name	Hex Offset	Hex Value	Level
INNBCUR	44		2
INNBLMT	40		2
INNBMAX	48		2
INNEND	50		2
INNFLAGS	4C		2
INNINNX	24		2
INNIOTRC	4C	40	3
INNMESAG	4C	10	3
INNOUTSD	4C	80	3
INNPCDYP	0		2
INNPCPAB	10		2
INNUTPAB	28		2
INNUTQUE	3C		2
INNWORKQ	C		3
INNEND	10		2
INNINNX	0		2
INNxcb	4		2
INNXTSCB	8		2
ISTINNCB	0		1
ISTINNX	0		1

## Interpret Table Entry (INT1)

<b>Function:</b>	INT1 maps one entry in the interpret table, which is used to create aliases. For example, session services uses the interpret table to translate an input application ID into an application name. This allows two levels of the same application program to be tested online.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	Variable.
<b>Additional Notes:</b>	USS may use the interpret table to translate an input character string (such as a LOGON sequence) into an application program name. An application program may use the interpret table to translate one character string into another, by using the INTRPRET macroinstruction.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	4	ISTINT0	OPTIONAL HEADER DATA	
0	(0)	CHARACTER	1	INTCBID	CONTROL BLOCK ID	
1	(1)	CHARACTER	3	*	NOT USED - AVAILABLE	
4	(4)	CHARACTER	*	INTITBL	BEGINNING INTERPRET TABLE	

INTERPRET TABLE ENTRY DSECT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	10	ISTINT1	BEGINNING OF INTERPRET TABLE ENTRY	
0	(0)	CHARACTER	10	INTENT	FIXED PORTION OF ENTRY	
0	(0)	BITSTRING	1	INTFLAGS	FLAG BYTE	
		1... ....		INTLAST	TABLE STOPPER FLAG BYTE	
		.1.. ....		INTAPRTN	0 = APPLICATION, 1 = ROUTINE	
		..1. ....		INTTRANS	TRANSLATED SEQUENCE EXISTS	
		...1 ....		INTUSERV	INTNAME CONTENTS IS A VARIABLE	
		.... 1111		INTRSV01	RESERVED	
1	(1)	CHARACTER	8	INTNAME	APPLICATION NAME IF INTAPRTN = 0	
1	(1)	ADDRESS	4	INTRTNA	ROUTINE ADDRESS IF INTAPRTN = 1	
9	(9)	ADDRESS	1	INTSEQL	LENGTH OF LOGON SEQUENCE	
10	(A)	CHARACTER	*	INTSEQ	LOGON SEQUENCE	

### Constants

Len	Type	Value	Name	Description
1	HEX	BE	INTTY	CONSTANT FOR CONTROL BLOCK ID

### Cross Reference

Name	Hex Offset	Hex Value	Level
INTAPRTN	0	40	4
INTCBID	0		2
INTENT	0		2
INTFLAGS	0		3
INTITBL	4		2
INTLAST	0	80	4
INTNAME	1		3
INTRSV01	0	08	4
INTRTNA	1		4
INTSEQ	A		2
INTSEQL	9		3
INTTRANS	0	20	4
INTUSERV	0	10	4
ISTINT0	0		1
ISTINT1	0		1

## Initiate Other CD Session Information Control Block (IOSIB)

<b>Function:</b>	IOSIB maps the initiate other cross-domain session information control block.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	240 (X'F0')
<b>Pointed to by:</b>	ATCIOSBQ (ATCVT)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	240	ISTIOSIB	Init Other CD SIB
0	(0)	UNSIGNED	1	IOSCBID	IOSIB control block ID
1	(1)	CHARACTER	3	IOSEYE	IOSIB eye catcher
4	(4)	ADDRESS	4	IOSNEXT	Pointer to next IOSIB on ATCVT IOSIB queue
8	(8)	ADDRESS	4	IOSPREV	Pointer to previous IOSIB on ATCVT IOSIB queue
12	(C)	UNSIGNED	1	IOSFSM	Process status FSM
13	(D)	CHARACTER	3	*	Not used - available
16	(10)	CHARACTER	8	IOSIADJN	Adjacent SSCP in ILU direction
24	(18)	CHARACTER	8	IOSSADJN	Adjacent SSCP in SLU direction
32	(20)	CHARACTER	8	IOSLOGNM	Logmode name known in this domain
40	(28)	CHARACTER	8	IOSTLOGN	Logmode name known in the target domain
48	(30)	CHARACTER	8	IOSRPCID	PCID received for request
56	(38)	CHARACTER	8	IOSPCID	PCID for this request
64	(40)	ADDRESS	4	IOSFQPC	Pointer to name portion of fully qualified PCID
68	(44)	ADDRESS	4	IOSUDATP	Pointer to user data
72	(48)	ADDRESS	4	IOSURCP	Pointer to user request correlator
76	(4C)	ADDRESS	4	IOSIREQ	Pointer to received request RUDB
80	(50)	UNSIGNED	1	IOSVCNT	Visit count
81	(51)	BITSTRING	2	IOSMFLAG	Miscellaneous flags
		11.. ....		IOSREQTP	Request type IOSINO (01) - Initiate only IOSQO (10) - Queue only IOSIOQ (11) - Init or queue
		..1. ....		IOSBCKUP	(1) Backup XRF session requested
		...1 ....		IOSNILU	(1) Send NOTIFY 3 to ILU
		.... 1..		IOSSYNCH	(1) Synchronous Init Other
		.... .1..		IOSILUCD	(1) ILU is cross domain
		.... ..11		*	RESERVED
		1... ....		*	RESERVED
		.111 1111		*	Not used - available
83	(53)	CHARACTER	8	*	RESERVED
91	(5B)	CHARACTER	8	*	RESERVED
99	(63)	CHARACTER	8	*	RESERVED
107	(6B)	CHARACTER	5	*	Not used - available NOTE: needed to keep on doubleword boundary
112	(70)	CHARACTER	64	IOSPLU	PLU resource extension
176	(B0)	CHARACTER	64	IOSSLU	SLU resource extension

Overlays for Selected Fields  
 IOSIB LU Resource Extension (IOSPLU and IOSSLU)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	ISTIOSLU	IOSIB LU resource extension mapping
0	(0)	CHARACTER	8	IOSLCPNM	LU owning SSCP name
8	(8)	CHARACTER	8	IOSLURNM	LU real name
16	(10)	CHARACTER	8	IOSLURNT	LU real netid
24	(18)	CHARACTER	8	IOSLUANM	LU alias name
32	(20)	CHARACTER	8	IOSLUANT	LU alias netid
40	(28)	CHARACTER	8	IOSLUINM	LU alias name known in ILU
48	(30)	CHARACTER	8	IOSLUINT	LU netid known in ILU
56	(38)	BITSTRING	1	IOSLMFLG	LU miscellaneous flags
		1... ....		IOSLSRR	(1) LU may send RELREQ
		.1.. ....		IOSLRDET	(1) LU real name determined

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		..1. ....		IOSLADET	(1) LU alias name determined in OLU network (0) LU alias name determined in ILU network
		...1 ....		*	RESERVED
		.... 1111		*	Not used - available
57	(39)	BITSTRING	1	IOSLQUE	LU queuing conditions
		1... ....		IOSLSCT	(1) Queue if session limit exceeded
		.1.. ....		IOSLDIS	(1) Queue if LU disabled
		..11 1...		*	Reserved
		.... .11.		IOSLPOS	How to queue request IOSLFIFO (01) - Queue FIFO
		.... ...1		*	IOSLLIFO (10) - Queue LIFO
		1111 ....		IOSRESP	Reserved
58	(3A)	BITSTRING	1	IOSRSTA	INIT OTHER CD Response Fields
		.... 11..		IOSRSTA	Status of SSCP(LU) IOSRPRO (0001) - Initiate successful, proceed IOSRQUE (0010) - Initiate successful, queued
		.... ..11		*	LU session status IOSREXC (00) - LU session limit exceeded IOSRDIS (10) - LU disabled IOSRAVL (11) - LU available
59	(3B)	CHARACTER	5	*	Not used - available
				*	Not used - available

User Data

0	(0)	STRUCTURE	1	IOSUDAT	User data mapping
0	(0)	UNSIGNED	1	IOSUDLEN	User data length
1	(1)	CHARACTER	*	IOSUDATA	User data

Fully Qualified PCID

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	1	IOSFQPCM	Fully qualified PCID mapping
0	(0)	UNSIGNED	1	IOSFQPCL	PCID length
1	(1)	CHARACTER	*	IOSFQPCN	PCID name

Constants

Len	Type	Value	Name	Description
Constant for control block ID (IOSCBID)				
1	HEX	6C	IOSCBTYP	Init Other CD SIB
Constant for control block eye catcher (IOSEYE)				
3	CHARACTER	IOS	IOSCBEYE	Init Other CD SIB
Constants for process status FSM (IOSFSM)				
1	HEX	00	IOSFSMIN	Initial value
1	HEX	10	IOSFSMIB	IOSIB built
1	HEX	20	IOSFSMT1	Pending translation type 1
1	HEX	30	IOSFSMT2	Pending translation type 2
1	HEX	40	IOSFSMRT	Retry IOCD request
1	HEX	50	IOSFSMIR	Pending IOCD response
Constants for request type (IOSREQTP)				
0	BIT	01	IOSINO	Initiate only
0	BIT	10	IOSQO	Queue only
0	BIT	11	IOSIOQ	Init or queue
Constants for RELREQ Required (IOSPSRR,IOSSRR)				
0	BIT	0	IOSNRR	No RELREQ sent
0	BIT	1	IOSRRR	RELREQ required
Constants for how to queue request (IOSLPOS)				
0	BIT	01	IOSLFIFO	Queue FIFO
0	BIT	10	IOSLLIFO	Queue LIFO
Constants for SSCP Status (IOSRSTA)				

Len	Type	Value	Name	Description
0	BIT	0001	IOSRPRO	Initiate successful, proceed
0	BIT	0010	IOSRQUE	Initiate successful, queued
<hr/>				
Constants for LU Status (IOSRLSES)				
0	BIT	00	IOSREXC	LU session limit exceeded
0	BIT	10	IOSRDIS	LU disabled
0	BIT	11	IOSRAVL	LU available

### Cross Reference

Name	Hex Offset	Hex Value	Level
IOSBCKUP	51	20	3
IOSCBID	0		2
IOSEYE	1		2
IOSFQPC	40		2
IOSFQPCL	0		2
IOSFQPCM	0		1
IOSFQPCN	1		2
IOSFSM	C		2
IOSIADJN	10		2
IOSILUCD	51	04	3
IOSIREQ	4C		2
IOSLADET	38	20	3
IOSLCPNM	0		2
IOSLDIS	39	40	3
IOSLMFLG	38		2
IOSLOGNM	20		2
IOSLPOS	39	04	3
IOSLQUE	39		2
IOSLRDET	38	40	3
IOSLSCT	39	80	3
IOSLSRR	38	80	3
IOSLUANM	18		2
IOSLUANT	20		2
IOSLUINM	28		2
IOSLUINT	30		2
IOSLURNM	8		2
IOSLURNT	10		2
IOSMFLAG	51		2
IOSNEXT	4		2
IOSNILU	51	10	3
IOSPCID	38		2
IOSPLU	70		2
IOSPREV	8		2
IOSREQTP	51	80	3
IOSRESP	3A		2
IOSRLSES	3A	08	3
IOSRPCID	30		2
IOSRSTA	3A	80	3
IOSSADJN	18		2
IOSSLU	B0		2
IOSSYNCH	51	08	3
IOSTLOGN	28		2
IOSUDAT	0		1
IOSUDATA	1		2
IOSUDATP	44		2
IOSUDLEN	0		2
IOSURCP	48		2
IOSVCNT	50		2
ISTIOSIB	0		1
ISTIOSLU	0		1



## Internal Trace Record (ITTRC)

<b>Function:</b>	ITTRC maps the important VTAM internal events produced by the internal trace module. It also maps the header for the internal trace table.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	32 (X'20')
<b>Pointed to by:</b>	ATCITTBL (ATCVT)
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for additional information on the contents of the trace header and trace entries.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITHDR	TRACE TABLE HEADER
0	(0)	CHARACTER	8	ITHCTIME	CURRENT ENTRY TIME STAMP
8	(8)	CHARACTER	8	ITHPRTWP	PRESENT WRAP TIME STAMP
16	(10)	CHARACTER	8	ITHLSTWP	LAST WRAP TIME STAMP
24	(18)	ADDRESS	4	ITHCURR	CURRENT ENTRY ADDRESS
28	(1C)	ADDRESS	4	ITHLAST	LAST ENTRY ADDRESS

THE FOLLOWING MAPPINGS ARE ALL BASED

-----  
 TYPE - TPIO            RECORD - IO  
          AUTHIO                    AI  
 -----

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITIO	TPIO RECORD I
0	(0)	CHARACTER	3	ITIOIDF	ID FIELD
3	(3)	CHARACTER	1	ITIOREQ	RPLREQ - RPL REQUEST TYPE
4	(4)	ADDRESS	1	ITIOASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	ADDRESS	1	ITIOTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITIMID	MACHINE ID (VM/VTAM ONLY)
5	(5)	CHARACTER	1	ITIOEXTD	RPLEXTDS - EXIT DEFINITIONS
6	(6)	CHARACTER	1	*	NOT USED - AVAILABLE
7	(7)	CHARACTER	1	ITIOOPT1	RPLOPT1 - 1ST BYE OF OPTION CODE
8	(8)	ADDRESS	4	ITIORPLA	RPL ADDRESS
12	(C)	CHARACTER	4	ITIOARG	NIB ADDRESS OR CID
16	(10)	CHARACTER	1	ITIORH3	RPLHR3 - 3RD BYTE OF RH
17	(11)	CHARACTER	1	ITIOSRTY	RPLSRTYP - SEND/RECEIVE TYPE
18	(12)	CHARACTER	1	ITIOFL1	RPLVTFL1 - VTAM FLAGS
19	(13)	CHARACTER	1	ITIOFL2	RPLVTFL2 - POST/RESPOND FLAGS
20	(14)	CHARACTER	1	ITIOCHN	RPLCHN - POSITION OF RU CHAIN
21	(15)	CHARACTER	3	ITIOCNTL	RPLCNTRL - RU CONTROL CHAIN
24	(18)	CHARACTER	4	ITIOPTC2	VTAM OPTIONS FLAG RPLOPTC2
28	(1C)	CHARACTER	4	ITIOPTC3	VTAM OPTIONS FLAG RPLOPTC3
0	(0)	STRUCTURE	32	ISTITIO2	TPIO RECORD II
0	(0)	CHARACTER	3	ITIOID2	ID FIELD FOR RECORD II
3	(3)	CHARACTER	1	*	RESERVED
4	(4)	ADDRESS	4	ITIORTRN	RETURN ADDRESS
8	(8)	CHARACTER	8	ITIONBLM	LOGON MODE
16	(10)	CHARACTER	8	ITIOPLUN	PLU NAME
24	(18)	CHARACTER	8	ITIOSLUN	SLU NAME

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITIO3	TPIO RECORD III
0	(0)	CHARACTER	3	ITIOID3	ID FIELD FOR RECORD III

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
3	(3)	CHARACTER	1	*	RESERVED
4	(4)	ADDRESS	4	ITIORPL	DATA AREA POINTER
4	(4)	ADDRESS	4	ITIOBND	POINT TO BIND SESSION PARAMETERS

---

-----  
 TYPE - RPLEXIT                      RECORD - RE  
 USERPOST                              UP  
 USEREXIT                              UE(DFASY & RESP)  
 -----

0	(0)	STRUCTURE	32	ISTITAPI	RPLEXIT/USERPOST/USEREXIT RECORD
0	(0)	CHARACTER	2	ITAIDFD	ID FIELD
2	(2)	CHARACTER	1	ITAREQ	RPL REQUEST TYPE FOR UP OR RE
2	(2)	CHARACTER	1	ITACODE	EXIT CODE IF DFASY & RESP
3	(3)	CHARACTER	1	ITAEXTD	RPLEXTDS - EXIT DEFINITIONS
4	(4)	ADDRESS	1	ITAASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	ADDRESS	1	ITATIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITAMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITARTNCD	RPLRTNCD - RPL RETURN CODE
6	(6)	CHARACTER	1	ITAFDB2	2ND BYTE OF RPLFDBK
7	(7)	CHARACTER	1	ITAFDB3	3RD BYTE OF RPLFDBK-EXTERNAL
8	(8)	ADDRESS	4	ITARPLA	RPL ADDRESS
12	(C)	ADDRESS	4	ITACBX	ECB OR EXIT ADDRESS
16	(10)	ADDRESS	4	ITAAREA	RPLAREA - DATA AREA POINTER
20	(14)	SIGNED	4	ITARLEN	RPLRLEN - LENGTH OF RECORD
24	(18)	ADDRESS	4	ITACID	CID FROM RPL OR NIB
28	(1C)	SIGNED	4	ITAFDBK2	RPLFDBK2 - 2ND RPL FEEDBACK AREA

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-----  
 TYPE - USEREXIT                      RECORD - UE (EXCEPT FOR  
    DFASY OR RESP)  
 -----

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITUXT	USEREXIT RECORD
0	(0)	CHARACTER	3	ITUIDFD	ID FIELD
3	(3)	CHARACTER	1	*	RESERVED
4	(4)	UNSIGNED	1	ITUASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	ADDRESS	1	ITUTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITUMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITUCODE	EXIT CODE FOR USER EXIT
6	(6)	CHARACTER	2	*	NOT USED - AVAILABLE
8	(8)	CHARACTER	8	ITUNSRU	BYTES 0-7 OR NSRU NSEXIT
8	(8)	SIGNED	4	ITUREASN	REASON CODE TPEND/LOSTERM
8	(8)	SIGNED	4	ITULOGDL	LOGON DATA LENGTH LOGON
8	(8)	BITSTRING	2	ITUSCTYP	RPL CONTROL FLAGS SCIP
10	(A)	CHARACTER	2	ITUSCFD	BIND DATA OR STSN FIELDS SCIP
12	(C)	CHARACTER	4	ITUCID	CID LOGON/LOSTERM
16	(10)	CHARACTER	8	ITUPRMR	PRIMARY LU NAME - APPLID FOR TPEND
24	(18)	CHARACTER	8	ITUSECND	SECONDARY LU NAME
0	(0)	STRUCTURE	32	ISTITUX2	USEREXIT RECORD II
0	(0)	CHARACTER	4	ITUID2	ID FIELD
4	(4)	ADDRESS	4	ITUEXIT	ADDRESS OF EXIT ROUTINE
8	(8)	CHARACTER	24	*	NOT USED - AVAILABLE

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-----  
 TYPE - REQSTORE                      RECORD - REQS  
    RELS  
    QREQS  
    AREL  
 -----

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITSTR	REQSTORE/RELSTORE ABEND RELSTORE RECORD
0	(0)	CHARACTER	4	ITSTIDFD	ID FIELD
4	(4)	UNSIGNED	1	ITSTASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITSTTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITSTMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITSTCBID	CONTROL BLOCK ID OF CPCB
6	(6)	CHARACTER	2	*	NOT USED - AVAILABLE (MVS VM)
6	(6)	CHARACTER	2	ITSTPLID	POOL ID FOR RELS, REQS (VSE)
8	(8)	ADDRESS	4	ITSTPSTA	PST ADDRESS
12	(C)	ADDRESS	4	ITSTBUFA	ADDRESS OF BUFFER REQSTORE/ RELSTORED
16	(10)	ADDRESS	4	ITSTISSR	RETURN POINT TO ISSUER OF MACRO
20	(14)	ADDRESS	4	ITSTNXT	FOR RELSTORE - POINTER TO NEXT BUFFER TO BE RELEASED
20	(14)	SIGNED	2	ITSTBUFN	NUMBER OF BUFFERS REQSTORED
22	(16)	CHARACTER	2	*	NOT USED - AVAILABLE
24	(18)	ADDRESS	4	ITSTREG1	REG1 PASSED TO REQSTORE/RELSTORE. NOTE - THIS MAY BE RPH ADDRESS IF ONE WAS FURNISHED TO RELSTORE/ REQSTORE. FOR ABEND RELSTORE IT IS ALWAYS 0.
28	(1C)	ADDRESS	4	ITSTRPHA	RPH ADDRESS IF QREQ
28	(1C)	SIGNED	4	ITSTRETC	RETURN CODE FOR REQS, RELS
28	(1C)	ADDRESS	4	ITSCALLR	RETURN ADDRESS OF ISTTSCUD'S CALLER

-----  
 TYPE - VTALLOCFREE RECORD - VTALVTR  
 -----

0	(0)	STRUCTURE	32	ISTITVTA	VTALLOCFREE RECORD
0	(0)	CHARACTER	4	ITVIDFD	ID FIELD
4	(4)	UNSIGNED	1	ITVASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITVTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITVMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	3	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITVAREA	POINTER TO AREA GOTTEN OR FREED
12	(C)	SIGNED	4	ITVSPNO	SUBPOOL OF AREA GOTTEN OR FREED
16	(10)	ADDRESS	4	ITVISSR	RETURN POINT TO ISSUER OF MACRO
20	(14)	SIGNED	4	ITVLGTH	LENGTH OF AREA GOTTEN OR FREED
24	(18)	ADDRESS	4	ITVINIT	CALLER OF UTILITY ROUTINE
28	(1C)	SIGNED	4	ITVRC	RETURN CODE FOR VTALLOCFREE REQUEST

-----  
 TYPE - GETBLKFREEBLK RECORD - GBLKFBLK  
 -----

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITRLK	GETBLK/FREEBLK RECORD
0	(0)	CHARACTER	4	ITRIDFD	ID FIELD
4	(4)	ADDRESS	1	ITRASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	ADDRESS	1	ITRTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITRMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	*	NOT USED - AVAILABLE
6	(6)	CHARACTER	1	ITRID	BUFFER POOL INDEX
7	(7)	CHARACTER	1	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITRAREA	POINT TO AREA GOTTEN OR FREED
12	(C)	ADDRESS	4	ITRANCHR	ADDRESS OF POOL ANCHOR
16	(10)	ADDRESS	4	ITRISSR	RETURN POINT TO ISSUER OF MACRO
20	(14)	SIGNED	4	ITRLNG	LENGTH OF STORAGE
24	(18)	ADDRESS	4	ITRINIT	CALLER OF UTILITY ROUTINE
28	(1C)	SIGNED	4	ITRRC	RETURN CODE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
-----					
		TYPE - LOCKSHR		RECORD - LKSH	
		LOCKXCL		LKEX	
		UNLK		UNLK	
		UNLKALL		ULKA	
-----					
0	(0)	STRUCTURE	32	ISTITLOC	TPLOCK/TPUNLOCK RECORD
0	(0)	CHARACTER	4	ITLIDFD	ID FIELD
4	(4)	UNSIGNED	1	ITLASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITLTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITLMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	*	RESERVED
6	(6)	UNSIGNED	2	ITLLKLEV	LEVEL OF LOCK OBTAINED/RELEASED
8	(8)	ADDRESS	4	ITLPSTA	ADDRESS OF PST FOR ULKA
8	(8)	ADDRESS	4	ITLLOCKA	ADDRESS OF LOCK TO BE OBTAINED/RELEASED FOR LKEX, LKSH, UNLK
12	(C)	ADDRESS	4	ITLLKACT	CRA LOCK ACCOUNT WORD
16	(10)	ADDRESS	4	ITLISSR	RETURN ADDRESS TO ISSUER OF MACRO
20	(14)	CHARACTER	8	ITLLKWRD	LOCKWORD FOR ABOVE LEVEL OF LOCK
28	(1C)	ADDRESS	4	ITLRPHA	RPH ADDRESS
-----					
		TYPE - TPQUE		RECORD - QUE	
		TPSCHED		SCHD	
-----					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITQUE	TPQUE/TPSCHED RECORD
0	(0)	CHARACTER	4	ITQIDFD	ID FIELD
0	(0)	CHARACTER	3	ITQQU	QUE
3	(3)	CHARACTER	1	ITQCBID	CBID FOR QUE
4	(4)	UNSIGNED	1	ITQASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITQTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITQMID	MACHINE ID (VM/ONLY)
5	(5)	CHARACTER	3	ITQFLGS	WORK ELEMENT QUEUE
5	(5)	BITSTRING	1	ITQFLAG	WORK ELEMENT QUEUE FLAG FIELD FOR TPQUE
6	(6)	BITSTRING	1	ITQAPNOP	BYTE MAPPED BY ISTAPNOP
7	(7)	BITSTRING	1	ITQFLG2	
		1... ....		ITQWGATE	WORK ELEMENT QUE GATE
		.111 ....		*	AVAILABLE
		.... 1..		ITQSGATE	PAB HAS BEEN SCHEDULED PREVIOUSLY
		.... .111		*	AVAILABLE
8	(8)	ADDRESS	4	ITQPSTA	PST ADDRESS
12	(C)	ADDRESS	4	ITQPABA	PAB ADDRESS
16	(10)	CHARACTER	16	ITQPAB	PAB
16	(10)	ADDRESS	4	ITQISSR	RETURN ADDRESS OF MODULE WHO ISSUED TPSCHED
20	(14)	ADDRESS	4	ITQWEA	WORK ELEMENT ADDRESS
20	(14)	ADDRESS	4	ITQWEQ	WORK ELEMENT QUE
24	(18)	ADDRESS	4	ITQDVTA	DVT ADDRESS
24	(18)	CHARACTER	4	ITQNAME	MODULE NAME BEING QUEUED/SCHEDULED
24	(18)	BITSTRING	1	ITQSYMSK	PLACE TO STORE SYSTEM MASK OF PSW
		1111 11..		*	NOT USED - AVAILABLE
		.... ..11		ITQDSABL	ENABLE
25	(19)	CHARACTER	3	*	
28	(1C)	ADDRESS	4	ITQRPHA	RPH ADDRESS
-----					
		TYPE - TPQUE NONE		RECORD - QUEN	
-----					

0	(0)	STRUCTURE	32	ISTITWQN	TPQUE NONE RECORD
0	(0)	CHARACTER	4	ITWIDFD	ID FIELD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
4	(4)	UNSIGNED	1	ITWASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITWTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	*	RESERVED
5	(5)	CHARACTER	1	ITWCBID	CBID OF WORK ELEMENT
6	(6)	CHARACTER	2	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITWPSTA	PST ADDRESS
12	(C)	ADDRESS	4	ITWQEA	QUEUE ADDRESS
16	(10)	ADDRESS	4	ITWISSR	RETURN POINT TO ISSUER OF MACRO
20	(14)	ADDRESS	4	ITWWEA	WORK ELEMENT ADDRESS
24	(18)	CHARACTER	4	*	NOT USED - AVAILABLE
28	(1C)	ADDRESS	4	ITWRPHA	RPH ADDRESS

-----  
 TYPE - PABDISP      RECORD - DISP  
           TPPOST            POST  
           TPESC             ESC  
                                       RESM  
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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITDSP	PABDISP/TPPOST/RESM ESC RECORD
0	(0)	CHARACTER	4	ITDIDFD	ID FIELD
4	(4)	UNSIGNED	1	ITDASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITDTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITDMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITDCBID	CBID OF WORK ELEMENT FOR DISP/RESM
6	(6)	UNSIGNED	2	ITDPABOF	PAB OFFSET
6	(6)	BITSTRING	1	ITDFLAG	FLAG FIELD (PABFLAG)
7	(7)	BITSTRING	1	ITDLEVEL	LEVEL OF THE WKE QUEUE THAT WAS DISPATCHED IN THE VXPAB
8	(8)	ADDRESS	4	ITDPSTA	PST ADDRESS FOR POST, RESM
8	(8)	ADDRESS	4	ITDDISPA	DISPATCH ADDRESS FOR ESC RECORD
12	(C)	ADDRESS	4	ITDPABA	PAB ADDRESS
16	(10)	CHARACTER	16	ITDPAB	PAB
16	(10)	ADDRESS	4	ITDLAST	FOR PABDISP - LAST QUEUED WORK ELEMENT
16	(10)	ADDRESS	4	ITDWEA	FOR RESM - WORK ELEMENT ADDRESS
16	(10)	ADDRESS	4	ITDISSR	FOR TPOST & ESC - RETURN ADDRESS OF ISSUER OF MACRO
20	(14)	ADDRESS	4	ITDEWEA	FOR TPOST - WORK ELEMENT ADDRESS
20	(14)	ADDRESS	4	ITDEWEQ	FOR RESM - WORK ELEMENT QUEUE
20	(14)	ADDRESS	4	ITDRWEA	FOR ESC - RPH WORK ELEMENT ADDRESS
24	(18)	ADDRESS	4	ITDDVTA	DVT ADDRESS FOR RESM, POST
24	(18)	CHARACTER	4	ITDNAME	DISPATCHED MODULE NAME
28	(1C)	ADDRESS	4	ITDRPHA	RPH ADDRESS

-----  
 TYPE - TPEXIT      RECORD - EXIT  
           TPWAIT            WAIT  
 -----

0	(0)	STRUCTURE	32	ISTITEXT	TPEXIT/TPWAIT RECORD
0	(0)	CHARACTER	4	ITEIDFD	ID FIELD
4	(4)	UNSIGNED	1	ITEASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITETIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITEMID	MACHINE ID (VM ONLY)
5	(5)	BITSTRING	1	ITEAPNOP	BYTE MAPPED BY ISTAPNOP FOR TPEXIT
5	(5)	UNSIGNED	1	*	RESERVED
6	(6)	UNSIGNED	2	ITEPABOF	PAB OFFSET FOR TPEXIT
8	(8)	ADDRESS	4	ITEPSTA	PST ADDRESS
12	(C)	ADDRESS	4	ITEPABA	PAB ADDRESS
16	(10)	CHARACTER	16	ITEPAB	PAB
16	(10)	ADDRESS	4	ITEISSR	RETURN POINT TO ISSUER OF MACRO
20	(14)	ADDRESS	4	ITEWEA	WORK ELEMENT QUEUE
24	(18)	ADDRESS	4	ITEDVTA	DVT ADDRESS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
24	(18)	CHARACTER	4	ITENAME	NAME OF 1ST MODULE ON DVT
28	(1C)	ADDRESS	4	ITERPHA	RPH ADDRESS

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TYPE - IRBDISP	RECORD - IRBD (OS ONLY)
SRBDISP	SRBD

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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITBDP	IRB/SRB DISPATCH RECORD
0	(0)	CHARACTER	4	ITBIDFD	ID FIELD
4	(4)	UNSIGNED	1	ITBASID	ADDRESS SPACE IDENTIFIER
5	(5)	CHARACTER	3	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITBPSTA	PST ADDRESS
12	(C)	CHARACTER	8	ITBQUEAF	PST QUEUES AND FLAGS
12	(C)	ADDRESS	4	ITBQUE	QUEUE GATE AND ADDRESS
16	(10)	CHARACTER	4	ITBFLOQ	PST FLAG FIELD OR QUEUE
20	(14)	ADDRESS	4	ITBIRBA	IRB ADDRESS (IRBD)
20	(14)	ADDRESS	4	ITBANDSP	PST ASYNC NON-DISPATCHABLE QUEUE (SRBD)
24	(18)	ADDRESS	4	ITBTCBA	TCB ADDRESS
28	(1C)	UNSIGNED	2	ITBFLG1	PSTFLG1 - PST FLAGS
30	(1E)	CHARACTER	2	*	RESERVED

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TYPE - IRBEXIT	RECORD - IRBX (OS ONLY)
SRBEXIT	SRBX

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0	(0)	STRUCTURE	32	ISTITXIT	IRBEXIT/SRBEXIT RECORD
0	(0)	CHARACTER	4	ITXIDFD	ID FIELD
4	(4)	UNSIGNED	1	ITXASID	ADDRESS SPACE IDENTIFIER
5	(5)	CHARACTER	3	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITXPSTA	PST ADDRESS
12	(C)	CHARACTER	16	ITXCB	LOW CORE CONTROL BLOCK POINTERS
12	(C)	CHARACTER	8	ITXQUEAF	PSTAQAF FIELDS
12	(C)	ADDRESS	4	ITXTCBN	TCB NEW ADDRESS
12	(C)	ADDRESS	4	ITXQUE	PST ASYNC DISPATCHABLE QUEUE
16	(10)	ADDRESS	4	ITXTCBO	TCB OLD ADDRESS
16	(10)	SIGNED	4	ITXIAF	PST INDEX AND FLAG FIELD
20	(14)	ADDRESS	4	ITXASCBN	ASCB NEW ADDRESS
24	(18)	ADDRESS	4	ITXASCBO	ASCB OLD ADDRESS
28	(1C)	ADDRESS	4	ITXRBA	ADDRESS OF 1ST RB OFF OF TCBOLD

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TYPE - ASYNDISP	RECORD - ADSP (VM, VSE)
ASYNEXIT	AXIT

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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITXOD	ASYNCHRONOUS EXIT OR DISPATCH RECORD
0	(0)	CHARACTER	4	ITXDIDFD	ID FIELD
4	(4)	UNSIGNED	1	*	RESERVED
4	(4)	UNSIGNED	1	ITXMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	*	NOT USED - AVAILABLE
6	(6)	UNSIGNED	2	ITXFLG1	PSTFLG1- PST FLAGS
8	(8)	ADDRESS	4	ITXDPSTA	PST ADDRESS
12	(C)	ADDRESS	4	ITXTASK	GCS TASK INDEX
16	(10)	CHARACTER	8	ITXSQS	PST SYNCHRONOUS QUEUES
16	(10)	ADDRESS	4	ITXSTPP	PST SYNCH TPPOSTED QUEUE
20	(14)	ADDRESS	4	ITXSNRM	PST SYNCH NORMAL QUEUE
24	(18)	CHARACTER	8	ITXAQS	PST ASYNCHRONOUS QUEUES

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
24	(18)	ADDRESS	4	ITXATPP	PST ASYNCH TPPOSTED QUEUE
28	(1C)	ADDRESS	4	ITXANRM	PST ASYNCH NORMAL QUEUE

-----  
 TYPE - INCCI                  RECORD - CCI  
           INCCO                                  CCO  
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0	(0)	STRUCTURE	32	ISTITKAL	CPCALL RECORD
0	(0)	CHARACTER	3	ITKIDFD	
3	(3)	BITSTRING	1	ITKFLAGS	CCI/CCO FORMAT FLAGS
		1... ....		ITKRSP	1 = RESPONSE, 0 = REQUEST
		.1.. ....		ITKSENSE	1 = SENSE INCLUDED
		..11 11..		*	NOT USED - AVAILABLE
		.... ..11		ITKBfmt	SSCP TRACE FOR BASE FORMAT
		.... ..11		ITKNfMT	SSCP TRACE FOR NETWORK FORMAT
4	(4)	UNSIGNED	1	ITKASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITKTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITKMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITKCBID	CONTROL BLOCK ID OF CPCB
6	(6)	BITSTRING	1	ITKNSFLG	CPCB FLAG
6	(6)	UNSIGNED	1	ITKNSINT	SIB INITIATION FSM
7	(7)	UNSIGNED	1	ITKNSRC	CPCB RETURN CODE
7	(7)	UNSIGNED	1	ITKNSTRM	SIB TERMINATION FSM
8	(8)	ADDRESS	4	ITKSAVEA	SAVEAREA ADDRESS
12	(C)	CHARACTER	4	ITKSAVID	SAVEAREA ID
16	(10)	CHARACTER	16	ITKCPCB	CPCB ADDRESS
16	(10)	CHARACTER	4	ITKISSR	RETURN ADDRESS TO ISSUER OF MACRO
20	(14)	CHARACTER	4	ITKPOPC	CPCB OP CODE
24	(18)	CHARACTER	4	ITKCPWD3	CPCB WORD 3
28	(1C)	CHARACTER	4	ITKCPWD4	CPCB WORD 4

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
16	(10)	STRUCTURE	16	ISTITKNS	OVERLAY OF ITKCPCB FOR CPCB IS NCSPL
16	(10)	ADDRESS	4	ITKNISSR	RETURN ADDRESS TO ISSUER OF MACRO
20	(14)	UNSIGNED	4	ITKNSOPC	CPCB OP CODE
24	(18)	CHARACTER	1	ITKNSTYP	TYPE
25	(19)	CHARACTER	1	*	NOT USED - AVAILABLE
26	(1A)	CHARACTER	6	ITKNDTNA	DESTINATION NETWORK ADDRESS
0	(0)	STRUCTURE	32	ISTITKN2	RECORD II FOR NCSPL
0	(0)	CHARACTER	3	ITKNID	ID FIELD FOR RECORD II
3	(3)	CHARACTER	1	ITKNCBID	CONTROL BLOCK ID OF CPCB
4	(4)	BITSTRING	4	ITKNSTAT	STATE FIELDS FROM RDTE
8	(8)	ADDRESS	4	ITKNSWTD	FIRST WORD OF WTD
12	(C)	CHARACTER	20	*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
16	(10)	STRUCTURE	16	ISTITKRP	OVERLAY OF ITKCPCB FOR CPCB ID RUPE
16	(10)	ADDRESS	4	ITKRISR	RETURN ADDRESS TO ISSUER OF MACRO
20	(14)	CHARACTER	6	ITKRPPONA	RUPE ORIGIN NETWORK ADDRESS
26	(1A)	CHARACTER	6	ITKRPDNA	RUPE DESTINATION NETWORK ADDRESS
0	(0)	STRUCTURE	32	ISTITKR2	RECORD II FOR RUPE
0	(0)	CHARACTER	3	ITKRID	ID FIELD FOR RECORD II
3	(3)	CHARACTER	1	ITKRFBID	CONTROL BLOCK ID OF CPCB
4	(4)	CHARACTER	24	ITKRPRU	FIRST 24 BYTES OF RU FROM RUPE
28	(1C)	CHARACTER	4	ITKRPSNS	RU SENSE, IF ITSSENSE=1

-----  
 TYPE - CPROC                  RECORD - CPROC  
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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITNRC	CPRC SENSE RECORD
0	(0)	CHARACTER	4	ITNIDFLD	ID FIELD
4	(4)	UNSIGNED	1	ITNASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITNTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	*	RESERVED
5	(5)	CHARACTER	3	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITNRUPE	RUPE ADDRESS
12	(C)	CHARACTER	4	ITNOPC	CPCB OP CODE
16	(10)	CHARACTER	4	ITNSENSE	SNA SENSE CODE
20	(14)	CHARACTER	6	ITNORNA	RUPE ORIGIN NETWORK ADDRESS
26	(1A)	CHARACTER	6	ITNDENA	RUPE DESTINATION NETWORK ADDRESS
0	(0)	STRUCTURE	32	ISTITNR2	CPRC RECORD II
0	(0)	CHARACTER	4	ITNID2	ID FIELD FOR RECORD II
4	(4)	ADDRESS	4	ITNISSR	RETURN ADDRESS TO ISSUER OF MACRO
8	(8)	CHARACTER	17	ITNURC	17 BYTES OF RUPEURC
25	(19)	CHARACTER	7	*	NOT USED - AVAILABLE

TYPE - CPWAIT	RECORD - CPWT
CPPOST	CPPT
CPPURGE	CPPG
CPFIND	CPPT
CPDQ	CPPT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITMWP	CPWAIT/CPPT/PPG
0	(0)	CHARACTER	4	ITMID1	ID FIELD
4	(4)	UNSIGNED	1	ITMASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITMTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	*	RESERVED
5	(5)	UNSIGNED	1	ITMPPRC	RETURN CODE SET BY CPPOST/PPURGE CPFIND AND CPDQ
6	(6)	BITSTRING	1	ITMPPTP	TYPE FLAGS
		1111 11..		*	RESERVED
		.... ..1.		ITMPPEID	EID INDICATOR, 0=URC, 1=EID
		.... ..1		ITMPPVI	PVI FLAG, 0=NON-PVI, 1=PVI
7	(7)	CHARACTER	1	*	4 BITS AVAILABLE
7	(7)	BITSTRING	1	ITMPOPT	RIGHT HAND NIBBLE USED FOR CPPOST INDICATES TYPE OF POST, FIND, DQ OR POST: 0,1,2 RESPECTIVELY
8	(8)	ADDRESS	4	ITMLQAB	LQAB ADDRESS
12	(C)	CHARACTER	4	ITMDTA	DATA USED FOR THIS MACRO
16	(10)	ADDRESS	4	ITMWEA	WORK ELEMENT ADDRESS, 0=ASYNCHRONOUS
20	(14)	CHARACTER	4	ITMOPC	CPCB OP CODE
24	(18)	CHARACTER	4	ITMSAVE	SAVE AREA ID (CALLERS SAVE AREA ID IF PVI)
28	(1C)	CHARACTER	4	ITMSENSE	SENSE DATA
0	(0)	STRUCTURE	32	ISTITM2	CPWAIT, CPPT, CPPG RECORD II
0	(0)	CHARACTER	4	ITMID2	ID FIELD
4	(4)	ADDRESS	4	ITMISSR	RETURN ADDRESS
8	(8)	CHARACTER	17	ITMURC	RUPERC
25	(19)	CHARACTER	7	*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITM3	CPWAIT, CPPT, CPPG RECORD III
0	(0)	CHARACTER	4	ITMID3	ID FIELD
4	(4)	CHARACTER	3	*	NOT USED - AVAILABLE
7	(7)	UNSIGNED	1	ITMEIDLN	LENGTH OF EID
8	(8)	CHARACTER	24	ITMEID	FIRST 24 BYTES OF EID
0	(0)	STRUCTURE	32	ISTITM4	CPWAIT, CPPT, CPPG RECORD IV
0	(0)	CHARACTER	4	ITMID4	ID FIELD
4	(4)	CHARACTER	24	ITMRU	FIRST 24 BYTES OF RU



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
28	(1C)	CHARACTER	4	*	NOT USED - AVAILABLE

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TYPE - SSCPI                  RECORD - C11  
 SSCPO                                  C01

NOTE: TYPE INCCI AND INCCO MAPPINGS ARE ALSO USED WHEN  
 FORMATTING THE ABOVE ENTRIES.

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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITKA2	SSCP INBOUND OR OUTBOUND RECORD II FOR NOT RUPE OR NCSPL
0	(0)	CHARACTER	3	ITKIDFD2	ID FIELD
3	(3)	CHARACTER	1	ITKACBID	CONTROL BLOCK ID OF CPCB
4	(4)	CHARACTER	28	*	NOT USED - AVAILABLE
0	(0)	STRUCTURE	32	ISTITKA3	CPCALL RECORD
0	(0)	CHARACTER	3	ITKIDFD3	ID FIELD FOR RECORD III
3	(3)	CHARACTER	1	*	RESERVED
4	(4)	ADDRESS	4	ITKSIB	SIB ADDRESS
8	(8)	CHARACTER	8	ITKPCID	PCID FOR REQUEST/RESPONSE
16	(10)	CHARACTER	8	ITKPLUNM	PLU NAME
24	(18)	CHARACTER	8	ITKSLUNM	SLU NAME

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITKA4	CPCALL RECORD
0	(0)	CHARACTER	3	ITKIDFD4	ID FIELD FOR RECORD IV
3	(3)	CHARACTER	5	*	RESERVED
8	(8)	CHARACTER	8	ITKNPCID	PCID IN PREVIOUS NETWORK
16	(10)	CHARACTER	8	ITKPLUNT	PLU NETID
24	(18)	CHARACTER	8	ITKSLUNT	SLU NETID

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
-----					
TYPE - PIU		RECORD - PIU			
-----					
0	(0)	STRUCTURE	32	ISTITFPI	FID4 PIU RECORD
0	(0)	CHARACTER	4	ITFID1	ID FIELD
4	(4)	UNSIGNED	1	ITFASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITFTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITFMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITFCBID	CBID
6	(6)	CHARACTER	1	ITFFLAG	TSCB FLAG FIELD
7	(7)	CHARACTER	1	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITFTSCBA	TSCB ADDRESS
8	(8)	ADDRESS	4	ITFRUPEA	RUPE ADDRESS
12	(C)	CHARACTER	20	ITFPIU1	1ST 20 BYTES OF PIU
12	(C)	CHARACTER	20	ITFTH	FIRST 20 BYTES OF FID4 TH

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITFP2	FID4 PIU RECORD
0	(0)	CHARACTER	4	ITFID2	ID FIELD FOR RECORD II
4	(4)	CHARACTER	28	ITFPIU2	28 MORE BYTES OF PIU
4	(4)	CHARACTER	6	ITFTH2	LAST 6 BYTES OF FID4 TH
4	(4)	UNSIGNED	2	ITFOEF	ORIGIN ELEMENT FIELD
6	(6)	UNSIGNED	2	ITFSNF	SEQUENCE NUMBER FIELD
8	(8)	UNSIGNED	2	ITFDCF	DATA COUNT FIELD
10	(A)	CHARACTER	3	ITFRH	AREA FOR RH
13	(D)	CHARACTER	19	ITFRUDAT	AREA FOR RU DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
-----		TYPE - TPMSG	RECORD - MSG	-----	
0	(0)	STRUCTURE	32	ISTITJMG	TPMSG AND MSGSENT RECORD
0	(0)	CHARACTER	4	ITJIDF	ID FIELD
4	(4)	UNSIGNED	1	ITJASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITJTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITJMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	2	*	AVAILABLE
7	(7)	CHARACTER	1	ITJSOLIC	SOLICITED OR UNSOLICITED
8	(8)	CHARACTER	8	ITJDESTS	DESTINATION FOR MSGSENT
8	(8)	ADDRESS	4	ITJSAVEA	SAVEAREA ADDRESS FOR TPMSG
12	(C)	ADDRESS	4	ITJMSGID	MESSAGE ID FOR TPMSG
16	(10)	CHARACTER	16	ITJDATA	MSG PARM LIST FOR MSGSENT
16	(10)	ADDRESS	4	ITJISSR	RETURN ADDRESS TO ISSUER OF MACRO FOR TPMSG
20	(14)	CHARACTER	4	ITJSAVID	SAVEAREA MODULE ID
24	(18)	CHARACTER	8	ITJDEST	DESTINATION FOR TPMSG

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITJM2	TPMSG RECORD II
0	(0)	CHARACTER	4	ITJID2	ID FIELD FOR RECORD II
4	(4)	CHARACTER	28	ITJDATA2	VARIABLE DATA FOR RECORD II

-----		TYPE - SNAP	RECORD - (N/A)	-----	
0	(0)	STRUCTURE	128	ISTITUSR	DEBUG SNAP RECORD
0	(0)	CHARACTER	128	ITUSNAP	DEBUG SNAP FIELD

-----		TYPE - SIO	RECORD - SIO	-----	
		INT	INT		
		ERP	ERP		
		ATT	ATT		
		HIO	HIO		

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITCIO	CIO ENTRY RECORDS
0	(0)	CHARACTER	3	ITCIDFD	ID FIELD
3	(3)	CHARACTER	1	ITCTYPE	NCB TYPE
4	(4)	UNSIGNED	1	ITCASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITCTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITCMID	MACHINE ID (VM)
5	(5)	CHARACTER	1	ITCSTATE	LINK STATION STATE
6	(6)	CHARACTER	2	ITCMODID	MODULE ID FOR HIO
6	(6)	CHARACTER	1	ITCCODE	ENDING OP CODE FOR INT
6	(6)	CHARACTER	1	ITCERACT	ENDING OP CODE (VSE)
7	(7)	CHARACTER	1	*	NOT USED - AVAILABLE
8	(8)	CHARACTER	1	*	RESERVED
9	(9)	CHARACTER	3	ITCCUA	CONTROL UNIT ADDRESS
12	(C)	ADDRESS	4	ITCNCB	ADDRESS OF NCB
16	(10)	CHARACTER	4	ITCFLAGS	NCB FLAG BYTES
20	(14)	CHARACTER	4	ITCCAW	CHANNEL ADDRESS WORD
20	(14)	CHARACTER	2	*	RESERVED FOR HIO
20	(14)	CHARACTER	1	ITCFLAG	FLAG1 OR FLAG2 FOR INT & ERP
20	(14)	CHARACTER	1	ITCCOD	FLAG1 OR FLAG2 (VM, VSE)
21	(15)	CHARACTER	1	ITCCOD	I/O COMPLETION CODE FOR INT, ERP ATT (MVS, VM)
21	(15)	CHARACTER	1	ITCRCODE	I/O COMPLETION CODE (VSE)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
22	(16)	CHARACTER	2	ITCSENSE	SENSE DATA FOR INT & ERP
24	(18)	CHARACTER	8	ITCCSW	CHANNEL STATUS WORD
24	(18)	CHARACTER	8	*	RESERVED
24	(18)	ADDRESS	4	*	RESERVED
24	(18)	ADDRESS	4	*	RESERVED
28	(1C)	CHARACTER	1	*	RESERVED
29	(1D)	CHARACTER	3	*	RESERVED
32	(20)	CHARACTER	*	*	RESERVED
12	(C)	STRUCTURE	20	ISTITZAR	WORK AREA
12	(C)	CHARACTER	3	ITZCUA	RECEIVER FOR PACK
15	(F)	CHARACTER	4	ITZPACKA	SOURCE FOR PACK
15	(F)	CHARACTER	3	ITZUNAME	SOURCE FOR TRANSLATE
19	(13)	CHARACTER	13	*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITZSI	SIO RECORD I UNIQUE FIELDS
0	(0)	CHARACTER	5	*	RESERVED
5	(5)	BITSTRING	1	ITZLFMS	STATION FINITE STATE MACHINE (VM, VSE)
6	(6)	CHARACTER	26	*	RESERVED
0	(0)	STRUCTURE	32	ISTITZS2	SIO RECORD II
0	(0)	CHARACTER	4	ITZSIDFD	ID FIELD FOR RECORD II FOR VM
0	(0)	CHARACTER	4	*	RESERVED
4	(4)	ADDRESS	4	ITZS2AD	CCWADDR (MVS)
4	(4)	CHARACTER	1	*	RESERVED
5	(5)	UNSIGNED	1	ITZTECT	TEMPORARY ERROR COUNT (VM, VSE)
6	(6)	UNSIGNED	1	*	RESERVED
7	(7)	CHARACTER	1	*	RESERVED
8	(8)	UNSIGNED	1	ITZPUIND	INDEX TO CURRENT PUT (VM, VSE)
8	(8)	UNSIGNED	1	ITZCCFSM	CURRENT CHANNEL PROGRAM FINITE STATE MACHINE (VM, VSE)
9	(9)	BITSTRING	1	ITZEFLGS	STATION FLAGS (VM, VSE)
9	(9)	UNSIGNED	1	ITZOCFSM	ORIGINAL CHANNEL PROGRAM FINITE STATE MACHINE (VM, VSE)
10	(A)	BITSTRING	1	ITZFMS	STATION FINITE STATE MACHINE (VM, VSE)
10	(A)	UNSIGNED	1	ITZPCFSM	PREVIOUS CHANNEL PROGRAM FINITE STATE MACHINE (VM, VSE)
11	(B)	BITSTRING	1	ITZCFMS	CONNECTION FINITE STATE MACHINE (VM, VSE)
11	(B)	UNSIGNED	1	ITZFCFSM	ORIGINAL FAILING CHANNEL PROGRAM FINITE STATE MACHINE (VM, VSE)
12	(C)	CHARACTER	12	ITZDVDP1	DEVICE DEPENDENT AREA (VM, VSE)
12	(C)	CHARACTER	12	ITZDVDP2	STRUCTURE FOR HALCB (VM, VSE)
12	(C)	BITSTRING	2	ITZCMFGS	CONNECTION MANAGER FLAGS (VM, VSE)
14	(E)	BITSTRING	1	ITZCODES (10)	CCW COMMAND CODES (VM, VSE)
24	(18)	CHARACTER	8	*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ITZDVDPB	STRUCTURE FOR BSCLB
0	(0)	CHARACTER	1	ITZSEL1	FIRST SELECTION CHARACTER
1	(1)	CHARACTER	1	ITZDEV1	FIRST DEVICE ADDRESS
2	(2)	UNSIGNED	1	ITZBPESV	SAVE INDEX OF BPL ENTRY FOR WHICH INPUT DATA WAS RECEIVED
3	(3)	UNSIGNED	1	ITZDEVSU	DEVICE ADDRESS FROM WHICH INPUT DATA WAS RECEIVED
0	(0)	STRUCTURE	8	ITZDVDPB	STRUCTURE FOR BSCLB
0	(0)	UNSIGNED	1	ITZISOD	INDEX FOR LAST STATION FOR WHICH THERE WAS OUTPUT DATA
1	(1)	CHARACTER	1	ITZRSPA1	FIRST RESPONSE BYTE
2	(2)	CHARACTER	1	ITZRSPA2	SECOND RESPONSE BYTE
3	(3)	CHARACTER	1	ITZLBR	LAST BLOCK TYPE RECEIVED
4	(4)	CHARACTER	1	ITZALTAK	CURRENT ACKNOWLEDGEMENT
5	(5)	UNSIGNED	1	ITZRCNT	ERROR RETRY COUNT
6	(6)	UNSIGNED	1	ITZCMIO	CONNECTION MANAGER FLAGS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
7	(7)	BITSTRING	1	ITZBFLGS	BSC FLAGS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ITZDVDP6	STRUCTURE FOR LDNCB OR ICNCB (VM, VSE)
0	(0)	CHARACTER	8	ITZCCW	FIRST CHANNEL COMMAND WORD
0	(0)	CHARACTER	1	ITZOPCD1	CCW OPERATION CODE
1	(1)	ADDRESS	4	ITZBUF1	REAL BUFFER ADDRESS
5	(5)	CHARACTER	1	ITZOPCD2	CCW OPERATION CODE
6	(6)	ADDRESS	4	ITZBUF2	REAL BUFFER ADDRESS
8	(8)	CHARACTER	2	*	NOT USED - AVAILABLE
0	(0)	STRUCTURE	32	ISTITZIN	INT RECORD I UNIQUE FIELDS
0	(0)	CHARACTER	5	*	RESERVED
5	(5)	BITSTRING	1	ITZLFSM2	STATION FINITE STATE MACHINE (VM, VSE)
6	(6)	CHARACTER	15	*	RESERVED
21	(15)	BITSTRING	1	ITZFCODE	FAILING CCW OP CODE (VM, VSE)
22	(16)	CHARACTER	10	*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITZ12	INT RECORD II (VM, VSE)
0	(0)	CHARACTER	4	ITZIIDFD	ID FIELD FOR RECORD II
4	(4)	CHARACTER	4	*	NOT USED - AVAILABLE
8	(8)	CHARACTER	4	ITZDVDP6	DEVICE DEPENDENT AREA
8	(8)	BITSTRING	1	ITZRCODE	RETURN CODE
9	(9)	UNSIGNED	1	ITZOFFST	SPLOFFST-BUFFER OFFSET
10	(A)	UNSIGNED	1	ITZADDR	SPLADDR-SDLC STATION @
11	(B)	CHARACTER	1	ITZCTFLG	SPLCTFLG-CONTROL FLAGS
12	(C)	CHARACTER	8	ITZDVDP7	DEVICE DEPENDENT AREA
12	(C)	UNSIGNED	1	ITZNSCUR	SPLNSCUR-CURRENT SDLC NUMBER OF SENT I-FRAME
13	(D)	UNSIGNED	1	ITZNSACK	SPLNSACK-SDLC NUMBER OF LAST I-FRAME ACKNOWLEDGED
14	(E)	UNSIGNED	1	ITZNRACC	SPLNRACC-SDLC NUMBER OF NEXT I-FRAME TO BE RECEIVED
15	(F)	CHARACTER	1	ITZCMDIN	SCXCMDIN-COMMAND-IN FIELD
16	(10)	UNSIGNED	1	ITZCFRS	SCXCFRS-COUNT OF FRAMES SENT AND ACKNOWLEDGED
17	(11)	UNSIGNED	1	ITZCRBUF	SCXCRBUF-COUNT OF RECEIVE BUFFERS USED
18	(12)	CHARACTER	2	ITZEXFCD	SCXEXFCD-EXCEPTION FLAGS/CODE
20	(14)	CHARACTER	12	*	NOT USED - AVAILABLE
0	(0)	STRUCTURE	32	ISTITZER	ERP RECORD I UNIQUE FIELDS
0	(0)	CHARACTER	5	*	RESERVED
5	(5)	BITSTRING	1	ITZLFSM3	STATION FINITE STATE MACHINE(VM, VSE)
6	(6)	CHARACTER	26	*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITZE2	ERP RECORD II (VM, VSE)
0	(0)	CHARACTER	4	ITZEIDFD	ID FIELD FOR RECORD II
4	(4)	CHARACTER	4	*	RESERVED
8	(8)	CHARACTER	9	ITZDVDP8	DEVICE DEPENDENT AREA
8	(8)	UNSIGNED	1	ITZRLIM	LINK ERROR RETRY LIMIT
9	(9)	UNSIGNED	1	ITZRTCT	ERROR RETRY COUNT
10	(A)	BITSTRING	1	ITZCNFSM	CONNECTION FINITE STATE MACHINE
11	(B)	BITSTRING	1	ITZROPCD	RETRY OP CODE
12	(C)	ADDRESS	4	ITZCPAD	CCW ADDRESS
16	(10)	CHARACTER	1	ITZSNS1	SENSE BYTE FROM ERBQSNS
17	(11)	CHARACTER	12	ITZSNS	SENSE BYTES FROM ERBQSNS
17	(11)	CHARACTER	2	ITZSENS	NCB SENSE DATA AREA
19	(13)	UNSIGNED	1	ITZERCOD	BSCERCOD-ERROR CODE
29	(1D)	CHARACTER	3	*	NOT USED - AVAILABLE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
-----					
TYPE - CONN		RECORD - CONN (VM, VSE)			
DISC		DISC			
-----					
0	(0)	STRUCTURE	32	ISTITGIO	CONN, DISC MAPPING
0	(0)	CHARACTER	3	ITGIDFD	ID FIELD
3	(3)	CHARACTER	1	ITGTYPE	NCB TYPE
4	(4)	UNSIGNED	1	ITGTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	*	RESERVED
5	(5)	BITSTRING	1	ITGCFSM	CONNECTION MANAGER FSM
6	(6)	BITSTRING	1	ITGPMFSM	PORT MANAGER FSM
7	(7)	CHARACTER	1	ITGSHSI	SHORT HOLD MODE STATUS INDICATOR IN THEPUT- PUTFLAG1
8	(8)	CHARACTER	1	*	RESERVED
9	(9)	CHARACTER	3	ITGCUA	CHANNEL UNIT ADDRESS
12	(C)	ADDRESS	4	ITGGRPCB	ADDRESS OF THE GROUP NCB
16	(10)	ADDRESS	4	ITGHALCB	ADDRESS OF THE HALCB
20	(14)	ADDRESS	4	ITGPUT	ADDRESS OF THE PUT
24	(18)	CHARACTER	4	*	NOT USED - AVAIL
28	(1C)	CHARACTER	4	*	RESERVED FOR DISC
28	(1C)	UNSIGNED	2	ITGPUEA	PU ELEMENT ADDRESS
30	(1E)	CHARACTER	2	*	NOT USED - AVAIL

-----  
 TYPE - DISCARD                  RECORD - DSCD  
 -----  
 DSC2  
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Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	ISTITFDS	DSCD MAPPING
0	(0)	CHARACTER	4	ITFIDDS1	ID FIELD
4	(4)	UNSIGNED	1	ITFASIDD	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITFTIKD	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITFDMID	MACHINE ID (VM ONLY)
5	(5)	UNSIGNED	3	ITFDREAS	REASON CODE
8	(8)	ADDRESS	4	ITFDTSCB	TSCB ADDRESS
12	(C)	CHARACTER	20	ITFDPIU	FIRST 20 BYTES OF PIU
0	(0)	STRUCTURE	32	ISTITFD2	DSC2 MAPPING
0	(0)	CHARACTER	4	ITFIDDS2	ID FIELD
4	(4)	CHARACTER	24	ITFDPIU2	NEXT 24 BYTES OF PIU
28	(1C)	CHARACTER	4	ITFDNAME	NAME OF CALLER OF ISTDSCUD

-----  
 TYPE - NEGRES P                  RECORD - NRSP  
 -----  
 NRS2  
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Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	32	ISTITFNR	NRSP MAPPING
0	(0)	CHARACTER	4	ITFIDNR1	ID FIELD
4	(4)	UNSIGNED	1	ITFASIDN	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITFTIKN	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITFMIDN	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITFNCBID	CONTROL BLOCK ID
6	(6)	CHARACTER	1	ITFNFLAG	TSCB FLAG1 BYTE
7	(7)	CHARACTER	1	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITFNTSCB	TSCB ADDRESS
12	(C)	CHARACTER	20	ITFNPIU1	FIRST 20 BYTES OF PIU
0	(0)	STRUCTURE	32	ISTITFN2	NRS2 MAPPING

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	CHARACTER	4	ITFIDNR2	ID FIELD
4	(4)	CHARACTER	24	ITFNPIU2	NEXT 24 BYTES OF PIU
28	(1C)	CHARACTER	4	ITFNRTR	RETURN ADDRESS (CALLER OF ISTTSCGR)

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TYPE - OPERATOR	RECORD - OPER	
	OPE2	

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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITJOP	OPER MAPPING
0	(0)	CHARACTER	4	ITJIDFDO	ID FIELD
4	(4)	UNSIGNED	1	ITJASIDO	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITJTIKO	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITJMIDO	MACHINE ID (VM ONLY)
5	(5)	BITSTRING	1	ITJFLAG	FLAG BYTE
		1... ....		ITJPOA	0=CONSOLE OPERATOR 1=POA COMMAND
		.111 1111		*	NOT USED - AVAILABLE
6	(6)	CHARACTER	2	*	NOT USED - AVAILABLE
8	(8)	CHARACTER	1	ITJCMAND	COMMAND TYPE
9	(9)	CHARACTER	1	ITJBLANK	BLANK (X'40')
10	(A)	CHARACTER	22	ITJTEXT	OPERATOR COMMAND TEXT
0	(0)	STRUCTURE	32	ISTITJO2	OPE2 MAPPING
0	(0)	CHARACTER	4	ITJIDFO2	ID FIELD
4	(4)	CHARACTER	28	ITJTEXT2	NEXT 28 BYTES OF COMMAND TEXT

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TYPE - SRT	RECORD - SRT	
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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITSRT	SRTA/SRTD/SRTF MAPPING
0	(0)	CHARACTER	4	ITSRIDFD	TRACE IDENTIFIER
0	(0)	CHARACTER	3	*	RESERVED
3	(3)	CHARACTER	1	ITSRFUNC	FUNCTION CODE
4	(4)	UNSIGNED	1	ITSRASID	ADDRESS SPACE IDENTIFIER
4	(4)	UNSIGNED	1	ITSRTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	*	RESERVED
5	(5)	UNSIGNED	1	ITSRRC	RETURN CODE
6	(6)	CHARACTER	1	*	NOT USED - AVAILABLE
7	(7)	CHARACTER	1	ITSTYPE	SRT TYPE
8	(8)	CHARACTER	8	ITSRNAME	HASH NAME
8	(8)	CHARACTER	2	*	RESERVED
10	(A)	CHARACTER	6	ITSRNETA	NETWORK ADDRESS
16	(10)	ADDRESS	4	ITSRISSR	RETURN ADDRESS
20	(14)	ADDRESS	4	ITSRSRTE	ADDRESS OF SRTE
24	(18)	CHARACTER	8	ITSRNID	NETWORK IDENTIFIER

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TYPE - RCE	RECORD - RCE	
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0	(0)	STRUCTURE	32	ISTRICE	RCE MAPPING
0	(0)	CHARACTER	4	ITRCEID	RCE ID
0	(0)	CHARACTER	3	ITRCIDFD	ID FIELD
3	(3)	CHARACTER	1	ITRCFUNC	FUNCTION CODE
4	(4)	UNSIGNED	1	ITRCASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITRCTID	TASK IDENTIFIER (VSE)
4	(4)	UNSIGNED	1	ITRCMID	MACHINE IDENTIFIER (VM)
5	(5)	UNSIGNED	1	ITRCRC	RETURN CODE
6	(6)	UNSIGNED	1	ITRCTYPE	RCE TYPE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
7	(7)	UNSIGNED	1	ITRCMODE	RCE MODE
8	(8)	CHARACTER	8	ITRCNAME	ENTITY NAME
8	(8)	CHARACTER	4	ITRCINDX	INDEX
12	(C)	CHARACTER	4	*	NOT USED - AVAILABLE
16	(10)	ADDRESS	4	ITRCISSR	ISSUER ADDRESS
20	(14)	CHARACTER	8	ITRCNWNM	NEW NAME
20	(14)	SIGNED	4	ITRCOUT1	RCEPOUT1
24	(18)	SIGNED	4	ITRCOUT2	RCEPOUT2
28	(1C)	ADDRESS	4	ITRCDATA	DATA ADDRESS

-----  
 TYPE - ACAUTHIO            RECORD - ACA  
           ACTPIO                ACI  
 -----

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITPI	ACAUTHIO OR ACTPIO RECORD I
0	(0)	CHARACTER	4	ITPIIDFD	ID FIELD (ACA1 OR ACI1)
4	(4)	ADDRESS	1	ITPIASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	ADDRESS	1	ITPITIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	ADDRESS	1	ITPIMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITPIEXTD	RPLEXTDS - EXIT DEFINITIONS
6	(6)	CHARACTER	1	ITPIOPT1	RPLOPT1 - 1ST BYTE OF OPTION CODE
7	(7)	CHARACTER	1	ITPIOPT6	RPLOPT6 - 6TH BYTE OF OPTION CODE
8	(8)	ADDRESS	4	ITPIRPLA	RPL ADDRESS
12	(C)	CHARACTER	1	ITPIREQ	CONTROL VALUE
13	(D)	CHARACTER	1	ITPIQUAL	QUALIFY VALUE
14	(E)	CHARACTER	2	*	RESERVED
16	(10)	ADDRESS	4	ITPIAREA	DATA AREA POINTER
20	(14)	CHARACTER	4	ITPIFLGS	APPCCMD FLAGS
24	(18)	CHARACTER	4	ITPICNVD	CONVERSATION ID
24	(18)	CHARACTER	4	ITPIUSR	USER FIELD
24	(18)	ADDRESS	4	ITPICID	COMMUNICATION ID
28	(1C)	CHARACTER	4	ITPISNSO	SENSE DATA
0	(0)	STRUCTURE	32	ISTITPI2	ACAUTHIO OR ACTPIO RECORD II
0	(0)	CHARACTER	4	ITPIID2	ID FIELD (ACA2 OR ACI2)
4	(4)	ADDRESS	4	ITPIRTRN	RETURN ADDRESS
8	(8)	CHARACTER	8	ITPIMODE	MODE NAME
8	(8)	CHARACTER	8	*	RESERVED
16	(10)	CHARACTER	8	ITPILLU	LOCAL LU NAME
24	(18)	CHARACTER	8	ITPIRLU	REMOTE LU NAME

-----  
 TYPE - MESSUNIT            RECORD - MU  
 -----

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITPM	MESSUNIT RECORD I
0	(0)	CHARACTER	4	ITPMIDFD	ID FIELD (MU1 )
4	(4)	ADDRESS	1	ITPMASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	ADDRESS	1	ITPMTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	ADDRESS	1	ITPMMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	3	ITPMMUID	MESSAGE UNIT TYPE ID
8	(8)	ADDRESS	4	ITPMADDR	MESSAGE UNIT ADDRESS
12	(C)	CHARACTER	4	ITPMHSID	HALF SESSION ID
16	(10)	ADDRESS	4	ITPMCRR	ADDRESS OF CORRELATOR
20	(14)	UNSIGNED	1	ITPMRETC	RETURN CODE
21	(15)	CHARACTER	3	*	AVAILABLE
24	(18)	CHARACTER	4	ITPMFLAG	AMU FLAGS
28	(1C)	CHARACTER	4	ITPMSNS	SENSE DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITPM2	MESSUNIT RECORD II
0	(0)	CHARACTER	4	ITPMID2	ID FIELD (MU2 )
4	(4)	CHARACTER	1	*	AVAILABLE
5	(5)	CHARACTER	3	ITPMMUI2	MESSAGE UNIT TYPE ID
8	(8)	ADDRESS	4	ITPMDATA	POINTER TO ASSOCIATED DATA
12	(C)	UNSIGNED	4	ITPMDATL	LENGTH OF ASSOCIATED DATA
16	(10)	ADDRESS	4	ITPMRAB	RAB ADDRESS
20	(14)	SIGNED	2	ITPMSCNT	SESSION COUNT
22	(16)	SIGNED	2	ITPMSLIM	SESSION LIMIT
24	(18)	CHARACTER	4	ITPMCONV	CONVERSATION ID
28	(1C)	CHARACTER	4	ITPMOVER	VARIABLE OVERLAY FIELD
28	(1C)	SIGNED	2	ITPMDELT	SESSION LIMIT, DELTA
30	(1E)	CHARACTER	2	*	UNUSED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITPM3	MESSUNIT RECORD III
0	(0)	CHARACTER	4	ITPMID3	ID FIELD (MU3 )
4	(4)	CHARACTER	1	*	AVAILABLE
5	(5)	CHARACTER	3	ITPMMUI3	MESSAGE UNIT TYPE ID
8	(8)	CHARACTER	8	ITPMMODE	MODE NAME
8	(8)	CHARACTER	8	*	RESERVED
16	(10)	CHARACTER	8	ITPMLLU	LOCAL LU NAME
24	(18)	CHARACTER	8	ITPMRLU	REMOTE LU NAME

-----  
 TYPE - ACUSERPO                      RECORD - ACP  
           ACRPLEX                                      ACR  
 -----

0	(0)	STRUCTURE	32	ISTITPP	ACUSERPO OR ACRPLEX RECORD I
0	(0)	CHARACTER	4	ITPPIDFD	ID FIELD (ACP1 OR ACR1)
4	(4)	ADDRESS	1	ITPPASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	ADDRESS	1	ITPPTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	ADDRESS	1	ITPPMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITPPRTUN	APPCCMD RETURNED INDICATORS
6	(6)	CHARACTER	1	ITPPRTNC	RPL RETURN CODE
7	(7)	CHARACTER	1	ITPPFDB2	RPL FDBK CODE
8	(8)	ADDRESS	4	ITPPRPLA	RPL ADDRESS
12	(C)	CHARACTER	1	ITPPREQ	CONTROL VALUE
13	(D)	CHARACTER	1	ITPPQUAL	QUALIFY VALUE
14	(E)	CHARACTER	2	*	AVAILABLE
16	(10)	CHARACTER	2	ITPPRCPR	APPC PRIMARY RETURN CODE
18	(12)	CHARACTER	2	ITPPRCSC	APPC SECONDARY RETURN CODE
20	(14)	CHARACTER	4	ITPPFLGS	APPCCMD FLAGS
24	(18)	CHARACTER	4	ITPPCNVD	CONVERSATION ID
28	(1C)	CHARACTER	4	ITPPSNSI	SENSE DATA RETURNED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITPP2	ACUSERPO OR ACRPLEX RECORD II
0	(0)	CHARACTER	4	ITPPID2	ID FIELD (ACP2 OR ACR2)
4	(4)	ADDRESS	4	ITPPECBX	ECB (FOR ACP) OR RPL EXIT (FOR ACR) ADDRESS
8	(8)	ADDRESS	4	ITPPRPL6	RPL6 ADDRESS
12	(C)	CHARACTER	1	ITPPREQ2	CONTROL VALUE
13	(D)	CHARACTER	1	*	AVAILABLE
14	(E)	CHARACTER	2	ITPPRCV	WHAT RECEIVED INDICATORS
16	(10)	ADDRESS	4	ITPPAREA	DATA AREA POINTER
20	(14)	SIGNED	4	ITPPRLN	LENGTH OF RECORD
24	(18)	CHARACTER	8	*	AVAILABLE



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
-----					
TYPE - ACUSEREX			RECORD - ACU		
-----					
0	(0)	STRUCTURE	32	ISTITPU	ACUSEREX RECORD I
0	(0)	CHARACTER	4	ITPUIDFD	ID FIELD (ACU1)
4	(4)	ADDRESS	1	ITPUASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	ADDRESS	1	ITPUTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	ADDRESS	1	ITPUMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	1	ITPUCODE	EXIT CODE FOR USER EXIT
6	(6)	CHARACTER	2	*	AVAILABLE
8	(8)	SIGNED	4	ITPURSN	REASON CODE (TPEND)
8	(8)	CHARACTER	4	ITPUSUBT	ATTN EXIT SUBTYPE (ATTN)
12	(C)	CHARACTER	4	*	AVAILABLE
16	(10)	CHARACTER	8	ITPUPRI	PRIMARY LU NAME (ATTN)
16	(10)	CHARACTER	8	ITPUAPPL	APPLICATION ID (TPEND)
24	(18)	CHARACTER	8	ITPUSEC	SECONDARY LU NAME (ATTN)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	ISTITPU2	ACUSEREX RECORD II
0	(0)	CHARACTER	4	ITPUIID2	ID FIELD (ACU2)
4	(4)	ADDRESS	4	ITPUEXIT	ADDRESS OF EXIT ROUTINE
8	(8)	CHARACTER	8	ITPUMODE	MODE NAME (ATTN)
16	(10)	CHARACTER	16	*	AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
-----					
TYPE - N/A			RECORD - LOST		
-----					
0	(0)	STRUCTURE	32	ISTITOTR	LOST TRACE RECORD
0	(0)	CHARACTER	4	ITOIDFD	ID FIELD
4	(4)	UNSIGNED	1	ITOASID	ADDRESS SPACE IDENTIFIER (MVS)
4	(4)	UNSIGNED	1	ITOTIK	TASK IDENTIFICATION KEY (VSE)
4	(4)	UNSIGNED	1	ITOMID	MACHINE ID (VM ONLY)
5	(5)	CHARACTER	3	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	ITOR14	REGISTER 14
12	(C)	CHARACTER	20	ITOLSTR	LOST TRACE RECORD MESSAGE

## Constants

Len	Type	Value	Name	Description
4	DECIMAL	32	ITTRCLEN	TRACE RECORD LENGTH
4	CHARACTER	ACA1	ITTACA1	ACAUTHIO ID
4	CHARACTER	ACA2	ITTACA2	ACAUTHIO RECORD II ID
4	CHARACTER	ACI1	ITTACI1	ACTPIO ID
4	CHARACTER	ACI2	ITTACI2	ACTPIO RECORD II ID
4	CHARACTER	ACP1	ITTACP1	ACUSERPO ID
4	CHARACTER	ACP2	ITTACP2	ACUSERPO RECORD II ID
4	CHARACTER	ACR1	ITTACR1	ACRPLEX ID
4	CHARACTER	ACR2	ITTACR2	ACRPLEX RECORD II ID
4	CHARACTER	ACU1	ITTACU1	ACUSEREX ID
4	CHARACTER	ACU2	ITTACU2	ACUSEREX RECORD II ID
4	CHARACTER	ADSP	ITTADSP	ASYNDISP ID
3	CHARACTER	AI1	ITTAI1	AUTHIO ID
3	CHARACTER	AI2	ITTAI2	AUTHIO SECOND RECORD ID
4	CHARACTER	AREL	ITTAREL	ABNDRELS ID
4	CHARACTER	ATTI	ITTATTI	ATTENTION ID FOR ICNCB
4	CHARACTER	ATTL	ITTATTL	ATTENTION ID FOR LDNCB
4	CHARACTER	ATTX	ITTATTX	ATTENTION ID FOR XCNCB
4	CHARACTER	AXIT	ITTAXIT	ASYNEXIT ID
3	CHARACTER	CCI	ITTCI	INCCI ID
3	CHARACTER	CCO	ITTCO	INCCO ID
3	CHARACTER	CC2	ITTC2	INCCI OR INCCO RECORD II ID

Len	Type	Value	Name	Description
3	CHARACTER	CI1	ITTCI1	SSCP INBOUND ID
3	CHARACTER	CI2	ITTCI2	SSCP INBOUND RECORD II ID
3	CHARACTER	CI3	ITTCI3	SSCP INBOUND RECORD III ID
3	CHARACTER	CI4	ITTCI4	SSCP INBOUND RECORD IV ID
3	CHARACTER	CO1	ITTCO1	SSCP OUTBOUND ID
3	CHARACTER	CO2	ITTCO2	SSCP OUTBOUND RECORD II ID
3	CHARACTER	CO3	ITTCO3	SSCP OUTBOUND RECORD III ID
3	CHARACTER	CO4	ITTCO4	SSCP OUTBOUND RECORD IV ID
4	CHARACTER	CONN	ITTCONN	CONNECT PORT TO STATION RECORD
4	CHARACTER	CPPG	ITTCPPG	CPPOST/PURGE
4	CHARACTER	CPPT	ITTCPPT	CPPOST/POST
4	CHARACTER	CPFD	ITTCPFD	CPPOST/FIND
4	CHARACTER	CPDQ	ITTCPDQ	CPPOST/DQ
4	CHARACTER	CPP2	ITTCP2	CPPOST/PPURGE SECOND CARD ID
4	CHARACTER	CPP3	ITTCP3	CPPOST/PPURGE THIRD CARD ID
4	CHARACTER	CPP4	ITTCP4	CPPOST/PPURGE FOURTH CARD ID
4	CHARACTER	CPRC	ITTCPRC	CPRC RECORD ID
4	CHARACTER	CPR2	ITTCPR2	CPRC RECORD II ID
4	CHARACTER	CPWT	ITTCPWT	CPWAIT RECORD ID
4	CHARACTER	CPW2	ITTCPW2	CPWAIT RECORD II ID
4	CHARACTER	CPW3	ITTCPW3	CPWAIT RECORD THIRD ID
4	CHARACTER	CPW4	ITTCPW4	CPWAIT RECORD FOURTH ID
4	CHARACTER	DISC	ITTDISC	DISCONNECT PORT FROM STATION RECORD
4	CHARACTER	DISP	ITTDISP	PABDISP ID
4	CHARACTER	DSCD	ITTDSCD	DISCARD RECORD ID
4	CHARACTER	DSC2	ITTDSC2	DISCARD RECORD II ID
4	CHARACTER	ERPB	ITTERPB	ERROR RECOVERY ID FOR BSCLB
4	CHARACTER	ERPH	ITTERPH	ERROR RECOVERY ID FOR HALCB
4	CHARACTER	ERPI	ITTERPI	ERROR RECOVERY ID FOR ICNCB
4	CHARACTER	ERPL	ITTERPL	ERROR RECOVERY ID FOR LDNCB
4	CHARACTER	ERP2	ITTERP2	ERROR RECOVERY RECORD II ID
4	CHARACTER	ESC	ITTESC	TPESC ID
4	CHARACTER	EXIT	ITTEXIT	TPEXIT ID
4	CHARACTER	FBLK	ITTFBLK	FREEBLK ID
4	CHARACTER	GBLK	ITTGBLK	GETBLK ID
4	CHARACTER	HIOB	ITTHIOB	HALT I/O ID FOR BSCLB
4	CHARACTER	HIOH	ITTHIOH	HALT I/O ID FOR HALCB
4	CHARACTER	HIOX	ITTHIOX	HALT I/O ID FOR XCNCB
4	CHARACTER	INTB	ITTINTB	INTERRUPT ID FOR BSCLB
4	CHARACTER	INTH	ITTINTH	INTERRUPT ID FOR HALCB
4	CHARACTER	INTI	ITTINTI	INTERRUPT ID FOR ICNCB
4	CHARACTER	INTL	ITTINTL	INTERRUPT ID FOR LDNCB
4	CHARACTER	INTX	ITTINTX	INTERRUPT ID FOR XCNCB
4	CHARACTER	INT2	ITTINT2	INTERRUPT RECORD II ID
3	CHARACTER	IO1	ITTIO1	TPIO ID
3	CHARACTER	IO2	ITTIO2	TPIO RECORD II ID
3	CHARACTER	IO3	ITTIO3	TPIO RECORD III ID
4	CHARACTER	IRBD	ITTIRBD	IRBDISP ID
4	CHARACTER	IRBX	ITTIRBX	IRBEXIT ID
4	CHARACTER	LKSH	ITTLKSH	LOCKSHR ID
4	CHARACTER	LKEX	ITTLKEX	LOCKXCL ID
4	CHARACTER	LOST	ITTLOST	LOST ID
4	CHARACTER	MSG	ITTMMSG	TPMSG ID
4	CHARACTER	MSG2	ITTMMSG2	MSG RECORD II ID
4	CHARACTER	MU1	ITTMU1	MESSUNIT ID
4	CHARACTER	MU2	ITTMU2	MESSUNIT RECORD II ID
4	CHARACTER	MU3	ITTMU3	MESSUNIT RECORD III ID
4	CHARACTER	NRSP	ITTNRS	NEGRESP RECORD ID
4	CHARACTER	NRS2	ITTNRS2	NEGRESP RECORD II ID
4	CHARACTER	OPER	ITTOPER	OPERATOR RECORD ID
4	CHARACTER	OPE2	ITTOPE2	OPERATOR RECORD II ID
4	CHARACTER	PIU	ITTPIU	PIU ID
4	CHARACTER	PIU2	ITTPIU2	PIU RECORD II ID
4	CHARACTER	POST	ITTPOST	TPPOST ID
4	CHARACTER	QREQ	ITTQREQ	QREQS ID
4	CHARACTER	QUE	ITTQUE	TPQUE ID
4	CHARACTER	QUEN	ITTQUEN	TPQUE NONE
3	CHARACTER	RCE	ITTRCE	RCE ID

Len	Type	Value	Name	Description
2	CHARACTER	RE	ITTRE	RPLEXIT ID
4	CHARACTER	RELS	ITTRELS	RELSTORE ID
4	CHARACTER	REQS	ITTREQS	REQSTORE ID
4	CHARACTER	RESM	ITTRESM	PABDISP ID IF RESUMING
4	CHARACTER	SCHD	ITTSCHD	TPSCHED ID
4	CHARACTER	SIOB	ITTSIOB	START I/O ID FOR BSCLB
4	CHARACTER	SIOH	ITTSIOH	START I/O ID FOR HALCB
4	CHARACTER	SIOI	ITTSIOI	START I/O ID FOR ICNCB
4	CHARACTER	SIOL	ITTSIOL	START I/O ID FOR LDNCB
4	CHARACTER	SIOX	ITTSIOX	START I/O ID FOR XCNCB
4	CHARACTER	SIO2	ITTSIO2	START I/O RECORD II ID
4	CHARACTER	SRBD	ITTSRBD	SRBDISP ID
4	CHARACTER	SRBX	ITTSRBX	SRBEXIT ID
4	CHARACTER	SRTA	ITTSRTA	SRT ADD TRACE IDENTIFIER
4	CHARACTER	SRTD	ITTSRTD	SRT DELETE TRACE IDENTIFIER
4	CHARACTER	SRTF	ITTSRTF	SRT FIND TRACE IDENTIFIER
3	CHARACTER	UE1	ITTUE1	USEREXIT ID
3	CHARACTER	UE2	ITTUE2	USEREXIT RECORD II ID
4	CHARACTER	ULKA	ITTULKA	UNLKALL ID
4	CHARACTER	UNLK	ITTUNLK	UNLK ID
2	CHARACTER	UP	ITTUP	USERPOST ID
4	CHARACTER	VTAL	ITTVTAL	VTALLOC ID
4	CHARACTER	VTFR	ITTVTFR	VTFREE ID
4	CHARACTER	WAIT	ITTWAIT	TPWAIT ID

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTITAPI	0		1	ISTITPM	0		1
ISTITBDP	0		1	ISTITPM2	0		1
ISTITCIO	0		1	ISTITPM3	0		1
ISTITDSP	0		1	ISTITPP	0		1
ISTITEXT	0		1	ISTITPP2	0		1
ISTITFDS	0		1	ISTITPU	0		1
ISTITFD2	0		1	ISTITPU2	0		1
ISTITFNR	0		1	ISTITQUE	0		1
ISTITFN2	0		1	ISTITRCE	0		1
ISTITFPI	0		1	ISTITRLK	0		1
ISTITFP2	0		1	ISTITSRT	0		1
ISTITGIO	0		1	ISTITSTR	0		1
ISTITHDR	0		1	ISTITUSR	0		1
ISTITIO	0		1	ISTITUXT	0		1
ISTITIO2	0		1	ISTITUX2	0		1
ISTITIO3	0		1	ISTITVTA	0		1
ISTITJMG	0		1	ISTITWQN	0		1
ISTITJM2	0		1	ISTITXIT	0		1
ISTITJOP	0		1	ISTITXOD	0		1
ISTITJO2	0		1	ISTITZAR	C		1
ISTITKAL	0		1	ISTITZER	0		1
ISTITKA2	0		1	ISTITZE2	0		1
ISTITKA3	0		1	ISTITZIN	0		1
ISTITKA4	0		1	ISTITZJ2	0		1
ISTITKNS	10		1	ISTITZSI	0		1
ISTITKN2	0		1	ISTITZS2	0		1
ISTITKRP	10		1	ITAAREA	10		2
ISTITKR2	0		1	ITAASID	4		2
ISTITLOC	0		1	ITACID	18		2
ISTITMWP	0		1	ITACODE	2		3
ISTITM2	0		1	ITAECBX	C		2
ISTITM3	0		1	ITAEXTD	3		2
ISTITM4	0		1	ITAFDBK2	1C		2
ISTITNRC	0		1	ITAFDB2	6		2
ISTITNR2	0		1	ITAFDB3	7		2
ISTITOTR	0		1	ITAIDFD	0		2
ISTITPI	0		1	ITAMID	4		4
ISTITPI2	0		1	ITAREQ	2		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ITARLEN	14		2	ITEWEA	14		3
ITARPLA	8		2	ITFASID	4		2
ITARTNCD	5		2	ITFASIDD	4		2
ITATIK	4		3	ITFASIDN	4		2
ITBANDSP	14		3	ITFCBID	5		2
ITBASID	4		2	ITFDCF	8		4
ITBFLG1	1C		2	ITFDMID	4		4
ITBFLOQ	10		3	ITFDNAME	1C		2
ITBIDFD	0		2	ITFDPIU	C		2
ITBIRBA	14		2	ITFDPIU2	4		2
ITBPSTA	8		2	ITFDREAS	5		2
ITBQUE	C		3	ITFDTSCB	8		2
ITBQUEAF	C		2	ITFFLAG	6		2
ITBTCBA	18		2	ITFIDDS1	0		2
ITCASID	4		2	ITFIDDS2	0		2
ITCCAW	14		2	ITFIDNR1	0		2
ITCCOD	15		4	ITFIDNR2	0		2
ITCCODE	6		3	ITFID1	0		2
ITCCSW	18		2	ITFID2	0		2
ITCCUA	9		2	ITFMID	4		4
ITCERACT	6		4	ITFMIDN	4		4
ITCERCOD	14		5	ITFNCBID	5		2
ITCFLAG	14		4	ITFNFLAG	6		2
ITCFLAGS	10		2	ITFNPIU1	C		2
ITCIDFD	0		2	ITFNPIU2	4		2
ITCMID	4		4	ITFNRTR	1C		2
ITCMODID	6		2	ITFNTSCB	8		2
ITCNCB	C		2	ITFOEF	4		4
ITCRCODE	15		5	ITFPIU1	C		2
ITCSENSE	16		3	ITFPIU2	4		2
ITCSTATE	5		2	ITFRH	A		3
ITCTIK	4		3	ITFRUDAT	D		3
ITCTYPE	3		2	ITFRUPEA	8		3
ITDASID	4		2	ITFSNF	6		4
ITDCBID	5		2	ITFTH	C		3
ITDDISPA	8		3	ITFTH2	4		3
ITDDVTA	18		3	ITFTIK	4		3
ITDEWEA	14		3	ITFTIKD	4		3
ITDEWEQ	14		4	ITFTIKN	4		3
ITDFLAG	6		3	ITFTSCBA	8		2
ITDIDFD	0		2	ITGCFSM	5		2
ITDISSR	10		5	ITGCUA	9		2
ITDLAST	10		3	ITGGRPCB	C		2
ITDLEVEL	7		3	ITGHALCB	10		2
ITDMID	4		4	ITGIDFD	0		2
ITDNAME	18		4	ITGPMFSM	6		2
ITDPAB	10		2	ITGPUEA	1C		3
ITDPABA	C		2	ITGPUT	14		2
ITDPABOF	6		2	ITGSHSI	7		2
ITDPSTA	8		2	ITGTIK	4		2
ITDRPHA	1C		3	ITGTYPE	3		2
ITDRWEA	14		5	ITHCTIME	0		2
ITDTIK	4		3	ITHCURR	18		2
ITDWEA	10		4	ITHLAST	1C		2
ITEAPNOP	5		2	ITHLSTWP	10		2
ITEASID	4		2	ITHPRTWP	8		2
ITEDVTA	18		3	ITIMID	4		4
ITEIDFD	0		2	ITIOARG	C		2
ITEISSR	10		3	ITIOASID	4		2
ITEMID	4		4	ITIOBND	4		3
ITENAME	18		4	ITIOCHN	14		2
ITEPAB	10		2	ITIOCNTL	15		2
ITEPABA	C		2	ITIOEXTD	5		2
ITEPABOF	6		2	ITIOFL1	12		2
ITEPSTA	8		2	ITIOFL2	13		2
ITERPHA	1C		3	ITIOIDFD	0		2
ITETIK	4		3	ITIOID2	0		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ITIOID3	0		2	ITKNSWTD	8		2
ITIONBLM	8		2	ITKPCID	8		2
ITIOOPT1	7		2	ITKPLUNM	10		2
ITIOPLUN	10		2	ITKPLUNT	10		2
ITIOPTC2	18		2	ITKRCBID	3		2
ITIOPTC3	1C		2	ITKRID	0		2
ITIOREQ	3		2	ITKRISSR	10		2
ITIORH3	10		2	ITKRPDNA	1A		2
ITIORPL	4		2	ITKRPOA	14		2
ITIORPLA	8		2	ITKRPRU	4		2
ITIORTRN	4		2	ITKRPSNS	1C		2
ITIOSLUN	18		2	ITKRSP	3	80	3
ITIOSRTY	11		2	ITKSAVEA	8		2
ITIOTIK	4		3	ITKSAVID	C		2
ITJASID	4		2	ITKSENSE	3	40	3
ITJASIDO	4		2	ITKSIB	4		2
ITJBLANK	9		2	ITKSLUNM	18		2
ITJCMAND	8		2	ITKSLUNT	18		2
ITJDATA	10		2	ITKTIK	4		3
ITJDATA2	4		2	ITLASID	4		2
ITJDEST	18		3	ITLIDFD	0		2
ITJDESTS	8		2	ITLISSR	10		2
ITJFLAG	5		2	ITLLKACT	C		2
ITJIDFD	0		2	ITLLKLEV	6		2
ITJIDFDO	0		2	ITLLKWRD	14		2
ITJIDFO2	0		2	ITLLOCKA	8		3
ITJID2	0		2	ITLMID	4		4
ITJISSR	10		3	ITLPSTA	8		2
ITJMID	4		4	ITLRPHA	1C		2
ITJMIDO	4		4	ITLTIK	4		3
ITJMSGID	C		3	ITMASID	4		2
ITJPOA	5	80	3	ITMDTA	C		2
ITJSAVEA	8		3	ITMEID	8		2
ITJSAVID	14		3	ITMEIDLN	7		2
ITJSOLIC	7		2	ITMID1	0		2
ITJTEXT	A		2	ITMID2	0		2
ITJTEXT2	4		2	ITMID3	0		2
ITJTIK	4		3	ITMID4	0		2
ITJTIKO	4		3	ITMISSR	4		2
ITKACBID	3		2	ITMLQAB	8		2
ITKASID	4		2	ITMOPC	14		2
ITKBfmt	3	02	3	ITMPOPT	7		3
ITKCBID	5		2	ITMPPEID	6	02	3
ITKCPCB	10		2	ITMPPVVI	6	01	3
ITKCPOPC	14		3	ITMPPRC	5		2
ITKCPWD3	18		3	ITMPPTP	6		2
ITKCPWD4	1C		3	ITMRU	4		2
ITKFLAGS	3		2	ITMSAVE	18		2
ITKIDFD	0		2	ITMSENSE	1C		2
ITKIDFD2	0		2	ITMTIK	4		3
ITKIDFD3	0		2	ITMURC	8		2
ITKIDFD4	0		2	ITMWEA	10		2
ITKISSR	10		3	ITNASID	4		2
ITKMID	4		4	ITNDENA	1A		2
ITKNCBID	3		2	ITNIDFLD	0		2
ITKNDTNA	1A		2	ITNID2	0		2
ITKNFMT	3	02	4	ITNISSR	4		2
ITKNID	0		2	ITNOPC	C		2
ITKNISSR	10		2	ITNORNA	14		2
ITKNPCID	8		2	ITNRUPE	8		2
ITKNSFLG	6		2	ITNSENSE	10		2
ITKNSINT	6		3	ITNTIK	4		3
ITKNSOPC	14		2	ITNURC	8		2
ITKNSRC	7		2	ITOASID	4		2
ITKNSTAT	4		2	ITOIDFD	0		2
ITKNSTRM	7		3	ITOLSTR	C		2
ITKNSTYP	18		2	ITOMID	4		4

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ITOR14	8		2	ITPPRTNC	6		2
ITOTIK	4		3	ITPPRTUN	5		2
ITPIAREA	10		2	ITPPSNSI	1C		2
ITPIASID	4		2	ITPPTIK	4		3
ITPICID	18		4	ITPUAPPL	10		3
ITPICNVD	18		2	ITPUASID	4		2
ITPIEXTD	5		2	ITPUCODE	5		2
ITPIFLGS	14		2	ITPUEXIT	4		2
ITPIIDFD	0		2	ITPUIDFD	0		2
ITPIID2	0		2	ITPUID2	0		2
ITPILLU	10		2	ITPUMID	4		4
ITPIMID	4		4	ITPUMODE	8		2
ITPIMODE	8		2	ITPUPRI	10		2
ITPIOPT1	6		2	ITPURSN	8		2
ITPIOPT6	7		2	ITPUSEC	18		2
ITPIQUAL	D		2	ITPUSUBT	8		3
ITPIREQ	C		2	ITPUTIK	4		3
ITPIRLU	18		2	ITQAPNOP	6		3
ITPIRPLA	8		2	ITQASID	4		2
ITPIRTRN	4		2	ITQCBID	3		3
ITPISNSO	1C		2	ITQDSABL	18	02	6
ITPITIK	4		3	ITQDVTA	18		3
ITPIUSR	18		3	ITQFLAG	5		3
ITPMADDR	8		2	ITQFLGS	5		2
ITPMASID	4		2	ITQFLG2	7		3
ITPMCONV	18		2	ITQIDFD	0		2
ITPMCORR	10		2	ITQISSR	10		3
ITPMDATA	8		2	ITQMID	4		4
ITPMDATL	C		2	ITQNAME	18		4
ITPMDEL	1C		3	ITQPAB	10		2
ITPMFLAG	18		2	ITQPABA	C		2
ITPMHSID	C		2	ITQPSTA	8		2
ITPMIDFD	0		2	ITQQU	0		3
ITPMID2	0		2	ITQRPHA	1C		3
ITPMID3	0		2	ITQSGATE	7	08	4
ITPMLLU	10		2	ITQSYMSK	18		5
ITPMMID	4		4	ITQTIK	4		3
ITPMMODE	8		2	ITQWEA	14		3
ITPMMUID	5		2	ITQWEQ	14		4
ITPMMUI2	5		2	ITQWGATE	7	80	4
ITPMMUI3	5		2	ITRANCHR	C		2
ITPMOVER	1C		2	ITRAREA	8		2
ITPMRAB	10		2	ITRASID	4		2
ITPMRETC	14		2	ITRCASID	4		2
ITPMRLU	18		2	ITRCDATA	1C		2
ITPMSCNT	14		2	ITRCEID	0		2
ITPMSENS	1C		2	ITRCFUNC	3		3
ITPMSLIM	16		2	ITRCIDFD	0		3
ITPMTIK	4		3	ITRCINDX	8		3
ITPPAREA	10		2	ITRCISSR	10		2
ITPPASID	4		2	ITRCMID	4		4
ITPPCNVD	18		2	ITRCMODE	7		2
ITPP ECBX	4		2	ITRCNAME	8		2
ITPPFDB2	7		2	ITRCNWNM	14		2
ITPPFLGS	14		2	ITRCOUT1	14		3
ITPPIDFD	0		2	ITRCOUT2	18		3
ITPPID2	0		2	ITRCRC	5		2
ITPPMID	4		4	ITRCTID	4		3
ITPPQUAL	D		2	ITRCTYPE	6		2
ITPPRCPR	10		2	ITRID	6		2
ITPPRCSC	12		2	ITRIDFD	0		2
ITPPRCV	E		2	ITRINIT	18		2
ITPPREQ	C		2	ITRISSR	10		2
ITPPREQ2	C		2	ITRLNG	14		2
ITPPRLN	14		2	ITRMID	4		4
ITPPRPLA	8		2	ITRRC	1C		2
ITPPRPL6	8		2	ITRTIK	4		3

Name	Hex Offset	Hex Value	Level
ITSCALLR	1C		4
ITSRASID	4		2
ITSRFUNC	3		3
ITSRIDFD	0		2
ITSRISSR	10		2
ITSRNAME	8		2
ITSRNETA	A		3
ITSRNID	18		2
ITSRRC	5		2
ITSRSRTE	14		2
ITSRTIK	4		3
ITSTASID	4		2
ITSTBUFA	C		2
ITSTBUFN	14		3
ITSTCBID	5		2
ITSTIDFD	0		2
ITSTISSR	10		2
ITSTMID	4		4
ITSTNXT	14		2
ITSTPLID	6		3
ITSTPSTA	8		2
ITSTREG1	18		2
ITSTRETC	1C		3
ITSTRPHA	1C		2
ITSTTIK	4		3
ITSTYPE	7		2
ITUASID	4		2
ITUCID	C		3
ITUCODE	5		2
ITUEXIT	4		2
ITUIDFD	0		2
ITUID2	0		2
ITULOGDL	8		4
ITUMID	4		4
ITUNSRU	8		2
ITUPRIMR	10		2
ITUREASN	8		3
ITUSCFLD	A		5
ITUSCTYP	8		5
ITUSECND	18		2
ITUSNAP	0		2
ITUTIK	4		3
ITVAREA	8		2
ITVASID	4		2
ITVIDFD	0		2
ITVINIT	18		2
ITVISSR	10		2
ITVLGTH	14		2
ITVMID	4		4
ITVRC	1C		2
ITVSPNO	C		2
ITVTIK	4		3
ITWASID	4		2
ITWCIBD	5		2
ITWIDFD	0		2
ITWISSR	10		2
ITWPSTA	8		2
ITWQEA	C		2
ITWRPHA	1C		2
ITWTIK	4		3
ITWWEA	14		2
ITXANRM	1C		3
ITXAQS	18		2
ITXASCBN	14		3
ITXASCBO	18		3
ITXASID	4		2
ITXATPP	18		3

Name	Hex Offset	Hex Value	Level
ITXCB	C		2
ITXDIDFD	0		2
ITXDPSTA	8		2
ITXFLG1	6		2
ITXIAF	10		5
ITXIDFD	0		2
ITXMID	4		3
ITXPSTA	8		2
ITXQUE	C		5
ITXQUEAF	C		3
ITXRBA	1C		2
ITXSNRM	14		3
ITXSQS	10		2
ITXSTPP	10		3
ITXTASK	C		2
ITXTCBN	C		4
ITXTCBO	10		4
ITZADDR	A		3
ITZALTAK	4		2
ITZBFLGS	7		2
ITZBPESV	2		2
ITZBUF1	1		3
ITZBUF2	6		3
ITZCCFSM	8		3
ITZCCW	0		2
ITZCFRS	10		3
ITZCFSM	B		2
ITZCMDIN	F		3
ITZCMFGS	C		4
ITZCMIO	6		2
ITZCNFSM	A		3
ITZCODES	E		4
ITZCPAD	C		3
ITZCRBUF	11		3
ITZCTLFG	B		3
ITZCUA	C		2
ITZDEVSU	3		2
ITZDEV1	1		2
ITZDVDP A	0		1
ITZDVDP B	0		1
ITZDVDP C	0		1
ITZDVDP1	C		2
ITZDVDP2	C		3
ITZDVDP6	8		2
ITZDVDP7	C		2
ITZDVDP8	8		2
ITZEFLGS	9		2
ITZEIDFD	0		2
ITZERCOD	13		3
ITZEXFCD	12		3
ITZFCFSM	B		3
ITZFCODE	15		2
ITZFSM	A		2
ITZIIDFD	0		2
ITZISOD	0		2
ITZLBR	3		2
ITZLFSM	5		2
ITZLFSM2	5		2
ITZLFSM3	5		2
ITZNRACC	E		3
ITZNSACK	D		3
ITZNSCUR	C		3
ITZOCFSM	9		3
ITZOFFST	9		3
ITZOPCD1	0		3
ITZOPCD2	5		3
ITZPACKA	F		2

Name	Hex Offset	Hex Value	Level
ITZPCFSM	A		3
ITZPUIND	8		2
ITZRCNT	5		2
ITZRCODE	8		3
ITZRLIM	8		3
ITZROPCD	B		3
ITZRSPA1	1		2
ITZRSPA2	2		2
ITZRTCT	9		3
ITZSEL1	0		2
ITZSENS	11		3
ITZSIDFD	0		2
ITZSNS	11		2
ITZSNS1	10		3
ITZS2AD	4		2
ITZTECT	5		3
ITZUNAME	F		3



**Local Device Node Control Block (LDNCB)**

<b>Function:</b>	An LDNCB represents a channel-attached non-SNA device (such as a 3270) to VTAM. It is created when the terminal is activated.  The LDNCB describes the characteristics and current state of the device. It also contains information needed to control I/O initiation and termination. This includes CCWs, and scheduling queues and parameters required to communicate with the I/O supervisor routines that perform the I/O operations.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	360 (X'168')
<b>Pointed to by:</b>	RPRNCBA (RPRE) VIT entries: ERP (CIO Error Recovery) INT (CIO Interruption) SIO (CIO Start I/O) (See <i>VTAM Diagnosis</i> for more information on the VIT entries.)
<b>Included Blocks:</b>	CCW (LDNSLCCW, LDNTICCW), NCB (LDNCB)
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for more information about related channel programs.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	360	ISTLDNCB	LOCAL DISPLAY NODE CONTROL BLOCK
0	(0)	CHARACTER	312	LDNCB	COMMON NCB HEADER
312	(138)	CHARACTER	48	LDNDEVCA	DEVICE CONTROL AREA
312	(138)	CHARACTER	8	LDNSLCCW	SELECT CCW
320	(140)	CHARACTER	8	LDNTICCW	TIC CCW
328	(148)	CHARACTER	8	LDNTICX1	TIC EXTENSION EXTENDS EIGHT BYTES BEYOND NORMAL TIC TO CONTAIN VIRTUAL ADDRESS OF BUFFER
336	(150)	ADDRESS	4	LDNACREQ	POINTER TO ACTIVE REQUEST ELEMENT
340	(154)	SIGNED	4	LDNRBLEN	READ BUFFER LENGTH
344	(158)	SIGNED	4	LDNRMLN (3)	READ MODIFIED LENGTH - FOR THE LAST THREE READ MODIFIED OPERATIONS
356	(164)	CHARACTER	1	*	FLAGS
		1... ..		LDNMSEL	MULTIPLE SELECTS ARE SUPPORTED
		.111 1111		*	NOT USED - AVAILABLE
357	(165)	CHARACTER	3	*	NOT USED - AVAILABLE
360	(168)	CHARACTER		LDNEND	END OF LDNCB

## LOCAL 3270 SENSE DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	LDNSENSE	SENSE DATA
0	(0)	BITSTRING	1	*	SENSE BYTE 1
		1... ..		LDNCMDRJ	COMMAND REJECT
		.1.. ..		LDNINTRQ	INTERVENTION REQUIRED
		..1. ....		LDNBOCHK	BUS OUT CHECK
		...1 ....		LDNEQCHK	EQUIPMENT CHECK
		.... 1..		LDNDTCHK	DATA CHECK
		.... .1..		LDNUNSPY	UNIT SPECIFY
		.... ..1.		LDNCTCHK	CONTROL CHECK
		.... ...1		LDNOPCHK	OPERATION CHECK
1	(1)	BITSTRING	1	*	SENSE BYTE 2

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTLDNCB	0		1
LDNACREQ	150		3
LDNBOCHK	0	20	3
LDNCB	0		2
LDNCMDRJ	0	80	3
LDNCTCHK	0	02	3
LDNDEVCA	138		2
LDNDTCHK	0	08	3
LDNEND	168		2
LDNEQCHK	0	10	3
LDNINTRQ	0	40	3
LDNMSEL	164	80	4
LDNOPCHK	0	01	3
LDNRBLN	154		3
LDNRMLN	158		3
LDNSENSE	0		1
LDNSLCCW	138		3
LDNTICCW	140		3
LDNTICX1	148		3
LDNUNSPY	0	04	3

## Large Message Processing Control Block (LMPCB)

<b>Function:</b>	LMPCB is the work area for processing a SEND request for a large message. It is allocated before the initial RU is allocated and is not freed until the final RU is posted.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	112 (X'70')
<b>Pointed to by:</b>	TSPLMP (TSPL)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	112	ISTLMPCB	LARGE MESSAGE PROCESSING CONTROL BLOCK	
0	(0)	BITSTRING	1	LMPCBID	CONTROL BLOCK ID	
1	(1)	UNSIGNED	1	LMPDATLN	CONTROL BLOCK LENGTH	
2	(2)	BITSTRING	1	LMPFLAG	FLAGS	
		1... ....		LMPFIRST	FIRST IN CHAIN	
		.1.. ....		LMPLAST	LAST IN CHAIN	
		..1. ....		LMPBB	BEGIN BRACKET REQUESTED	
		...1 ....		LMPEB	END BRACKET REQUESTED	
		.... 1..		LMPINIT	FIRST RU OF REQUEST	
		.... .1..		LMPFINAL	FINAL RU OF REQUEST	
		.... ..1.		LMPUDRU	'1'- INDICATES THAT THE LAST COMPLETED RU ENDED ON A USER DEFINED RU BOUNDARY	
		.... ...1		LMPBUDRU	'1'- INDICATES THAT THE CURRENT RU BEGINS A USER DEFINED RU BOUNDARY	
3	(3)	CHARACTER	1	LMPB3270	BSC 3270 FLAGS	
		1... ....		LMPPRINT	WRITE TO BSC 3270 PRINTER IN PROGRESS AND THE FIRST PIU INDICATED START PRINTING (A STAND-ALONE DISCONNECT MUST FOLLOW THE FINAL PIU SENT)	
		.111 1111		*	NOT USED - AVAILABLE	
4	(4)	ADDRESS	4	LMPRPL	ADDRESS OF RPL	
8	(8)	ADDRESS	4	LMPCURNT	ADDRESS OF CURRENT ENTRY IN THE BUFFER LIST	
12	(C)	SIGNED	4	LMPLENBL	LENGTH OF BUFFER LIST ENTRIES FOR CONTINUATION TSCB	
16	(10)	SIGNED	4	LMPDATA	DISPLACEMENT INTO CURRENT DATA BUFFER	
20	(14)	ADDRESS	4	LMPLASTE	ADDRESS OF LAST ENTRY IN BUFFER LIST	
24	(18)	CHARACTER	3	LMPRH	CURRENT REQUEST HEADER	
27	(1B)	CHARACTER	1	*	NOT USED - AVAILABLE	
28	(1C)	CHARACTER	39	LMPTSCB1	FIRST CONTINUATION TSCB	
67	(43)	CHARACTER	1	*	NOT USED - AVAILABLE	
68	(44)	CHARACTER	39	LMPTSCB2	SECOND CONTINUATION TSCB	
107	(6B)	CHARACTER	5	*	NOT USED - AVAILABLE	
112	(70)	CHARACTER		LMPEND	END OF LMP AREA	

## Constants

Len	Type	Value	Name	Description
VALUE FOR CONTROL BLOCK IDENTIFIER (LMPCBID)				
1	HEX	29	LMPCBTY	CONTROL BLOCK IS LMPCB

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTLMPCB	0		1
LMPBB	2	20	3
LMPBUDRU	2	01	3
LMPB3270	3		2
LMPCBID	0		2
LMPCURNT	8		2
LMPDATA	10		2
LMPDATLN	1		2
LMPEB	2	10	3
LMPEND	70		2
LMPFINAL	2	04	3
LMPFIRST	2	80	3
LMPFLAG	2		2
LMPINIT	2	08	3
LMPLAST	2	40	3
LMPLASTE	14		2
LMLENBL	C		2
LMPPRINT	3	80	3
LMPRH	18		2
LMRPL	4		2
LMPTSCB1	1C		2
LMPTSCB2	44		2
LMPUDRU	2	02	3

## Logon Mode Table (LOGMD)

<b>Function:</b>	LOGMD maps the header and one entry (LOGMDENT) for the logon mode table. Each entry describes the session parameters or protocols for a particular type of device.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ATCMODTB (ATCVT) - pointer to default logmode table
<b>Included Blocks:</b>	BIND (LOGSESSP).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTLOGMD	
0	(0)	CHARACTER	8	LOGHDR	HEADER
0	(0)	CHARACTER	1	LOGCBID	CONTROL BLOCK ID
1	(1)	UNSIGNED	1	LOGENTLN	LENGTH OF EACH ENTRY
2	(2)	SIGNED	2	LOGCOUNT	NUMBER OF ENTRIES
4	(4)	CHARACTER	4	*	RESERVED
8	(8)	CHARACTER	*	LOGENT	FIRST MODE ENTRY

FOLLOWING OVERLAY MAPS A SINGLE ENTRY IN THE LOGON MODE TABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	48	LOGMDENT	
0	(0)	CHARACTER	8	LOGMDID	LOGON MODE-LEFT JUSTIFIED, BLANK PADDING
8	(8)	CHARACTER	36	LOGSESSP	SESSION PARAMETERS
44	(2C)	CHARACTER	1	LOGLANG	LANGUAGE IDENTIFIER
45	(2D)	CHARACTER	1	LOGDVCD	DEVICE CODE
46	(2E)	CHARACTER	2	*	NOT USED - AVAILABLE

### Constants

Len	Type	Value	Name	Description
1	HEX	C0	LOGMDTYP	CONTROL BLOCK ID

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTLOGMD	0		1
LOGCBID	0		3
LOGCOUNT	2		3
LOGDVCD	2D		2
LOGENT	8		2
LOGENTLN	1		3
LOGHDR	0		2
LOGLANG	2C		2
LOGMDENT	0		1
LOGMDID	0		2
LOGSESSP	8		2

## Lockword Format (LOK)

<b>Function:</b>	LOK provides the current status of a lock and points to requestors waiting for that lock.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	8
<b>Pointed to by:</b>	CRA lockwords
<b>Located in:</b>	Found in the ACDEB, ATCVT, RPRE, LQAB, NCB, PAB, and VRBLK.
<b>Additional Notes:</b>	The TPLOCK and TPUNLOCK macroinstructions manipulate this work area. See <i>VTAM Diagnosis</i> for more information about VIT entries related to these macroinstructions.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTLOK	
0	(0)	ADDRESS	4	LOKCHN	POINTER TO NEXT RPH WAITING ON LOCK
4	(4)	CHARACTER	4	LOKWORD2	LOCK COUNT AND FLAGS
4	(4)	CHARACTER	1	LOKCT	COUNT OF LOCK OWNERS
5	(5)	BITSTRING	1	LOKFLGS	LOCK FLAGS
		1... ....		LOKXCL	EXCLUSIVE FLAG, 1 = ON
		.111 1111		*	RESERVED - AVAILABLE
6	(6)	CHARACTER	2	*	RESERVED - AVAILABLE

### Constants

Len	Type	Value	Name	Description
4	HEX	00800000	LOKXCL1	CONSTANT TO TURN LOKXCL ON
4	HEX	FF7FFFFFFF	LOKCHN1	CONSTANT TO TURN LOKXCL OFF
4	HEX	01000000	LOKCT1	CONSTANT TO MAKE LOKCT = 1
4	HEX	FF000000	LOKCT255	CONSTANT TO CHECK FOR MAX LOKCT (255)

## Locked Queue Anchor Block (LQAB)

<b>Function:</b>	LQAB anchors a queue of waiting request elements (WREs). The queue may be associated with a particular subarea, as are I/O LQABs, or with a subcomponent, as is the miscellaneous command LQAB.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	20 (X'14')
<b>Pointed to by:</b>	ATCLUSMQ (ATCVT) - LU services manager LQAB ATCMCQAB (ATCVT) - miscellaneous command LQAB ATCPULQB (ATCVT) - physical unit services LQAB ATCNOSQ (ATCVT) - network services LQAB ATCSSLQB (ATCVT) - miscellaneous SSCP session services LQAB
<b>Included blocks:</b>	LOK (LQABLOCK)
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for more information about wait procedures.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	ISTLQAB	LOCKED QUEUE ANCHOR BLOCK
0	(0)	ADDRESS	4	LQABFRST	POINTER TO FIRST (OLDEST) ELEMENT
4	(4)	ADDRESS	4	LQABLAST	POINTER TO LAST (NEWEST) ELEMENT
8	(8)	CHARACTER	8	LQABLOCK	QUEUE LOCK
8	(8)	ADDRESS	4	LQABOPSP	POINTER TO THE WRE AT WHICH TO START AN OPTIMIZED SEARCH FOR A SPECIAL EVENT ID (NORMALLY THIS WRE WILL BE NEAR THE END OF THE WRE CHAIN)
16	(10)	UNSIGNED	4	LQABWREC	COUNT OF WRES THAT WILL BE OVERDUE NEXT IOPD TIME

## Logical Unit Control Block (LUCB)

<b>Function:</b>	An LUCB may represent an active application program or the SSCP. It is created when OPEN ACB processing activates the program and is deleted by CLOSE ACB processing.  When the LUCB is created, its address is placed in an HNT. The LUCB anchors FMCB extensions, which represent the application program's active and pending sessions.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ACDLUCBA (ACDEB) - application LUSNXNOD (LUST) - same subarea sessions OCCLUCB TSPNXNOD (TSPL)
<b>Included Blocks:</b>	PAB (LUCPAB)
<b>Additional Notes:</b>	For more information about the SSCP or application programs, see <i>VTAM Programming</i> .

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	ISTLUCB	
THE OFFSETS OF THE FIRST 12 BYTES OF THIS MAJOR CONTROL BLOCK MUST MATCH THE OFFSETS OF THE FIRST 12 BYTES OF ISTDYPAB					
0	(0)	CHARACTER	1	LUCID	CONTROL BLOCK TYPE CODE IF BASE APPLICATION, LUCB CODE IF AUXILIARY APPLICATION, MALT CODE
1	(1)	UNSIGNED	1	LUCLNTH	LENGTH IN BYTES
2	(2)	UNSIGNED	2	LUCAPLEL	ELEMENT ADDRESS OF BASE APPLICATION OR AUXILIARY APPLICATION
4	(4)	ADDRESS	4	LUCSRUPE	ADDRESS OF SAVED RUPE USED TO GENERATE RESPONSE FOR CONFIG SERVICES WHEN LUCB IS FREED
8	(8)	ADDRESS	4	LUCTSKID	POINTER TO PST (TASK ID)
12	(C)	BITSTRING	1	LUCFLGS	COMMON FLAG BYTE
		1... ....		LUCFDEXT	EXTERNAL FDT FLAG
		.111 1111	*		NOT USED - AVAILABLE
13	(D)	UNSIGNED	1	LUCDLAYQ	NUMBER OF PIU'S QUEUED TO TSO LUCB PAB WITH DELAY OPTION ( NOT USED FOR VM )
14	(E)	CHARACTER	2	*	NOT USED - AVAILABLE
16	(10)	ADDRESS	4	LUCFDTP	POINTER TO FMCB DIRECTORY TABLE (INTERNAL OR EXTERNAL FDT)
20	(14)	UNSIGNED	2	LUCFDMAX	MAXIMUM NUMBER OF FDT ENTRIES
22	(16)	UNSIGNED	2	LUCFDCNT	CURRENT NUMBER OF NONZERO FDT ENTRIES
24	(18)	CHARACTER	*	LUCBEXT	LUCB VARIABLE-FORMAT AREA
BASE APPLICATION LUCB EXTENSION DEFINITION					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
24	(18)	STRUCTURE	56	LUCBASXT	BASE APPLICATION DATA
24	(18)	CHARACTER	1	LUCBXLFG	BASE APPLICATION FLAGS
		1... ....		LUCMULT	MULTIPLE FREESTORS REQUIRED
		.1. ....		LUCBFTRC	BUFFER TRACE ACTIVE FOR APPLICATION
		.1. ....		LUCIOTRC	I/O TRACE ACTIVE FOR APPLICATION
		...1 ....		LUCPDTRC	1 = PD TRACE ACTIVE FOR APPLICATION
		.... 1..		LUCTSO	APPLICATION IS A TSO APPLICATION
		.... .1..		LUCWTSC	Pending TSC DNR
		.... .1..		LUCWAPP	Pending APPC DNR
		.... ...1		*	RESERVED
25	(19)	CHARACTER	3	*	NOT USED - AVAILABLE
28	(1C)	ADDRESS	4	LUCRDTEA	POINTER TO APPL RDT ENTRY



Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
32	(20)	ADDRESS	4	LUCFMCBA	POINTER TO 1ST FMCB EXTENTION	
36	(24)	ADDRESS	4	LUCFMCBL	POINTER TO LAST FMCB EXTENSION	
40	(28)	CHARACTER	20	LUCPAB	PROCESS PAB	
60	(3C)	ADDRESS	4	LUCACDEB	POINTER TO ACDEB	
64	(40)	ADDRESS	4	LUCAPPCB	POINTER TO APPC CONTROL BLOCK	
68	(44)	SIGNED	4	LUCUSECT	LUCB USE COUNT	
72	(48)	ADDRESS	4	LUCFMCBP	POINTER TO THE EXTENSION FOR THE OLDEST PENDING SESSION	
76	(4C)	ADDRESS	4	*	RESERVED	
80	(50)	CHARACTER	*	LUCBIFDT	INTERNAL FDT (IF LUCFDEXT IS OFF) (MAPPED BY ISTFDT)	

AUXILIARY APPLICATION EXTENSION DEFINITION (MALT)

24	(18)	STRUCTURE	1	LUCAUXT	AUXILIARY APPLICATION DATA
24	(18)	CHARACTER	1	LUCAXFLG	AUXILIARY APPL FLAGS
		1... ....		LUCMMULT	MULTIPLE FREESTORS REQUIRED
		.1.. ....		*	NOT USED - AVAILABLE
		..1. ....		*	NOT USED - AVAILABLE
		...1 ....		*	NOT USED - AVAILABLE
		.... 1111		LUCFNA	BITS USED DURING FNA PROCESSING (FREE NETWORK ADDRESS)
		.... 1...		LUCNADLP	FNA IS WAITING FOR A NETWORK_ADDRESS_DELETE (CIDCTL) OF THE LAST NETWORK ADDRESS WITH WHICH THE TO-BE-FREED NETWORK ADDRESS IS IN SESSION
		.... .1..		LUCSSCP	RECEIVED AN FNA GENERATED BY SSCP
		.... ..1.		LUCTSCR	RECEIVED AN FNA GENERATED BY TSC
		.... ...1		LUCTSCP	FREEDING OF NETWORK ADDRESS IS PENDING AN FNA REQUEST FROM TSC
25	(19)	CHARACTER	*	LUCTIFDT	INTERNAL FDT (IF LUCFDEXT IS OFF) (MAPPED BY ISTFDT)

Constants

Len	Type	Value	Name	Description
CONSTANTS FOR TYPE AND FITE				
1	HEX	52	LUCTYPE	TYPE CODE FOR LUCB
1	HEX	4A	LUCMTYPE	TYPE CODE FOR MALT
FDT SET-UP CONSTANTS -----				
1	DECIMAL	30	LUCINTLM	INTERNAL FDT THRESHOLD
1	DECIMAL	1	LUCINTNM	INTERNAL FDT NUMBER OF ENTRIES
2	DECIMAL	509	LUCLV1NM	LEVEL1 EXTERNAL FDT NUMBER OF ENTRIES
2	DECIMAL	1021	LUCLV2NM	LEVEL2 EXTERNAL FDT NUMBER OF ENTRIES
2	DECIMAL	2039	LUCLV3NM	LEVEL3 EXTERNAL FDT NUMBER OF ENTRIES
2	DECIMAL	4093	LUCLV4NM	LEVEL4 EXTERNAL FDT NUMBER OF ENTRIES
2	DECIMAL	8179	LUCLV5NM	LEVEL5 EXTERNAL FDT NUMBER OF ENTRIES
2	DECIMAL	4000	LUCLV1LM	LEVEL1 EXTERNAL FDT THRESHOLD
2	DECIMAL	8000	LUCLV2LM	LEVEL2 EXTERNAL FDT THRESHOLD
2	DECIMAL	16000	LUCLV3LM	LEVEL3 EXTERNAL FDT THRESHOLD
2	DECIMAL	32000	LUCLV4LM	LEVEL4 EXTERNAL FDT THRESHOLD

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTLUCB	0		1
LUCACDEB	3C		2
LUCAPLEL	2		2
LUCAPPCB	40		2
LUCAUXT	18		1
LUCAXFLG	18		2
LUCBASXT	18		1
LUCBEXT	18		2
LUCBFTRC	18	40	3
LUCBIFDT	50		2
LUCBXLFG	18		2
LUCDLAYQ	D		2
LUCFDCNT	16		2
LUCFDEXT	C	80	3
LUCFDMAX	14		2
LUCFDTPPT	10		2
LUCFLGS	C		2
LUCFMCBA	20		2
LUCFMCBL	24		2
LUCFMCBP	48		2
LUCFNA	18	08	3
LUCID	0		2
LUCIOTRC	18	20	3
LUCLNTH	1		2
LUCMMULT	18	80	3
LUCMULT	18	80	3
LUCNADLP	18	08	4
LUCPAB	28		2
LUCPDTRC	18	10	3
LUCRDTEA	1C		2
LUCSRUPE	4		2
LUCSSCPR	18	04	4
LUCTIFDT	19		2
LUCTSCP	18	01	4
LUCTSCR	18	02	4
LUCTSKID	8		2
LUCTSO	18	08	3
LUCUSECT	44		2
LUCWAPP	18	02	3
LUCWTSC	18	04	3

## Logical Unit Status Table (LUST)

<b>Function:</b>	An LUST contains path control and transmission control information for a BSC 3270 device attached by a channel. For each device there is one LUST, which contains one entry for a dummy PU (which is active) and one entry for the LU attached to the dummy PU.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	NCBLUST (NCB)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ISTLUST	
0	(0)	CHARACTER	4	LUSBASE	BASE PORTION OF LUST
0	(0)	SIGNED	2	LUSNOENT	NUMBER OF LUST ENTRIES
2	(2)	SIGNED	2	LUSENTLN	LENGTH OF EACH LUST ENTRY
4	(4)	CHARACTER		LUSBEND	END OF BASE PORTION
4	(4)	CHARACTER	12	LUSPUENT	LUST ENTRY FOR THE PU
4	(4)	UNSIGNED	4	LUSSCPSA	SSCP SUBAREA ADDRESS
8	(8)	UNSIGNED	2	LUSSCPEA	SSCP ELEMENT ADDRESS
10	(A)	UNSIGNED	2	LUSPUEA	PU ELEMENT ADDRESS
12	(C)	CHARACTER	4	*	FINITE STATE MACHINES
16	(10)	CHARACTER	*	*	REST OF LUST ENTRY FOR THE PU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	LUSTNTRY	LUST ENTRY
0	(0)	UNSIGNED	4	LUSPLUSA	FOR PU - SSCP SUBAREA ADDRESS, FOR LU - PRIMARY LU SUBAREA ADDRESS
4	(4)	UNSIGNED	2	LUSPLUEA	FOR PU - SSCP ELEMENT ADDRESS, FOR LU - PRIMARY LU ELEMENT ADDRESS
6	(6)	UNSIGNED	2	LUSSLUEA	PU OR LU ELEMENT ADDRESS
8	(8)	CHARACTER	1	LUSPHYSA	PHYSICAL DEVICE ADDRESS
9	(9)	CHARACTER	2	*	FINITE STATE MACHINES
		11.. ....		LUSCPSSES	SESS_RCV FOR THE SSCP TO PU OR SSCP TO LU SESSION
		..11 ....		LUSLUSES	SESS_RCV FOR THE LU TO LU SESSION
		.... 11..		LUSLUDTR	DT_RCV FOR THE LU TO LU SESSION
		.... ..11		LUSBSM	BRACKET STATE MANAGER FIRST SPEAKER (FSM_BSM_FSP) FOR THE LU TO LU SESSION
		1... ....		LUSPRSP	PACING RESPONSE RECEIVED FROM THE PLU
		.1.. ....		LUSBBI	BRACKET IS BEING STARTED FROM THE SLU
		..1. ....		LUSIRFW	INTERVENTION REQUIRED RETURNED TO FIRST WRITE
		...1 1111		*	NOT USED - AVAILABLE
11	(B)	CHARACTER	1	*	SESSION CHARACTERISTICS
		1... ....		LUSBRUSE	BRACKETS ARE BEING USED
		.1.. ....		LUSPRNTR	THIS LU IS A PRINTER
		..1. ....		LUSPDTRC	'1' - PD TRACE IS ACTIVE
		...1 1111		*	NOT USED - AVAILABLE
12	(C)	ADDRESS	4	LUSQPAC	Q_PAC - INBOUND PACING QUEUE
16	(10)	UNSIGNED	1	LUSPACRQ	PAC_RQ_SEND - INBOUND PACING STATE (COUNT)
17	(11)	UNSIGNED	1	LUSPLIM	LIMIT VALUE FOR PAC_RQ_SEND
17	(11)	CHARACTER	1	LUSUBTYP	UNBIND TYPE CODE - VALID ONLY WHEN SESSION ENDING
18	(12)	UNSIGNED	2	LUSLUSQN	NORMAL FLOW OUTBOUND SEQUENCE NUMBER (SQN_RCV_CNT) FOR LU TO LU SESSION
20	(14)	UNSIGNED	2	LUSLUSQC	NORMAL FLOW INBOUND SEQUENCE NUMBER (SQN_SEND_CNT) FOR LU TO LU SESSION
22	(16)	UNSIGNED	2	LUSCPSQC	NORMAL FLOW INBOUND SEQUENCE NUMBER (SQN_SEND_CNT) FOR SSCP TO LU/PU SESSION

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
24	(18)	ADDRESS	4	LUSNXNOD	POINTER TO NEXT ROUTING NODE (VRBLK FOR CROSS-SUBAREA SESSIONS, LUCB FOR SAME SUBAREA SESSIONS)	
28	(1C)	SIGNED	2	LUSACTNO	VIRTUAL ROUTE ACTIVATION NUMBER	
30	(1E)	BITSTRING	1	LUSVRID	VIRTUAL ROUTE IDENTIFIER	
31	(1F)	BITSTRING	1	*	FLAG BYTE	
		1... ....		LUSSHSQ	(SSCP,LU) SESSION QUEUED	
		.1.. ....		LUSLUHSQ	(APPLICATION,LU) SESSION QUEUED	
		..1. ....		LUSVRSON	VIRTUAL ROUTE INOPERATIVE NOTIFICATION BEGUN INDICATOR (0 = UNBIND NOT SENT) (1 = UNBIND SENT)	
		...1 ....		LUSBOUND	LU_LU SESSION BOUND INDICATOR	
		.... 1...		LUSFILTR	1 = SESSION NOT TRACED 0 = SESSION TRACED	
		.... .111		*	NOT USED - AVAILABLE	
32	(20)	CHARACTER		LUSTEND	FORCE WORD ALIGNMENT	

### Constants

Len	Type	Value	Name	Description
VALUES FOR SESSION STATES (LUSCPSES AND LUSLUSES)				
0	BIT	00	LUSSEERS	RESET
0	BIT	01	LUSSEPA	PENDING ACTIVE
0	BIT	10	LUSSEPR	PENDING RESET
0	BIT	11	LUSSEAC	ACTIVE
VALUES FOR DATA TRAFFIC STATE (LUSLUDTR)				
0	BIT	00	LUSDTRS	RESET
0	BIT	10	LUSDTPR	PENDING RESET
0	BIT	11	LUSDTRC	ACTIVE
VALUES FOR BRACKET STATE (LUSBSM)				
0	BIT	00	LUSBSMB	BETWEEN BRACKETS
0	BIT	10	LUSBSMPB	PENDING BETWEEN BRACKETS
0	BIT	01	LUSBSMPI	PENDING IN BRACKET
0	BIT	11	LUSBSMI	IN BRACKET

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTLUST	0		1	LUSPLUEA	4		2
LUSACTNO	1C		2	LUSPLUSA	0		2
LUSBASE	0		2	LUSPRNTR	B	40	3
LUSBBI	A	40	3	LUSPRSPP	A	80	3
LUSBEND	4		3	LUSPUEA	A		3
LUSBOUND	1F	10	3	LUSPUENT	4		2
LUSBRUSE	B	80	3	LUSQPAC	C		2
LUSBSM	9	02	3	LUSSCPEA	8		3
LUSCPSES	9	80	3	LUSSCPSA	4		3
LUSCPSQC	16		2	LUSSLUEA	6		2
LUSENTLN	2		3	LUSSSHSQ	1F	80	3
LUSFILTR	1F	08	3	LUSTEND	20		2
LUSIRFW	A	20	3	LUSTNTRY	0		1
LUSLUDTR	9	08	3	LUSBTYP	11		3
LUSLUHSQ	1F	40	3	LUSVRID	1E		2
LUSLUSES	9	20	3	LUSVRSON	1F	20	3
LUSLUSQC	14		2				
LUSLUSQN	12		2				
LUSNOENT	0		3				
LUSNXNOD	18		2				
LUSPACRQ	10		2				
LUSPDTRC	B	20	3				
LUSPHYSA	8		2				
LUSPLIM	11		2				

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## **Multiple Address List Table for Auxiliary Network Addresses (MALT)**

<b>Function:</b>	The MALT is an LUCB overlay. See LUCB for the mapping.
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## Memory Process Schedule Table (MPST)

<b>Function:</b>	An MPST represents an application program virtual machine that has a PST. It is a control point for scheduling asynchronous functions related to an application program. For example, it is used to schedule I/O request processing, completion processing, session request completion processing, and asynchronous user exit routines.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	25 (X'19')
<b>Pointed to by:</b>	PSTMPSTP (PST) ATCMPSTQ (ATCVT)
<b>Additional Notes:</b>	For more information about application programming, see <i>VTAM Programming</i> .

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	25	ISTMPST	MEMORY PROCESS SCHEDULING TABLE
0	(0)	CHARACTER	4	MPSCBID	CONTROL BLOCK IDENTIFIER
4	(4)	ADDRESS	4	MPSCHAIN	POINTER TO NEXT MPST ON THE ATCVT QUEUE
8	(8)	UNSIGNED	2	MPSLENGTH	LENGTH OF MPST IN BYTES
10	(A)	UNSIGNED	2	MPSASID	MACHINE ID
12	(C)	ADDRESS	4	MPSPSTQ	ANCHOR FOR THE QUEUE OF PSTS FOR THE VIRTUAL MACHINE
16	(10)	CHARACTER	8	MPSUSER	USERID NAME
24	(18)	BITSTRING	1	*	RESERVED

### Constants

Len	Type	Value	Name	Description
4	CHARACTER	MPST	MPSTYPE	MPST CONTROL BLOCK ID

## Model Terminal Support (MTS)

<b>Function:</b>	MTS maps the model terminal support override data that an application specifies when the application issues a REQSESS or CLSDST PASS macroinstruction.
<b>Size in bytes:</b>	25 (X'19')
<b>Pointed to by:</b>	NIBMTSAR (NIB)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	25	ISTMTS	MTS OVERRIDE DATA	
0	(0)	UNSIGNED	1	MTSNMCNT	NUMBER OF 8-BYTE NAMES	
1	(1)	CHARACTER	24	MTSNAMES	START OF OVERRIDE NAMES	
1	(1)	CHARACTER	8	MTSMDL	MODEL NAME	
9	(9)	CHARACTER	8	MTSPR1	PRIMARY PRINTER NAME	
17	(11)	CHARACTER	8	MTSPR2	ALTERNATE PRINTER NAME	
1	(1)	STRUCTURE		MTSARRAY	ARRAY OVERLAY FOR MTS NAMES	
1	(1)	CHARACTER	8	MTSNAME (*)	MTS OVERRIDE NAME	

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	3	MTSNMMAX	UPPER-LIMIT CONSTANT MATCHING THE NUMBER OF NAMES UNDER THE MTSNAMES SUBSTRUCTURE

## Node Control Block (NCB)

<b>Function:</b>	The NCB serves as a header for the BSCLB, HALCB, ICNCB, LDNCB, PCLCB, PRWCB, TRGCB, VLNCB, XCNCB, and YCNCB.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	312 (X'138')
<b>Pointed to by:</b>	Any pointer to any of the node control blocks INNXCNCB (INNCB extension) - node in slowdown mode NCBNCBQ (NCB) - next NCB on ATCNCBQ OCCNCB (OCCRR) PUSNCBPT (PUSCB) RPRNCBA (RPRE)
<b>Included Blocks:</b>	LOK (NCBLOCK), PAB (NCBPCPSB, NCBPUPAB, NCBUFFPAB)
<b>Located in:</b>	Found in the BSCLB, HALCB, ICNCB, LDNCB, PCLCB, PRWCB, TRGCB, VLNCB, XCNCB, and YCNCB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	312	ISTNCB	
0	(0)	CHARACTER	128	NCBBASE	COMMON PORTION OF NCB
0	(0)	CHARACTER	1	NCBTYPE	CONTROL BLOCK TYPE CODE
1	(1)	UNSIGNED	1	NCBLNGTH	LENGTH OF NCB (AND BFT, IF IT EXISTS) IN DOUBLEWORDS
2	(2)	SIGNED	2	NCBLNKEA	ELEMENT ADDRESS PORTION OF THE LINK NETWORK ADDRESS
4	(4)	ADDRESS	4	NCBRDTE	POINTER TO RDT ENTRY
8	(8)	ADDRESS	4	NCBTSKID	TASK ID (POINTER TO PST)
12	(C)	UNSIGNED	1	NCBTGN	TRANSMISSION GROUP NUMBER
13	(D)	UNSIGNED	1	NCBLNKST	LINK OR LINK.STATION STATE
14	(E)	BITSTRING	1	*	FLAGS
		1... ....		*	RESERVED
		.111 1111		*	AVAILABLE
15	(F)	CHARACTER	1	*	AVAILABLE
16	(10)	SIGNED	4	NCBUSECT	USE COUNT
20	(14)	SIGNED	4	NCBADJSA	ADJACENT NODE SUBAREA NUMBER
24	(18)	SIGNED	2	NCBSTNEA	LINK STATION ELEMENT ADDRESS
26	(1A)	CHARACTER	1	NCBDCFLG	BYTE USED AS A WORK AREA BY THE MVS START I/O INTERFACE ROUTINE
27	(1B)	UNSIGNED	1	NCBNERTC	NON-ERROR RETRY COUNT
28	(1C)	UNSIGNED	4	*	RESERVED
32	(20)	UNSIGNED	4	*	RESERVED
36	(24)	ADDRESS	4	NCBTSCEA	POINTER TO DEVICE CHANNEL END APPENDAGE ROUTINE
40	(28)	ADDRESS	4	NCBDSERP	POINTER TO DEVICE ERROR RECOVERY ROUTINE
44	(2C)	ADDRESS	4	NCBNCBQ	POINTER TO NEXT NCB ON THE ATCNCBQ
48	(30)	SIGNED	4	NCBMSIZE	MAXIMUM SEGMENT SIZE THAT CAN BE PROCESSED BY THIS NODE
52	(34)	ADDRESS	4	*	RESERVED
56	(38)	CHARACTER	16	NCBPCDYP	HEADER FOR NCBPCPAB
56	(38)	CHARACTER	12	*	DYPAB HEADER
68	(44)	ADDRESS	4	NCBWORKQ	WORK QUEUE
72	(48)	CHARACTER	20	NCBPCPAB	PATH CONTROL ROUTING PAB
92	(5C)	ADDRESS	4	*	RESERVED
96	(60)	CHARACTER	24	*	RESERVED
120	(78)	CHARACTER	4	*	AVAILABLE
124	(7C)	ADDRESS	4	NCBLOCK	ADDRESS OF LOCK WORD
128	(80)	CHARACTER	132	NCBDLCIA	PATH CONTROL/DATA LINK CONTROL INTERFACE AREA
128	(80)	CHARACTER	8	NCBPENDQ	PENDING TRAFFIC QUEUE
128	(80)	ADDRESS	4	NCBPNDQH	PENDING QUEUE HEADER
132	(84)	ADDRESS	4	NCBPNDQT	PENDING QUEUE TRAILER



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
136	(88)	CHARACTER	8	NCBBUFFQ	AVAILABLE BUFFER QUEUE
136	(88)	ADDRESS	4	NCBBUFQH	READ BUFFER QUEUE HEADER
140	(8C)	SIGNED	2	NCBBUFNO	AVAILABLE BUFFER COUNT
142	(8E)	SIGNED	2	NCBBUFRQ	REQUIRED BUFFER COUNT
144	(90)	CHARACTER	20	NCBPUPAB	PHYSICAL BUFFER SERVICES TO DATA LINK CONTROL INTERFACE PAB
164	(A4)	ADDRESS	4	NCBUFRPH	POINTER TO UTILITY FUNCTION PROCESSOR'S RPH
168	(A8)	CHARACTER	20	NCBUFFPAB	DATA LINK CONTROL UTILITY FUNCTION PAB
188	(BC)	ADDRESS	4	NCBCAW	CHANNEL ADDRESS WORD
192	(C0)	CHARACTER	8	NCBESTAT	CHANNEL ENDING STATUS
192	(C0)	CHARACTER	8	NCBCSW	CHANNEL STATUS WORD
200	(C8)	BITSTRING	1	NCBCKEY	CHANNEL PROGRAM PROTECTION KEY
201	(C9)	CHARACTER	3	*	AVAILABLE
204	(CC)	CHARACTER	2	NCBSNSE	SENSE DATA AREA
204	(CC)	CHARACTER	1	NCBSNS1	1ST BYTE OF SENSE
205	(CD)	CHARACTER	1	NCBSNS2	2ND BYTE OF SENSE
206	(CE)	UNSIGNED	2	NCBSIOCT	START I/O COUNTER
208	(D0)	CHARACTER	4	NCBFLAGS	FLAG BYTES
208	(D0)	CHARACTER	1	NCBDSFLG	DEVICE STATUS
		1... ..		NCBBUSYF	DEVICE IS BUSY
		.1.. ..		NCBCEALK	CHANNEL END APPENDAGE LOCK - THIS FLAG IS USED IN MVS TO PREVENT THE ATTENTION ROUTINE FROM PROCESSING AN I/O INTERRUPT WHILE THE I/O SUPERVISOR IS TRANSFERRING CONTROL BETWEEN THE CHANNEL END APPENDAGE AND THE PGAD
		..1. ....		NCBRDREQ	READ REQUIRED
		...1 ....		NCBWRREQ	WRITE REQUIRED
		.... 1...		NCBRHELD	HALF SESSION IS HELD
		.... .1..		NCBSLOW	SLOWDOWN MODE
		.... ..1.		NCBIGNDE	IGNORE DEVICE END - THIS FLAG IS USED TO IGNORE AN ASYNCHRONOUS DEVICE END AFTER A UNIT EXCEPTION (FOR LOCAL NON-SNA 3270S)
209	(D1)	CHARACTER	1	NCBCKFLW	VIRTUAL ROUTE FLOW CONTROL CHECK IS REQUIRED
		1... ..		NCBUFLG	UTILITY FLAGS
		.1.. ....		NCBASYN	ASYNCHRONOUS INTERRUPT OCCURRED WHILE PUS I/O WAS ACTIVE
		..1. ....		NCBUIOEM	I/O ERROR MESSAGE
		...1 ....		NCBUDEL	DELAYED READ REQUIRED
		.... 1...		NCBURQCN	REQUEST CONNECTION
		.... .1..		NCBIOTRC	I/O TRACE ACTIVE FOR THIS NODE
		.... ..1.		NCBSIOCO	START I/O COUNTER OVERFLOW INDICATOR
		.... ...1		NCBRESET	HALT I/O IS REQUIRED
210	(D2)	CHARACTER	1	NCBPURGE	HALT I/O ISSUED
		1... ..		NCBCEFLG	CHANNEL END APPENDAGE FLAGS
		.1.. ....		NCBERP	ERP IN PROGRESS
		..1. ....		NCBERROR	CHANNEL END APPENDAGE ENTERED FOR ERROR RETRY
		...1 ....		NCBPOSTF	CHANNEL END APPENDAGE ENTERED FOR PERMANENT ERROR
		.... 1...		NCBEXAIC	ATTENTION INTERCEPT CONDITION IN PROGRESS
		.... .1..		NCBEXAIL	ATTENTION INTERCEPT LOGGING IN PROGRESS
		.... ..1.		NCBEXSNO	SHOULD NOT OCCUR CONDITION DETECTED
		.... ...1		NCBEXSDA	SYSGENS DO NOT AGREE CONDITION DETECTED
		.... ..1.		NCBDEFER	DEFERRED STATUS INTERRUPT. THE CSW STATUS IS NOT TO BE SET IN NCBCSW BUT IS TO BE LEFT FROM A PREVIOUS I/O OPERATION
211	(D3)	CHARACTER	1	*	MISCELLANEOUS FLAGS
		1... ..		NCBPOLL	POLLING IN PROGRESS
		.1.. ....		NCBVIRT	VIRTUAL MACHINE
		..1. ....		NCBINNSQ	INN TRAFFIC IS WAITING FOR THIS NODE TO EXIT SLOWDOWN
		...1 ....		NCBOENA	ENA CAPABLE FLAG 0 = ENA CAPABLE 1 = NOT ENA CAPABLE
		.... 1...		NCBLINOP	LINK INOPERATIVE DETECTED (USED ONLY BY ICA MODULES)
		.... .1..		NCBSINOP	STATION INOPERATIVE DETECTED (USED ONLY BY ICA MODULES)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ..1.		NCBCLREC	CLOSEDOWN RECORDING IN PROGRESS (USED ONLY BY ICA MODULES)
		.... ...1		NCBUDACT	DACTLINK IN PROGRESS (USED ONLY BY ICA MODULES)
212	(D4)	UNSIGNED	1	NCBTECT	TEMPORARY ERROR COUNTER (THIS COUNTER IS INCREMENTED EACH TIME AN I/O OPERATION HAS BEEN SUCCESSFULLY RETRIED. IT IS CLEARED WHEN OBR RECORDING IS DONE.)
213	(D5)	UNSIGNED	1	NCBCRCT	CURRENT ERROR COUNTER (THIS COUNTER IS INCREMENTED EACH TIME AN I/O OPERATION IS RETRIED. IT IS CLEARED WHEN ERROR RECOVERY HAS BEEN COMPLETED.)
214	(D6)	CHARACTER	1	*	MISCELLANEOUS FLAGS
		1... ....		NCBIPRRQ	ISOLATED PACING RESPONSE (IPR) REQUIRED FOR AT LEAST ONE LU_LU SESSION
		.1. ....		NCBMIH	MISSING INTERRUPT CHECK PROCEDURE IN PROGRESS
		..1. ....		NCBPOTRC	PROBLEM DETERMINATION TRACE IS REQUIRED
		...1 ....		NCBPINTP	PRIOR INTERRUPT PENDING
		.... 1..		NCBRNATT	BUFFER ALLOCATED SUCCESSFULLY
		.... .1..		NCBPHS3	NCP PHASE 3 IPL ENTERED
		.... ..1.		NCBIOMSG	8811/8821 REQUESTED BY CEA
		.... ...1		NCBESA	ESA CAPABLE FLAG (1 = ESA CAPABLE 0 = NOT ESA CAPABLE)
215	(D7)	BITSTRING	1	NCBERCOD	RETURNED ERROR CODE FOR MESSAGE WRITER
216	(D8)	ADDRESS	4	NCBBFT	POINTER TO BOUNDARY FUNCTION TABLE
216	(D8)	ADDRESS	4	NCBLUST	POINTER TO LOGICAL UNIT STATUS TABLE
220	(DC)	ADDRESS	4	NCBHRUPE	RUPE HOLD QUEUE - RUPES WHICH HAVE NOT YET BEEN PROCESSED
224	(E0)	ADDRESS	4	NCBWRUPE	RUPE WAIT QUEUE - RUPES WHICH ARE WAITING FOR A RESPONSE
228	(E4)	ADDRESS	4	NCBPUREQ	POINTER TO ACTIVE PIUS I/O REQUEST BLOCK
232	(E8)	ADDRESS	4	NCBSENDQ	POINTER TO A QUEUE OF TSCBS TO BE WRITTEN. FOR CHANNEL TO CHANNEL, THIS IS THE QUEUE HEADER FOR THE BUFFERS BEING WRITTEN. FOR LOCAL 3270, THIS FIELD IS ALSO DEFINED AS LDNACREQ, AND IS A POINTER TO THE SINGLE TSCB WHICH IS BEING READ OR WRITTEN
236	(EC)	CHARACTER	4	NCBUNAME	CONTROL UNIT ADDRESS (IN EBCDIC)
240	(F0)	UNSIGNED	4	NCBCLOCK	BITS 16-47 OF THE TIME OF DAY CLOCK AT THE BEGINNING OF THE LAST TIMED INTERVAL
244	(F4)	UNSIGNED	4	NCBMWRDT	MAXIMUM WRITE DELAY TIME INTERVAL
248	(F8)	ADDRESS	4	NCBCNRPH	POINTER TO CLEAN UP NCB PROCESSOR'S RPH
252	(FC)	SIGNED	2	NCBNPIUS	NUMBER OF PIUS SENT IN THE LAST TIMED INTERVAL
254	(FE)	SIGNED	2	NCBQDPH	NUMBER OF TSCBS ON THE PENDING TRAFFIC QUEUE
256	(100)	SIGNED	2	NCBQDSIO	MAXIMUM NUMBER OF TSCBS TO BE KEPT ON THE PENDING TRAFFIC QUEUE UNTILL THE CHANNEL PROGRAM IS BUILT AND SCHEDULED
258	(102)	UNSIGNED	1	NCBERPIX	ORIGINAL VALUE OF UCBETI
259	(103)	UNSIGNED	1	NCBATNIX	ORIGINAL VALUE OF UCBATI
260	(104)	ADDRESS	4	*	RESERVED
264	(108)	CHARACTER	40	NCBSYSUA	SYSTEM UNIQUE AREA
304	(130)	ADDRESS	4	NCBPUT	ADDRESS OF THE PUT FOR X21
308	(134)	ADDRESS	4	NCBCHPGA	CHANNEL PROGRAM ADDRESS
312	(138)	CHARACTER		NCBEND	END OF NCB, ROUNDED UP TO THE NEXT DOUBLE WORD

VM/VTAM UNIQUE DEFINITIONS

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
264	(108)	STRUCTURE	40	NCBVMUA	VM/VTAM UNIQUE WORK AREA
264	(108)	CHARACTER	16	NCBICB	INTERRUPT CONTROL BLOCK
280	(118)	CHARACTER	16	NCBERPWA	ERROR RECOVERY PROCEDURE WORK AREA
280	(118)	CHARACTER	1	NCBICODE	ORIGINAL FAILING OPERATION CODE
281	(119)	CHARACTER	1	*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
282	(11A)	CHARACTER	2	NCBISENS	ORIGINAL FAILING SENSE DATA
284	(11C)	CHARACTER	12	*	NOT USED - AVAILABLE
296	(128)	ADDRESS	4	NCBIOB	POINTER TO APUNS IOB
300	(12C)	BITSTRING	1	NCBVSI	VM STATUS INDICATORS
		1... ....		NCBRIO	DEVICE IS CAPABLE OF USING REAL I/O CHANNEL PROGRAMS
		.1.. ....		*	RESERVED
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1111		*	NOT USED - AVAILABLE
301	(12D)	CHARACTER	1	*	NOT USED - AVAILABLE
302	(12E)	SIGNED	2	NCBCUA	BINARY CONTROL UNIT ADDRESS

DOS UNIQUE DEFINITIONS

264	(108)	STRUCTURE	40	NCBDOSUA	DOS/VTAM UNIQUE WORK AREA
264	(108)	CHARACTER	8	NCBCSWSV	SAVE AREA FOR CSW
272	(110)	CHARACTER	12	NCBSPACE	DEVICE DEPENDENT AREA
284	(11C)	BITSTRING	1	NCBRCODE	RETURN CODE
285	(11D)	BITSTRING	1	NCBERACT	ACTION CODE
286	(11E)	CHARACTER	2	*	AVAILABLE
288	(120)	CHARACTER	16	NCBCCB	CHANNEL COMMAND CONTROL BLOCK

Constants

Len	Type	Value	Name	Description
2	HEX	FFFF	NCBSIOMX	MAXIMUM VALUE FOR THE START I/O COUNTER

VALUES FOR CONTROL BLOCK TYPE (NCBTYPE)

1	HEX	FE	XCTYPE	TYPE CODE FOR XCNCB
1	HEX	06	ICTYPE	TYPE CODE FOR ICNCB
1	HEX	07	LDTYPE	TYPE CODE FOR LDNCB
1	HEX	09	HATYPE	TYPE CODE FOR HALCB
1	HEX	0A	BSCTYPE	TYPE CODE FOR BSCLB
1	HEX	0B	VLNTYPE	TYPE CODE FOR VLNCB
1	HEX	0C	PCLTYPE	TYPE CODE FOR PCLCB
1	HEX	0D	PRWTYPE	TYPE CODE FOR PRWCB
1	HEX	CA	GPTYPE	TYPE CODE FOR GRPCB
1	HEX	0E	TRGTYPE	type code for TRGCB

VALUES FOR LINK.STATION STATE (NCBLNKST)

1	HEX	00	NCBLRST	RESET
1	HEX	01	NCBLSP	SENSE.PENDING
1	HEX	02	NCBLWXP	WXID.PENDING
1	HEX	03	NCBLXP	XID.PENDING
1	HEX	04	NCBLCP	CONTACT.PENDING OR ACTLINK.PENDING
1	HEX	05	NCBLCON	CONTACTED AND ACTIVE
1	HEX	06	NCBLDP	DISCONTACT.PENDING OR DACTLINK.PENDING
1	HEX	07	NCBLCNNA	CONTACTED BUT NOT ACTIVE
1	HEX	87	NCBLPD	DISCONTACT.RESPONSE.PENDING. FOR.DISCONTACT OR NOP.RESPONSE.PENDING. FOR.DACTLINK
1	HEX	C8	NCBLOPD	OBR.PENDING.FOR.DISCONTACT OR OBR.PENDING.FOR.DACTLINK
1	HEX	C9	NCBLOSI	OBR.PENDING.FOR.INOPERATIVE. STATION
1	HEX	CA	NCBLOLI	OBR.PENDING.FOR.INOPERATIVE. LINK
1	HEX	8B	NCBLPC2	DISCONTACT.RESPONSE.PENDING. FOR.CONTACTED.02
1	HEX	CC	NCBLOC2	OBR.PENDING.FOR.CONTACTED.02
1	HEX	8D	NCBLPC3	DISCONTACT.RESPONSE.PENDING. FOR.CONTACTED.03
1	HEX	CE	NCBLOC3	OBR.PENDING.FOR.CONTACTED.03
1	HEX	8F	NCBLPC5	DISCONTACT.RESPONSE.PENDING. FOR.CONTACTED.05
1	HEX	D0	NCBLOC5	OBR.PENDING.FOR.CONTACTED.05
1	HEX	11	NCBLLODP	LOAD.PENDING
1	HEX	92	NCBLNLD	NOP.RESPONSE.PENDING.FOR.LOAD
1	HEX	D3	NCBLLOD	OBR.PENDING.FOR.LOAD

Len	Type	Value	Name	Description
1	HEX	14	NCBLLD	LOADING
1	HEX	15	NCBLDUP	DUMP.PENDING
1	HEX	96	NCBLNDU	NOP.RESPONSE.PENDING.FOR.DUMP
1	HEX	D7	NCBLODU	OBR.PENDING.FOR.DUMP
1	HEX	18	NCBLDU	DUMPING
1	HEX	99	NCBLPC8	DISC.RSP.PEND.FOR.CONT.08
1	HEX	DA	NCBLOC8	OBR.PEND.FOR.CONT.08
1	HEX	DB	NCBLOPAD	OBR.PEND.FOR ASYNCHRONOUS DEVICE.END
1	HEX	80	NCBLDPL	MINIMUM VALUE FOR DISCONTACT.RESPONSE.PENDING.X OR DACTLINK.RESPONSE.PENDING.X STATE
1	HEX	BF	NCBLDPH	MAXIMUM VALUE FOR DISCONTACT.RESPONSE.PENDING.X OR DACTLINK.RESPONSE.PENDING.X STATE
1	HEX	C0	NCBLOPL	MINIMUM VALUE FOR OBR.PENDING.X STATE
1	HEX	FF	NCBLOPH	MAXIMUM VALUE FOR OBR.PENDING.X STATE
1	HEX	41	NCBLDPO	VALUE WHICH CAN BE ADDED TO THE LINK.STATION STATE TO CONVERT FROM DISCONTACT.RESPONSE.PENDING.X STATE TO OBR.PENDING.X STATE
4	DECIMAL	0	NCBRCNCP	NO CHANNEL PROGRAM GENERATED
4	DECIMAL	0	NCBRCAOK	SUCCESSFUL RETRY OF A CHANNEL PROGRAM
4	DECIMAL	4	NCBRCCPA	CHANNEL PROGRAM AVAILABLE
4	DECIMAL	8	NCBRCEP	ERPS REQUIRED
4	DECIMAL	12	NCBRCSPU	SCHEDULE PUS/DLC INTERFACE PAB
4	DECIMAL	16	NCBRCELL	DEVICE IS SICK, GOING INOPERATIVE

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTNCB	0		1	NCBERPWA	118		2
NCBADJSA	14		3	NCBERROR	D2	40	5
NCBASYNC	D1	80	5	NCBESA	D6	01	4
NCBATNIX	103		3	NCBESTAT	C0		3
NCBBASE	0		2	NCBEXAIC	D2	10	5
NCBBFT	D8		3	NCBEXAIL	D2	08	5
NCBBUFFQ	88		3	NCBEXSDA	D2	02	5
NCBBUFNO	8C		4	NCBEXSNO	D2	04	5
NCBBUFQH	88		4	NCBFLAGS	D0		3
NCBBUFRQ	8E		4	NCBHRUPE	DC		3
NCBBUSYF	D0	80	5	NCBICB	108		2
NCBCAW	BC		3	NCBICODE	118		3
NCBCCB	120		2	NCBIGNDE	D0	02	5
NCBCEALK	D0	40	5	NCBINNSQ	D3	20	5
NCBCEFLG	D2		4	NCBIOB	128		2
NCBCHPGA	134		2	NCBIOMSG	D6	02	4
NCBCKEY	C8		3	NCBIOTRC	D1	08	5
NCBCKFLW	D0	01	5	NCBIPRRQ	D6	80	4
NCBCLOCK	F0		3	NCBISENS	11A		3
NCBCLREC	D3	02	5	NCBLINOP	D3	08	5
NCBCNRPH	F8		3	NCBLNGTH	1		3
NCBCRCT	D5		3	NCBLNKEA	2		3
NCBCSW	C0		4	NCBLNKST	D		3
NCBCSWSV	108		2	NCBLOCK	7C		3
NCBCUA	12E		2	NCBLUST	D8		4
NCBDCFLG	1A		3	NCBMIH	D6	40	4
NCBDEFER	D2	01	5	NCBMSIZE	30		3
NCBDLCIA	80		2	NCBMWRDT	F4		3
NCBDOSUA	108		1	NCBNCBQ	2C		3
NCBDSERP	28		3	NCBNERTC	1B		3
NCBDSFLG	D0		4	NCBNPIUS	FC		3
NCBEND	138		2	NCBOENA	D3	10	5
NCBERACT	11D		2	NCBPCDYP	38		3
NCBERCOD	D7		3	NCBPCPAB	48		3
NCBERP	D2	80	5	NCBPDTRC	D6	20	4
NCBERPIX	102		3	NCBPENDQ	80		3

Name	Hex Offset	Hex Value	Level
NCBPHS3	D6	04	4
NCBPINTP	D6	10	4
NCBPNDQH	80		4
NCBPNDQT	84		4
NCBPOLL	D3	80	5
NCBPOSTF	D2	20	5
NCBPUPAB	90		3
NCBPUREQ	E4		3
NCBPURGE	D1	01	5
NCBPUT	130		2
NCBQDPH	FE		3
NCBQDSIO	100		3
NCBRCODE	11C		2
NCBRDREQ	D0	20	5
NCBRDTE	4		3
NCBRESET	D1	02	5
NCBRHELD	D0	08	5
NCBRIO	12C	80	3
NCBRNATT	D6	08	4
NCBSENDQ	E8		3
NCBSENSE	CC		3
NCBSINOP	D3	04	5
NCBSIOCO	D1	04	5
NCBSIOCT	CE		3
NCBSLOW	D0	04	5
NCBSNS1	CC		4
NCBSNS2	CD		4
NCBSPACE	110		2
NCBSTNEA	18		3
NCBSYSUA	108		2
NCBTCT	D4		3
NCBTGN	C		3
NCBTSCEA	24		3
NCBTSKID	8		3
NCBTYP	0		3
NCBUDACT	D3	01	5
NCBUDEL	D1	20	5
NCBUFFLG	D1		4
NCBUFPAB	A8		3
NCBUFRPH	A4		3
NCBUIOEM	D1	40	5
NCBUNAME	EC		3
NCBURQCN	D1	10	5
NCBUSECT	10		3
NCBVIRT	D3	40	5
NCBVMUA	108		1
NCBVS	12C		2
NCBWORKQ	44		4
NCBWRREQ	D0	10	5
NCBWRUPE	E0		3

## NCP Response Codes (NCPRC)

<b>Function:</b>	NCPRC contains the NCP response codes returned to the host in the BTU (BTUSYSTR and BTUEXTR).
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	2

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	NCPRESP	
0	(0)	CHARACTER	1	NCPGRES	SYSTEM RESPONSE BYTE
		1... ....		NCPGERR	ERROR INDICATOR 0=NORMAL RESPONSE 1=ERROR RESPONSE
		.11. ....		NCPPHASE	PHASE TO WHICH THE RESPONSE APPLIES
		...1 1111		NCPYSR	SYSTEM RESPONSE CODE
1	(1)	CHARACTER	1	NCPGRES	EXTENDED RESPONSE BYTE
		111. ....		NCPEINIT	INITIAL STATUS OF THE LINE
		...1 111.		NCPEFINL	FINAL STATUS OF THE LINE
		.... ...1		NCPELGR	LEADING GRAPHICS FLAG

### Constants

Len	Type	Value	Name	Description
VALUES OF SYSTEM RESPONSE BYTE (NCPGRES) FOR PHASE 0 ERROR RESPONSES				
1	HEX	81	NCP0ERID	INVALID RESOURCE ID
1	HEX	82	NCP0ECMD	INVALID COMMAND
1	HEX	83	NCP0EMOD	INVALID MODIFIER
1	HEX	84	NCP0ERIP	RESET OR DEACTIVATE IN PROGRESS
1	HEX	85	NCP0EDIN	DEVICE INACTIVE
1	HEX	86	NCP0ELIN	LINE INACTIVE
1	HEX	87	NCP0ECNV	COMMAND NOT VALID FOR RESOURCE
1	HEX	88	NCP0ECSE	COMMAND SYNTAX ERROR
1	HEX	89	NCP0EREJ	COMMAND REJECTED, DID NOT CONFORM TO BSC SPECIFICATIONS
1	HEX	8A	NCP0ELEN	INVALID CONTROL DATA LENGTH
1	HEX	8B	NCP0ERNP	RESET NOT PERFORMED
1	HEX	8C	NCP0EDNR	DATA NOT RESIDENT IN STORAGE
1	HEX	8D	NCP0EDQL	DIAL SET QUEUE LIMIT REACHED
1	HEX	8E	NCP0ECOM	LINE AND DEVICE INCOMPATIBILITY ON SWITCHED CALL-OUT
1	HEX	8F	NCP0ETXL	INVALID TEXT LENGTH
1	HEX	91	NCP0EICD	INVALID CONTROL DATA
1	HEX	92	NCP0EINC	INCOMPLETE BTU
1	HEX	93	NCP0EORD	DEACTIVATE LINE ORDERLY OR DEACTIVATE DEVICE COMMAND REJECTED BECAUSE OF ERROR ON ONE OR MORE OF THE DEVICES
1	HEX	94	NCP0EUSE	DATA IN USE
1	HEX	95	NCP0ECTL	INVALID CONTROL COMMAND MODIFIER OR CONTROL COMMAND NOT VALID FOR RESOURCE
1	HEX	96	NCP0EOLT	OLTT COMMAND REJECTED, QUEUE NOT EMPTY
1	HEX	97	NCP0EOAC	OLT ACTIVE, NON-OLT COMMAND REJECTED
1	HEX	98	NCP0EMDR	MULTIPLE DIAL REQUESTS
1	HEX	99	NCP0EMDI	MODE INCONSISTENCY
1	HEX	9A	NCP0EBUF	BUFFERS REQUIRED TO COMPLETE THE OPERATION ARE NOT AVAILABLE, SYSTEM IN SLOWDOWN MODE
1	HEX	9B	NCP0EANS	COMMAND REJECTED, SYSTEM IN AUTO NETWORK SHUTDOWN
1	HEX	9C	NCP0EELS	COMMAND REJECTED, ERROR LOCK SET

Len	Type	Value	Name	Description
1	HEX	9D	NCP0ENOP	COMMAND REJECTED, SECONDARY CHANNEL ADAPTER NOT OPERATIVE, OR SSA REJECTED DUE TO CURRENT STATE
1	HEX	9E	NCP0ECRS	COMMAND REJECTED, LINE DEACTIVATED OR COMMAND RESET
1	HEX	FF	NCP0EINA	COMMAND REJECTED, INVALID NETWORK ADDRESS
VALUES OF SYSTEM RESPONSE BYTE (NCPRES) FOR PHASE 0 UNSOLICITED RESPONSES				
1	HEX	00	NCP0UINV	INVALID BIT CONFIGURATION
1	HEX	01	NCP0UATO	ATTENTION TIME-OUT OR UNRECOVERABLE ERROR ON CURRENT PRIMARY CHANNEL ADAPTER
1	HEX	03	NCP0UDAC	DEVICE ASSOCIATION COMPLETED
1	HEX	04	NCP0UMDI	MTA DEVICE IDENTIFIED
1	HEX	05	NCP0UPRI	CHANNEL ADAPTER SET TO PRIMARY MODE
1	HEX	06	NCP0USEC	CHANNEL ADAPTER SET TO SECONDARY MODE
1	HEX	07	NCP0UESS	ENTERING SYSTEM SLOWDOWN
1	HEX	08	NCP0ULSS	LEAVING SYSTEM SLOWDOWN
1	HEX	09	NCP0UINC	INITIALIZATION COMPLETE
1	HEX	0A	NCP0UMDR	MDR RECORDS ACCOMPANY THE BTU
1	HEX	1B	NCP0UANT	AUTO NETWORK SHUTDOWN INITIATED VIA CHANNEL TIME-OUT OR CHANNEL ADAPTER FAILURE
1	HEX	1C	NCP0UANP	AUTO NETWORK SHUTDOWN INITIATED VIA PANEL
1	HEX	1D	NCP0UNSD	NETWORK SHUTDOWN VIA AUTO NETWORK SHUT-DOWN
1	HEX	1E	NCP0ULOG	SERVICEABILITY AID - HOST LOGGING
1	HEX	FF	NCP0UPEA	PRE ENA ADDRESS RECEIVED BY ENA NCP WHOSE MAXSA VALUE WAS GENNED AS 0
VALUES OF SYSTEM RESPONSE BYTE (NCPRES) FOR PHASE 1 ERROR RESPONSES				
1	HEX	A0	NCP1ECHK	DATA CHECK
1	HEX	A1	NCP1EPIR	POSSIBLE INTERVENTION REQUIRED
1	HEX	A2	NCP1EIRQ	INTERVENTION REQUIRED
1	HEX	A3	NCP1EWAT	NEGATIVE POLL LIMIT REACHED- WAIT OPTION
1	HEX	A4	NCP1EYTC	YIELDED TO CONTENTION
1	HEX	A5	NCP1EBSP	DEVICE ERROR - BSC STATUS PENDING
1	HEX	A6	NCP1EIDE	BSC ID ERROR
1	HEX	A7	NCP1ELTT	LINE TRACE TERMINATED DUE TO ERROR
1	HEX	A8	NCP1EOLT	OLTT COMMAND OR RESET OLTT CONTROL COMMAND PROCESSING TERMINATED
1	HEX	A9	NCP1ESNS	SESSION NOT STARTED DUE TO HARDWARE ERROR
1	HEX	AA	NCP1EESM	BSC ERROR STATUS MESSAGE
1	HEX	AB	NCP1EGPA	GENERAL POLL OPERATION ABORTED DUE TO ERROR
1	HEX	AC	NCP1EFAN	FANOUT BACKUP LIMIT EXCEEDED
1	HEX	B3	NCP1EBRK	BREAK RECEIVED ON THIS BLOCK
1	HEX	B8	NCP1ECRJ	CONTACT REJECTED - SESSION STARTED
1	HEX	B9	NCP1EDDI	DIAL DATA INCONSISTENCY
1	HEX	BA	NCP1EBNA	BUFFERS REQUIRED TO COMPLETE OPERATION ARE NOT AVAILABLE
1	HEX	BE	NCP1ECRS	COMMAND REJECTED, LINE DEACTIVATED OR COMMAND RESET
VALUES OF SYSTEM RESPONSE BYTE (NCPRES) FOR PHASE 2 ERROR RESPONSES				
1	HEX	C0	NCP2ECHK	DATA CHECK
1	HEX	C1	NCP2EPIR	POSSIBLE INTERVENTION REQUIRED
1	HEX	C2	NCP2EIRQ	INTERVENTION REQUIRED
1	HEX	C3	NCP2EWAT	NEGATIVE POLL LIMIT REACHED- WAIT OPTION
1	HEX	C4	NCP2EYTC	YIELDED TO CONTENTION
1	HEX	C5	NCP2EBSP	DEVICE ERROR - BSC STATUS PENDING
1	HEX	C6	NCP2EIDE	BSC ID ERROR
1	HEX	C7	NCP2ELTT	LINE TRACE TERMINATED DUE TO ERROR
1	HEX	C8	NCP2EOLT	OLTT COMMAND OR RESET OLTT CONTROL COMMAND PROCESSING TERMINATED
1	HEX	C9	NCP2ESNS	SESSION NOT STARTED DUE TO HARDWARE ERROR
1	HEX	CA	NCP2EESM	BSC ERROR STATUS MESSAGE

Len	Type	Value	Name	Description
1	HEX	CB	NCP2EGPA	GENERAL POLL OPERATION ABORTED DUE TO ERROR
1	HEX	D3	NCP2EBRK	BREAK RECEIVED ON THIS BLOCK
1	HEX	D8	NCP2ECRJ	CONTACT REJECTED - SESSION STARTED
1	HEX	D9	NCP2EDDI	DIAL DATA INCONSISTENCY
1	HEX	DA	NCP2EBNA	BUFFERS REQUIRED TO COMPLETE OPERATION ARE NOT AVAILABLE
1	HEX	DE	NCP2ECRS	COMMAND REJECTED, LINE DEACTIVATED OR COMMAND RESET

VALUES OF SYSTEM RESPONSE BYTE (NCPRES) FOR PHASE 3 ERROR RESPONSES

1	HEX	E0	NCP3ECHK	DATA CHECK
1	HEX	E1	NCP3EPIR	POSSIBLE INTERVENTION REQUIRED
1	HEX	E2	NCP3EIRQ	INTERVENTION REQUIRED
1	HEX	E3	NCP3EWAT	NEGATIVE POLL LIMIT REACHED- WAIT OPTION
1	HEX	E4	NCP3EYTC	YIELDED TO CONTENTION
1	HEX	E5	NCP3EBSP	DEVICE ERROR - BSC STATUS PENDING
1	HEX	E6	NCP3EIDE	BSC ID ERROR
1	HEX	E7	NCP3ELTT	LINE TRACE TERMINATED DUE TO ERROR
1	HEX	E8	NCP3EOLT	OLTT COMMAND OR RESET OLTT CONTROL
1	HEX	E9	NCP3ESNS	COMMAND PROCESSING TERMINATED
1	HEX	EA	NCP3EESM	SESSION NOT STARTED DUE TO HARDWARE ERROR
1	HEX	EB	NCP3EGPA	BSC ERROR STATUS MESSAGE
1	HEX	EC	NCP3EDIS	GENERAL POLL OPERATION ABORTED DUE TO ERROR
1	HEX	F3	NCP3EBRK	DISCONNECTED
1	HEX	F8	NCP3ECRJ	BREAK RECEIVED ON THIS BLOCK
1	HEX	F9	NCP3EDDI	CONTACT REJECTED - SESSION STARTED
1	HEX	FA	NCP3EBNA	DIAL DATA INCONSISTENCY
1	HEX	FE	NCP3ECRS	BUFFERS REQUIRED TO COMPLETE OPERATION ARE NOT AVAILABLE
1	HEX	FE	NCP3ECRS	COMMAND REJECTED, LINE DEACTIVATED OR COMMAND RESET

VALUES OF SYSTEM RESPONSE BYTE (NCPRES) FOR PHASE 1 NORMAL RESPONSES

1	HEX	20	NCP1NAOK	COMMAND EXECUTED OK THIS FAR
1	HEX	21	NCP1NLGR	LEADING GRAPHICS RECEIVED
1	HEX	22	NCP1NROK	READ, INVITE, WRITE CONVERSATIONAL, WRITE WITH READ, OR WRITE WITH CONTACT AND READ EXECUTED OK THIS FAR (READ PHASE)
1	HEX	23	NCP1NQUE	NEGATIVE POLL LIMIT REACHED- QUEUE OPTION
1	HEX	24	NCP1NTRM	OLTT REQUEST MESSAGE
1	HEX	25	NCP1NBSM	BSC STATUS MESSAGE
1	HEX	26	NCP1NNOW	NEGATIVE POLL LIMIT REACHED- NOWAIT OPTION
1	HEX	27	NCP1NLTO	LINE TRACE OUTPUT

VALUES OF SYSTEM RESPONSE BYTE (NCPRES) FOR PHASE 2 NORMAL RESPONSES

1	HEX	40	NCP2NAOK	COMMAND EXECUTED OK THIS FAR
1	HEX	41	NCP2NLGR	LEADING GRAPHICS RECEIVED
1	HEX	42	NCP2NROK	READ, INVITE, WRITE CONVERSATIONAL, WRITE WITH READ, OR WRITE WITH CONTACT AND READ EXECUTED OK THIS FAR (READ PHASE)
1	HEX	43	NCP2NQUE	NEGATIVE POLL LIMIT REACHED- QUEUE OPTION
1	HEX	44	NCP2NTRM	OLTT REQUEST MESSAGE
1	HEX	45	NCP2NBSM	BSC STATUS MESSAGE
1	HEX	46	NCP2NNOW	NEGATIVE POLL LIMIT REACHED- NOWAIT OPTION
1	HEX	47	NCP2NLTO	LINE TRACE OUTPUT

VALUES OF SYSTEM RESPONSE BYTE (NCPRES) FOR PHASE 3 NORMAL RESPONSES

1	HEX	60	NCP3NAOK	COMMAND EXECUTED OK THIS FAR
1	HEX	61	NCP3NLGR	LEADING GRAPHICS RECEIVED
1	HEX	62	NCP3NROK	READ, INVITE, WRITE CONVERSATIONAL, WRITE WITH READ, OR WRITE WITH CONTACT AND READ EXECUTED OK THIS FAR (READ PHASE)



Len	Type	Value	Name	Description
1	HEX	63	NCP3NQUE	NEGATIVE POLL LIMIT REACHED- QUEUE OPTION
1	HEX	64	NCP3NTRM	OLTT REQUEST MESSAGE
1	HEX	65	NCP3NBSM	BSC STATUS MESSAGE
1	HEX	66	NCP3NNOW	NEGATIVE POLL LIMIT REACHED- NOWAIT OPTION
1	HEX	67	NCP3NLTO	LINE TRACE OUTPUT
VALUES OF SYSTEM RESPONSE BYTE (NCPSRES) WHEN THE LINE IS IN MONITOR MODE				
1	HEX	EC	NCPMDISC	DISCONNECT RECEIVED
1	HEX	ED	NCPMIPLR	IPL REQUIRED
1	HEX	EE	NCPMPTR	PERMANENT TRUNK ERROR
1	HEX	EF	NCPMABNC	BLOCK FROM QUEUE CAUSED AN ABNORMAL CONDITION
VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS = CONTROL MODE, WITHOUT LEADING GRAPHICS				
1	HEX	00	NPCNTMO	TIME-OUT - SOME CHARACTERS RECEIVED, BUT MAY NOT BE STORED
1	HEX	04	NPCNCTO	CUTOFF - THIS BIT INDICATES THAT A CONTROLLED LENGTH FIELD (FOR EXAMPLE AN ID FIELD) WAS TOO LONG AND WAS CUT OFF AT THE END OF THE CORRECT LENGTH
1	HEX	06	NPCNTIA	REPLY TO TRANSMITTED DATA WAS AN ENQ - TRANSMISSION IS ABORTED
1	HEX	08	NPCNERE	AN EOT WAS RECEIVED ON A A BLOCK THAT BEGAN WITHOUT AN STX, SOH, OR CIRCLE D (I.E. TEXT RECEIVED IN CONTROL MODE)
1	HEX	0A	NPCNEDC	END OF DLE CONTROL (BSC ONLY)
1	HEX	0C	NPCNWAC	WRONG ACK - ACK1 RECEIVED WHEN ACK0 WAS EXPECTED, OR ACK0 WAS RECEIVED WHEN ACK1 WAS EXPECTED
1	HEX	0E	NPCNNAK	FOR START-STOP, NAK RETURNED IN RESPONSE TO A SELECTION, POLL, WRITE, OR NAK REPLY TO TEXT - FOR BSC, AN EOT RETURNED IN RESPONSE TO A SELECTION, POLL, OR WRITE
1	HEX	10	NPCNRSB	RECEIVED SUB-BLOCK
1	HEX	12	NPCNETX	END OF TEXT
1	HEX	14	NPCNEOB	END OF BLOCK
1	HEX	16	NPCNENQ	DATA OR LEADING GRAPHICS RECEIVED WITH AN ENQ, OR ENQ BY ITSELF
1	HEX	18	NPCNEOT	EOT RECEIVED WITH NO ERRORS
1	HEX	1A	NPCNRVI	REVERSE INTERRUPT
1	HEX	1C	NPCNACK	POSITIVE ACK RETURNED AND NO ERRORS INDICATED ON A WRITE OPERATION
1	HEX	1E	NPCNWAK	WACK RECEIVED (COULD BE AN ERROR CONDITION)
VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS = CONTROL MODE, WITH LEADING GRAPHICS				
1	HEX	01	NPCCLTMO	TIME-OUT - SOME CHARACTERS RECEIVED, BUT MAY NOT BE STORED
1	HEX	05	NPCCLCTO	CUTOFF - THIS BIT INDICATES THAT A CONTROLLED LENGTH FIELD (FOR EXAMPLE AN ID FIELD) WAS TOO LONG AND WAS CUT OFF AT THE END OF THE CORRECT LENGTH
1	HEX	07	NPCCLTIA	REPLY TO TRANSMITTED DATA WAS AN ENQ - TRANSMISSION IS ABORTED
1	HEX	09	NPCCLERE	AN EOT WAS RECEIVED ON A A BLOCK THAT BEGAN WITHOUT AN STX, SOH, OR CIRCLE D (I.E. TEXT RECEIVED IN CONTROL MODE)
1	HEX	0B	NPCCLEDC	END OF DLE CONTROL (BSC ONLY)
1	HEX	0D	NPCCLWAC	WRONG ACK - ACK1 RECEIVED WHEN ACK0 WAS EXPECTED, OR ACK0 WAS RECEIVED WHEN ACK1 WAS EXPECTED
1	HEX	0F	NPCCLNAK	FOR START-STOP, NAK RETURNED IN RESPONSE TO A SELECTION, POLL, WRITE, OR NAK REPLY TO TEXT - FOR BSC, AN EOT RETURNED IN RESPONSE TO A SELECTION, POLL, OR WRITE
1	HEX	11	NPCCLRSB	RECEIVED SUB-BLOCK

Len	Type	Value	Name	Description
1	HEX	13	NCPCLETX	END OF TEXT
1	HEX	15	NCPCLEOB	END OF BLOCK
1	HEX	17	NCPCLENQ	DATA OR LEADING GRAPHICS RECEIVED WITH AN ENQ, OR ENQ BY ITSELF
1	HEX	19	NCPCLEOT	EOT RECEIVED WITH NO ERRORS
1	HEX	1B	NCPCLRVI	REVERSE INTERRUPT
1	HEX	1D	NCPCLACK	POSITIVE ACK RETURNED AND NO ERRORS INDICATED ON A WRITE OPERATION
1	HEX	1F	NCPCLWAK	WACK RECEIVED (COULD BE AN ERROR CONDITION)

VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS  
 = TEXT MODE, WITHOUT LEADING GRAPHICS

1	HEX	24	NCPTNCTO	CUTOFF - THIS BIT INDICATES THAT A CONTROLLED LENGTH FIELD (FOR EXAMPLE AN ID FIELD) WAS TOO LONG AND WAS CUT OFF AT THE END OF THE CORRECT LENGTH
1	HEX	26	NCPTNTIA	REPLY TO TRANSMITTED DATA WAS AN ENQ - TRANSMISSION IS ABORTED
1	HEX	28	NCPTNERE	AN EOT WAS RECEIVED ON A BLOCK THAT BEGINS WITHOUT AN STX, SOH, OR CIRCLE D (I.E. TEXT RECEIVED IN CONTROL MODE)
1	HEX	2A	NCPTNEDC	END OF DLE CONTROL (BSC ONLY)
1	HEX	2C	NCPTNWAC	WRONG ACK - ACK1 RECEIVED WHEN ACK0 WAS EXPECTED, OR ACK0 WAS RECEIVED WHEN ACK1 WAS EXPECTED
1	HEX	2E	NCPTNNAK	FOR START-STOP, NAK RETURNED IN RESPONSE TO A SELECTION, POLL, WRITE, OR NAK REPLY TO TEXT - FOR BSC, AN EOT RETURNED IN RESPONSE TO A SELECTION, POLL, OR WRITE
1	HEX	30	NCPTNRSB	RECEIVED SUB-BLOCK
1	HEX	32	NCPTNETX	END OF TEXT
1	HEX	34	NCPTNEOB	END OF BLOCK
1	HEX	36	NCPTNENQ	DATA OR LEADING GRAPHICS RECEIVED WITH AN ENQ, OR ENQ BY ITSELF
1	HEX	38	NCPTNEOT	EOT RECEIVED WITH NO ERRORS
1	HEX	3A	NCPTNRVI	REVERSE INTERRUPT
1	HEX	3C	NCPTNACK	POSITIVE ACK RETURNED AND NO ERRORS INDICATED ON A WRITE OPERATION
1	HEX	3E	NCPTNWAK	WACK RECEIVED (COULD BE AN ERROR CONDITION)

VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS  
 = TEXT MODE, WITH LEADING GRAPHICS

1	HEX	25	NCPTLCTO	CUTOFF - THIS BIT INDICATES THAT A CONTROLLED LENGTH FIELD (FOR EXAMPLE AN ID FIELD) WAS TOO LONG AND WAS CUT OFF AT THE END OF THE CORRECT LENGTH
1	HEX	27	NCPTLTIA	REPLY TO TRANSMITTED DATA WAS AN ENQ - TRANSMISSION IS ABORTED
1	HEX	29	NCPTLERE	AN EOT WAS RECEIVED ON A BLOCK THAT BEGAN WITHOUT AN STX, SOH, OR CIRCLE D (I.E. TEXT RECEIVED IN CONTROL MODE)
1	HEX	2B	NCPTLEDC	END OF DLE CONTROL (BSC ONLY)
1	HEX	2D	NCPTLWAC	WRONG ACK - ACK1 RECEIVED WHEN ACK0 WAS EXPECTED, OR ACK0 WAS RECEIVED WHEN ACK1 WAS EXPECTED
1	HEX	2F	NCPTLNAK	FOR START-STOP, NAK RETURNED IN RESPONSE TO A SELECTION, POLL, WRITE, OR NAK REPLY TO TEXT - FOR BSC, AN EOT RETURNED IN RESPONSE TO A SELECTION, POLL, OR WRITE
1	HEX	31	NCPTLRSB	RECEIVED SUB-BLOCK
1	HEX	33	NCPTLETX	END OF TEXT
1	HEX	35	NCPTLEOB	END OF BLOCK
1	HEX	37	NCPTLENQ	DATA OR LEADING GRAPHICS RECEIVED WITH AN ENQ, OR ENQ BY ITSELF
1	HEX	39	NCPTLEOT	EOT RECEIVED WITH NO ERRORS
1	HEX	3B	NCPTLRVI	REVERSE INTERRUPT
1	HEX	3D	NCPTLACK	POSITIVE ACK RETURNED AND NO ERRORS INDICATED ON A WRITE OPERATION

Len	Type	Value	Name	Description
1	HEX	3F	NCPTLWAK	WACK RECEIVED (COULD BE AN ERROR CONDITION)
VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS = TRANSPARENT TEXT MODE (BSC ONLY), NO LEADING GRAPHICS				
1	HEX	44	NCPPNCTO	CUTOFF - THIS BIT INDICATES THAT A CONTROLLED LENGTH FIELD (FOR EXAMPLE AN ID FIELD) WAS TOO LONG AND WAS CUT OFF AT THE END OF THE CORRECT LENGTH
1	HEX	46	NCPPNTIA	REPLY TO TRANSMITTED DATA WAS AN ENQ - TRANSMISSION IS ABORTED
1	HEX	48	NCPPNERE	AN EOT WAS RECEIVED ON A A BLOCK THAT BEGAN WITHOUT AN STX, SOH, OR CIRCLE D (I.E. TEXT RECEIVED IN CONTROL MODE)
1	HEX	4A	NCPPNEDC	END OF DLE CONTROL (BSC ONLY)
1	HEX	4C	NCPPNWAC	WRONG ACK - ACK1 RECEIVED WHEN ACK0 WAS EXPECTED, OR ACK0 WAS RECEIVED WHEN ACK1 WAS EXPECTED
1	HEX	4E	NCPPNNAK	FOR START-STOP, NAK RETURNED IN RESPONSE TO A SELECTION, POLL, WRITE, OR NAK REPLY TO TEXT - FOR BSC, AN EOT RETURNED IN RESPONSE TO A SELECTION, POLL, OR WRITE
1	HEX	50	NCPPNRSB	RECEIVED SUB-BLOCK
1	HEX	52	NCPPNETX	END OF TEXT
1	HEX	54	NCPPNEOB	END OF BLOCK
1	HEX	56	NCPPNENQ	DATA OR LEADING GRAPHICS RECEIVED WITH AN ENQ, OR ENQ BY ITSELF
1	HEX	58	NCPPNEOT	EOT RECEIVED WITH NO ERRORS
1	HEX	5A	NCPPNRVI	REVERSE INTERRUPT
1	HEX	5C	NCPPNACK	POSITIVE ACK RETURNED AND NO ERRORS INDICATED ON A WRITE OPERATION
1	HEX	5E	NCPPNWAK	WACK RECEIVED (COULD BE AN ERROR CONDITION)
VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS = TRANSPARENT TEXT MODE (BSC ONLY), WITH LEADING GRAPHICS				
1	HEX	45	NCPPLCTO	CUTOFF - THIS BIT INDICATES THAT A CONTROLLED LENGTH FIELD (FOR EXAMPLE AN ID FIELD) WAS TOO LONG AND WAS CUT OFF AT THE END OF THE CORRECT LENGTH
1	HEX	47	NCPPLTIA	REPLY TO TRANSMITTED DATA WAS AN ENQ - TRANSMISSION IS ABORTED
1	HEX	49	NCPPLERE	AN EOT WAS RECEIVED ON A A BLOCK THAT BEGAN WITHOUT AN STX, SOH, OR CIRCLE D (I.E. TEXT RECEIVED IN CONTROL MODE)
1	HEX	4B	NCPPLEDC	END OF DLE CONTROL (BSC ONLY)
1	HEX	4D	NCPPLWAC	WRONG ACK - ACK1 RECEIVED WHEN ACK0 WAS EXPECTED, OR ACK0 WAS RECEIVED WHEN ACK1 WAS EXPECTED
1	HEX	4F	NCPPLNAK	FOR START-STOP, NAK RETURNED IN RESPONSE TO A SELECTION, POLL, WRITE, OR NAK REPLY TO TEXT - FOR BSC, AN EOT RETURNED IN RESPONSE TO A SELECTION, POLL, OR WRITE
1	HEX	51	NCPPLRSB	RECEIVED SUB-BLOCK
1	HEX	53	NCPPLETX	END OF TEXT
1	HEX	55	NCPPLEOB	END OF BLOCK
1	HEX	57	NCPPLENQ	DATA OR LEADING GRAPHICS RECEIVED WITH AN ENQ
1	HEX	59	NCPPLEOT	EOT RECEIVED WITH NO ERRORS
1	HEX	5B	NCPPLRVI	REVERSE INTERRUPT
1	HEX	5D	NCPPLACK	POSITIVE ACK RETURNED AND NO ERRORS INDICATED ON A WRITE OPERATION
1	HEX	5F	NCPPLWAK	WACK RECEIVED (COULD BE AN ERROR CONDITION)
VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS = HEADING MODE (BSC ONLY), WITHOUT LEADING GRAPHICS				
1	HEX	64	NCPHNCTO	CUTOFF - THIS BIT INDICATES THAT A CONTROLLED LENGTH FIELD (FOR EXAMPLE AN ID FIELD) WAS TOO LONG AND WAS CUT OFF AT THE END OF THE CORRECT LENGTH

Len	Type	Value	Name	Description
1	HEX	66	NCPHNTIA	REPLY TO TRANSMITTED DATA WAS AN ENQ - TRANSMISSION IS ABORTED
1	HEX	68	NCPHNERE	AN EOT WAS RECEIVED ON A A BLOCK THAT BEGAN WITHOUT AN STX, SOH, OR CIRCLE D (I.E. TEXT RECEIVED IN CONTROL MODE)
1	HEX	6A	NCPHNEDC	END OF DLE CONTROL (BSC ONLY)
1	HEX	6C	NCPHNWAC	WRONG ACK - ACK1 RECEIVED WHEN ACK0 WAS EXPECTED, OR ACK0 WAS RECEIVED WHEN ACK1 WAS EXPECTED
1	HEX	6E	NCPHNNAK	FOR START-STOP, NAK RETURNED IN RESPONSE TO A SELECTION, POLL, WRITE, OR NAK REPLY TO TEXT - FOR BSC, AN EOT RETURNED IN RESPONSE TO A SELECTION, POLL, OR WRITE
1	HEX	70	NCPHNRSB	RECEIVED SUB-BLOCK
1	HEX	72	NCPHNTEX	END OF TEXT
1	HEX	74	NCPHNEOB	END OF BLOCK
1	HEX	76	NCPHNENQ	DATA OR LEADING GRAPHICS RECEIVED WITH AN ENQ, OR ENQ BY ITSELF
1	HEX	78	NCPHNEOT	EOT RECEIVED WITH NO ERRORS
1	HEX	7A	NCPHNRVI	REVERSE INTERRUPT
1	HEX	7C	NCPHNACK	POSITIVE ACK RETURNED AND NO ERRORS INDICATED ON A WRITE OPERATION
1	HEX	7E	NCPHNWAK	WACK RECEIVED (COULD BE AN ERROR CONDITION)

VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS  
 = HEADING MODE (BSC ONLY), WITH LEADING GRAPHICS

1	HEX	65	NCPHLCTO	CUTOFF - THIS BIT INDICATES THAT A CONTROLLED LENGTH FIELD (FOR EXAMPLE AN ID FIELD) WAS TOO LONG AND WAS CUT OFF AT THE END OF THE CORRECT LENGTH
1	HEX	67	NCPHLTIA	REPLY TO TRANSMITTED DATA WAS AN ENQ - TRANSMISSION IS ABORTED
1	HEX	69	NCPHLERE	AN EOT WAS RECEIVED ON A A BLOCK THAT BEGAN WITHOUT AN STX, SOH, OR CIRCLE D (I.E. TEXT RECEIVED IN CONTROL MODE)
1	HEX	6B	NCPHLEDC	END OF DLE CONTROL (BSC ONLY)
1	HEX	6D	NCPHLWAC	WRONG ACK - ACK1 RECEIVED WHEN ACK0 WAS EXPECTED, OR ACK0 WAS RECEIVED WHEN ACK1 WAS EXPECTED
1	HEX	6F	NCPHLNAK	FOR START-STOP, NAK RETURNED IN RESPONSE TO A SELECTION, POLL, WRITE, OR NAK REPLY TO TEXT - FOR BSC, AN EOT RETURNED IN RESPONSE TO A SELECTION, POLL, OR WRITE
1	HEX	71	NCPHLRSB	RECEIVED SUB-BLOCK
1	HEX	73	NCPHLETX	END OF TEXT
1	HEX	75	NCPHLEOB	END OF BLOCK
1	HEX	77	NCPHLENQ	DATA OR LEADING GRAPHICS RECEIVED WITH AN ENQ, OR ENQ BY ITSELF
1	HEX	79	NCPHLEOT	EOT RECEIVED WITH NO ERRORS
1	HEX	7B	NCPHLRVI	REVERSE INTERRUPT
1	HEX	7D	NCPHLACK	POSITIVE ACK RETURNED AND NO ERRORS INDICATED ON A WRITE OPERATION
1	HEX	7F	NCPHLWAK	WACK RECEIVED (COULD BE AN ERROR CONDITION)

VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS  
 = SPECIAL, WITHOUT LEADING GRAPHICS

1	HEX	80	NCPSNTMO	TIME-OUT WITH NOTHING RECEIVED
1	HEX	82	NCPSNCRJ	COMMAND REJECT - SHOULD NOT OCCUR ERROR - SET BY THE COMMUNICATIONS SCANNER CODE
1	HEX	84	NCPSNBPD	LEVEL 2 AND LEVEL 3 BUFFER POOLS DEPLETED - LEVEL 5 MAY STILL HAVE BUFFERS LEFT
1	HEX	86	NCPSNSEL	SELECTED (BSC TRIBUTARY ONLY)
1	HEX	88	NCPSNRDS	RECEIVED DISCONNECT SIGNAL ON TWX OR DLE/EOT ON BSC
1	HEX	8A	NCPSNDNE	DATA WAS RECEIVED WHEN IT WAS NOT EXPECTED
1	HEX	8C	NCPSNRST	A RESET OCCURRED
1	HEX	8E	NCPSNPOL	THE DEVICE HAS BEEN POLLED
1	HEX	90	NCPSNTSB	TRANSMITTED SUB-BLOCK

Len	Type	Value	Name	Description
1	HEX	92	NCPSNEWA	AN EOT WAS SENT AFTER A SPECIFIED NUMBER OF WACKS WERE RECEIVED IN RESPONSE TO A REQUEST OR OPERATION
1	HEX	94	NCPSNBTX	RECEIVED BREAK IN TEXT (TWO CONSECUTIVE STOP-BIT ERRORS) -- THE LAST TWO CHARACTERS STORED ARE INVALID -- THEY MAY BE INCORRECT LENGTH CONTROL CHARACTERS OR ALL SPACES
1	HEX	96	NCPSNPST	POLLING STOP -- DEVICE WAS POLLED TO THE POLLING LIMIT AND RESPONDED NEGATIVELY, OR A READ INITIAL WITH A SINGLE POLLING MODIFIER WAS DIRECTED TO A POLLED LINE
1	HEX	98	NCPSNEOT	EOT TRANSMITTED
1	HEX	9A	NCPSNBRK	RECEIVED A BREAK SIGNAL WHILE TRANSMITTING
1	HEX	9C	NCPSNDSC	DISCONNECTED
1	HEX	9E	NCPSNCON	CONNECTED

VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS  
 = SPECIAL, WITH LEADING GRAPHICS

1	HEX	81	NCPSLTMO	TIME-OUT WITH NOTHING RECEIVED
1	HEX	83	NCPSLCRJ	COMMAND REJECT - SHOULD NOT OCCUR ERROR - SET BY THE COMMUNICATIONS SCANNER CODE
1	HEX	85	NCPSLBPD	LEVEL 2 AND LEVEL 3 BUFFER POOLS DEPLETED - LEVEL 5 MAY STILL HAVE BUFFERS LEFT
1	HEX	87	NCPSLSEL	SELECTED (BSC TRIBUTARY ONLY)
1	HEX	89	NCPSLRDS	RECEIVED DISCONNECT SIGNAL ON TWX OR DLE/EOT ON BSC
1	HEX	8B	NCPSLDNE	DATA WAS RECEIVED WHEN IT WAS NOT EXPECTED
1	HEX	8D	NCPSLRST	A RESET OCCURRED
1	HEX	8F	NCPSLPOL	THE DEVICE HAS BEEN POLLED
1	HEX	91	NCPSLTSB	TRANSMITTED SUB-BLOCK
1	HEX	93	NCPSLEWA	AN EOT WAS SENT AFTER A SPECIFIED NUMBER OF WACKS WERE RECEIVED IN RESPONSE TO A REQUEST OR OPERATION
1	HEX	95	NCPSLBTX	RECEIVED BREAK IN TEXT (TWO CONSECUTIVE STOP-BIT ERRORS) -- THE LAST TWO CHARACTERS STORED ARE INVALID -- THEY MAY BE INCORRECT LENGTH CONTROL CHARACTERS OR ALL SPACES
1	HEX	97	NCPSLPST	POLLING STOP -- DEVICE WAS POLLED TO THE POLLING LIMIT AND RESPONDED NEGATIVELY, OR A READ INITIAL WITH A SINGLE POLLING MODIFIER WAS DIRECTED TO A POLLED LINE
1	HEX	99	NCPSLEOT	EOT TRANSMITTED
1	HEX	9B	NCPSLBRK	RECEIVED A BREAK SIGNAL WHILE TRANSMITTING
1	HEX	9D	NCPSLDSC	DISCONNECTED
1	HEX	9F	NCPSLCON	CONNECTED

VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS  
 = HARDWARE/USER ERROR, WITHOUT LEADING GRAPHICS

1	HEX	E0	NCPUNUSE	USER ERROR (MTA SUPPORT), NORMALLY INDICATES AN INCORRECT NCP GENERATION
1	HEX	E4	NCPUNCSC	LEVEL 1 COMMUNICATION SCANNER CHECK
1	HEX	E8	NCPUNCAC	COMMUNICATIONS ADAPTER CHECK -- OCCURS WHENEVER A LEVEL 2 INTERRUPT IS EXPECTED AND NOT RECEIVED
1	HEX	EA	NCPUNCFE	COMMUNICATIONS SCANNER ADAPTER FEEDBACK CHECK
1	HEX	EC	NCPUNEQC	EQUIPMENT CHECK
1	HEX	F0	NCPUNMER	MODEM ERROR
1	HEX	F2	NCPUNCTS	MODEM TRANSMIT CLOCK OR CLEAR-TO-SEND ERROR
1	HEX	F4	NCPUNDON	DSR-ON CHECK -- FOR LEASED LINES, COMES ON IF DATA-SET-READY DOESN'T COME UP WITHIN THREE SECONDS AFTER DATA-TERMINAL-READY
1	HEX	F8	NCPUNDOF	DSR-OFF CHECK -- FOR SWITCHED LINES, COMES ON IF DATA-SET-READY DOESN'T DROP WITHIN THREE SECONDS OF DATA-TERMINAL-READY
1	HEX	FC	NCPUNACU	ACU CHECK -- NO RESPONSE FROM AN ACU WHEN ONE WAS EXPECTED

Len	Type	Value	Name	Description
1	HEX	FF	NCPUNPFL	PROGRAM FAILURE
VALUES OF EXTENDED RESPONSE BYTE (NCPERES) FOR INITIAL STATUS = HARDWARE/USER ERROR, WITH LEADING GRAPHICS				
1	HEX	E1	NCPULUSE	USER ERROR (MTA SUPPORT), NORMALLY INDICATES AN INCORRECT NCP GENERATION
1	HEX	E5	NCPULCSC	LEVEL 1 COMMUNICATION SCANNER CHECK
1	HEX	E9	NCPULCAC	COMMUNICATIONS ADAPTER CHECK -- OCCURS WHENVER A LEVEL 2 INTERRUPT IS EXPECTED AND NOT RECEIVED
1	HEX	EB	NCPULCFC	COMMUNICATIONS SCANNER ADAPTER FEEDBACK CHECK
1	HEX	ED	NCPULEQC	EQUIPMENT CHECK
1	HEX	F1	NCPULMER	MODEM ERROR
1	HEX	F3	NCPULCTS	MODEM TRANSMIT CLOCK OR CLEAR-TO-SEND ERROR
1	HEX	F5	NCPULDON	DSR-ON CHECK -- FOR LEASED LINES, COMES ON IF DATA-SET-READY DOESN'T COME UP WITHIN THREE SECONDS AFTER DATA-TERMINAL-READY
1	HEX	F9	NCPULDOF	DSR-OFF CHECK -- FOR SWITCHED LINES, COMES ON IF DATA-SET-READY DOESN'T DROP WITHIN THREE SECONDS OF DATA-TERMINAL-READY
1	HEX	FD	NCPULACU	ACU CHECK -- NO RESPONSE FROM AN ACU WHEN ONE WAS EXPECTED
1	HEX	FF	NCPULPFL	PROGRAM FAILURE
VALUES OF EXTENDED RESPONSE BYTE (NCPERES) WHEN SYSTEM RESPONSE = X'9F'				
1	HEX	82	NCPCECSC	CHANGE-SPEED COMMAND IS INVALID FOR THE LINE
1	HEX	83	NCPCEUNA	SPECIFIED LINE IS UNAVAILABLE
1	HEX	84	NCPCEELK	ERROR LOCK
1	HEX	E0	NCPCENTS	SWITCH-LINE-MODE COMMAND RECEIVED BUT LINE NOT GENERATED AS MODE-SWITCHABLE
1	HEX	E1	NCPCEACT	SWITCH-LINE-MODE COMMAND WAS RECEIVED BUT A COMMAND IS ALREADY EXECUTING ON THE LINE OR LINE TRACE IS ACTIVE ON THE LINE
VALUES OF RESPONSE PHASE (NCPPHASE)				
0	BIT	00	NCPPHSE0	PHASE 0 RESPONSE
0	BIT	01	NCPPHSE1	PHASE 1 RESPONSE
0	BIT	10	NCPPHSE2	PHASE 2 RESPONSE
0	BIT	11	NCPPHSE3	PHASE 3 RESPONSE
VALUES OF SYSTEM RESPONSE CODE (NCPYSR) FOR PHASE 0 NON ERROR RESPONSES				
0	BIT	00011	NCPDAC	DEVICE ASSTN COMPLETE
0	BIT	00100	NCPMTAID	MTA DEVICE IDENTIFIED
0	BIT	00101	NCPCAPM	CHANNEL ADAPTER TO PRIM MODE
0	BIT	00110	NCPCASM	CHANNEL ADAPTER TO SECONDARY MODE
0	BIT	00111	NCPESSYSS	ENTERING SYSTEM SLOWDOWN
0	BIT	01000	NCPLSYSS	LEAVING SYSTEM SLOWDOWN
0	BIT	01001	NCPICOMP	INIT COMPLETE
0	BIT	01010	NCPMDR	MDR RECORD
0	BIT	11011	NCPANSCT	AUTO NETWORK SHUTDOWN VIA CHANNEL TIMEOUT
0	BIT	11100	NCPANSOP	AUTO NETWORK SHUTDOWN VIA OPERATIONS PANEL
0	BIT	11101	NCPANSC	AUTO NETWORK SHUTDOWN COMPLETE
0	BIT	11110	NCPMSLOG	SERVICEABILITY AID - MASS STORAGE LOGGING
0	BIT	11111	NCPOFLO	OVERFLOW CONFIGURATION
VALUES OF SYSTEM RESPONSE CODE (NCPYSR) FOR PHASE 1,2,3 NON ERROR RESPONSES				
0	BIT	00000	NCPOK	COMMAND OK SO FAR
0	BIT	00001	NCPLGR	LEADING GRAPHICS RECEIVED
0	BIT	00010	NCPOKD	OK SO FAR WITH DATE
0	BIT	00011	NCPNPLQ	NEGATIVE POLL LIMIT QUEUE OPTION
0	BIT	00100	NCPOLTR	OLT REQUEST
0	BIT	00110	NCPNPLNW	NEGATIVE POLL LIMIT - - NOWAIT OPTION

Len	Type	Value	Name	Description
0	BIT	00111	NCPLINTR	LINE TRACE
0	BIT	00101	NCPBSTAT	BSC STATUS MESSAGE
VALUES OF SYSTEM RESPONSE CODE (NCPSYSR) FOR PHASE 0 ERROR RESPONSES				
0	BIT	00000	NCPCHERR	CHANNEL ERROR
0	BIT	00001	NCPIRID	INVALID RESOURCE ID
0	BIT	00010	NCPICMD	INVALID COMMAND
0	BIT	00011	NCPIMOD	INVALID MODIFIER
0	BIT	00100	NCPRSIP	RESET OR DEACTIVATE IN PROGRESS
0	BIT	00101	NCPDIACT	DEVICE INACTIVE
0	BIT	00110	NCPLIACT	LINE INACTIVE
0	BIT	00111	NCPCNVR	COMMAND NOT VALID FOR RESOURCE
0	BIT	01000	NCPCSXE	COMMAND SYNTAX ERROR
0	BIT	01001	NCPCNBS	COMMAND DID NOT CONFORM TO BSC SPECIFICATIONS
0	BIT	01010	NCPICDL	INVALID CONTROL DATA LENG
0	BIT	01011	NCPRSNP	RESET NOT PERFORMED
0	BIT	01011	NCPGPA	GENERAL POLL ABORTED
0	BIT	01100	NCPDNCR	DATA NOT CORE RESIDENT
0	BIT	01101	NCPDSQL	DIAL SET QUEUE LIMIT REACHED
0	BIT	01110	NCPSDLI	SWITCHED DEVICE LINE INCOMPATIBILITY
0	BIT	01111	NCPI TXL	INVALID TEXT LENGTH
0	BIT	10001	NCPICOD	INVALID CONTROL DATA
0	BIT	10010	NCPINBTU	INCOMPLETE BTU
0	BIT	10100	NCPDATIU	DATA IN USE
0	BIT	10101	NCPICCM	INVALID CONTROL COMMAND OR MODIFIER
0	BIT	10110	NCPOLTRJ	OLT COMMAND REJECTED
0	BIT	11000	NCPMULTD	MULTIPLE DIAL REQUESTS
0	BIT	11001	NCPMODI	MODE INCONSISTENCY
0	BIT	11010	NCPBUFNA	BUFFER NOT AVAILABLE
0	BIT	11011	NCPSYSS	COMMAND REJECTED -- SYSTEM IN SHUTDOWN
0	BIT	11100	NCPERLS	COMMAND REJECTED -- ERROR LOCK SET
0	BIT	11101	NCPCNOP	COMMAND REJECTED---- CHANNEL INOPERATIVE
0	BIT	11110	NCP CRS	COMMAND RESET OR LINE DEACTIVATED
0	BIT	11111	NCPESCO	PHASE 0 ERROR ESCAPE
VALUES OF SYSTEM RESPONSE CODE (NCPSYSR) FOR PHASE 1,2,3 ERROR RESPONSES				
0	BIT	00000	NCPDACHK	DATA CHECK
0	BIT	00001	NCPPIVR	POSSIBLE INTERVENTION REQUIRED
0	BIT	00010	NCPIVR	INTERVENTION REQUIRED
0	BIT	00011	NCPNPLW	NEGATIVE POLL LIMIT--- WAIT OPTION
0	BIT	00100	NCPCYNT	YIELD TO CONTENTION
0	BIT	00101	NCPDEBF	DEVICE ERROR--BSC STATUS TO FOLLOW
0	BIT	00110	NCPBIDER	BSC ID ERROR
0	BIT	00111	NCPLTRT	LINE TRACE TERMINATED
0	BIT	01000	NCPOCT	OLT COMMAND TERMINATED
0	BIT	01001	NCPSNS	SESSION NOT STARTED BSC STATUS MESSAGE AS NON ERROR RESPONSE
0	BIT	01010	NCPESTAT	BSC ERROR STATUS MESSAGE
0	BIT	01100	NCPDCREC	DATA DISCONNECT RECEIVED
0	BIT	10011	NCPBRREC	BREAK RECEIVED
0	BIT	11000	NCP CRJS	CONTACT REJECTED ---- SESSION STARTED
0	BIT	11001	NCPDDIC	DIAL DATA INCONSISTENCY COMMAND RESET ---- AS PHASE 0 RESPONSE
0	BIT	01101	NCPIPLR	IPL REQUIRED
0	BIT	01110	NCPTRNKE	TRUNK ERROR
0	BIT	01111	NCPBLKR	REMOTE BLOCK RETURNED TO HOST
VALUES OF EXTENDED RESPONSE INITIAL STATUS (NCPEINIT)				
0	BIT	000	NCPXCNTL	CONTROL
0	BIT	001	NCPXTXT	TEXT
0	BIT	010	NCPXTXT	TRANSPARENT TEXT
0	BIT	011	NCPXHEAD	HEADING
0	BIT	100	NCPXSPEC	SPECIAL
0	BIT	111	NCPXHCHK	HARDWARE CHECK

Len	Type	Value	Name	Description
VALUES OF EXTENDED RESPONSE FINAL STATUS (NCPEFINAL) WITH INITIAL STATUS OF CONTROL, TEXT, TRANSPARENT TEXT, OR HEADING				
0	BIT	0000	NCPXTIMT	TIMEOUT
0	BIT	0010	NCPXCUTF	CUTOFF
0	BIT	0011	NCPXABLK	ABORT BLOCK
0	BIT	0100	NCPXEHE	EOT HALTED ERP
0	BIT	0101	NCPXDCE	DLE CONTROL END
0	BIT	0110	NCPXWRAK	WRONG ACK
0	BIT	1000	NCPXRSBE	RECIEVED SUB BLOCK END
0	BIT	1001	NCPXETX	END OF TEXT
0	BIT	1010	NCPXETB	END OF BLOCK
0	BIT	1011	NCPXENQ	ENQUIRY
0	BIT	1100	NCPXEOT	END OF TRANSMISSION
0	BIT	1101	NCPXRVI	REVERSE INTERRUPT
0	BIT	1110	NCPXPACK	POSITIVE ACK
0	BIT	1111	NCPXWACK	WAIT ACK
VALUES OF EXTENDED RESPONSE FINAL STATUS (NCPEFINAL) WITH INITIAL STATUS OF SPECIAL				
0	BIT	0001	NCPXCREJ	COMMAND REJECT
0	BIT	0010	NCPXBPE	BUFFER POOL END
0	BIT	0011	NCPXSLTD	SELECTED
0	BIT	0100	NCPXRDS	RECEIVED DISCONNECT SIGNAL
0	BIT	0101	NCPXLDTA	LOST DATA
0	BIT	0110	NCPXRSET	RESET
0	BIT	0111	NCPXPLD	POLLED
0	BIT	1000	NCPXXSBE	TRANSMIT SUB BLOCK END
0	BIT	1001	NCPXESWR	EOT SENT AFTER WACK RECEIVED
0	BIT	1010	NCPXRBT	RECEIVED BREAK IN TEXT
0	BIT	1011	NCPXPLS	POLLING STOP
0	BIT	1100	NCPXEOTS	EOT SENT
0	BIT	1101	NCPXRCB	RECEIVED BREAK
0	BIT	1110	NCPXDSC	DISCONNECTED
0	BIT	1111	NCPXCNTD	CONNECTED
VALUES OF EXTENDED RESPONSE FINAL STATUS (NCPEFINAL) WITH INITIAL STATUS OF HARDWARE/USER ERROR				
0	BIT	0000	NCPXEQUC	EQUIPMENT CHECK
0	BIT	0010	NCPXCSBC	CSB CHECK
0	BIT	0100	NCPXADC	ADAPTER CHECK
0	BIT	0110	NCPXUSER	USER ERROR
0	BIT	1000	NCPXMODC	MODEM CHECK
0	BIT	1010	NCPXDTOC	DSR TURN ON CHECK
0	BIT	1100	NCPXDTEC	DSR TURN OFF CHECK
0	BIT	1110	NCPXACUC	ACU CHECK
EXTENDED RESPONSE (FINAL STATUS) FOR PHASE 0 ERROR ESCAPE				
0	BIT	00001	NCPIPLE	IPL LOCK ON
0	BIT	00101	NCPIVNE	INVALID NODE
0	BIT	00100	NCPTELE	TRUNK ERROR LOCK ON



## Network Configuration Services Parameter List (NCSPL)

<b>Function:</b>	NCSPL is a work element that represents a system command (VARY, HALT, MODIFY, or DISPLAY) being processed. It contains the symbolic name of the resource and the address of the storage area used as a save area or as working storage.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	396 (X'18C')
<b>Pointed to by:</b>	ATCLDNCS (ATCVT) CONNCSLA (CONFT) MLCNCSPL (MLCA) - during system definition RCDRMPDN (RCDRM) - host CDRM only RPRCMDWE (RPRE) - command work element RRNNCSPL (RRN) RRNCDPWE (RRN)
<b>Included Blocks:</b>	CPCB (NCSAFX), POHD (NCSPLPHD), PCID (NCSLDRID), WTD (NCSPLWEL, NCSPLRPH)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	396	ISTNCSPL	
0	(0)	CHARACTER	64	NCSAFX	CONTROL POINT CONTROL BLOCK PREFIX
THE FOLLOWING STRUCTURE MUST COINCIDE WITH THE ISTCPCB					
0	(0)	BITSTRING	1	NCSCBID	CONTROL BLOCK ID
1	(1)	BITSTRING	1	*	CPCB CONTROL BLOCK LENGTH
2	(2)	BITSTRING	1	NCSFLAGS	NCSPL STATUS FLAGS
		1... ....		NCSVSTAT	NCSPL NOT OBTAINED DYNAMICALLY
		.1.. ....		NCSPLREQ	NCSPL WAS REQSTORED
		..1. ....		NCSPRIV	NCSPL IN PRIVATE STORAGE
		...1 ....		NCSPLNON	DO NOT ADDRESS RDT SEGMENT
		.... 1..		*	NOT USED - AVAILABLE
		.... .1..		*	NOT USED - AVAILABLE
		.... ..1.		*	NOT USED - AVAILABLE
		.... ...1		*	NOT USED - AVAILABLE
3	(3)	CHARACTER	1	NCSIORC	MAJOR RETURN CODE FIELD
4	(4)	CHARACTER	12	*	OVERLAY FOR OUTBOUND WTD
16	(10)	ADDRESS	4	NCSPLWEL	POINTER TO RPH TO BE POSTED
20	(14)	ADDRESS	4	*	OVERLAY FOR INBOUND WTDTP
24	(18)	ADDRESS	4	NCSPLRPH	POINTER TO RPH
28	(1C)	BITSTRING	4	*	CPCB CONTROL OP CODE (SEE CPK)
28	(1C)	BITSTRING	1	*	CPCB CATEGORY (SEE CPK)
29	(1D)	CHARACTER	3	NCSVERB	VERBS
29	(1D)	BITSTRING	1	NCSPLVCD	VERB CODE
30	(1E)	CHARACTER	2	NCSPLVBF	VERB MODIFIER FLAGS
		1... ....		NCSVBF01	TG TRACE OR MODIFY LOAD ACTION=CANCEL
		.1.. ....		NCSVBF02	DYNAMIC DUMP OR MODIFY LOAD ACTION=PURGE OR FFDC
		..1. ....		NCSVBF03	VTAM TRACE
		...1 ....		NCSVBF04	SMS TRACE OR MODIFY LOAD ACTION=REPLACE
		.... 1..		NCSVBF05	LINETRACE = 1 OR PURGE DUMP
		.... .1..		NCSVBF06	I/O TRACE = 1 OR TRANSFER DUMP
		.... ..1.		NCSVBF07	BUFFER TRACE
		.... ...1		NCSVBF08	MODIFY TRACE TYPE=GPT OR MODIFY LOAD ACTION=ADD
		1... ....		NCSVBF09	DWNSTRM TRACE OR MODIFY LOAD
		.1.. ....		NCSVBF10	0= MODIFY TRACE
		..1. ....		NCSVBF11	VARY INTERNAL ONLY AND MODIFY TRACE
		...1 ....		NCSVBF12	VARY IMMEDIATE OR MODIFY TABLE
		.... 1..		NCSVBF13	DRDS
		.... .1..		NCSVBF14	VARY LOGON OR VARY NOLOGON
		.... ..1.		NCSVBF15	VARY DEACTIVATE AND VARY NORMAL CLOSE (ERP)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ...1		NCSVBF16	VARY ACTIVATE AND ERP REQUEST AND MODIFY DUMP
32	(20)	ADDRESS	4	*	CPCB USER FIELD
36	(24)	CHARACTER	17	*	CPCB REQUEST CORRELATOR
53	(35)	CHARACTER	2	*	NOT USED - AVAILABLE
55	(37)	CHARACTER	9	NCSPLSID	MESSAGE ROUTING
55	(37)	CHARACTER	1	NCSPLSTA	STATUS FLAG BYTE
		1111 11..		NCSRSVD4	NOT USED - AVAILABLE
		.... ..1.		NCSFSCON	ROUTE MESSAGE TO SYSTEM CONSOLE
		.... ...1		NCSPLPO	0=CONSOLE ID FOLLOWS 1=PROGRAM OPERATOR HEADER FOLLOWS
56	(38)	CHARACTER	4	NCSPLPHD	PO HEADER IF NCSPLPO=01
56	(38)	UNSIGNED	1	NCSPLNID	CONSOLE ID IF NCSPLPO=00
60	(3C)	ADDRESS	4	NCSPLPDB	POINTER TO PO ACDEB PREFIX
END OF STRUCTURE THAT MUST COINCIDE WITH THE ISTCPCB					
64	(40)	BITSTRING	1	NCSCRRTN	ISTINCR4 RETURN FLAGS FOR OPTIONAL FEATURES. NOTE: THIS FIELD SHOULD MATCH DLRCRRTN IN ISTDLRPL
		1... ....		NCSEMDRQD	CRYPTOGRAPHY REQUIRED IN SEGMENT (OS/VS ONLY)
		.111 1111		*	NOT USED - AVAILABLE
65	(41)	CHARACTER	1	NCSPLVFL	COMMAND FLAGS
		1... ....		NCSVNCSA	NCSPL IS ACTIVE
		.1. ....		NCSVDEL	DELETE NCSPL
		..1. ....		NCSPLACQ	COMMAND FROM ACQUIRE
		...1 ....		NCSDCONT	DO DISCONNECT
		.... 1..		NCSABCON	DO ABANDON CONNECTION
		.... .1..		NCSDACLK	DO ACTIVATE LINE
		.... ..1.		NCSDCCTCT	THIS NCSPL TO BE USED FOR DISCONTACT/CONTACT
		.... ...1		NCSPLREL	COMMAND FROM RELEASE
66	(42)	UNSIGNED	1	NCSSCOPE	SCOPE = PARAMETER VALUE
67	(43)	CHARACTER	1	NCSPRMRC	PURGE MINOR RETURN CODE FIELD
68	(44)	CHARACTER	1	*	RESERVED
		1... ....		NCSDRACT	DR FLAG 1 - ACTIVATE = YES 0 - ACTIVATE = NO
		.11. ....		*	RESERVED
		.1. ....		*	RESERVED
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1111		*	NOT USED - AVAILABLE
69	(45)	CHARACTER	4	NCSRRNPT	POINTER TO RN ENTRY FOR LINE TRACE
73	(49)	CHARACTER	8	NCSPLRID	ID = 'NODENAME'
81	(51)	CHARACTER	8	NCSNETID	NETID FOR NCSPLRID
89	(59)	CHARACTER	8	NCSPLLID	LOGON = 'NODENAME'
89	(59)	CHARACTER	8	NCSDRTO	MODIFY DR MOVE, TO OPERAND
89	(59)	CHARACTER	8	NCSCDRMN	NEW CDRM NAME
89	(59)	CHARACTER	8	NCSSSRID	PCID FOR DIAL START
89	(59)	CHARACTER	4	NCSADJ	FOR DISPLAY PATHTAB
93	(5D)	CHARACTER	4	NCSDEST	FOR DISPLAY PATHTAB
97	(61)	CHARACTER	6	NCSDLID	OFFHOOK ID
103	(67)	UNSIGNED	1	NCSCRCMD	C/R I/O COMMAND CODE
104	(68)	ADDRESS	1	NCSCRPID	C/R PATH ID (PID)
105	(69)	BITSTRING	1	NCSNCEP	EP SUBCHANNEL ADDRESS
106	(6A)	CHARACTER	1	NCSCMDNT	COMMAND NODE TYPE
107	(6B)	CHARACTER	1	NCSCRFLG	MISCELLANEOUS C/R FLAGS
		1... ....		NCSPLWRM	COMMAND SPECIFIED WARM PARAMETER
		.1. ....		NCSPLCLD	COMMAND SPECIFIED COLD PARAMETER
		..1. ....		NCSFMCLD	370X RESPONDED ERP COLD TO ACTPU (ERP)
		...1 ....		NCSFMERP	370X RESPONDED ERP TO ACTPU (ERP)
		.... 1..		NCSCRDSE	0=C/R DATA SET DOES NOT EXIST OR IS NULL 1=C/R DATA SET EXISTS AND IS NOT NULL
		.... .1..		NCSOPRQU	OPERATOR REQUESTS REIPL
		.... ..1.		NCSUSRNF	EARLY WARNING PURGE HAS ALREADY OCCURED
		.... ...1		NCSSTCMD	ACTIVATE IS A RESULT OF START VTAM COMMAND
108	(6C)	ADDRESS	4	NCSPLRPT	POINTER TO ID='NODENAME' RDTE
112	(70)	ADDRESS	4	NCSPLLPT	POINTER TO LOGON/LOGOFF='NODENAME' RDTE
116	(74)	CHARACTER	2	NCSPLCMD	CONTROL COMMAND CODES
116	(74)	BITSTRING	1	NCSCMDA	RH FLAGS

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		1... ..		NCSPLSYS	1=SYSTEM 0=FM
		.1. ....		NCSPLCTL	1=CONTROL 0=DATA
		..1. ....		NCSPLSYN	1=SYNCHRONOUS 0=ASYNCHRONOUS
		...1 ....		NCSPLFLO	1=WITH FLOW 0=AGAINST FLOW
		.... 1...		NCSPLUFM	1=UNFORMATTED RU
		.... .1..		NCSPLINT	INTERNAL SDT
		.... ..1.		NCSVANCP	1 = VARTY ACT FOR NCP
		.... ...1		*	RESERVED
117	(75)	BITSTRING	1	NCSCMDB	COMMAND FIELD
118	(76)	BITSTRING	1	NCSITFL2	MISCELLANEOUS VIT FLAGS
		1... ..		NCSITINT	INTERNAL MODE FOR VIT
		.1. ....		NCSITEXT	EXTERNAL MODE FOR VIT
		..1. ....		NCSITEND	END OPTION FOR VIT
		...1 111.		*	RESERVED FOR TRACE
		.... ...1		NCSDSNPR	1=DIAL START IN PROGRESS
119	(77)	CHARACTER	1	NCSMSGSP	RESERVED FOR MESSAGE SUPPRESSION
120	(78)	CHARACTER	4	NCSPLUAD	CHANNEL UNIT ADDRESS
124	(7C)	BITSTRING	4	NCSPLWRE	WTOR ECB
128	(80)	CHARACTER	72	NCSPLWRF	WTOR REPLY AREA
128	(80)	CHARACTER	12	NCSPLWTD	LOAD/DUMP NCSPL WHAT-TO-DO SAVED HERE AND RESTORED AFTER LOAD/DUMP PROCESSING
200	(C8)	ADDRESS	4	NCSPLRAD	POINTER TO RDTE FOR ALLOCATE/DEALLOCATE
204	(CC)	CHARACTER	12	NCSIONAP	CURRENT NETWORK ADDRESS PAIR FOR DAF LOCK HELD
204	(CC)	CHARACTER	6	NCSPLSAF	SOURCE ADDRESS
204	(CC)	SIGNED	4	NCSPLSSU	SUBAREA ADDRESS
208	(D0)	SIGNED	2	NCSPLSEL	ELEMENT ADDRESS
210	(D2)	CHARACTER	6	NCSPLDAF	DESTINATION ADDRESS
210	(D2)	SIGNED	4	NCSPLDSU	SUBAREA ADDRESS
214	(D6)	SIGNED	2	NCSPLDEL	ELEMENT ADDRESS
216	(D8)	ADDRESS	4	NCSPLWKA	POINTER TO NCS WORK AREA
220	(DC)	ADDRESS	4	NCSPLCVT	POINTER TO ATCVT
224	(E0)	CHARACTER	4	NCSMDFY	CONTENTS DEPENDENT ON MODIFY COMMAND TYPE
228	(E4)	BITSTRING	4	NCSPLECB	ECB FOR VARY PGS
232	(E8)	ADDRESS	4	NCSPLFSB	POINTER TO USS-FSS RU
236	(EC)	CHARACTER	1	NCSPLFL1	VARY FLAGS
		1... ..		NCSPL2IN	SECOND ENTRY
		.1. ....		NCSPLSOM	SUPPRESS OPERATOR MESSAGE
		..1. ....		NCSPLEBN	ENTRY FROM BNN SSCP
		...1 ....		NCSPLSMN	SESSION SERVICES CREATED THE NCSPL
		.... 1...		NCSMSG	MODIFY MESSAGE, ID = XXXXXXXX
		.... .1..		NCSPLAPU	ACTIVATE PHYSICAL DONE BY LOAD
		.... ..1.		NCSPL2CN	SECOND CONTACT REQUEST
		.... ...1		NCSPLPOS	BNN POSTED
237	(ED)	CHARACTER	1	NCSPLFL2	VARY FLAGS
		1... ..		NCSPLVDP	NCSPL ON VARY DEFINITION PAB
		.1. ....		NCSPLRSF	NO SICK CLEAR BEFORE I/O
		..1. ....		NCSPLRIO	I/O = RESTART I/O
		...1 ....		NCSOUFCB	PURGE ONLY USER FMCB
		.... 1...		NCSPLDS	CIO SAVED RESPONSE DATA
		.... .1..		NCSREMPO	REMOTE POWER OFF SPECIFIED BY OPERATOR
		.... ..1.		NCSPLVIS	VARY IMM START CALLER OF CVP
		.... ...1		NCSPLVIT	VARY IMM TERM CALLER OF CVP
238	(EE)	CHARACTER	1	NCSPLFL3	FLAG BYTE
		1... ..		NCSPLMOM	ERP CAUSED BY FAILURE OF HIGHER NODE
		.1. ....		NCSFRMAL	FRAMES = ALL, FOR TRACE TYPE = DWNSTRM
		..1. ....		NCSPLANS	1=ACT IN ANSWER MODE 0=ACT IN NON-ANSWER MODE
		...1 ....		NCSGID	PATH WITH GID PARAMETER
		.... 1...		NCSPID	PATH WITH PID PARAMETER
		.... .1..		NCSANS	ACTIVATE WITH ANS PARAMETER
		.... ..1.		NCSFINAL	FINAL PARAMETER EXISTS
		.... ...1		NCSSEND	END PARAMETER EXISTS
239	(EF)	CHARACTER	1	NCSPLFL4	FLAG BYTE
		1... ..		NCSDLNID	ID PRESENT IN NCSPL
		.1. ....		NCSPLRSO	RESET ONLY
		..1. ....		NCSPLVID	ORIGINAL COMMAND WAS MODIFY DUMP

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
		...1 ....		NCSDSPE	DISPLAY EVERY
		.... 1...		NCSDSPA	DISPLAY ACT
		.... .1..		NCSDSPI	DISPLAY INACT
		.... ..1.		NCSDSPN	DISPLAY NONE
		.... ...1		NCSPL2AP	SECOND ACTPU TO 320X
240	(F0)	CHARACTER	1	NCSDLRSN	DIAL REASON CODES
241	(F1)	CHARACTER	1	NCSPLFL5	FLAG BYTE
		1... ....		NCSSCPPS	SSCP WORK AREA IN PRIVATE STORAGE
		.1.. ....		NCSSDLK	SDLC LINK PROCESSED
		..1. ....		NCSFORCE	FORCED DEACT IN PROGRESS
		...1 ....		NCSSKPSC	SKIP SICK CLEAR FOR ERP
		.... 1...		NCSERP2N	SECOND ERP
		.... ..1.		NCSINACT	ERP WILL NOT SCHEDULE INACTIVATE
		.... ..1.		NCSCDLRA	CD LINES ARE TO REMAIN ACTIVE
		.... ...1		NCSPLHIS	HOST CDRM IN THIS SEGMENT
242	(F2)	SIGNED	2	NCSPLOLN	LENGTH OUTBOUND RU
244	(F4)	ADDRESS	4	NCSPLSPL	POINTER TO ASSOCIATED NCSPL
248	(F8)	ADDRESS	4	NCSCRWKA	POINTER TO WORK AREA FOR C/R I/O
252	(FC)	ADDRESS	4	NCSPLRRP	POINTER TO REMOTE RN RDTE IN LOCAL DT
256	(100)	ADDRESS	4	NCSPLRUO	POINTER TO OUTBOUND RU
260	(104)	ADDRESS	4	NCSPLRUI	POINTER TO BUFFER FOR INBOUND RU
264	(108)	ADDRESS	4	NCSPLAPP	POINTER TO NCSPL APPENDAGE
268	(10C)	CHARACTER	8	NCCLDRID	LOAD/DUMP PCID(SEE PCID)
276	(114)	CHARACTER	8	NCSCDRMO	OLD CDRM NAME
276	(114)	CHARACTER	8	NCSDRFRM	MODIFY DR, FROM OPND
276	(114)	ADDRESS	4	NCSNPTLT	POINTER TO VARIABLE LENGTH NCPPATH LIST
280	(118)	UNSIGNED	1	NCSNPTCT	COUNT OF ENTRIES IN NCPPATH LIST
281	(119)	CHARACTER	3	*	NOT USED - AVAILABLE
284	(11C)	SIGNED	2	NCSPLSQN	SEQUENCE=NR. FOR RESPONSE
286	(11E)	BITSTRING	1	NCSPLGID	BINARY REPRESENTATION OF GID VALUE
287	(11F)	BITSTRING	1	NCSPLPID	BINARY REPRESENTATION OF PID VALUE
288	(120)	CHARACTER	8	NCSPLMID	LOGMODE = 'MODENAME'
296	(128)	ADDRESS	4	NCSPLNSN	RDTE NSNEA AT CLSDST
300	(12C)	CHARACTER	4	NCSSENSE	SENSE
300	(12C)	CHARACTER	1	NCSSNS1	SENSE DATA MAJOR CODE
301	(12D)	CHARACTER	1	NCSSNS2	SENSE MODIFIER BYTE
302	(12E)	CHARACTER	2	NCSSENS2	USER SENSE DATA
304	(130)	CHARACTER	8	NCSPLREP	REPRESENTATION = PARAMETER
304	(130)	ADDRESS	4	NCSCPWPT	POINTER TO CPWA
308	(134)	ADDRESS	4	NCSMGLPT	NOT USED - AVAILABLE
312	(138)	CHARACTER	8	NCSPLPUD	ID = 'RSCNAME' FOR TYPE = DWNSTRM TRACE
320	(140)	CHARACTER	3	NCSCRMSK	FLAGS FOR C/R CHECK POINTING
320	(140)	CHARACTER	2	NCSCHKPT	FLAGS FOR ITEMS CHECK POINTED. NOTE: THIS FIELD SHOULD MATCH CR4CHKPT IN CR4RECRD AND DLRCHKPT IN ISTSLRPL
		1... ....		NCSACTV	ACTIVE/INACTIVE STATUS 1=ACTIVE
		.1.. ....		NCSPACTV	PORT ACTIVE/INACTIVE STATUS
		..1. ....		NCSPOLD	POLL DELAY VALUE CHANGED
		...1 ....		NCSNRPL	NEGATIVE RESPONSE TO POLL LIMIT VALUE CHANGED
		.... 1...		NCSESLM	SESSION LIMIT VALUE CHANGED
		.... ..1.		NCSDTRLM	DEVICE TRANSMISSION LIMIT VALUE CHANGED
		.... ..1.		NCSLGAPL	APPLICATION CONTROLLER NAME (LOGAPPL) CHANGED
		.... ...1		NCSLGMOD	LOGON MODE (LOGMODE) CHANGED
		1... ....		NCSANSMD	ANSWER MODE STATUS CHANGED
		.1.. ....		NCSCUA	CUA VALUE CHANGED
		..1. ....		NCSRNAME	RNAME VALUE CHANGED
		...1 ....		NCSPTUSE	PATH USE/NOUSE STATUS CHANGED
		.... 1...		NCSCKRIN	RIN VALUES CHANGED
		.... ..1.		NCSCCKRY	CRYPTO VALUES CHANGED
		.... ..11		NCSRSVD1	NOT USED - AVAILABLE
322	(142)	CHARACTER	1	NCSCRMOD	NEW VALUES FOR ITEMS CHECK POINTED NOT OBTAINED FROM RDTE. NOTE: THIS FIELD SHOULD MATCH DCLCRMOD IN ISTDLRPL
		1... ....		NCSAIMOD	ACTIVE/INACTIVE STATUS 1=ACTIVE
		.1.. ....		NCSPTMOD	PORT ACTIVE/INACTIVE STATUS
		..11 1111		NCSRSVD2	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
323	(143)	UNSIGNED	1	NCSRNMCT	COUNT OF ENTRIES IN RNAME LIST
324	(144)	ADDRESS	4	NCSRNMMLT	POINTER TO VARIABLE LENGTH RNAME LIST
328	(148)	CHARACTER	8	NCSPLLND	LINE = 'LINENAME' FOR TYPE = DWNSTRM TRACE
328	(148)	CHARACTER	8	NCSOWNER	OWNER=SSCPNAME FOR VARY ACQ VARY REL
336	(150)	CHARACTER	8	NCSLDSTA	LOAD STATION
344	(158)	CHARACTER	8	NCDPSTA	DUMP STATION
352	(160)	CHARACTER	1	NCSPLFL6	FLAG BYTE
		1... ....		NCSLODNO	LOAD NO ON ACT COMMAND
		.1.. ....		NCSLODYS	LOAD YES ON ACT COMMAND
		..1. ....		NCSHALT	COMMAND FROM HALT
		...1 ....		NCSCDLIN	CD LINES ARE TO BE DEACTIVATED
		.... 1..		NCSNCPCA	1=370X IS CHANNEL ATTACHED 0=370X IS SDLC-LINK-ATTACHED
		.... .1..		NCCTP23	1=370X CHANNEL ADAPTER IS TYPE 2/3 0=370X CHANNEL ADAPTER IS TYPE 1/4
		.... ..1.		NCSNCPIT	INITIAL TEST IS REQUIRED BEFORE 370X LOAD
		.... ...1		NCSPLITU	TSO USER DISPLAY
353	(161)	CHARACTER	8	NCSNCPNM	NAME OF NCP TO BE LOADED OR DUMPED
361	(169)	CHARACTER	7	NCSNCPLM	NAME OF NCP LOAD MODULE TO BE LOADED
368	(170)	CHARACTER	1	NCSPLFL7	
		1... ....		NCSCDSPC	CDLINK SPECIFIED ON REL
		.1.. ....		*	RESERVED
		..11 1111		*	NOT USED - AVAILABLE
369	(171)	CHARACTER	8	NCSNCPFL	NCP LOAD FILE DDNAME
369	(171)	CHARACTER	6	NCSNCPPL	NCP LOAD FILE LUB NAME
375	(177)	CHARACTER	2	*	RESERVED - NOT AVAILABLE
377	(179)	CHARACTER	8	NCSNCPDF	NCP DUMP FILE DDNAME - FOR DUMP PROCESSING ONLY
377	(179)	CHARACTER	6	NCSNCPDL	NCP DUMP FILE LUB NAME
383	(17F)	UNSIGNED	1	NCSTRCNT	DATA COUNT FIELD
383	(17F)	UNSIGNED	1	NCSDRADR	MODIFY DR MOVE, ADDRESS OPERAND
THE FOLLOWING BYTE IS FOR LOAD PROCESSING ONLY					
384	(180)	CHARACTER	1	NCSDISK	ISOLA DISK SWITCHES
		1... ....		NCSLDDSK	LOAD FROM DISK 1 = YES, 0 = NO
		.1.. ....		NCSSVMOD	SAVE LOAD MODULE ON DISK 1 = SAVE
		..1. ....		NCSCCUDP	DISK AUTODUMP INDICATOR 1 = ON
		...1 ....		NCSCCULD	DISK AUTOLOAD INDICATOR 1 = ON
		.... 1..		NCSIGNOR	DO NOT CHANGE DISK SETTINGS
		.... .1..		NCSDSKFN	DISK FUNCTIONS PERFORMED
		.... ..1.		NCSBLEVL	SEND OLD (NOT ENHANDED) IPLINIT AND IPLFINAL RU-S
		.... ...1		NCSPAD	PAD BIT - DO NOT USE
385	(181)	BITSTRING	2	NCSLDLUB	SYS000 LUB ADDRESS FOR LOAD/DUMP
387	(183)	BITSTRING	1	NCSLDPUB	PUB NUMBER FOR LOAD/DUMP
388	(184)	ADDRESS	4	NCSLDDCB	POINTER TO 370X DCB
392	(188)	UNSIGNED	1	NCSNCPV	NCP LEVEL
393	(189)	BITSTRING	2	NCSIFLAG	FLAG BITS
		1... ....		NCSDPUM	PATH DECK INDICATOR 0 - PATH DEFINITION SET 1 - DYNAMIC PATH UPDATE MEMBER
		.1.. ....		NCSNPATH	NEUPATH KEYWORD INDICATOR 0 - NEUPATH KWD NOT SPECIFIED 1 - NEUPATH KWD SPECIFIED
		..1. ....		NCSCDRMI	MODIFY CDRM TYPE = INDICATOR 0 - TYPE = NORMAL 1 - TYPE = IMMEDIATE
		...1 ....		NCSPUSUB	VARY ACQ PUSUB INDICATOR 0 - PUSUB NOT CODED 1 - PUSUB CODED
		.... 1..		NCSDLI	DUMpload OPERAND INDICATOR 0 - DUMpload NOT CODED 1 - DUMpload CODED
		.... .1..		NCSLTYPE	LOAD REQUEST TYPE INDICATOR 0 - VARY ACT LOAD 1 - MODIFY LOAD
		.... ..11		NCSLDTYP	MODIFY LOAD ACTION TYPE INDICATOR 00 - ACTION = ADD 01 - ACTION = REPLACE 10 - ACTION = PURGE 11 - ACTION = CANCEL
		1... ....		NCSINUSE	NCSPL IN USE BY CS PAB
		.1.. ....		NCSABEND	DUMP PROCESS ABENDED
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
		.... 1111		*	NOT USED - AVAILABLE
395	(18B)	CHARACTER	1	*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	NCSPLITF	VIT INFORMATION MUST BE SAME AS ATCITPRM FORMAT

FOLLOWING FLAGS MUST BE IN SAME ORDER AS VIT ATCVT FLAGS(ATCITRA1)

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	BITSTRING	2	NCSITFL1	VIT FLAG FIELD
		1... ....		NCSITAPI	API OPTION SPECIFIED
		.1.. ....		NCSITLCK	LOCK OPTION SPECIFIED
		..1. ....		NCSITPSS	PSS OPTION SPECIFIED
		...1 ....		NCSITSMS	SMS OPTION SPECIFIED
		.... 1...		NCSITPIU	PIU OPTION SPECIFIED
		.... .1..		NCSITMSG	MESSAGE OPTION SPECIFIED
		.... ..1.		NCSITSCP	SSCP OPTION SPECIFIED
		.... ...1		NCSITCIO	CIO OPTION SPECIFIED
		1... ....		NCSITNRM	NRM OPTION SPECIFIED
		.1.. ....		NCSITAPC	APPC OPTION SPECIFIED
		..1. ....		NCSITESC	ESC OPTION SPECIFIED
		...1 ....		*	RESERVED
		.... 111.		*	NOT USED - AVAILABLE
		.... ...1		NCSITACT	VIT IS ACTIVE
2	(2)	SIGNED	2	NCSITSIZ	TRACE TABLE SIZE SPECIFIED
224	(E0)	STRUCTURE	4	NCSTUNST	TUNING STATISTICS
224	(E0)	BITSTRING	1	*	NOT USED - AVAILABLE
225	(E1)	BITSTRING	1	NCSTSFLG	TUNING STATISTICS FLAGS
225	(E1)	BITSTRING	1	*	NOT USED - AVAILABLE
226	(E2)	BITSTRING	1	*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
224	(E0)	STRUCTURE	4	NCSLS	CHANGE LINE SCHEDULING PARAMETERS
224	(E0)	BITSTRING	1	NCSLSCMD	PARTICULAR COMMAND TYPE
225	(E1)	BITSTRING	1	NCSPLRCD	VALUE OF PARAMETER
226	(E2)	CHARACTER	2	*	NOT USED - AVAILABLE
224	(E0)	STRUCTURE	4	NCSCYPTO	CRYPTOGRAPHY PARAMETER
224	(E0)	BITSTRING	1	NCSCYFLG	CRYPTOGRAPHY FLAGS
		1... ....		NCSENCR	VALUE OF BIT: 0=OPTION 1=REQUIRED
		..11 1111		*	NOT USED - AVAILABLE
225	(E1)	CHARACTER	3	*	NOT USED - AVAILABLE

NCSPL APPENDAGE DEFINITION

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2160	NCSAPP	
0	(0)	CHARACTER	72	NCSAPSA	SAVE AREA
72	(48)	CHARACTER	4	NCSAPECB	ECB
76	(4C)	CHARACTER	8	NCSAPTXT	DUMP DATA
84	(54)	ADDRESS	4	NCSAPEND	HIGH STORAGE ADDRESS
88	(58)	CHARACTER	2056	NCSAPBUE	
88	(58)	CHARACTER	1	NCSRSV04	NOT USED - AVAILABLE
89	(59)	UNSIGNED	2	NCSAPLEN	LENGTH OF LOAD/DUMP RU
91	(5B)	CHARACTER	5	NCSAPRU	IPL COMMAND RU PREFIX
96	(60)	CHARACTER	2048	NCSAPDAT	RESPONSE FOR DUMP, OUTBOUND LOAD
2144	(860)	UNSIGNED	2	*	AVAILABLE
2146	(862)	UNSIGNED	2	*	AVAILABLE
2148	(864)	UNSIGNED	2	*	AVAILABLE
2150	(866)	UNSIGNED	2	NCSAPBSZ	LENGTH OF DUMP TEXT OR LOAD TEXT BUFFER

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2152	(868)	UNSIGNED	2	NCSAPPOS	BUFFER INDEX FOR BLOCKING ON LOAD OR FOR DEBLOCKING ON DUMP
2154	(86A)	UNSIGNED	2	*	SWITCHES FOR BLOCKING OR DEBLOCKING
		1... ....		NCSAPSN	1= TEXT PROCESSED
		.1.. ....		NCSAPINT	IPL HAS BEEN INITIATED
		..1. ....		NCSAP25	1=3725 0=3705
		...1 ....		NCSAPSX	1=SSP SUPPORTS EXTENDED BLOCKSIZES
		.... 1..		NCSAPMXB	1=MOSS SUPPORTS EXTENDED BLOCKSIZES
2154	(86A)	BITSTRING	1	*	AVAILABLE
2156	(86C)	ADDRESS	4	NCSAPPAB	POINTER TO BNN VARY PAB
96	(60)	STRUCTURE	10	NCSAPIPR	IPLINIT PARMS
96	(60)	CHARACTER	1	NCSAPDC1	DISK CONTROL BYTE 1
		1... ....		NCSAPLDD	LOAD FROM DISK
		.111 1111		*	RESERVED - ZERO
97	(61)	CHARACTER	8	NCSAPLMD	LOAD MODULE NAME
105	(69)	CHARACTER	1	NCSAPACT	ACTION WORD FOR MODIFY LOAD
		11.. ....		NCSAPFLD	LOCAL DISK REQUEST 00 - ADD 01 - REPLACE 10 - PURGE 11 - CANCEL
		..11 1111		*	AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
96	(60)	STRUCTURE	5	NCSAPFPR	IPLFINAL FIELDS
96	(60)	CHARACTER	4	NCSAPNEP	NCP ENTRY POINT
100	(64)	CHARACTER	1	NCSAPDC2	DISK CONTROL BYTE 2
		1... ....		NCSAPVM	SAVE LOAD MOD ON DISK
		.1.. ....		NCSAPIGN	1=IGNORE APCLD, APCDP
		..1. ....		NCSAPCLD	DISK AUTOLOAD
		...1 ....		NCSAPCDP	DISK AUTODUMP
		.... 1111		*	RESERVED - NOT AVAIL

USS/FSS RU AREA MAP

0	(0)	STRUCTURE	2	NCSUSSRU	
0	(0)	SIGNED	2	NCSRULEN	LENGTH OF RU
2	(2)	CHARACTER	*	NCSRUI	START OF RU

Constants

Len	Type	Value	Name	Description
1	HEX	60	NCSPLTYP	NCSPL CONTROL BLOCK ID

COMMAND VALUES FOR C/R FIELD NCSCRCMD

1	DECIMAL	0	NCSCRWR	WRITE TO C/R DATA SET
1	DECIMAL	1	NCSCROPN	OPEN C/R DATA SET
1	DECIMAL	2	NCSCRCLS	CLOSE C/R DATA SET
1	DECIMAL	3	NCSCRDEL	DELETE C/R DATA SET RECORD
1	DECIMAL	4	NCSCROPQ	OPERATOR QUERY
1	DECIMAL	1	NCSDCID	CONSOLE ID INDICATOR
2	HEX	0800	NCSCRIO	INDICATES REQUESTS FOR VSAM I/O FOR C/R
2	HEX	0C00	NCSCRVIO	VSAM I/O OPERATION

GENERAL CONSTANTS

2	DECIMAL	2032	NCSWASZ	NCSPL WORK AREA SIZE
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CONSTANTS FOR VERB CODES

1	HEX	00	NCSPLVC0	ERROR
1	HEX	01	NCSPLVC1	VARY
1	HEX	02	NCSPLVC2	MODIFY
1	HEX	03	NCSPLVC3	ERP
1	HEX	04	NCSPLVC4	DISPLAY
1	HEX	05	NCSPLVC5	STATUS TO SM
1	HEX	06	NCSPLVC6	INTERNAL COMMAND
1	HEX	07	NCSPLVC7	INIT/TERM TUSM
1	HEX	08	NCSPLVC8	DIAL

Len	Type	Value	Name	Description
CONSTANTS FOR VARY COMMAND MODIFIERS				
2	HEX	0001	NCSVACT	ACTIVATE
2	HEX	0002	NCSVDEA	DEACTIVATE
2	HEX	0802	NCSVDEF	DEACTIVATE FORCE
2	HEX	1002	NCSVDER	DEACTIVATE REACT
2	HEX	0004	NCSVLON	LOGON
2	HEX	8004	NCSVNLON	NOLOGON
2	HEX	0080	NCSVVPP	VARY NORMAL CLEANUP REQUEST
2	HEX	0010	NCSVIMM	IMMEDIATE
2	HEX	0020	NCSVINT	INTERNAL ONLY
2	HEX	0005	NCSVALO	ACTIVATE WITH LOGON
2	HEX	0012	NCSVDEI	DEACTIVATE IMMEDIATE
2	HEX	0032	NCSVDI	DEACTIVATE IMMEDIATE INTERNAL ONLY
2	HEX	1802	NCSVDEG	DEACTIVATE GIVEBACK
2	HEX	2000	NCSVACQ	ACQUIRE
2	HEX	2001	NCSACQAC	ACQUIRE W/ACTIVATE
2	HEX	2005	NCSACQAL	ACQUIRE W/ACTIVATE W/LOGON
2	HEX	4000	NCSVREL	RELEASE
2	HEX	4010	NCSRELIM	RELEASE IMMEDIATE
2	HEX	4012	NCSRELGB	RELEASE GIVEBACK
2	HEX	FFF8	NCSCNOTF	NOTIFY REQUEST
2	HEX	0008	NCSVANON	ANSWER = ON
2	HEX	0040	NCSVANOF	ANSWER = OFF
2	HEX	0100	NCSVPUSE	PATH = USABLE
2	HEX	0200	NCSVPNUS	PATH = NOT USABLE
2	HEX	0400	NCSVINOP	INOPERATIVE
2	HEX	0008	NCSVDRDS	DRDS
CONSTANTS FOR MODIFY COMMAND MODIFIERS				
2	HEX	0001	NCSMDUM	DUMP 3705
2	HEX	0002	NCSMENCR	FEATURE-02
2	HEX	0004	NCSMCHA	CHANGE
2	HEX	0008	NCSMNSY	NETSOL = YES
2	HEX	0010	NCSMNSN	NETSOL = NO
2	HEX	0020	NCSMTRY	TRACE = YES
2	HEX	0040	NCSMTRN	TRACE = NO
2	HEX	0100	NCSMTPR	TRACE PRINT
2	HEX	0180	NCSMLMNA	ADD LOAD MODULE TO MOSS DISK
2	HEX	0200	NCSMCDRM	MODIFY CDRM OWNER OF CDRSC
2	HEX	0280	NCSMLMNR	REPLACE LOAD MODULE ON MOSS DISK
2	HEX	0408	NCSMDRM	DR MOVE
2	HEX	0480	NCSMLMNP	PURGE LOAD MODULE FROM MOSS DISK
2	HEX	0808	NCSMDRD	DR DELETE
2	HEX	0880	NCSMLMNC	CANCEL LOAD MODULE BEING LOADED TO DISK
2	HEX	2020	NCSMVTRY	
2	HEX	2040	NCSMVTRN	
2	HEX	4001	NCSDYDP	MODIFY DUMP DYNAMIC
CONSTANTS FOR DIAL COMMAND MODIFIERS				
2	HEX	0000	NCSDPF	POTENTIAL FAIL
2	HEX	0001	NCSDSTRT	DIAL START
2	HEX	0002	NCSDOH1	OFFHOOK 1
2	HEX	0004	NCSDOH2	OFFHOOK 2
2	HEX	0010	NCSDDF	DIAL FAILED
2	HEX	0008	NCSDLKS	LINK START
2	HEX	0020	NCSDLKC	LINK COMPLETION
2	HEX	0040	NCSDHU	HANGUP
2	HEX	0080	NCSDLK	DEALLOCATE
2	HEX	0100	NCSDGIVE	GIVE
2	HEX	0200	NCSDINOP	INOP
2	HEX	0400	NCSDLRST	RECOVERY SW LINKS AFTER RN FAILURE
CONSTANTS FOR ERP COMMAND MODIFIERS				
2	HEX	0001	NCSEERRA	ERP REQUEST
2	HEX	0002	NCSECLOR	VARY NORMAL CLOSE REQUEST
2	HEX	0004	NCSEDACT	ERP DEACTIVATE REQUEST
2	HEX	0008	NCSERSTR	RSTRT ENTRY FROM DLR PROC



Len	Type	Value	Name	Description
2	HEX	0010	NCSMEDISC	INOP (DISCONNECT) WAS RECEIVED FROM NCP
2	HEX	0802	NCSVFORC	FORCED DEACT
2	HEX	1002	NCSVRACT	DEACT AND REACT
<b>PURGE MINOR RETURN CODES CONSTANTS</b>				
1	HEX	05	NCSAPABN	APPLICATION ABEND
1	HEX	06	NCSCLDST	CLOSE DEST OCCURED
1	HEX	08	NCSDDISC	DIAL DISCONNECT OCCURED - CONN NO LONGER AVAILABLE
1	HEX	09	NCSBTHEX	BUFFER THRESHOLD EXCEEDED
1	HEX	0C	NCSNOCON	ACTIVATING PU TYPE 4 AS A REMOTE THAT ORIGINALLY WAS GEN'D AS A LOCAL-AND WE ARE BYPASSING THE FIRST CONTACT
<b>I/O OR RESTART RETURN CODES CONSTANTS</b>				
1	HEX	00	NCSIOSUC	I/O SUCCESSFUL
1	HEX	04	NCSIOERR	I/O ERROR
1	HEX	08	NCSIOPRG	I/O PURGED
1	HEX	00	NCSRSSUC	RESTART SUCCESSFUL
1	HEX	04	NCSRSERR	RESTART ERROR
1	HEX	00	NCSVAIPL	IPL NO RESTART ON VARY ACTV
1	HEX	10	NCSVANRA	IPL SUCCESSFUL, NO RESTART AVAILABLE ON VARY ACTIVE
1	HEX	08	NCSVAWMF	WARM START FAILURE FOR VARY ACTIVATE
1	HEX	0C	NCSVAIPF	IPL FAILED ON VARY ACTIVATE
1	HEX	14	NCSDSIA	INVALID ADDRESS SPECIFIED ON DISPLAY STORAGE CMND
1	HEX	08	NCSVAISZ	NCP SIZE TOO LARGE
1	HEX	00	NCSIPLSC	IPL SUCCESSFUL
1	HEX	0C	NCSIOER	I/O ERROR ON REMOTE IPL
1	HEX	04	NCSNCPAC	REMOTE NCP ALREADY ACTIVE
1	HEX	2C	NCSHDREC	HALF A DUMP RECORD
1	HEX	40	NCSDPEND	DYNAMIC DUMP COMPLETE REQUESTED STORAGE ADDRESS EXCEEDED NCP SIZE
1	HEX	44	NCSDSKEM	3725 DISKETTE EMPTY
1	HEX	50	NCSNNHST	DUMP FROM NON-NATIVE HOST
1	HEX	70	NCSNCRPF	REMOTE POWER OFF
<b>CONSTANTS FOR STATUS COMMAND MODIFIERS</b>				
2	HEX	0001	NCSSES	END SESSION
2	HEX	0002	NCSBF	BIND FAILURE
2	HEX	0004	NCSUF	UNBIND FAILURE
2	HEX	0008	NCSSECDR	END SESSION FOR CROSS DOMAIN RESOURCE
2	HEX	0001	NCSINIT	
2	HEX	0002	NCSTERM	
<b>CONSTANTS FOR INTERNAL COMMAND MODIFIERS</b>				
2	HEX	0001	NCSTPPST	TPPST COMMAND
2	HEX	0002	NCSII	IPL INIT COMMAND
2	HEX	0004	NCSIT	IPL COMMAND
2	HEX	0008	NCSIF	IPL FINAL COMMAND
2	HEX	0010	NCSDI	DUMP INIT COMMAND
2	HEX	0020	NCSDT	DUMP TEXT COMMAND
2	HEX	4001	NCSRDYDP	DYNAMIC DUMP TEXT REQUEST
2	HEX	0040	NCSDF	DUMP FINAL COMMAND
2	HEX	0080	NCSCON	CONTACT COMMAND
2	HEX	0100	NCSDICON	DISCONTACT COMMAND
2	HEX	0200	NCSMSFMD	SEND FMD
2	HEX	0400	NCSSEND	SEND
2	HEX	0800	NCSPURGE	PAB PURGE
2	HEX	1000	NCSRTGOH	VBV VALUE FOR INTERNAL COMMAND-RTGOH RECVD.
2	HEX	2000	NCSRESLU	RESET LU
2	HEX	3028	NCSCRDS	RECORD DEV STATS COMMAND
2	HEX	F01A	NCSCQUIS	QUIESCE COMMAND
2	HEX	381F	NCSSNUSS	SEND USS MESSAGE
1	HEX	04	NCSNC	NOT CONTACTED
1	HEX	00	NCSLD	CONTACTED LOADED

Len	Type	Value	Name	Description
1	HEX	0C	NCSNLD	CONTACTED NEEDS LOAD
1	HEX	08	NCSNCD	NOT CONTACTED DUE TO DEACT
1	HEX	10	NCSNCE	NOT CONTACTED DUE TO ERP
1	HEX	24	NCSNFME	NEGATIVE FME
<b>CONSTANTS FOR IORC FOR DISPLAY STORAGE</b>				
1	HEX	0C	NCSDSDEA	PRIOR DEACT
1	HEX	04	NCSDSFAL	FAIL OTHER THAN PRIOR DEACT
<b>TYPE CODES FOR CONFIGURATION RESTART</b>				
1	HEX	01	NCSCTRLM	CHANGE DEVICE TRANS LIMIT
1	HEX	02	NCSCNPOL	CHANGE NEGATIVE POLL RESPONSE LIMIT
1	HEX	03	NCSCSESS	CHANGE SESSION LIMIT
1	HEX	04	NCSCPOLL	CHANGE LINE SERV SEEK PAUSE
1	HEX	05	NCSCREP	VARY WITH REPNAME PU=(4,PEER)
<b>FM DATA COMMAND CODES</b>				
2	HEX	D001	NCSCAPU	ACT PHYS
2	HEX	D002	NCSCDPU	DEACT PHYS
2	HEX	D003	NCSCALU	ACT LOG
2	HEX	D004	NCSCDLU	DEACT LOG
2	HEX	D005	NCSCSDT	SDT
2	HEX	D405	NCSCISDT	INTERNAL SDT
2	HEX	2006	NCSCFME	SEND POS RESPONSE
2	HEX	2007	NCSCEXCP	SEND NEG RESPONSE
2	HEX	3008	NCSCCON	CONTACT
2	HEX	3009	NCSCDCON	DISCONTACT
2	HEX	300A	NCSCIPLI	IPL INIT
2	HEX	300B	NCSCIPLT	IPL
2	HEX	300C	NCSCIPLF	IPL FINAL
2	HEX	300D	NCSCDUMI	DUMP INIT
2	HEX	300E	NCSCDUMP	DUMP
2	HEX	300F	NCSCDUMF	DUMP FINAL
2	HEX	3010	NCSCACTL	ACT LINK
2	HEX	3011	NCSCDACL	DEACT LINK
2	HEX	3012	NCSCSSV	SET STATE VECTOR
2	HEX	3013	NCSCNSP	NS PROC ERROR
2	HEX	3019	NCSCSTD	SET TIME & DATE
2	HEX	9014	NCSCSEP	SWITCH TO EP
2	HEX	9015	NCSCSNC	SWITCH TO NCP
2	HEX	3016	NCSC LSD	LINE SCHED PARM
2	HEX	3017	NCSCDS	DISPLAY STORAGE
2	HEX	3018	NCSCPWO	REMOTE POWER OFF
2	HEX	301C	NCSSNFMD	SEND FMD
2	HEX	301A	NCSCDIAL	DIAL
2	HEX	301B	NCSCADIL	ABANDON DIAL
2	HEX	301D	NCSCAANS	ENABLE ANSWER MODE
2	HEX	301E	NCSCAANS	ABANDON ANSWER MODE
2	HEX	301F	NCSCANA	ASSIGN NET ADDRESS
2	HEX	3020	NCSCFNA	FREE NET ADDRESS
2	HEX	3021	NCSCACON	ABANDON CONNECTION
2	HEX	3022	NCSCSCV	SET CONTROL VECTOR
2	HEX	3023	NCSCACLT	SSCP ACT LINE TRACE
2	HEX	3024	NCSCDCLT	SSCP DEACT LINE TRACE
2	HEX	FFFF	NCSNCP PG	PURGE
2	HEX	2025	NCSC TOO	TERMINATE OTHER ORDERLY
2	HEX	2026	NCSC TOF	TERMINATE OTHER FORCED
2	HEX	2027	NCSC TOC	TERMINATE OTHER CLEANUP, ORDERLY
<b>NEW VALUES FOR NCSPLVBF CONSTANTS</b>				
2	HEX	00A0	NCSMCUTY	TRACE TYPE = DWNSTRM
2	HEX	00C0	NCSMCUTN	NTRACE TYPE = DWNSTRM
2	HEX	2001	NCSMMOS	MOSS DUMP
2	HEX	1001	NCSMCSP	CSP DUMP
2	HEX	4020	NCSMSITY	TRACE TYPE=SIT
2	HEX	1020	NCSMSMSY	TRACE TYPE=SMS
2	HEX	0820	NCSMLINY	TRACE TYPE=LINE
2	HEX	0420	NCSMIOY	TRACE TYPE=IO

Len	Type	Value	Name	Description
2	HEX	0220	NCSMBUFY	TRACE TYPE=BUF
2	HEX	0120	NCSMGPTY	TRACE TYPE=GPT
2	HEX	8820	NCSMTGY	TRACE TYPE=TG
2	HEX	4040	NCSMSITN	NOTRACE TYPE=SIT
2	HEX	1040	NCSMSMSN	NOTRACE TYPE=SMS
2	HEX	0840	NCSMLINN	NOTRACE TYPE=LINE
2	HEX	0440	NCSMION	NOTRACE TYPE=IO
2	HEX	0240	NCSMBUFN	NOTRACE TYPE=BUF
2	HEX	0140	NCSMGPTN	NOTRACE TYPE=GPT
2	HEX	8840	NCSMTGN	NOTRACE TYPE=TG
2	HEX	0401	NCSMTNCP	TRANSFER NCP FROM DISK
2	HEX	0801	NCSMPNCP	PURGE NCP DUMP FROM DISK
2	HEX	2801	NCSMPMOS	PURGE MOSS DUMP
2	HEX	1801	NCSMP CSP	PURGE CSP DUMP
NEW VALUES FOR NCSPLCMD				
2	HEX	0041	NCSCLCND	LOAD CONDITIONALLY
2	HEX	0042	NCSCUCND	LOAD UNCONDITIONALLY
2	HEX	0043	NCSCRSRT	RESTART 370X OR CLUS
2	HEX	0044	NCSDUCMD	DUMP 370X
2	HEX	0045	NCSCERPP	PERFORM ERP DUMP AND RELOAD OF 370X
VALUES FOR NCSCMDB				
1	HEX	06	NCSBFME	SEND POSITIVE RESPONSE COMMAND
1	HEX	07	NCSBEXC	SEND NEGATIVE RESPONSE COMMAND
CONSTANTS FOR DIAL REASON CODES				
1	HEX	01	NCSDLRRD	REDIAL
1	HEX	02	NCSDLRQT	QUIT
NEW VALUES FOR NCSIORC				
1	HEX	00	NCSLDAOK	COMMAND PROCESSED SUCCESS
1	HEX	04	NCSLDACT	NCP ACTIVE-LOAD NOT PERF
1	HEX	10	NCSLDCAN	RELOAD DECLINED BY OPER
1	HEX	08	NCSLDIOP	I/O PURGED
1	HEX	0C	NCSLDNOG	COMMAND FAILED
1	HEX	14	NCSDUCOM	DUMP COMPLETE
1	HEX	18	NCSHALTD	CMD REJECTED,HALT IN PROGRESS
1	HEX	1C	NCSUNREC	COMMAND UNRECOGNIZED
1	HEX	20	NCSNOSTG	CMD REJ,INSUFF STORAGE
1	HEX	00	NCSDOS	DIAL-OUT SUCCESSFUL
1	HEX	04	NCSDOF	DIAL-OUT UNSUCCESSFUL
1	HEX	08	NCSDOP	DIAL-OUT PENDING
1	HEX	00	NCSDCS	DIAL-CONTACT LOADED
1	HEX	0C	NCSDCF	DIAL-CONTACT FAILED
1	HEX	00	NCSDAS	DIAL-ABANDON CONN COMPLETE
1	HEX	00	NCSDENSO	ENABLE ANSWER SUCCESSFUL
1	HEX	04	NCSDOFHR	OFFHOOK REQUIRED
1	HEX	08	NCSDENSF	ENABLE ANSWER FAIL
1	HEX	28	NCSPOFF	PU POWERED OFF
NEW VALUES FOR NCSPRMRC				
1	HEX	10	NCSFIRM	RESTART SUCC,OPENDST REQ
1	HEX	11	NCSEWRN	CON LOST,RECOV IN PROGRESS
CONSTANTS FOR TRACE				
2	HEX	0820	NCSACTLT	ACTIVATE LINE TRACE
2	HEX	0840	NCSDACTL	DEACTIVATE LINE TRACE
DISPLAY COMMAND MODIFIER CONSTANTS				
2	HEX	0001	NCSDPATH	PATHS
2	HEX	0002	NCSDISP	DOMAIN DISPLAY REQUEST
VALUES FOR NCSSCOPE				
4	DECIMAL	0	NCSCOPE	SCOPE=COMP PARAMETER SPECIFIED
4	DECIMAL	1	NCSCOPA	SCOPE=ALL PARAMETER SPECIFIED
4	DECIMAL	2	NCSCOPO	SCOPE=ONLY PARAMETER SPECIFIED
4	DECIMAL	3	NCSCOPEU	SCOPE=U PARAMETER SPECIFIED

Len	Type	Value	Name	Description
4	DECIMAL	4	NCSCOPW	WARM PARAMETER SPECIFIED
VALUE FOR NCSNCP9				
1	DECIMAL	9	NCSNCP9	NCP LEVEL CONSTANT
CONSTANTS FOR NCSAPFLD AND NCSLDTYP				
0	BIT	00	NCSMLAD	CONSTANT FOR ACTION=ADD
0	BIT	01	NCSMLRP	CONSTANT FOR ACTION=REPLACE
0	BIT	10	NCSMLPG	CONSTANT FOR ACTION=PURGE
0	BIT	11	NCSMLCN	CONSTANT FOR ACTION=CANCEL

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTNCSPL	0		1	NCSCMDB	75		3
NCSABCON	41	08	3	NCSCMDNT	6A		2
NCSABEND	18A	40	3	NCSCPWPT	130		3
NCSACTV	140	80	4	NCSCRCMD	67		2
NCSADJ	59		6	NCSCRDSE	6B	08	3
NCSAIMOD	142	80	4	NCSCRFLG	6B		2
NCSANS	EE	04	3	NCSCRMOD	142		3
NCSANSMD	141	80	4	NCSCRMSK	140		2
NCSAPACT	69		2	NCSCRPID	68		2
NCSAPBSZ	866		2	NCSCRRTN	40		2
NCSAPBUE	58		2	NCSCRWKA	F8		2
NCSAPCDP	64	10	3	NCSCPT23	160	04	3
NCSAPCLD	64	20	3	NCSCUA	141	40	4
NCSAPDAT	60		3	NCSCYFLG	E0		2
NCSAPDC1	60		2	NCSCYPTO	E0		1
NCSAPDC2	64		2	NCSDACLK	41	04	3
NCSAPECB	48		2	NCSDCONT	41	10	3
NCSAPEND	54		2	NCSDCTCT	41	02	3
NCSAPFLD	69	80	3	NCSDDEST	5D		6
NCSAPFPR	60		1	NCSDISK	180		3
NCSAPIGN	64	40	3	NCSDLI	189	08	3
NCSAPINT	86A	40	3	NCSDLID	61		2
NCSAPIPR	60		1	NCSDLNID	EF	80	3
NCSAPLDD	60	80	3	NCSDLRSN	F0		2
NCSAPLEN	59		3	NCSDPSTA	158		2
NCSAPLMD	61		2	NCSDPUM	189	80	3
NCSAPMXB	86A	08	3	NCSDRACT	44	80	3
NCSAPNEP	60		2	NCSDRADR	17F		4
NCSAPP	0		1	NCSDRFRM	114		3
NCSAPPAB	86C		2	NCSDRTO	59		3
NCSAPPOS	868		2	NCSDSKFN	180	04	4
NCSAPRU	5B		3	NCSDSNPR	76	01	3
NCSAPSA	0		2	NCSDSPA	EF	08	3
NCSAPSNT	86A	80	3	NCSDSPE	EF	10	3
NCSAPSVM	64	80	3	NCSDSPI	EF	04	3
NCSAPSXB	86A	10	3	NCSDSPN	EF	02	3
NCSAPTXT	4C		2	NCSDTRLM	140	04	4
NCSAP25	86A	20	3	NCSENCN	E0	80	3
NCSBLEVL	180	02	4	NCSEND	EE	01	3
NCSCBID	0		3	NCSERP2N	F1	08	3
NCSCCUDP	180	20	4	NCSESLM	140	08	4
NCSCCULD	180	10	4	NCSFINAL	EE	02	3
NCSCDLIN	160	10	3	NCSFLAGS	2		3
NCSCDLRA	F1	02	3	NCSFMCLD	6B	20	3
NCSCDRMI	189	20	3	NCSFMERP	6B	10	3
NCSCDRMN	59		4	NCSFORCE	F1	20	3
NCSCDRMO	114		2	NCSFRMAL	EE	40	3
NCSCDSPC	170	80	3	NCSFSCON	37	02	5
NCCHKPT	140		3	NCSGID	EE	10	3
NCCKCRY	141	04	4	NCSHALT	160	20	3
NCCKRIN	141	08	4	NCSIFLAG	189		2
NCSCMDA	74		3	NCSIGNOR	180	08	4

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
NCSINACT	F1	04	3	NCSPLCLD	6B	40	3
NCSINUSE	18A	80	3	NCSPLCMD	74		2
NCSIONAP	CC		2	NCSPLCTL	74	40	4
NCSIORC	3		3	NCSPLCVT	DC		2
NCSITACT	1	01	3	NCSPLDAF	D2		3
NCSITAPC	1	40	3	NCSPLDEL	D6		4
NCSITAPI	0	80	3	NCSPLDS	ED	08	3
NCSITCIO	0	01	3	NCSPLDSU	D2		4
NCSITEND	76	20	3	NCSPLEBN	EC	20	3
NCSITESC	1	20	3	NCSPLECB	E4		2
NCSITEXT	76	40	3	NCSPLFLO	74	10	4
NCSITFL1	0		2	NCSPLFL1	EC		2
NCSITFL2	76		2	NCSPLFL2	ED		2
NCSITINT	76	80	3	NCSPLFL3	EE		2
NCSITLCK	0	40	3	NCSPLFL4	EF		2
NCSITMSG	0	04	3	NCSPLFL5	F1		2
NCSITNRM	1	80	3	NCSPLFL6	160		2
NCSITPIU	0	08	3	NCSPLFL7	170		2
NCSITPSS	0	20	3	NCSPLFSB	E8		2
NCSITSCP	0	02	3	NCSPLGID	11E		2
NCSITSIZ	2		2	NCSPLHIS	F1	01	3
NCSITSMS	0	10	3	NCSPLINT	74	04	4
NCSLDDCB	184		2	NCSPLITF	0		1
NCSLDDSK	180	80	4	NCSPLITU	160	01	3
NCSLDLUB	181		2	NCSPLLID	59		2
NCSLDPUB	183		2	NCSPLLND	148		2
NCSLDRID	10C		2	NCSPLLPT	70		2
NCSLDSTA	150		2	NCSPLMID	120		2
NCSLDTYP	189	02	3	NCSPLMOM	EE	80	3
NCSLGAPL	140	02	4	NCSPLNID	38		5
NCSLGMOD	140	01	4	NCSPLNON	2	10	4
NCSLODNO	160	80	3	NCSPLNSN	128		2
NCSLODYS	160	40	3	NCSPLOLN	F2		2
NCSLS	E0		1	NCSPLPDB	3C		4
NCSLSCMD	E0		2	NCSPLPHD	38		4
NCSLTYPE	189	04	3	NCSPLPID	11F		2
NCSMDFY	E0		2	NCSPLPO	37	01	5
NCSMDRQD	40	80	3	NCSPLPOS	EC	01	3
NCSMGLPT	134		3	NCSPLPUD	138		2
NCSMSG	EC	08	3	NCSPLRAD	C8		2
NCSMSGSP	77		2	NCSPLRCD	E1		2
NCSNCPA	160	08	3	NCSPLREL	41	01	3
NCSNCPDF	179		2	NCSPLREP	130		2
NCSNCPDL	179		3	NCSPLREQ	2	40	4
NCSNCPPEP	69		2	NCSPLRID	49		2
NCSNCPIT	160	02	3	NCSPLRIO	ED	20	3
NCSNCPPLF	171		2	NCSPLRPH	18		3
NCSNCPPL	171		3	NCSPLRPT	6C		2
NCSNCPML	169		2	NCSPLRRP	FC		2
NCSNCPMLV	188		2	NCSPLRSF	ED	40	3
NCSNCPNM	161		2	NCSPLRSO	EF	40	3
NCSNETID	51		2	NCSPLRUI	104		2
NCSNPATH	189	40	3	NCSPLRUO	100		2
NCSNPTCT	118		4	NCSPLSAF	CC		3
NCSNPTLT	114		4	NCSPLSEL	D0		4
NCSNRPL	140	10	4	NCSPLSID	37		3
NCSOPRQU	6B	04	3	NCSPLSMN	EC	10	3
NCSOUFMC	ED	10	3	NCSPLSOM	EC	40	3
NCSOWNER	148		3	NCSPLSPL	F4		2
NCSPACTV	140	40	4	NCSPLSQN	11C		2
NCSPAD	180	01	4	NCSPLSSU	CC		4
NCSPFX	0		2	NCSPLSTA	37		4
NCSPID	EE	08	3	NCSPLSYN	74	20	4
NCSPLACQ	41	20	3	NCSPLSYS	74	80	4
NCSPLANS	EE	20	3	NCSPLUAD	78		2
NCSPLAPP	108		2	NCSPLUFM	74	08	4
NCSPLAPU	EC	04	3	NCSPLVBF	1E		5

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
NCSPLVCD	1D		5	NCSVNCSA	41	80	3
NCSPLVDP	ED	80	3	NCSVSTAT	2	80	4
NCSPLVFL	41		2				
NCSPLVID	EF	20	3				
NCSPLVIS	ED	02	3				
NCSPLVIT	ED	01	3				
NCSPLWEL	10		3				
NCSPLWKA	D8		2				
NCSPLWRE	7C		2				
NCSPLWRF	80		2				
NCSPLWRM	6B	80	3				
NCSPLWTD	80		3				
NCSPL2AP	EF	01	3				
NCSPL2CN	EC	02	3				
NCSPL2IN	EC	80	3				
NCSPLD	140	20	4				
NCSPRIV	2	20	4				
NCSPRMRC	43		2				
NCSPTMOD	142	40	4				
NCSPTUSE	141	10	4				
NCSPUSUB	189	10	3				
NCSREMPO	ED	04	3				
NCSRNMCT	143		2				
NCSRNME	141	20	4				
NCSRNMLT	144		2				
NCSRNP	45		2				
NCSRSD1	141	02	4				
NCSRSD2	142	20	4				
NCSRSD4	37	80	5				
NCSRSD4	58		3				
NCSRUI	2		2				
NCSRULEN	0		2				
NCSSCOPE	42		2				
NCSSCPPS	F1	80	3				
NCSSDLK	F1	40	3				
NCSSENSE	12C		2				
NCSSENS2	12E		3				
NCSSKPSC	F1	10	3				
NCSSNS1	12C		3				
NCSSNS2	12D		3				
NCSSSRID	59		5				
NCSSTCMD	6B	01	3				
NCSSVMOD	180	40	4				
NCSTRCNT	17F		3				
NCSTSFLG	E1		2				
NCSTUNST	E0		1				
NCSUSRNF	6B	02	3				
NCSUSSRU	0		1				
NCSVANCP	74	02	4				
NCSVBF01	1E	80	6				
NCSVBF02	1E	40	6				
NCSVBF03	1E	20	6				
NCSVBF04	1E	10	6				
NCSVBF05	1E	08	6				
NCSVBF06	1E	04	6				
NCSVBF07	1E	02	6				
NCSVBF08	1E	01	6				
NCSVBF09	1F	80	6				
NCSVBF10	1F	40	6				
NCSVBF11	1F	20	6				
NCSVBF12	1F	10	6				
NCSVBF13	1F	08	6				
NCSVBF14	1F	04	6				
NCSVBF15	1F	02	6				
NCSVBF16	1F	01	6				
NCSVDEL	41	40	3				
NCSVVERB	1D		4				

## Node Initialization Block (NIB)

<b>Function:</b>	NIB describes the characteristics of a session (OPNDST or CLSDST) request. It identifies the LU with which a session is to be established or terminated.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	64 (X'40')
<b>Pointed to by:</b>	ACBTNIB (ACB) ACDNIB (ACDEB) - NIB for CNM application program RPLARG (RPL) OCCNIB (OCCRR) VIT entries: AI (API Authorized TPIO) IO (API TPIO Request) (See <i>VTAM Diagnosis</i> for more information on the VIT entries.)
<b>Included Blocks:</b>	DEVCH (NIBDEVCH), PROCD (NIBPROCD), URC (NIBUSER) user-supplied URC
<b>Additional Notes:</b>	INQUIRE may use a NIB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	ISTNIB	
0	(0)	CHARACTER	1	NIBID	NIB IDENTIFIER
1	(1)	CHARACTER	1	NIBRSV01	NOT USED - AVAILABLE
2	(2)	CHARACTER	1	NIBCONDN	CONDN
3	(3)	CHARACTER	1	NIBLEN	NIB LENGTH
4	(4)	CHARACTER	4	NIBCID	COMMUNICATION ID
8	(8)	CHARACTER	4	NIBUSER	USER DATA AREA
12	(C)	CHARACTER	8	NIBSYM	SYMBOLIC NODE NAME
20	(14)	CHARACTER	8	NIBMODE	MODE NAME FOR SKELETON DVT
28	(1C)	CHARACTER	8	NIBDEVCH	AREA FOR DEVICE CHARACTERISTICS (SEE ISTDEVCH)
36	(24)	CHARACTER	4	NIBPROCD	NIB PROCESSING OPTIONS
40	(28)	BITSTRING	1	NIBFLGS	FLAGS
40	(28)	BITSTRING	1	NIBFLG1	FLAGS 1
		1... ..		NIBLAST	NOT LAST NIB
		.1.. ....		NIBCON	NODE CONNECTED
		..1. ....		NIBSDAPP	SDT: 0=VTAM, 1=APPL
		...1 ....		NIBSHLTP	DESTINATION IS REQUIRED BY ANOTHER APPLICATION
		.... 1...		NIBNAQLQ	IF ACCEPT FAILED, LOGON CANCELLED
		.... .1..		NIBTSEL	SELECTIVE CRYPTOGRAPHY
		.... ..1.		NIBTREQ	REQUIRED CRYPTOGRAPHY
		.... ...1		*	NOT USED - AVAILABLE
41	(29)	CHARACTER	1	*	NOT USED - AVAILABLE
42	(2A)	SIGNED	2	NIBLIMIT	RESPLIM VALUE
44	(2C)	ADDRESS	4	NIBEXLST	POINTER TO EXIT LIST
48	(30)	CHARACTER	8	NIBLMODE	LOGON MODE
56	(38)	ADDRESS	4	NIBNDAR	POINTER TO BIND SESSION PARAMETERS (SEE ISTBIND)
56	(38)	ADDRESS	4	*	RESERVED
60	(3C)	CHARACTER	4	NIBRESV	NOT USED - AVAILABLE

## Constants

Len	Type	Value	Name	Description
1	HEX	D0	NIBIDD	NIBID EQUATE

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTNIB	0		1
NIBCID	4		2
NIBCON	28	40	4
NIBCONDN	2		2
NIBDEVCH	1C		2
NIBEXLST	2C		2
NIBFLGS	28		2
NIBFLG1	28		3
NIBID	0		2
NIBLAST	28	80	4
NIBLEN	3		2
NIBLIMIT	2A		2
NIBLMODE	30		2
NIBMODE	14		2
NIBNAQLQ	28	08	4
NIBNDAR	38		2
NIBPROCD	24		2
NIBRESV	3C		2
NIBRSV01	1		2
NIBSDAPP	28	20	4
NIBSHLTP	28	10	4
NIBSYM	C		2
NIBTREQ	28	02	4
NIBTSEL	28	04	4
NIBUSER	8		2



## Network Operator Services Parameter List (NOSPL)

<b>Function:</b>	NOSPL provides a mapping for the network operator services parameter list.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Included Blocks:</b>	CPCB (NOSPCB)
<b>Additional Notes:</b>	The ISTNOSPL control block ID constant is X'64' in CPKNOSPL. To use the NOSPL for other commands in the future, another DSECT containing specific fields for each command should be defined.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	ISTNOSPL	
0	(0)	CHARACTER	64	NOSCOMM	COMMON SECTION
0	(0)	CHARACTER	64	NOSPCB	BEGIN WITH CPCB
64	(40)	CHARACTER	*	NOSPECIF	COMMAND-SPECIFIC OVERLAY AREA

OVERLAY AREA FOR MODIFY-TABLE COMMAND PARAMETER LIST

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	28	NOSMTABL	
0	(0)	CHARACTER	8	NOSMTNEW	NEW TABLE NAME
8	(8)	CHARACTER	8	NOSMTOLD	OLD TABLE NAME
8	(8)	CHARACTER	8	NOSMTNID	NETID NAME
16	(10)	CHARACTER	8	NOSMTRID	RESOURCE ID NAME
16	(10)	CHARACTER	8	NOSMTORG	PU ORIGIN NAME
24	(18)	BITSTRING	1	NOSMTTYP	TABLE TYPE (SEE CONSTANTS IN THE TABLE DSECTS, ISTCOS,ISTINT1, ISTLOGMD AND ISTUDT)
25	(19)	BITSTRING	1	NOSMTFLG	OPTION VALUE - SEE CONSTANTS
		11.. ....		NOSMTOPT	NO ELIGIBLE RESOURCES BELOW SPECIFIED RESOURCE
		..1. ....		NOSMTNOR	UNUSED - AVAILABLE
		...1 1111		*	NUMBER OF ASSOCIATIONS CHANGED OR DELETED
26	(1A)	UNSIGNED	2	NOSMTCNT	

### Constants

Len	Type	Value	Name	Description
CONSTANT VALUES				
8	CHARACTER	*	NOSALL	ASSOC ANY FLAVOR OF OPTION = ASSOCIATE COMMAND
CONSTANT FOR NOSMTOPT				
0	BIT	00	NOSMTASS	OPTION = ASSOC
0	BIT	01	NOSMTLOD	OPTION = LOAD
0	BIT	10	NOSMTDEL	OPTION = DELETE

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTNOSPL	0		1
NOSCOMM	0		2
NOSPCB	0		3
NOSMTABL	0		1
NOSMTCNT	1A		2
NOSMTFLG	19		2
NOSMTNEW	0		2
NOSMTNID	8		3
NOSMTNOR	19	20	3
NOSMTOLD	8		2
NOSMTOPT	19	80	3
NOSMTORG	10		3
NOSMTRID	10		2
NOSMTTYP	18		2
NOSPECIF	40		2

## LM Table Parameter List (NRCLT)

<b>Function:</b>	NRCLT is the control block used to map the parameter list for the ?LMTBL invocation.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	52 (X'34')
<b>Located in:</b>	CRANRCLT (Unless specified otherwise)
<b>Additional Notes:</b>	<p><b>* WARNING *</b></p> <p>This DSECT maps a predefined area in the CRA (CRANRCLT), which is a subfield of CRANTBL (the work area for CIDCTL).</p> <p>The length of this DSECT must not exceed the length of ISTATBL.</p>

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	52	ISTNRCLT	LMTBL PARAMETER AREA - POINTED TO BY THE PARMLIST OPERAND OF THE LMTBL MACRO WITH A DEFAULT OF CRANRCLT
EXTERNAL OUTPUT AREA					
0	(0)	ADDRESS	4	NRCLUAD	LU ADDRESS RETURN FIELD
4	(4)	ADDRESS	4	NRCMODAD	MODE ADDRESS RETURN FIELD
COMMON TO ALL LMTBL FUNCTIONS					
		1111 ....		NRCFUNC	FUNCTION CODE
		.... 1111		NRCTYPE	FUNCTION TYPE
9	(9)	BITSTRING	1	NRCFLAGS	FLAG BYTE
		1... ....		NRCTBLH	TABLE LOCK WAS OBTAINED
		.1.. ....		NRCLULH	LU LOCK WAS OBTAINED
		..11 1111		*	NOT USED - AVAILABLE
10	(A)	BITSTRING	1	NRCLOCK	LOCKING REQUEST
		1111 ....		NRCTBLOK	TABLE LOCK CONTROL
		.... 1111		NRCLULOK	LU LOCK CONTROL
11	(B)	BITSTRING	1	NRCRC	RETURN CODE BETWEEN THE ROUTER AND THE FUNCTION MODULES
12	(C)	ADDRESS	4	NRCLMHDR	ADDRESS OF LM TABLE
16	(10)	CHARACTER	8	NRCLUNAM	LU NAME
16	(10)	UNSIGNED	4	NRCLUX1	HASH XOR VALUE ONE
20	(14)	UNSIGNED	4	NRCLUX2	HASH XOR VALUE TWO
24	(18)	CHARACTER	8	NRCMONAM	MODE NAME
32	(20)	UNSIGNED	2	NRCNDX	LU NAME HASH INDEX VALUE
34	(22)	CHARACTER	2	*	NOT USED - AVAILABLE
36	(24)	ADDRESS	4	NRCMOPRV	ADDRESS OF ENTRY PREVIOUS TO ENTRY IN NRCMODAD
40	(28)	ADDRESS	4	NRCLUPRV	ADDRESS OF ENTRY PREVIOUS TO ENTRY IN NRCLUAD
44	(2C)	ADDRESS	4	NRCSAV12	ISTNRCLR BASE REGISTER SAVE AREA
48	(30)	ADDRESS	4	NRCSAV14	ISTNRCLR RETURN REGISTER SAVE AREA

## Constants

Len	Type	Value	Name	Description
NRCFUNC - FUNCTION CODE CONSTANTS				
0	HEX	1	NRCADD	ADD A NEW ENTRY
0	HEX	2	NRCFIND	FIND AN EXISTING ENTRY
0	HEX	3	NRCDEL	DELETE AN EXISTING ENTRY
0	HEX	4	NRCFREE	FREELock REQUEST
NRCTYPE - FUNCTION TYPE CONSTANTS				
0	HEX	1	NRCTPLU	LU LMTBL TYPE
0	HEX	2	NRCTPMD	MODE LMTBL TYPE
0	HEX	3	NRCTPTB	TABLE LMTBL TYPE
NRCLOCK - LOCKING REQUEST CONSTANTS				
0	HEX	0	NRCKFREE	FREE THE LOCK HELD
0	HEX	1	NRCKINSH	INTERNAL SHARED LOCK
0	HEX	2	NRCKINXC	INTERNAL EXCLUSIVE LOCK
0	HEX	3	NRCKSSHR	SHARED LOCK WITH NO RELEASE LULOCK (SHARED) OR TABLOCK (SHARED) CODED
0	HEX	4	NRCKSXCL	EXCLUSIVE LOCK WITH NO RELEASE LULOCK (EXCLUSIVE) TABLOCK (EXCLUSIVE) CODED
0	HEX	5	NRCKSPRO	OBTAINING LOCKS PROHIBITED
0	HEX	6	NRCKALOW	OBTAINING LOCKS ALLOWED
0	HEX	7	NRCKLNTC	TABLOCK(FREE) CODED AND LULOCK NOT CODED
NRCRC - RETURN CODE CONSTANTS				
1	HEX	00	NRCAOK	SUCCESSFUL PROCESSING
1	HEX	04	NRCLUEX	LU ALREADY EXISTS
1	HEX	08	NRCMOEX	MODE ALREADY EXISTS
1	HEX	0C	NRCNOLU	LU ENTRY DOES NOT EXIST
1	HEX	10	NRCNOMO	MODE ENTRY DOES NOT EXIST
1	HEX	14	NRCSGSH	INSUFFICIENT STORAGE
1	HEX	18	NRCLKERR	ERROR ON LOCK OPERATION

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTNRCLT	0		1
NRCFLAGS	9		2
NRCFUNC	8	80	2
NRCLMHDR	C		2
NRCLOCK	A		2
NRCLUAD	0		2
NRCLULH	9	40	3
NRCLULOK	A	08	3
NRCLUNAM	10		2
NRCLUPRV	28		2
NRCLUX1	10		3
NRCLUX2	14		3
NRCMODAD	4		2
NRCMONAM	18		2
NRCMOPRV	24		2
NRCNDX	20		2
NRCRC	B		2
NRCSAV12	2C		2
NRCSAV14	30		2
NRCTBLH	9	80	3
NRCTBLOK	A	80	3
NRCTYPE	8	08	2

## OPEN or CLOSE Work Area (OCA)

<b>Function:</b>	OCA describes an internal work area used to process OPEN and CLOSE ACB requests.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	208 (X' D0')

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	208	ISTOCA	LEVEL 1 DECLARE	
0	(0)	CHARACTER	12	OCAPART1	1ST PART TO BE ZEROED	
0	(0)	CHARACTER	1	OCAID	CONTROL BLOCK I.D.	
1	(1)	BITSTRING	1	OCAFLAGS	FLAGS	
		1... ....		OCAFLG1	DEB CHAINED	
		.1.. ....		OCACLDEB	CLOSE DEB IN PROGRESS	
		..1. ....		OCAABORT	ABORT CLOSE ACB/DEB	
		...1 1111		OCARSV01	NOT USED	
2	(2)	SIGNED	2	OCALNTH	LENGTH OF WORKAREA	
4	(4)	ADDRESS	4	OCAOCXAD	ADDR OF WORKAREA EXTENSION	
8	(8)	ADDRESS	4	OCAAPYAD	ADDR OF ACB COPY	
12	(C)	ADDRESS	4	OCAACBAD	ADDR OF USER ACB	
16	(10)	ADDRESS	4	OCADEBAD	ADDR OF DEB TO BE CLOSED	
20	(14)	ADDRESS	4	OCANEXTF	ADDR OF NEXT FMCB TO BE CLOSED	
24	(18)	UNSIGNED	1	OCARC	RC TO BE MOVED TO USER ACB BY ISTOCCCB	
25	(19)	CHARACTER	3	OCARSV10	RESERVED	
28	(1C)	ADDRESS	4	OCADCPRM	SAVE AREA FOR LTA PARM LIST (POINTER IN DOS ONLY)	
32	(20)	ADDRESS	4	OCARSV03	RESERVED	
36	(24)	CHARACTER	100	OCASAVES	SAVE AREAS TO BE ZEROED	
36	(24)	CHARACTER	28	OCASAV1	1ST SAVEAREA FOR VS/1 - NOT TO BE ZEROED	
64	(40)	CHARACTER	72	OCASAV2	2ND SAVEAREA	
136	(88)	CHARACTER	72	OCASAV3	3RD SAVEAREA	

### Constants

Len	Type	Value	Name	Description
1	HEX	FF	OCAIDEN	ISTOCA ID MASK

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTOCA	0		1	OCASAV2	40		3
OCAABORT	1	20	4	OCASAV3	88		2
OCAACBAD	C		2				
OCAAPYAD	8		3				
OCACLDEB	1	40	4				
OCADCPRM	1C		2				
OCADEBAD	10		2				
OCAFLAGS	1		3				
OCAFLG1	1	80	4				
OCAID	0		3				
OCALNTH	2		3				
OCANEXTF	14		2				
OCAOCXAD	4		3				
OCAPART1	0		2				
OCARC	18		2				
OCARSV01	1	10	4				
OCARSV03	20		2				
OCARSV10	19		2				
OCASAVES	24		2				
OCASAV1	24		3				

## Originator Control Block (OCB)

<b>Function:</b>	OCB provides a mapping for the originator control block, which represents a request originator (OLU=SLU) that is waiting for the availability of a required resource.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	44	ISTOCB	Originator Control Block - represents a request originator (OLU=SLU) who is waiting for the availability of a required resource	
0	(0)	UNSIGNED	1	OCBCBID	OCB control block ID	
1	(1)	UNSIGNED	1	OCBLTH	Control block length	
2	(2)	BITSTRING	2	*	Flags	
		1... ....		OCBAVAIL	1 = OCB is waiting for PLU availability	
2	(2)	BITSTRING	1	*	available	
4	(4)	ADDRESS	4	OCBNEXT	Pointer to next ISTOCB or ISTNACP associated with SSCP	
8	(8)	CHARACTER	8	OCBSLUNM	SLU name	
16	(10)	CHARACTER	8	OCBPLUAL	PLU alias name	
24	(18)	CHARACTER	8	OCBADDNM	ADJSSCP(DLU) or host name	
32	(20)	CHARACTER	8	OCBADDNT	ADJSSCP(DLU) or host netid	
40	(28)	ADDRESS	4	OCBNEXTS	Pointer to next ISTOCB associated with SLU	
44	(2C)	CHARACTER	*	OCBOINF	Optional information - When an SLU is waiting for notification of controlling PLU availability, the PLU real name and PLU netid are required.	

Optional information when SLU is waiting for PLU availability

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	16	OCBOIWP	Optional information - waiting for PLU availability	
0	(0)	CHARACTER	8	OCBPLUNM	PLU real name	
8	(8)	CHARACTER	8	OCBPLUNT	PLU real netid	

### Constants

Len	Type	Value	Name	Description
Value for OCBCBID , Control Block ID				
1	HEX	64	OCBCTYP	OCB Control block constant

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTOCB	0		1
OCBADDNM	18		2
OCBADDNT	20		2
OCBAVAIL	2	80	3
OCBCBID	0		2
OCBLTH	1		2
OCBNEXT	4		2
OCBNEXTS	28		2
OCBOINF	2C		2
OCBOIWP	0		1
OCBPLUAL	10		2
OCBPLUNM	0		2
OCBPLUNT	8		2
OCBSLUNM	8		2

## Process Anchor Block (PAB)

<b>Function:</b>	<p>PAB represents a specific set of routines that make up a VTAM process. It contains a pointer to the DVT, which contains the addresses of these routines.</p> <p>When a work element is to be processed by this set of routines, PSS queues it to the PAB that represents them.</p> <p>Once the work element is queued to the PAB, the PAB is scheduled to be dispatched by queuing it to the PST.</p>
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	20 (X'14')
<b>Located in:</b>	Found in the ACDEB, ATCVT, DYPAB, FMCB, LUCB, NCB, PPL, PST, TSPL.
<b>Pointed to by:</b>	<p>ATCPAREA (ATCVT)</p> <p>PSTSNRM (PST) - synchronous normal PAB queue</p> <p>PSTANRM (PAB) - asynchronous normal PAB queue</p> <p>TIDPAB (TID)</p> <p>TSCRELAT (TSCB) - PAB related to TSCB</p> <p>VIT entries: DISP (PSS PAB Dispatch)</p> <p>ESC (PSS TPESC)</p> <p>EXIT (PSS TPEXIT)</p> <p>POST (PSS TPPOST)</p> <p>QUE (PSS TPQUE)</p> <p>RESM (PSS Dispatch)</p> <p>SCHD (PSS TPSCHED)</p> <p>WAIT (PSS TPWAIT)</p> <p>(See <i>VTAM Diagnosis</i> for more information on the VIT entries.)</p>
<b>Included Blocks:</b>	LOK (PABLOCK)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	ISTPAB	
0	(0)	CHARACTER	8	PABWQCHN	NAME FOR CDS INSTRUCTION
0	(0)	ADDRESS	4	PABWEQA	POINTER TO WORK ELEMENT QUEUE
0	(0)	ADDRESS	4	PABWEQP	WORK ELEMENT POINTER
0	(0)	ADDRESS	4	PABVERYA	POINTER TO PABVXPAB WHEN PABVERY IS '1'B
		1... ....		PABWEQG	WORK ELEMENT GATE
4	(4)	ADDRESS	4	PABCHAIN	PSS CHAIN
4	(4)	ADDRESS	4	PABCHNGP	PSS CHAIN POINTER
		1... ....		PABCHNG	CHAIN GATE
8	(8)	ADDRESS	4	PABDVTA	POINTER TO DVT
12	(C)	ADDRESS	4	PABRPHA	POINTER TO THE RPH
16	(10)	UNSIGNED	1	PABID	PAB ID
17	(11)	BITSTRING	1	PABFLAGS	SCHEDULING FLAGS
		1... ....		PABUNCON	PAB HAS BEEN UNCONDITIONALLY SCHEDULED
		.1. ....		PABCDP	PAB CLOSEDOWN IN PROGRESS
		..1. ....		PABSYNCH	PAB IS SYNCHRONOUS
		...1 ....		PABXTND	PAB EXTENSION IS PRESENT
		.... 1..		PABNODQ	DO NOT DEQUEUE WORK ELEMENT
		.... .1..		PABKPRPH	DO NOT DETACH THE RPH FROM THE PAB AT TPEXIT
		.... ..1.		PABVERY	THIS IS A VERY EXTENDED PAB (VXPAB) WHEN = '1'B
		.... ...1		PABSEXT	THIS IS A SLIGHTLY EXTENDED PAB (SXPAB) WHEN = '1'B
18	(12)	ADDRESS	2	PABOFFST	OFFSET FROM MAJOR CONTROL BLOCK
20	(14)	CHARACTER		PABEND	

THIS EXTENSION IS PRESENT ONLY IF PABXTND IS ON

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
20	(14)	STRUCTURE	20	PABXTNSN	



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
20	(14)	ADDRESS	4	PABLAST	POINTER TO LAST WORK ELEMENT ON PAB WORK ELEMENT QUEUE
24	(18)	CHARACTER	8	PABLOCK	LOCK FOR EXTENDED PABS
32	(20)	ADDRESS	4	PABNPSSQ	ANCHOR FOR TPQUERS NOT RUNNING UNDER PSS
36	(24)	CHARACTER	4	*	

THIS EXTENSION IS PRESENT ONLY IF PABVERY IS ON  
(I.E. THIS IS A VERY EXTENDED PAB)

0	(0)	STRUCTURE	16	PABVXPAB	THE VXPAB
0	(0)	SIGNED	4	PABVCNT	COUNT OF QUEUES IN THE VXPAB
4	(4)	ADDRESS	4	PABVLVL	POINTER TO THE LEVEL DETERMINATION ROUTINE (THIS IS SUPPLIED BY THE CREATOR OF THIS PAB)
8	(8)	SIGNED	4	PABVNDX	INDEX OF HIGHEST PRIORITY QUEUE WITH ELIGIBLE WORK TO PROCESS
12	(C)	UNSIGNED	4	PABVUSER	USER AREA, PASSED IN R0 TO PABVLVL ROUTINE
16	(10)	CHARACTER	16	PABVQUES (*)	ARRAY OF THE QUEUES OF WORK ELEMENTS
16	(10)	ADDRESS	4	PABVFRST	POINTER TO THE FIRST WORK ELEMENT IN THE QUEUE
20	(14)	ADDRESS	4	PABVLAST	POINTER TO THE LAST WORK ELEMENT IN THE QUEUE
24	(18)	SIGNED	4	PABVSRVL	NUMBER OF TIMES THE QUEUE SHOULD BE DISPATCHED BEFORE GOING TO THE NEXT QUEUE
28	(1C)	SIGNED	4	PABVSRVC	NUMBER OF TIMES THE QUEUE HAS BEEN SERVICED THUS FAR

THIS EXTENSION IS PRESENT ONLY IF PABSEXT IS ON

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
20	(14)	STRUCTURE	4	PABSXPAB	
20	(14)	ADDRESS	4	PABLIST	POINTER WORK ELEMENT LIST FOR A SEXT PAB. THE WORK ELEMENTS ARE IN OLDEST-> NEWEST ORDER WHEN ON THIS LIST

### Constants

Len	Type	Value	Name	Description
4	HEX	7FFFFFFF	PABGATE0	TURN GATE OFF
4	HEX	80000000	PABGATE1	TURN GATE ON

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTPAB	0		1	PABVERY	11	02	3
PABCDP	11	40	3	PABVERYA	0		5
PABCHAIN	4		3	PABVFRST	10		3
PABCHNG	4	80	5	PABVLAST	14		3
PABCHNGP	4		4	PABVLVL	4		2
PABDVTA	8		2	PABVNDX	8		2
PABEND	14		2	PABVQUES	10		2
PABFLAGS	11		2	PABVSRVC	1C		3
PABID	10		2	PABVSRVL	18		3
PABKPRPH	11	04	3	PABVUSER	C		2
PABLAST	14		2	PABVXPAB	0		1
PABLIST	14		2	PABWEQA	0		3
PABLOCK	18		2	PABWEQG	0	80	6
PABNODQ	11	08	3	PABWEQP	0		4
PABNPSSQ	20		2	PABWQCHN	0		2
PABOFFST	12		2	PABXTND	11	10	3
PABRPHA	C		2	PABXTNSN	14		1
PABSEXT	11	01	3				
PABSXPAB	14		1				
PABSYNCH	11	20	3				
PABUNCON	11	80	3				
PABVCNT	0		2				

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## Page Table Header (PAGTB)

<b>Function:</b>	PAGTB describes the page table header used by the GETBLK/FREEBLK processor. The page tables map the pages used by a particular pool. A pool may have multiple page tables, which are queued to the SPANC using SPAHOS and SPATOS.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	16 (X'10')
<b>Pointed to by:</b>	PAGBACK (PAGTB) - previous page table for associated pool PAGNEXT (PAGTB) - next page table for associated pool

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ISTPAGTB	PAGE TABLE
0	(0)	ADDRESS	4	PAGNEXT	ADDRESS OF NEXT PAGE TABLE
4	(4)	ADDRESS	4	PAGBACK	ADDRESS OF PREVIOUS PAGE TABLE
8	(8)	UNSIGNED	2	PAGPTECT	COUNT OF PAGE TABLE ENTRIES
10	(A)	UNSIGNED	2	PAGPTEAC	COUNT OF ACTIVE PTES
12	(C)	ADDRESS	4	PAGRSV1	RESERVED

## Path Control ID (PCID)

<b>Function:</b>	PCID maps the procedure correlation ID field of the network services RUs and the NCSPL.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	8
<b>Located in:</b>	CDINIT (CDIN) CDCINIT (CDCIN) CDESSESSF (CDSF) TERM-SELF-CD (CDTRM) CDTAKEDC (DTAKC) INIT-OTHER-CD (CRDIO) CDESSEND (CRSE) CDESSEST (CSESS), and CDTAKED (DTAKD) RUs and in the NCSPL

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTPCID	
0	(0)	CHARACTER	8	PCPCID	PROCEDURE CORRELATION FORMAT 1
0	(0)	CHARACTER	2	PCINA	FORMAT 2 - TWO BYTE CONSTANT '0080'X
2	(2)	CHARACTER	2	PCISCPID	FORMAT 2 - TWO BYTES OF SSCPID
4	(4)	CHARACTER	4	PCICOUNT	FORMAT 2 - UNIQUE FOUR BYTE VALUE OF THE PROCEDURE CORRELATION ID

## Problem Determination Trace Entry (PIDENT)

<b>Function:</b>	PIDENT maps a PIU entry in the problem determination trace buffer. It contains the first 40 bytes of a PIU being traced for a session with a specified resource.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	48 (X'30')
<b>Located in:</b>	The trace entries (mapped by PIDENT) follow the header (mapped by PDHD) in the problem determination trace buffer.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	48	ISTPDENT	PD TRACE ENTRY
0	(0)	CHARACTER	8	PIDENTIME	TIME STAMP
0	(0)	CHARACTER	7	*	RESERVED
7	(7)	CHARACTER	1	PDENTRY	ENTRY TYPE
		1... ....		PDENCONT	THIS FMD NS(S) REQUEST USES MULTIPLE ENTRIES
		.111 1111		PIDENTYPE	ENTRY TYPE CODE
8	(8)	CHARACTER	40	PDENPIU	PIU OR SYMPTOM STRING DATA
48	(30)	CHARACTER		PDENEND	END OF ISTPDENT

### Constants

Len	Type	Value	Name	Description
VALUES FOR PIDENTYPE				
0	BIT	0000001	PDENINFP	INBOUND NORMAL FLOW PIU
0	BIT	0000010	PDENONFP	OUTBOUND NORMAL FLOW PIU
0	BIT	0000011	PDENSSDA	ACCESS METHOD DEBUG DATA
0	BIT	0000100	PDENNDPU	NORMAL DISCARD PIU
0	BIT	0000101	PDENNSDP	NO SESSION DISCARDED PIU

## Problem Determination Trace Buffer Header (PDHD)

<b>Function:</b>	PDHD maps the first 48 bytes of a problem determination trace buffer. The header contains the number of entries, the length of the trace buffer, and a pointer to the next buffer. It also contains a command facility component CNM header for sending the buffer to the command facility LU.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	48 (X'30')
<b>Pointed to by:</b>	PDVABQ (PDVT) - available buffer queue PDVCURBF (PDVT) - current buffer PDVLUBFQ (PDVT) - LU buffer queue NOTE: If there are several problem determination buffers, this buffer is pointed to by PDHNEXT in the previous trace buffer.
<b>Located in:</b>	PDHD is located in the first 48 bytes of a session monitor problem determination trace buffer.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	48	ISTPDHD	PD TRACE BUFFER HEADER	
0	(0)	SIGNED	2	PDHBLENG	LENGTH OF THE TRACE BUFFER	
2	(2)	SIGNED	2	PDHLUID	NCCF LU ID	
4	(4)	CHARACTER	4	PDHCNMD	NCCF LU CNM DATA	
8	(8)	CHARACTER	8	*	RESERVED FOR NCCF LU HEADER EXPANSION	
16	(10)	CHARACTER	10	PDHNAME	PD TRACE BUFFER IDENTIFIER	
26	(1A)	UNSIGNED	2	PDHBFSQ	BUFFER SEQUENCE NUMBER	
28	(1C)	CHARACTER	4	PDHCSPUI	WORD FOR CS	
28	(1C)	SIGNED	2	PDHNPIU	NUMBER OF LOGICAL ENTRIES	
30	(1E)	CHARACTER	2	*	RESERVED - END OF WORD FOR COMPARE AND SWAP	
32	(20)	UNSIGNED	2	PDHDATLN	LENGTH OF DATA TO BE SENT TO NCCF	
34	(22)	CHARACTER	2	*	NOT USED - AVAILABLE	
36	(24)	ADDRESS	4	PDHNEXT	POINTER TO NEXT BUFFER	
40	(28)	CHARACTER	8	*	RESV FOR ACCESS METHOD USE	
48	(30)	CHARACTER		PDHDEND	PDHD END	

### Constants

Len	Type	Value	Name	Description
CONSTANTS				
10	CHARACTER	NLDM TRACE	PDHIDENT	BUFFER IDENTIFIER
2	HEX	0000	PDHLU	NCCF LU ID VALUE
4	HEX	00010004	PDHCNM	CNM DESCRIPTOR

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPDHD	0		1
PDHBFSQ	1A		2
PDHBLENG	0		2
PDHCNMD	4		2
PDHCSPUI	1C		2
PDHDATLN	20		2
PDHDEND	30		2
PDHLUID	2		2
PDHNAME	10		2
PDHNEXT	24		2
PDHNPIU	1C		3

## Problem Determination Trace Vector Table (PDVT)

<b>Function:</b>	PDVT is used to keep track of PIU trace buffers. It keeps track of available buffers, buffers that are being filled, and buffers ready to be sent. When the current buffer is full, its address is placed in PDVLUBFQ, the queue of buffers to be sent to a CNM application program. PDVCURBF, the address of the current buffer, is replaced with PDVABQ, which is a pointer to a buffer obtained from the queue of available buffers.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	64 (X'40')
<b>Pointed to by:</b>	ATCPDVTA (ATCVT)
<b>Included Blocks:</b>	DYPAB (PDVLUDYP), PAB (PDVLUPAB)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	ISTPDVT	PDVT CONTROL BLOCK
0	(0)	CHARACTER	1	PDVID	CONTROL BLOCK IDENTIFIER
1	(1)	UNSIGNED	1	PDVLENG	LENGTH OF PDVT
2	(2)	UNSIGNED	2	PDVBFLNG	PD TRACE BUFFER LENGTH
4	(4)	ADDRESS	4	PDVABQ	PTR TO AVAIL BUFFER QUEUE
8	(8)	CHARACTER	16	PDVLUDYP	DYPAB FOR PDVLUPAB
24	(18)	CHARACTER	20	PDVLUPAB	PAB FOR DISPATCH OF ISTRACPP
44	(2C)	ADDRESS	4	PDVLUBFQ	PTR TO LU BUFFER QUEUE
48	(30)	CHARACTER	8	PDVCDS	DOUBLEWORD FOR CDS
48	(30)	ADDRESS	4	PDVCURBF	PTR TO CURRENT BUFFER
52	(34)	UNSIGNED	2	PDVSEQNM	CURRENT SEQUENCE NUMBER
54	(36)	SIGNED	2	PDVOFFST	OFFSET TO NEXT ENTRY
56	(38)	CHARACTER	1	PDVFLAG	FLAG BYTE
		1... ....		PDVBFREE	BUFFERS ARE BEING FREED
		.1.. ....		*	RESERVED
		..11 1111		*	NOT USED - AVAILABLE
57	(39)	CHARACTER	7	*	NOT USED - AVAILABLE
64	(40)	CHARACTER		PDVTEND	PDVT END

### Constants

Len	Type	Value	Name	Description
VALUE FOR PDVID				
1	HEX	19	PDVIDENT	INIT PDVID

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPDVT	0		1
PDVABQ	4		2
PDVBFLNG	2		2
PDVBFREE	38	80	3
PDVCDS	30		2
PDVCURBF	30		3
PDVFLAG	38		2
PDVID	0		2
PDVLENG	1		2
PDVLUBFQ	2C		2
PDVLUDYP	8		2
PDVLUPAB	18		2
PDVOFFST	36		3
PDVSEQNM	34		3
PDVTEND	40		2

## Page Header (PGHDR)

<b>Function:</b>	PGHDR describes the page header used by the GETBLK/FREEBLK processor. The page header is a prefix describing each allocated page of storage.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	16 (X'10')
<b>Pointed to by:</b>	PTEPGPTR (PTE)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ISTPGHDR	Page Header
0	(0)	ADDRESS	4	*	RESERVED
4	(4)	ADDRESS	4	*	RESERVED
8	(8)	UNSIGNED	2	PGHFBQE	Offset to first FBQE on page
10	(A)	UNSIGNED	2	PGHUSECT	current number of buffers in use on page
12	(C)	ADDRESS	4	*	RESERVED
		1... ....		*	RESERVED

## Transmission Subsystem Physical Unit Services I/O Buffer (PIO)

<b>Function:</b>	PIO maps the I/O buffer used to exchange XIDs over a channel-to-channel attachment link.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	NCBPUREQ (NCB)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	599	ISTPIO	TRANSMISSION SUBSYSTEM PHYSICAL UNIT SERVICES I/O BUFFER	
0	(0)	CHARACTER	4	PIOID	PIO TYPE IDENTIFIER AREA	
4	(4)	ADDRESS	4	PIOCHAIN	CHAIN POINTER	
8	(8)	CHARACTER	9	PIOESTAT	CHANNEL ENDING STATUS	
8	(8)	CHARACTER	8	PIOPUCSW	CHANNEL STATUS WORD	
16	(10)	BITSTRING	1	PIOCKEY	CHANNEL PROGRAM PROTECTION KEY	
17	(11)	CHARACTER	1	*		
		1... ....		*	RESERVED	
		.111 1111		*	AVAILABLE	
18	(12)	CHARACTER	6	*	AVAILABLE	
24	(18)	CHARACTER	8	PIOPUCCW (8)	CHANNEL COMMAND WORDS	
88	(58)	CHARACTER	255	PIOPITXT	INPUT TEXT AREA	
343	(157)	CHARACTER	1	*	RESERVED	
344	(158)	CHARACTER	255	PIOPOTXT	OUTPUT TEXT AREA	
599	(257)	CHARACTER	*	PIOPUTXT	GENERAL TEXT AREA	

### Constants

Len	Type	Value	Name	Description
4	CHARACTER	\$PIO	PIOIDVAL	PIO TYPE IDENTIFIER VALUE

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPIO	0		1
PIOCHAIN	4		2
PIOCKEY	10		3
PIOESTAT	8		2
PIOID	0		2
PIOPITXT	58		2
PIOPOTXT	158		2
PIOPUCCW	18		2
PIOPUCSW	8		3
PIOPUTXT	257		2



## Path Information Unit (PIU)

The path information unit is the basic unit of information transmitted through the network. It consists of a transmission header (TH), a request/response header (RH), and a request/response unit (RU).

The format identifier (FID) is the first field of a TH and indicates the TH format. Five FID types are defined for use with VTAM Version 3. They correspond to the binary values 0–4 in the FID field of the TH. Each FID type PIU is used for communication between different types of network nodes:

- FID0 is used between a host and an adjacent communication controller or between adjacent communication controllers, for communication with non-SNA devices.
- FID1 is used between a host and an adjacent communication controller or between adjacent communication controllers, when either or both nodes do not support ER/VR protocols.
- FID2 is used between a host or communication controller and a cluster controller.
- FID3 is used between a host or communication controller and a terminal device.
- FID4 is used between a host and an adjacent communication controller, between adjacent hosts, or between adjacent communication controllers.

FID1, FID2, FID3, and FID4 RUs contain flags and optional text. The FID0 RU contains the elements of the basic transmission unit (BTU), which is used by start-stop and BSC devices. The NCP translates the device's BTUs to FID0s for VTAM, and translates VTAM's FID0s to BTUs for the device.

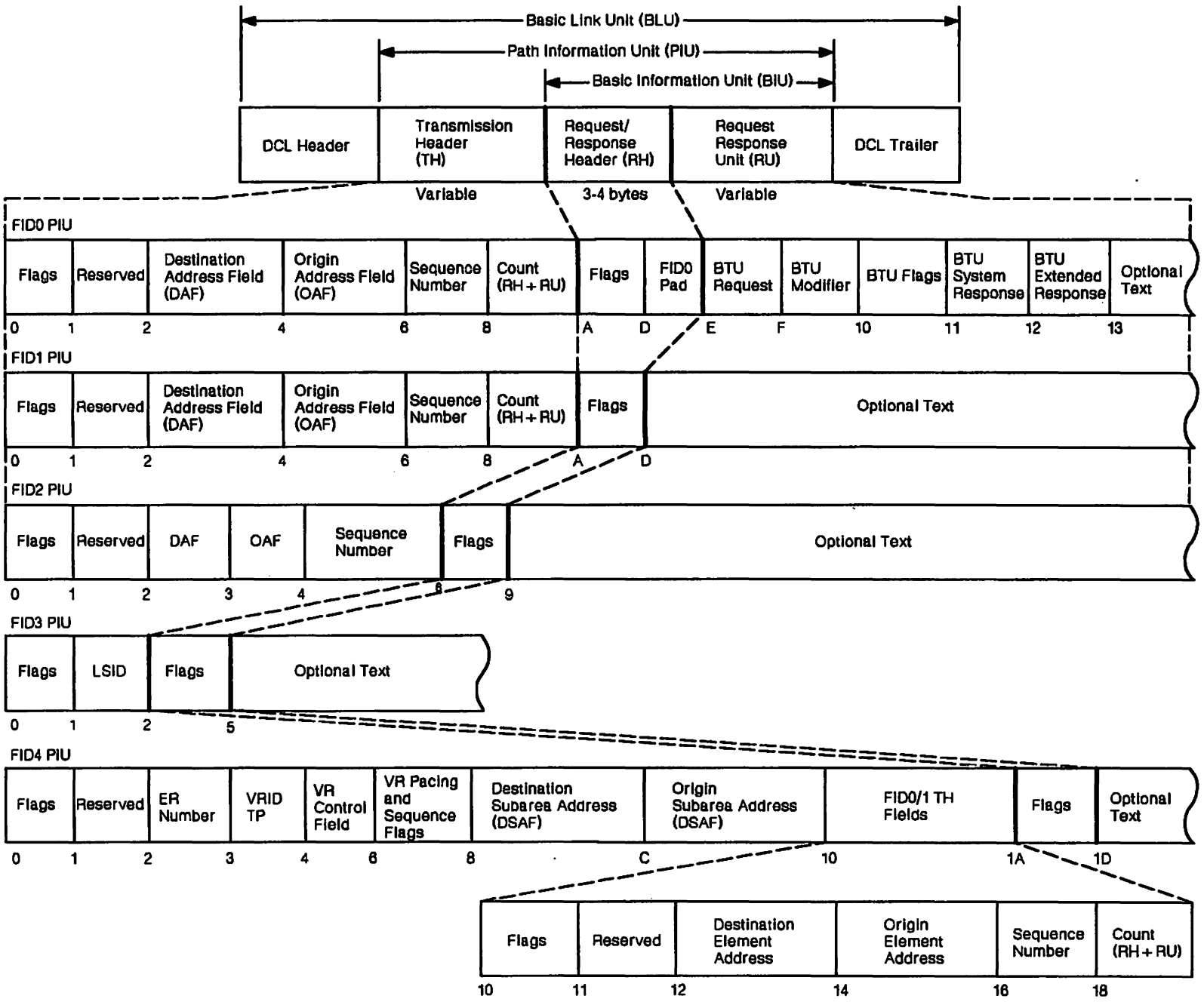
Figure 1 on page 269 shows the format of the various FID types. The following control blocks contain maps of the data areas contained in the PIU:

- Transmission header (TH)
- Request/response header (RH)
- Basic transmission unit (BTU)
- Basic data unit (BDU)

**Note:** For maps of RUs processed by VTAM, see Chapter 4, "Request/Response Units" on page 537.

For more information on the TH, RH, and RU formats, as well as sense code definitions, see *Systems Network Architecture Formats*.

Figure 1. PIU Formats



## Program Operator Control Block (POCB)

<b>Function:</b>	POCB is the main program operator control block. It represents an application program using the program operator interface (POI). It serves as the anchor point for all control blocks dealing with messages to be received (POMCBs) and replies to be answered (PORCBs) by a program operator application program.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	320 (X'140')
<b>Pointed to by:</b>	POIPOCBQ (POIA) POIPRIMQ (POIA) - primary POCPSSQ (POCB)
<b>Included Blocks:</b>	RWPL (POCWTOPL)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	320	ISTPOCB	
0	(0)	CHARACTER	1	POCCBID	POCB IDENTIFIER
1	(1)	UNSIGNED	1	POCLNGTH	LENGTH IN BYTES
2	(2)	SIGNED	2	POCVTMID	VTAM ID COUNTER
4	(4)	ADDRESS	4	POCPSSQ	POINTER TO NEXT POCB FOR PSS USE
		1... ....		POCPGATE	GATE BIT
8	(8)	ADDRESS	4	POCFWD	POINTER TO NEXT POCB
		1... ....		POCFGATE	GATE BIT
12	(C)	ADDRESS	4	POCDEB	POINTER TO DEB PREFIX
		1... ....		POCDGATE	GATE BIT
16	(10)	ADDRESS	4	POCMMSGQ	POINTER TO MESSAGE QUEUE
		1... ....		POCMGATE	GATE BIT
20	(14)	ADDRESS	4	POCAWTRQ	POINTER TO AWAITING REPLY QUEUE
		1... ....		POCAGATE	GATE BIT
24	(18)	ADDRESS	4	POCRPL	POINTER TO RCVCM RPL
		1... ....		POCRGATE	GATE BIT
28	(1C)	BITSTRING	13	POCRPGEN	BIT STRING TO GENERATE AND KEEP TRACK OF REPLY ID'S
41	(29)	UNSIGNED	1	POCRCNTR	REPLY ID COUNTER
42	(2A)	CHARACTER	1	POCSTAT	POCB STATUS
		1... ....		POCACT	POI ACTIVE
		.1. ....		POCINACT	POI INACTIVE
		..1. ....		POCQUI	POI QUIISCE
		...1 ....		*	RESERVED
		.... 1111		*	NOT USED - AVAILABLE
43	(2B)	UNSIGNED	1	POCREPID	REPLY ID COUNTER
44	(2C)	CHARACTER	267	POCWTOPL	ISTWPL AND ISTRWPL PARAMETER LISTS
311	(137)	CHARACTER	1	*	ALIGN POCLAST
312	(138)	ADDRESS	4	POCLAST	LAST POMCB POINTER
		1... ....		POCLGATE	GATE BIT
316	(13C)	SIGNED	4	*	RESERVED

## Constants

Len	Type	Value	Name	Description
1	HEX	46	POCTYPE	CONTROL BLOCK ID FOR ISTPOCB

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPOCB	0		1
POCACT	2A	80	3
POCAGATE	14	80	3
POCAWTRQ	14		2
POCCBID	0		2
POCDEB	C		2
POCDGATE	C	80	3
POCFGATE	8	80	3
POCFWD	8		2
POCINACT	2A	40	3
POCLAST	138		2
POCLGATE	138	80	3
POCLNGTH	1		2
POCMGATE	10	80	3
POCMGQ	10		2
POCPGATE	4	80	3
POCPSSQ	4		2
POCQUI	2A	20	3
POCRCNTR	29		2
POCREPID	2B		2
POCRGATE	18	80	3
POCRPGEN	1C		2
POCRPL	18		2
POCSTAT	2A		2
POCVTMID	2		2
POCWTOPL	2C		2

## Program Operator Message Header (POHD)

<b>Function:</b>	The POHD is used by a program operator application program (POA) to correlate commands and the associated messages. It contains a header associated with each command sent to VTAM from the POA and with each message sent by VTAM to the POA.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	4
<b>Located in:</b>	Found in the NCSPL, POMCB, and POWE.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTPOHD	
0	(0)	CHARACTER	1	POHRSVD1	NOT USED - AVAILABLE
1	(1)	CHARACTER	1	POHSTAT	HEADER STATUS BITS
		1.. ....		POHEND	END LINE
		.1.. ....		POHDATA	DATA LINE
		..1. ....		POHLBL	LABEL LINE
		...1 ....		POHCNTRL	CONTROL LINE
		.... 11..		POHPPOLG	DESCRIPTION OF UNSOLICITED MESSAGE. SEE CONSTANT DECLARES FOR POHPPOLG. (USED ONLY WHEN POHGEN = 0)
		.... 1...		POHPPF1	1 = MESSAGE CONTAINS COPY OF VTAM SOLICITED MESSAGE THAT HAD BEEN SENT TO THE SYSTEM CONSOLE 0 = (SEE POHPPF2)
		.... .1..		POHPPF2	IF POHPPF1 = 0 0 = POA UNSOLICITED MESSAGE 1 = MESSAGE CONTAINS COPY OF VTAM OPERATOR COMMAND IF POHPPF1 = 1 0 = UNSUPPRESSED MESSAGE 1 = SUPPRESSED MESSAGE
		.... ..1.		POHRREQ	REPLY REQUESTED
		.... ...1		POHGEN	ID ORIGIN 0=GENERATED BY VTAM 1=GENERATED BY POA
2	(2)	UNSIGNED	2	POHID	MESSAGE IDENTIFIER

### Constants

Len	Type	Value	Name	Description
CONSTANT DECLARES FOR POHPPOLG				
0	BIT	00	POHNORM	UNSOLICITED MESSAGE FOR POA
0	BIT	01	POHPPCMD	MESSAGE CONTAINS COPY OF VTAM OPERATOR COMMAND RECEIVED FROM THE SYSTEM CONSOLE
0	BIT	10	POHPPSOL	MESSAGE CONTAINS COPY OF VTAM SOLICITED, UNSUPPRESSED MESSAGE THAT HAD BEEN SENT TO THE SYSTEM CONSOLE
0	BIT	11	POHPPSUP	MESSAGE CONTAINS COPY OF VTAM SOLICITED, SUPPRESSED MESSAGE THAT HAD BEEN SENT TO THE SYSTEM CONSOLE

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPOHD	0		1
POHCNTRL	1	10	3
POHDATA	1	40	3
POHEND	1	80	3
POHGEN	1	01	3
POHID	2		2
POHLBL	1	20	3
POHPPF1	1	08	4
POHPPF2	1	04	4
POHPPOLG	1	08	3
POHRREQ	1	02	3
POHRSVD1	0		2
POHSTAT	1		2

## Program Operator Interface Area (POIA)

<b>Function:</b>	The POIA anchors the program operator control block (POCB) chain and the program operator interface (POI).
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	12 (X'C')
<b>Pointed to by:</b>	ATCPOIA (ATCVT) DLRPLCON (DLRPL)

### Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTPOIA	
0	(0)	CHARACTER	1	POICBID	POI IDENTIFIER
1	(1)	UNSIGNED	1	POILNGTH	LENGTH IN BYTES
2	(2)	CHARACTER	2	POIRSVD	NOT USED - AVAILABLE
4	(4)	ADDRESS	4	POIPOCBQ	POINTER TO POCB QUEUE
		1... ....		POIQGATE	GATE BIT
8	(8)	ADDRESS	4	POIPRIMQ	POINTER TO PRIMARY POCB
		1... ....		POIPGATE	GATE BIT

### Constants

Len	Type	Value	Name	Description
1	HEX	45	POITYPE	CONTROL BLOCK ID FOR ISTPOIA

## Program Operator Message Control Block (POMCB)

<b>Function:</b>	The POMCB contains a message generated by VTAM to be passed to a program operator application program (POA).
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	152 (X'98')
<b>Pointed to by:</b>	POCMMSGQ (POCB) - first POMCB in message POCLAST (POCB) - last POMCB in message PORPOMCB (PORCB)
<b>Included Blocks:</b>	POHD (POMMHDR)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	152	ISTPOMCB	
0	(0)	CHARACTER	1	POMCBID	POMCB IDENTIFIER
1	(1)	UNSIGNED	1	POMLNTH	LENGTH IN BYTES
2	(2)	UNSIGNED	1	POMMSGLN	MESSAGE LENGTH
3	(3)	CHARACTER	1	POMRSVD1	NOT USED - AVAILABLE
4	(4)	ADDRESS	4	POMRSVD2	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	POMFWD	POINTER TO NEXT POMCB
		1... ....		POMGATE1	GATE BIT
12	(C)	ADDRESS	4	POMPORCB	POINTER TO PORCB
		1... ....		POMGATE2	GATE BIT
16	(10)	CHARACTER	4	POMMHDR	MESSAGE HEADER
20	(14)	CHARACTER	132	POMMSG	MESSAGE

### Constants

Len	Type	Value	Name	Description
1	HEX	47	POMTYPE	CONTROL BLOCK ID FOR ISTPOMEB

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPOMCB	0		1
POMCBID	0		2
POMFWD	8		2
POMGATE1	8	80	3
POMGATE2	C	80	3
POMLNTH	1		2
POMMHDR	10		2
POMMSG	14		2
POMMSGLN	2		2
POMPORCB	C		2
POMRSVD1	3		2
POMRSVD2	4		2



## Program Operator Reply Command Block (PORCB)

<b>Function:</b>	The PORCB represents a VTAM process waiting for a program operator to reply to a Write To Operator Reply (WTOR) macro.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	153 (X'99')
<b>Pointed to by:</b>	POCAWTRQ (POCB) - first on reply queue POMPORCB (POMCB)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	153	ISTPORCB		
0	(0)	CHARACTER	1	PORCBID	PORCB INDICATOR	
1	(1)	UNSIGNED	1	PORLNATH	LENGTH IN BYTES	
2	(2)	CHARACTER	2	POREPID	REPLY ID	
4	(4)	ADDRESS	4	PORPSSQ	POINTER TO NEXT PORCB FOR PSS USE	
8	(8)	ADDRESS	4	PORFWD	POINTER TO NEXT PORCB	
		1... ....		PORFGATE	GATE BIT	
12	(C)	ADDRESS	4	PORPOMCB	POINTER TO POMCB	
16	(10)	ADDRESS	4	PORAREA	POINTER TO REPLY AREA	
20	(14)	ADDRESS	4	PORECB	POINTER TO ECB	
24	(18)	UNSIGNED	1	PORREPLN	REPLY LENGTH	
25	(19)	CHARACTER	1	PORRSVD	STATUS	
		1... ....		PORRTPQ	PORCB HAS BEEN TPQUEUED,	
		.111 1111		*	NOT USED - AVAILABLE	
26	(1A)	UNSIGNED	1	PORTIK	TIK OF TPMSG ISSUER	
27	(1B)	CHARACTER	126	PORMSG	AREA TO STORE THE REPLY MESSAGE	

### Constants

Len	Type	Value	Name	Description
1	HEX	48	PORTYPE	CONTROL BLOCK ID FOR ISTPORCB

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPORCB	0		1
PORAREA	10		2
PORCBID	0		2
PORECB	14		2
POREPID	2		2
PORFGATE	8	80	3
PORFWD	8		2
PORLNATH	1		2
PORMSG	1B		2
PORPOMCB	C		2
PORPSSQ	4		2
PORREPLN	18		2
PORRSVD	19		2
PORRTPQ	19	80	3
PORTIK	1A		2

## Program Operator Work Element (POWE)

<b>Function:</b>	The POWE (also called a message ID block for MLWTOs) is a work element that represents a message to be sent from VTAM to a program operator application program (POA). A POMCB and, if necessary, a PORCB are built from the POWE.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	319 (X'13F')
<b>Pointed to by:</b>	ATCMIBQ (ATCVT) - message ID block queue anchor.
<b>Included Blocks:</b>	CID (POWCNSL), POHD (POWHDR), RWPL (POWWTOR), TID (POWTID), WPL (POWWTO)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	319	ISTPOWE	
0	(0)	CHARACTER	1	POWCBCID	POWE IDENTIFIER
1	(1)	UNSIGNED	1	POWLNGLTH	LENGTH IN BYTES
2	(2)	CHARACTER	1	POWMLFLG	MLWTO FLAGS
		1... ....		POWCNTRL	CONTROL LINE
		.1. ....		POWLBL	LABEL LINE
		..1. ....		POWDATA	DATA LINE
		...1 ....		POWEND	END LINE
		.... 1111		POWRSV01	RESERVED - NOT AVAILABLE
3	(3)	CHARACTER	1	POWFLAGS	
		1... ....		POWVIS	1 = POWE IS GETVISED 0 = POWE IS VTALLOCED
		.1. ....		POWPRIV	1 = POWE IS VTAM PRIVATE 0 = POWE IS COMMON
		..1. ....		POWFIRST	POWE IS FIRST LINE OF MLWTO
		...1 ....		POWSUPP	MLWTO IS SUPPRESSED
		.... 1...		POWWPLC	WPL IS COMPLETE
		.... .1..		POWWTOF	1 = SYSTEM WRITER FAILED
		.... ..1.		POWPERC	PPO INDICATOR
		.... ...1		*	RESERVED-AVAILABLE
4	(4)	ADDRESS	4	POWPSSQ	POINTER TO NEXT POWE FOR PSS
4	(4)	ADDRESS	4	POWRPH	POINTER TO RPH
8	(8)	CHARACTER	5	*	RESERVED
8	(8)	CHARACTER	4	POWMSGID	VTAM MESSAGE ID
8	(8)	CHARACTER	1	*	RESERVED
9	(9)	CHARACTER	3	*	RESERVED
12	(C)	CHARACTER	1	*	RESERVED
13	(D)	CHARACTER	8	POWMOD	ISSUING MODULE NAME
21	(15)	CHARACTER	2	POWRSV03	RESERVED - AVAILABLE
23	(17)	CHARACTER	9	POWCNSL	ROUTING INFORMATION MAPPED BY ITCID
23	(17)	UNSIGNED	1	POWCTYPE	FIRST BYTE OF CONSOLE ID
24	(18)	CHARACTER	8	POWRTR	REMAINDER OF CONSOLE ID FOR POA
24	(18)	CHARACTER	4	POWHDR	MESSAGE HEADER
28	(1C)	ADDRESS	4	POWDEB	POINTER TO ACDEB OF POA
32	(20)	SIGNED	4	POWMLWID	VTAM MLWTO ID
36	(24)	UNSIGNED	4	POWSYSID	OPERATING SYSTEM MLWTO ID
40	(28)	UNSIGNED	4	POWABID	ABEND COUNT IDENTIFIER
44	(2C)	CHARACTER	8	POWTID	THREAD ID OF MESSAGE ISSUER
52	(34)	CHARACTER	267	POWWTOR	WTOR INFORMATION
52	(34)	CHARACTER	8	*	RESERVED - UNAVAILABLE
60	(3C)	CHARACTER	259	POWWTO	WTO INFORMATION
60	(3C)	CHARACTER	1	*	
61	(3D)	UNSIGNED	1	POWTXTLN	LENGTH OF VARIABLE TEXT SAME LOCATION AS WPLLGH
62	(3E)	CHARACTER	2	*	
64	(40)	CHARACTER	255	POWTXT	VARIABLE TEXT AT SAME LOCATION AS WPLTXT

**Constants**

Len	Type	Value	Name	Description
1	HEX	49	POWTYPE	CONSTANT FOR POWCBID

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTPOWE	0		1
POWABID	28		2
POWCBID	0		2
POWCNSL	17		2
POWCNTRL	2	80	3
POWCTYPE	17		3
POWDATA	2	20	3
POWDEB	1C		4
POWEND	2	10	3
POWFIRST	3	20	3
POWFLAGS	3		2
POWHDR	18		4
POWLBL	2	40	3
POWLNTH	1		2
POWMLFLG	2		2
POWMLWID	20		2
POWMOD	D		2
POWMSGID	8		3
POWPERC	3	02	3
POWPRIV	3	40	3
POWPSSQ	4		2
POWRPH	4		3
POWRSV01	2	08	3
POWRSV03	15		2
POWRTR	18		3
POWSUPP	3	10	3
POWSYSID	24		2
POWTID	2C		2
POWTXT	40		4
POWTXTLN	3D		4
POWVIS	3	80	3
POWWPLC	3	08	3
POWWTO	3C		3
POWWTOF	3	04	3
POWWTOR	34		2

## Management Services Procedure Relation Identifier Block (PRBLK)

<b>Function:</b>	PRBLK provides a mapping for the management services procedure relation identifier control block.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	30 (X'1E')

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	30	ISTPRBLK	PRID BLOCK	
0	(0)	BITSTRING	1	PRBCBID	CONTROL BLOCK ID	
1	(1)	BITSTRING	1	PRBFLAGS	PRID BLOCK FLAGS	
		1... ....		PRBFKEY	KEY TYPE: 0 = PRID 1 = ADDR/LENGTH	
		.1.. ....		PRBFMODE	PROCESSING MODE: 0 = ASYNCHRONOUS 1 = SYNCHRONOUS	
		..1. ....		PRBFCAN	PRID CANCELLED	
		...1 1111		*	AVAILABLE	
2	(2)	CHARACTER	7	PRBKEY	SEARCH KEY	
2	(2)	BITSTRING	4	PRBADDR	ADDRESS	
2	(2)	BITSTRING	2	PRBCNMA	CNMA PRID	
4	(4)	BITSTRING	2	PRBVTAM	VTAM PRID	
6	(6)	BITSTRING	2	PRBLEN	LENGTH	
8	(8)	BITSTRING	1	PRBTYPE	TYPE	
12	(C)	ADDRESS	4	PRBNEXT	NEXT PRID BLOCK POINTER	
16	(10)	CHARACTER	8	PRBURC	USER REQUEST CORRELATOR	
24	(18)	CHARACTER	6	PRBNA	CNMA NETWORK ADDRESS	

### Constants

Len	Type	Value	Name	Description
1	HEX	5B	PRBID	PRID BLOCK ID (PRBCBID)

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPRBLK	0		1
PRBADDR	2		3
PRBCBID	0		2
PRBCNMA	2		4
PRBFCAN	1	20	3
PRBFKEY	1	80	3
PRBFLAGS	1		2
PRBFMODE	1	40	3
PRBKEY	2		2
PRBLEN	6		3
PRBNA	18		2
PRBNEXT	C		2
PRBTYPE	8		3
PRBURC	10		2
PRBVTAM	4		4

## Process Options Definition Block (PROCD)

<b>Function:</b>	PROCD indicates the processing options selected for a connection between an LU and an application program. You may specify these options on the NIB macro.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Located in:</b>	Found in the GBIND RU, NIB, and TSPL.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTPROCD	
0	(0)	BITSTRING	4	PROPROC	PROCESSING OPTIONS
0	(0)	BITSTRING	1	PROPROC1	PROCESSING OPTIONS - 1
		1... ..		PROASYIP	1=ASYIPX 0=NASYIPX
		.1. ....		PROTRUNC	1=TRUNC 0=KEEP
		..1. ....		PROXPOPT	1=BINARY 0=NBINARY
		...1 ....		PRODFASY	0=NDFASYX 1=DFASYX
		.... 1..		PRORESPX	0=NRESPX 1=RESPX
		.... .1..		PROCA	1=RECEIVE ANY CA 0=NO CA
		.... ..1.		PROCS	1=RECEIVE ANY CS 0=NO CS
		.... ...1		PRORPLC	1=OPTION IN RPL 0=NO RPL
1	(1)	BITSTRING	1	PROPROC2	PROCESSING OPTIONS 2
		1... ..		PRONEGBD	NEGOTIABLE BIND
		.1. ....		PROERPO	1=NERPOUT 0=ERPOUT
		..1. ....		PROLGOT	1=NLGOUT 0=LGOUT
		...1 ....		PROSYSR	0=VTAM RESPONDS TO EXPEDITED DFC
		.... 1..		PROFIFOR	1=APPLICATION RESPONDS
		.... .1..		PRONFTL	0=NO ORDERING OF RESPONSE WITH REQUEST
		.... ..1.		PROEMLC	1=RESPONSE KEPT IN ORDER WITH REQUEST
		.... ...1		PROCFIX	1=NTMFL 0=TMFL
2	(2)	BITSTRING	1	PROPROC3	PROCESSING OPTIONS 3
		1... ..		PROCPUID	SURPRESS PROMPTING
		.1. ....		PROERPI	1=NERPIN 0=ERPIN
		..1. ....		PROLGIN	1=NLGIN 0=LGIN
		...1 ....		PRONTO	1=NTIMEOUT 0=TIMEOUT
		.... 1..		PROSUBLK	0=INHIBIT SUBBLOCKING 1=ALLOW SUBBLOCKING
		.... .1..		PROMONIT	1=MONITOR 0=NMONITOR
		.... ..1.		PROMONT2	FIRST TIME MONITOR
		.... ...1		PROMONT3	CONTINUE MONITOR
3	(3)	BITSTRING	1	PROPROC4	PROCESSING OPTION 4
		1... ..		PROEIB	1=EIB 0=NEIB
		.1. ....		PRORSV01	NOT USED - AVAILABLE
		..1. ....		PRORSV13	NOT USED - AVAILABLE
		...1 ....		PRORSV14	NOT USED - AVAILABLE
		.... 1..		PROMODB	BLOCK
		.... .1..		PROMODM	MESSAGE
		.... ..1.		PROMODT	TRANS (DEFAULT)
		.... ...1		PROMODC	CONT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	PROPROCS	REDEFINITION OF OPTIONS FOR SETMODE MASK-- LOCATION DEFINED ON ISTPROCD
0	(0)	BITSTRING	1	PRORSV41	PROCESSING OPTIONS 1
1	(1)	CHARACTER	3	PROSETMS	SETMODE OPTION BYTES
1	(1)	BITSTRING	1	PROSETM2	PROCESSING OPTIONS 2
		1111 1..		PRORSV42	NOT USED - AVAILABLE
		.... .1..		PROSNTFL	0=THE START/STOP OPTION WILL NOT BE USED
		.... ..11		PRORSV43	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2	(2)	BITSTRING	1	PROSETM3	PROCESSING OPTIONS 3
		111. ....		PRORSV44	NOT USED - AVAILABLE
		...1 ....		PROSNT0	BSC EIB INSERTION
		.... 1..		PRORSV45	NOT USED - AVAILABLE
		.... .1..		PROSMONT	0=THE START/STOP OPTION WILL NOT BE USED
		.... ..11		PRORSV46	NOT USED - AVAILABLE
3	(3)	BITSTRING	1	PROSETM4	PROCESSING OPTIONS 4
		1... ....		PROSCON	CONTINUOUS MODE (TSC ONLY)
		.111 11..		PRORSV47	NOT USED - AVAILABLE
		.... ..11		PROSRDEF	RECORD DEFINITION 01=BLOCK 10=MESSAGE 11=TRANSMISSION

### Constants

Len	Type	Value	Name	Description
1	HEX	01	PROSBLCK	TO INDICATE BLOCK MODE
1	HEX	02	PROSMMSG	TO INDICATE MSG MODE
1	HEX	03	PROSTRNS	TO INDICATE TRANSMISSION MODE
1	HEX	83	PROSCONT	TO INDICATE CONTINUOUS MODE
1	HEX	7F	PROSANDC	TO EQUATE CONT TO TRANS FOR 3704/3705
1	HEX	80	PROSORC	TO RESTORE CONT INDICATOR

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTPROC	0		1	PRORSV45	2	08	4
PROASYIP	0	80	4	PRORSV46	2	02	4
PROCA	0	04	4	PRORSV47	3	40	4
PROCFIX	1	01	4	PROSCON	3	80	4
PROCPUID	2	80	4	PROSETMS	1		2
PROCS	0	02	4	PROSETM2	1		3
PRODFASY	0	10	4	PROSETM3	2		3
PROEIB	3	80	4	PROSETM4	3		3
PROEMLC	1	02	4	PROSMONT	2	04	4
PROERPI	2	40	4	PROSNTFL	1	04	4
PROERPO	1	40	4	PROSNT0	2	10	4
PROFIFOR	1	08	4	PROSRDEF	3	02	4
PROLGIN	2	20	4	PROSUBLK	2	08	4
PROLGOT	1	20	4	PROSYSR	1	10	4
PROMODB	3	08	4	PROTRUNC	0	40	4
PROMODC	3	01	4	PROXPOPT	0	20	4
PROMODM	3	04	4				
PROMODT	3	02	4				
PROMONIT	2	04	4				
PROMONT2	2	02	4				
PROMONT3	2	01	4				
PRONEGBD	1	80	4				
PRONTFL	1	04	4				
PRONTO	2	10	4				
PROPROC	0		2				
PROPROC	0		1				
PROPROC1	0		3				
PROPROC2	1		3				
PROPROC3	2		3				
PROPROC4	3		3				
PRORESPX	0	08	4				
PRORPLC	0	01	4				
PRORSV01	3	40	4				
PRORSV13	3	20	4				
PRORSV14	3	10	4				
PRORSV41	0		2				
PRORSV42	1	80	4				
PRORSV43	1	02	4				
PRORSV44	2	80	4				

## Management Services Procedure Relation Identifier Queue Anchor Block (PRQAB)

<b>Function:</b>	PRQAB provides a mapping for the management services procedure relation identifier queue anchor block.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	18 (X'12')
<b>Pointed to by:</b>	ATCPRIDQ (ATCVT)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	18	ISTPRQAB	PRID QUEUE ANCHOR BLOCK
0	(0)	BITSTRING	1	PRQCBID	CONTROL BLOCK ID
1	(1)	BITSTRING	1	*	AVAILABLE
2	(2)	UNSIGNED	2	PRQCOUNT	NUMBER OF PRIDS ASSIGNED
4	(4)	ADDRESS	4	PRQFWD	FORWARD QAB POINTER
8	(8)	ADDRESS	4	PRQBACK	BACKWARD QAB POINTER
12	(C)	ADDRESS	4	PRQLIST	QUEUE POINTER
16	(10)	UNSIGNED	2	PRQLAST	LAST PRID ASSIGNED

### Constants

Len	Type	Value	Name	Description
1	HEX	5A	PRQID	PRID QAB ID (PRQCBID)
2	DECIMAL	4096	PRQMAX	MAXIMUM NUMBER OF PRIDS

## Process Scheduling Table (PST)

<b>Function:</b>	The PST provides a mapping for the process scheduling table control block. A PST is maintained for each application program task. It is the control point for scheduling asynchronous functions related to an application program. For example, it is used to schedule I/O request processing, completion processing, session-request completion processing, and asynchronous user exit routines.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	212 (X'D4')
<b>Pointed to by:</b>	ACDTSKID (ACDEB) APWPST (APWA) ATCPSTA (ATCVT) - active PST queue CRAPST (CRA) - PST for recovery DYPTSKID (DYPAB) GBITSKID (GBIND) LUCTSKID (LUCB) NCBTSKID (NCB) RPHTSKID (RPH) SMPPST (SMP) VIT Entries: AREL (SMS Abend RELSTORE) DISP (PSS PAB Dispatch) EXIT (PSS TPEXIT) POST (PSS TPPOST) QREQ (SMS Queued REQSTORE) QUE (PSS TPQUE) RELS (SMS RELSTORE) REQS (SMS REQSTORE) RESM (Resume from TPWAIT) SCHD (PSS TPSCHED) ULKA (TPUNLOCK All) WAIT (PSS TPWAIT) (See <i>VTAM Diagnosis</i> for more information on the VIT entries.)
<b>Included Blocks:</b>	PAB (PSTRQPAB, PSTRSPAB, PSTUEPAB)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	212	ISTPST	PROCESS SCHEDULING TABLE
0	(0)	BITSTRING	1	PSTCBID	CONTROL BLOCK ID
1	(1)	UNSIGNED	1	PSTLNTH	LENGTH OF PST
2	(2)	BITSTRING	2	PSTFLG1	PST FLAGS 1
		1... ....		PSTASTG	ASYNCHRONOUS PROCESSING IS WAITING FOR STORAGE
		.1.. ....		PSTSSTG	SYNCHRONOUS PROCESSING IS WAITING FOR STORAGE
		..1. ....		PSTCLCMP	PST CLEANUP IS COMPLETE
		...1 ....		PSTABEND	PST IS TERMINATING
		.... 1...		*	RESERVED
		.... .111		*	NOT USED - AVAILABLE
3	(3)	CHARACTER	1	PSTKEY	KEY WHEN OPEN ISSUED
4	(4)	ADDRESS	4	PSTCHAIN	POINTER TO NEXT PST ON CHAIN
8	(8)	ADDRESS	4	PSTTSKID	POINTER TO THIS PST (REQUIRED FOR PABS IN THE PST)
12	(C)	ADDRESS	4	PSTMPSTP	POINTER TO THE MPST
16	(10)	CHARACTER	8	PSTSQS	USED FOR CDS INSTRUCTION
16	(10)	ADDRESS	4	PSTSTPP	SYNCHRONOUS TPPOSTED RPH QUEUE HEADER
		1... ....		PSTSGATE	SYNCHRONOUS QUEUE GATE BIT
20	(14)	ADDRESS	4	PSTSNRM	SYNCHRONOUS NORMAL PAB QUEUE HEADER
24	(18)	CHARACTER	8	PSTAQS	USED FOR CDS INSTRUCTION
24	(18)	ADDRESS	4	PSTATPP	ASYNCHRONOUS TPPOSTED RPH QUEUE HEADER
		1... ....		PSTAGATE	ASYNCHRONOUS QUEUE GATE BIT
28	(1C)	ADDRESS	4	PSTANRM	ASYNCHRONOUS NORMAL PAB QUEUE HEADER
32	(20)	CHARACTER	40	PSTRQPAB	PST REQUEST PROCESSING PAB



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
72	(48)	ADDRESS	4	PSTACDEB	QUEUE HEADER OF ACDEBS OPENED BY THIS TASK
76	(4C)	CHARACTER	4	*	NOT USED - AVAILABLE ALIGN PSTRSPAB
80	(50)	CHARACTER	40	PSTRSPAB	RESPONSE PROCESSING PAB
120	(78)	ADDRESS	4	PSTARPH	POINTER TO ASYNCHRONOUS RPH
124	(7C)	CHARACTER	4	*	NOT USED - AVAILABLE ALIGN PSTUEPAB
128	(80)	CHARACTER	40	PSTUEPAB	PST USER EXIT PAB
168	(A8)	SIGNED	4	PSTUSECT	COUNT OF REQUESTS RUNNING AGAINST THIS PST
172	(AC)	ADDRESS	4	PSTRSRPH	POINTER TO SYNCHRONOUS RPH
176	(B0)	UNSIGNED	4	PSTMAXPV	MAXIMUM AMOUNT OF PRIVATE AREA IN BYTES. (0 = NO LIMIT)
180	(B4)	UNSIGNED	4	PSTCURPV	CURRENT AMOUNT OF PRIVATE AREA ALLOCATED TO THIS PST IN BYTES
184	(B8)	ADDRESS	4	PSTTCBA	VM/SI TASK INDEX VALUE
188	(BC)	ADDRESS	4	*	RESERVED
192	(C0)	CHARACTER	8	PSTQLOCK	LOCK WORD FOR THE GETBLK QUEUE
200	(C8)	ADDRESS	4	PSTTBK	POINTER TO VM/SI TASK BLOCK
204	(CC)	ADDRESS	4	PSTFMCB	QUEUE OF FMCB'S
208	(D0)	CHARACTER	4	*	NOT USED-AVAILABLE

### Constants

Len	Type	Value	Name	Description
1	HEX	61	PSTTYPE	PST CONTROL BLOCK ID
4	HEX	7FFFFFFF	PSTGATE0	TURN OFF GATE BIT
4	HEX	80000000	PSTGATE1	TURN ON GATE BIT

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPST	0		1
PSTABEND	2	10	3
PSTACDEB	48		2
PSTAGATE	18	80	4
PSTANRM	1C		3
PSTAQS	18		2
PSTARPH	78		2
PSTASTG	2	80	3
PSTATPP	18		3
PSTCBID	0		2
PSTCHAIN	4		2
PSTCLCMP	2	20	3
PSTCURPV	B4		2
PSTFLG1	2		2
PSTFMCB	CC		2
PSTKEY	3		3
PSTLNGTH	1		2
PSTMAXPV	B0		2
PSTMPSTP	C		2
PSTQLOCK	C0		2
PSTRQPAB	20		2
PSTRSPAB	50		2
PSTSGATE	10	80	4
PSTSNRM	14		3
PSTSQS	10		2
PSTRSRPH	AC		2
PSTSSTG	2	40	3
PSTSTPP	10		3
PSTTBK	C8		2
PSTTCBA	B8		2
PSTTSKID	8		2
PSTUEPAB	80		2
PSTUSECT	A8		2

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## Page Table Entry (PTE)

<b>Function:</b>	PTE describes the page table entry used by the GETBLK/FREEBLK processor. One PTE exists per page of storage allocated to the pool. PTEs are contiguous to their corresponding page table (PAGTB).
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	8

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTPTE	PAGE TABLE ENTRY
0	(0)	ADDRESS	4	PTEPGPTR	ADDRESS OF PAGE/FBQE ANCHOR
4	(4)	SIGNED	4	PTEAVAIL	NUMBER OF BYTES AVAILABLE ON THIS PAGE

## Pool Extension Block (PXB)

<b>Function:</b>	The PXB describes a buffer pool extension obtained by dynamic buffering. It anchors a queue of free buffers in the extent. When the extent is freed, the PXB remains on the BPCBPXB chain and can be used again when a subsequent extent is obtained. The PXB points to the associated BPCB, the first available buffer in the extent, and the beginning of the extent.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	24 (X'18')
<b>Pointed to by:</b>	BFPPXB (BFPFx) BPCBBPXB (BPCB) - first PXB on chain PXBPXB (PXB) - next PXB on chain

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	ISTPXB	
0	(0)	ADDRESS	4	PXBBPCB	POINTER TO BPCB
4	(4)	ADDRESS	4	PXBPIXB	POINTER TO NEXT PXB
8	(8)	CHARACTER	8	PXBCDSFR	FIELD USED FOR COMPARE DOUBLE AND SWAP INSTRUCTION
8	(8)	CHARACTER	4	PXBCSAVE	FIELD USED FOR COMPARE DOUBLE AND SWAP INSTRUCTION
8	(8)	SIGNED	2	PXBSCNT	SEARCH USE COUNT
10	(A)	SIGNED	2	PXBAVEXT	NUMBER OF AVAILABLE BUFFERS IN EXTENT
12	(C)	ADDRESS	4	PXBSTADR	POINTER TO BEGINNING OF EXTENT
		1... ....		PXBGTVIS	EXTENT FROM GETVIS AREA RATHER THAN VPBUF (DOS ONLY)
16	(10)	CHARACTER	8	PXBCDSQB	FIELD USED FOR COMPARE DOUBLE AND SWAP INSTRUCTION
16	(10)	ADDRESS	4	PXBFBA	POINTER TO 1ST AVAILABLE BUFFER IN EXTENT
20	(14)	CHARACTER	4	PXBCSCNT	FIELD USED FOR COMPARE DOUBLE AND SWAP INSTRUCTION
20	(14)	SIGNED	2	PXBCCNT	COUNT OF EACH TIME BUFFER IS ADDED TO AVAILABLE QUEUE
22	(16)	SIGNED	2	PXBTOTL	TOTAL NUMBER BUFFERS IN EXTENT

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTPXB	0		1
PXBAVEXT	A		4
PXBBPCB	0		2
PXBCCNT	14		4
PXBCDSFR	8		2
PXBCDSQB	10		2
PXBCSAVE	8		3
PXBCSCNT	14		3
PXBFBA	10		3
PXBGTVIS	C	80	4
PXBPXB	4		2
PXBSCNT	8		4
PXBSTADR	C		3
PXBTOTL	16		4

## Queue Anchor Block (QAB)

<b>Function:</b>	The QAB anchors standard VTAM queues.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	24 (X'18')
<b>Pointed to by:</b>	ATCRDT (ATCVT) - QAB for RDT segments ATCMODQ (ATCVT) - QAB for MODIFY queue ATCHALTQ (ATCVT) - QAB for HALT queue ATCVARYQ (ATCVT) - QAB for VARY queue ATCDSPQ (ATCVT) - QAB for DISPLAY queue RDTFORW (RDTE) - if last segment on chain RDTBACK (RDTE) - if first segment on chain

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	ISTQAB	
0	(0)	CHARACTER	4	QABID	QUEUE ACRONYM
4	(4)	SIGNED	2	QABCT	NUMBER OF ELEMENTS ON QUEUE
6	(6)	CHARACTER	2	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	QABFIRST	POINTER TO FIRST ELEMENT ON QUEUE
12	(C)	ADDRESS	4	QABLAST	POINTER TO LAST ELEMENT ON QUEUE
16	(10)	CHARACTER	2	QABATTR	QUEUE ATTRIBUTE
16	(10)	CHARACTER	1	QABATTR1	NOT USED - AVAILABLE
17	(11)	CHARACTER	1	QABATTR2	
		1... ....		*	NOT USED - AVAILABLE
		..1. ....		QABPRTY	PRIORITY QUEUE
		...1 ....		QABLIFO	LIFO QUEUE
		.... 1...		QABFIFO	FIFO QUEUE
		.... .1..		*	NOT USED - AVAILABLE
		.... ..1.		*	NOT USED - AVAILABLE
		.... ...1		*	NOT USED - AVAILABLE
18	(12)	ADDRESS	2	QABPTYDS	DISPLACEMENT OF PRIORITY FIELD INTO QUEUE ELEMENT
20	(14)	ADDRESS	2	QABFWDDS	DISPLACEMENT OF FORWARD POINTER FIELD INTO QUEUE ELEMENT
22	(16)	ADDRESS	2	QABBCKDS	DISPLACEMENT OF BACKWARD POINTER FIELD

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTQAB	0		1
QABATTR	10		2
QABATTR1	10		3
QABATTR2	11		3
QABBCKDS	16		2
QABCT	4		2
QABFIFO	11	10	4
QABFIRST	8		2
QABFWDDS	14		2
QABID	0		2
QABLAST	C		2
QABLIFO	11	20	4
QABPRTY	11	40	4
QABPTYDS	12		2

## Resource Definition Table (RDT)

Two fields within the segment header indicate the type of RDT segment: RPRENTRY at X'0D' into the RPRE and RPRHDTYP at X'0E' into the RPRE. If the RPRENTRY value indicates the segment is an entry, the next byte indicates what type of header the entry is under. For example, if the two bytes at displacements X'0D' and X'0E' in the RPRE are hex 71 and hex 01, the RDT segment is a PU attached to an NCP. The following table shows the possible values for the two fields.

RPRENTRY Value	Segment Function	Segment Type	Description
01	Header	RRN	Communication controller segment
02	Header	RDTE	Application program segment
03	Header	RDTE	Local non-SNA segment
04	Header	RSW	Switched terminal segment
05	Header	RLS	Local SNA terminal segment
06	Header	RDTE	CDRM segment
07	Header	RDTE	CDRSC segment
08	Header	RDTE	CA segment
09	Entry	Dummy	Formatting dummy entry
11	Entry	RCDRM	Cross-domain resource manager
30	Entry	RGP	Group
50	Entry	RLN	Line
51	Entry	RDA	Direct attachment node
55	Entry	RAP	Application program
70	Entry	RCC	Cluster
71	Entry	RCC	Physical unit
72	Entry	RPX	Skeletal physical unit
80	Entry	RLU	Terminal
81	Entry	RLU	Logical unit
82	Entry	RIN	Intermediate node
83	Entry	RCDRS	Cross-domain resource

RDT

## Resource Definition Table Application Entry (RAP)

<b>Function:</b>	The RAP maps the VTAM resource definition table application entry. It defines a particular application program.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	296 (X'128')
<b>Included Blocks:</b>	RCPRE (RAPPRE)
<b>Pointed to by:</b>	ACDRDTE (ACDEB) LUCRDTEA (LUCB)
<b>Located in:</b>	Found in the ALCA, CONFT, RCDRM, and RDT.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	296	ISTRAP	APPLICATION ENTRY
0	(0)	CHARACTER	200	RAPPRE	ALLOCATION ENTRY PREFIX (SEE RCPRE)
200	(C8)	SIGNED	2	RAPTRPRE	COUNT OF PREEMPTED TERMINALS
202	(CA)	UNSIGNED	1	RAPCLSAC	DEFAULT CONVERSATION LEVEL SECURITY ACCEPTANCE
203	(CB)	UNSIGNED	1	RAPSAWCR	SESSION AWARENESS PROCESSING CORRELATOR
204	(CC)	ADDRESS	4	RAPENTAD	POINTER TO CDRM ENTRY DEFINITION OR ZERO
208	(D0)	ADDRESS	4	RAPACBA	POINTER TO ACB
212	(D4)	ADDRESS	4	RAPACDEB	POINTER TO ACDEB
216	(D8)	UNSIGNED	2	RAPEAS	APPLICATION EAS VALUE
218	(DA)	CHARACTER	6	RAPBNA	BASE NETWORK ADDRESS OF THE APPLICATION SPECIFYING PARSESS= YES
218	(DA)	SIGNED	4	RAPNASA	SUBAREA ADDRESS
222	(DE)	SIGNED	2	RAPNAEL	ELEMENT ADDRESS
224	(E0)	ADDRESS	1	RAPBFACT	BUFFER LIMIT FACTOR
225	(E1)	BITSTRING	3	RAPBITAN	FLAG BITS
		1... ....		RAPABLGN	PERMANENTLY BLOCK LOGONS
		.1. ....		RAPAQUI	QUIESCE IN PROGRESS
		..1. ....		RAPASLGI	APPLICATION FIRST TIME LOGON ISSUED
		...1 ....		RAPATLGN	TEMPORARILY BLOCK LOGONS
		.... 1...		RAPRNIP	RNAA IN PROGRESS
		.... .1..		RAPPARS	PARSESS(YES) WAS CODED
		.... ..11		*	RESERVED
		1... ....		RAPAPASS	CLSDST PASS AUTHORIZED
		.1. ....		RAPAPRMT	PREEMPT AUTHORIZED
		..1. ....		RAPAACQ	ACQUIRE AUTHORIZED
		...1 ....		RAPAPPO	REMOTE NETWORK OPERATOR (PRIMARY PROGRAM OPERATOR AUTHORIZED)
		.... 1...		RAPASPO	REMOTE NETWORK OPERATOR (SECONDARY PROGRAM OPERATOR AUTHORIZED)
		.... .1..		RAPANVPC	NO VSPACE AUTHORIZED
		.... ..1.		RAPAUTHE	AUTHORIZED EXIT (OS/VVS)
		.... ...1		RAPTSO	APPLICATION IS TSO (MVS)
		1... ....		RAPCSMA	APPLICATION IS CSMA
		.1. ....		RAPAPPC	APPC= YES WAS CODED
		..1. ....		RAPSRBX	SCHEDULE EXITS IN SRB MODE (OS/VVS ONLY)
		...1 ....		RAPVFR	PROVIDE VTAM FRR COVERAGE OF EXITS (OS/VVS ONLY)
		.... 1...		RAPSONSC	PROVIDE SESSION OUTAGE NOTIFICATION VIA SCIP
		.... .1..		RAPSRTLN	SRTADDED AS LOCAL NAME
		.... ..1.		RAPDDRNL	DDRAINL= ALLOW WAS CODED
		.... ...1		RAPDRSPL	DRESPL= ALLOW WAS CODED
228	(E4)	SIGNED	4	RAPMAXPV	MAXIMUM AMOUNT OF PRIVATE AREA IN BYTES. 0= NO LIMIT
232	(E8)	CHARACTER	8	RAPACBN	APPLICATION ACB (ALIAS) NAME
240	(F0)	CHARACTER	8	RAPAPPWD	APPLICATION PASSWORD
248	(F8)	CHARACTER	8	RAPACTIM	ACTIVATE SSCP SESSION TIME STAMP
256	(100)	CHARACTER	8	RAPPCID	FORMAT 4 PCID FOR SSCP-APPL SESSION
264	(108)	ADDRESS	4	RAPRAQP	RESOURCE ADDRESS QUEUE POINTER

RDT

Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
268	(10C)	ADDRESS	4	RAPPAQP	PLU ADDRESS QUEUE POINTER
272	(110)	SIGNED	2	RAPDSSLM	DSESLIM VALUE
274	(112)	SIGNED	2	RAPDMNWL	DMINWNL VALUE
276	(114)	SIGNED	2	RAPDMNWR	DMINWNR VALUE
278	(116)	SIGNED	2	RAPAUTOS	AUTOSES VALUE
280	(118)	UNSIGNED	2	RAPLMDEN	LMTBL DIRECTORY ENTRIES
282	(11A)	UNSIGNED	1	*	RESERVED
283	(11B)	BITSTRING	1	*	
		1... ....		*	RESERVED
		.1.. ....		*	RESERVED
		...1. ....		*	RESERVED
		...1 1111		*	NOT USED - AVAILABLE
284	(11C)	SIGNED	4	*	RESERVED
288	(120)	CHARACTER	8	*	NOT USED - AVAILABLE
296	(128)	CHARACTER		RAPEND	END OF APPLICATION ENTRY

RDT

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRAP	0		1	RAPTRPRE	C8		2
RAPAACQ	E2	20	3	RAPTSO	E2	01	3
RAPABLGN	E1	80	3	RAPVFRR	E3	10	3
RAPACBA	D0		2				
RAPACBN	E8		2				
RAPACDEB	D4		2				
RAPACTIM	F8		2				
RAPANVPC	E2	04	3				
RAPAPASS	E2	80	3				
RAPAPPC	E3	40	3				
RAPAPPO	E2	10	3				
RAPAPPWD	F0		2				
RAPAPRMT	E2	40	3				
RAPAQUI	E1	40	3				
RAPASLGI	E1	20	3				
RAPASPO	E2	08	3				
RAPATLGN	E1	10	3				
RAPAUTHE	E2	02	3				
RAPAUTOS	116		2				
RAPBFACT	E0		2				
RAPBITAN	E1		2				
RAPBNA	DA		2				
RAPCLSAC	CA		2				
RAPCSMA	E3	80	3				
RAPDDRNL	E3	02	3				
RAPDMNWL	112		2				
RAPDMNWR	114		2				
RAPDRSPL	E3	01	3				
RAPDSSLM	110		2				
RAPEAS	D8		2				
RAPEND	128		2				
RAPENTAD	CC		2				
RAPLMDEN	118		2				
RAPMAXPV	E4		2				
RAPNAEL	DE		3				
RAPNASA	DA		3				
RAPPAQP	10C		2				
RAPPARS	E1	04	3				
RAPPCID	100		2				
RAPPRE	0		2				
RAPRAQP	108		2				
RAPRNIP	E1	08	3				
RAPSAWCR	CB		2				
RAPSONSC	E3	08	3				
RAPSRBX	E3	20	3				
RAPSRTLN	E3	04	3				

## Resource Definition Table Physical Unit Entry (RCC)

<b>Function:</b>	The RCC maps the VTAM resource definition table physical unit entry. It defines a physical unit. Each RCC is followed by one or more LU entries (RLU).
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	224 (X'E0')
<b>Included Blocks:</b>	RPU (RCCPRE)
<b>Located in:</b>	Found in the RDT and RNCA. The RCC appears in the NCP, switched SNA, and local SNA RDT segments.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	224	ISTRCC	PHYSICAL UNIT ENTRY	
0	(0)	CHARACTER	168	RCCPRE	COMMON ENTRY PREFIX (SEE RPU)	
168	(A8)	BITSTRING	4	RCCBITAN	FLAG BITS	
		1111 ....		RCCRNAA	RNAA TYPE REQUEST SUPPORT IN HEX X'0' - RNAA TYPE X0 USED FOR PU X'1' - RNAA TYPE X1 USED FOR LU X'4' - RNAA TYPE X4 USED FOR LU X'5' - RNAA TYPE X5 USED FOR PU	
		.... 1..		RCCCTPGD	1=CONTACT PURGED	
		.... .1..		*	RESERVED	
		.... .1..		RCCFINAL	1=DEACT PU FINAL REQUIRED	
		.... ...1		RCCACTPU	1=ACTPU RESPONSE RECEIVED	
		1.. ....		RCCIRETR	1=IRETRY	
		.1.. ....		RCCBNNSP	1=BOUNDARY NODE SUPPORT FOR 3270	
		..1. ....		RCCSECNT	PU ATTACHMENT REQUIRES SPECIAL PD PROCEDURE	
		...1 ....		RCCLPDA	1= NO LPDA TRACING IS DESIRED FOR THE PU	
		.... 1..		RCCAPUSI	ACTPU SUPPRESSION INDICATOR 0=ATCPU FOR AN SSCP SESSION REQUESTED 1=ATCPU FOR AN SSCP SESSION NOT REQUESTED	
		.... .1..		RCCXID3	NEW XID FORMAT SUPPORT INDICATOR 0=XID FORMAT 3 NOT SUPPORTED 1=XID FORMAT 3 SUPPORTED	
		.... ..1.		RCCMVACT	VALUE OF KEYWORD ACTIVATE B'0' - ACTIVATE=NO B'1' - ACTIVATE=YES	
		.... ...1		RCCRECTM	1=TERMINATE LAST RECEIVED	
		1.. ....		RCCLURSS	1=SESSION START RECEIVED	
		.1.. ....		*	RESERVED	
		..11 1111		*	NOT USED - AVAILABLE	
171	(AB)	BITSTRING	1	*	NOT USED - AVAILABLE	
172	(AC)	BITSTRING	1	RCCCDFLG	CROSS DOMAIN PU FLAGS	
173	(AD)	UNSIGNED	1	RCCLDFSM	ADJACENT LINK STATION - SECONDARY LOAD FSM	
174	(AE)	UNSIGNED	2	RCCFMLNE	ELEMENT ADDRESS OF MOVED FROM LINE	
176	(B0)	UNSIGNED	4	RCCTIMER	TIME OF PREVIOUS INOP	
176	(B0)	UNSIGNED	4	RCCDLCOR	INITLOAD-LOADSTAT CORRELATOR FOR DSLU. THIS FIELD CAN BE USED BECAUSE DSLU DOES NOT SUPPORT BSC. THIS FIELD ONLY USED WHEN PROCESSING INOPS FOR BSC 3270 - SO NOT USED IN DSLU	
180	(B4)	UNSIGNED	2	RCCDELAY	DELAY TIME VALUE	
182	(B6)	SIGNED	2	RCCCTELU	COUNT OF LU ENTRIES	
184	(B8)	UNSIGNED	1	RCCNCNT	CONTACT COUNT	
185	(B9)	UNSIGNED	1	*	RESERVED	
186	(BA)	UNSIGNED	1	RCCGPTCS	GPT TRACE CURRENT STATE	
187	(BB)	UNSIGNED	1	RCCFSM	THE STATUS FOR THE INITPU	
188	(BC)	CHARACTER	8	RCCPCID	FORMAT 4 PCID FOR SSCP-PU SESSION	
196	(C4)	CHARACTER	8	RCCOWNER	SSCP OWNER NAME	
204	(CC)	CHARACTER	8	*	RESERVED	
212	(D4)	CHARACTER	12	*	NOT USED - AVAILABLE	
224	(E0)	CHARACTER		RCCEND	END OF PHYSICAL UNIT ENTRY	

RDT



**Constants**

Len	Type	Value	Name	Description
CONSTANTS FOR RNAA TYPES				
0	HEX	0	RCCRNAT0	PU RNAA TYPE 0
0	HEX	1	RCCRNAT1	LU RNAA TYPE 1
0	HEX	4	RCCRNAT4	LU RNAA TYPE 4
0	HEX	5	RCCRNAT5	PU RNAA TYPE 5

**Cross Reference**

RDT

Name	Hex Offset	Hex Value	Level
ISTRCC	0		1
RCCACTPU	A8	01	3
RCCAPUSI	A9	08	3
RCCBITAN	A8		2
RCCBNNSP	A9	40	3
RCCCDFLG	AC		2
RCCNCNT	B8		2
RCCCTELU	B6		2
RCCCTPGD	A8	08	3
RCCDELAY	B4		2
RCCDLCOR	B0		3
RCCEND	E0		2
RCCFINAL	A8	02	3
RCCFMLNE	AE		2
RCCFSM	BB		2
RCCGPTCS	BA		2
RCCIRETR	A9	80	3
RCCLDFSM	AD		2
RCCLPDA	A9	10	3
RCCLURSS	AA	80	3
RCCMVACT	A9	02	3
RCCOWNER	C4		2
RCCPCID	BC		2
RCCPRE	0		2
RCCRECTM	A9	01	3
RCCRNAA	A8	80	3
RCCSECNT	A9	20	3
RCCTIMER	B0		2
RCCXID3	A9	04	3

## Resource Definition Table Extension (RCDRE)

<b>Function:</b>	The RCDRE maps the extension to an RCDRM for a cross-domain resource manager in another network. It does not exist for cross-domain resource managers in the host's network.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	56 (X'38')
<b>Pointed to by:</b>	RCDENTAD (RCDRM) - first RCDRE RCDREEXT (RCDRE) - next RCDRE
<b>Located in:</b>	Found in the ALCA.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	56	ISTRCDRE	CROSS DOMAIN RESOURCE MANAGER EXTENSION ENTRY. THIS EXTENSION WILL ONLY EXIST FOR A CROSS-NETWORK CDRM RDTE. FOR A CROSS-DOMAIN RESOURCE MANAGER IN THE HOST'S NETWORK, NO EXTENSION IS NEEDED. ALL DATA IS IN ISTRCDRM	
0	(0)	ADDRESS	4	RCDREEXT	ADDRESS OF NEXT CDRM EXTENSION	
THE FOLLOWING FIELDS CONTAIN THE ADDRESSES AND GATEWAY NODE NAME AND OTHER INFORMATION WHICH WERE SPECIFIED ON THE GWPATH MACRO AND ARE USED TO DEFINE POSSIBLE PATHS TO THE EXTERNAL CDRM.						
4	(4)	CHARACTER	8	RCDREGWN	GATEWAY NODE NAME	
12	(C)	CHARACTER	8	RCDREADJ	ADJACENT NETWORK ID	
20	(14)	CHARACTER	8	*	RESERVED	
28	(1C)	CHARACTER	6	RCDRENAA	NETWORK ADDRESS IN ADJ NETWORK - FOR THIS EXTERNAL SSCP	
28	(1C)	SIGNED	4	RCDRESAA	SUBAREA ADDRESS	
32	(20)	SIGNED	2	RCDREELA	ELEMENT ADDRESS	
34	(22)	CHARACTER	6	RCDRENAT	NETWORK ADDRESS IN THIS NETWORK - FOR THIS EXTERNAL SSCP	
34	(22)	SIGNED	4	RCDRESAT	SUBAREA ADDRESS	
38	(26)	SIGNED	2	RCDREELT	ELEMENT ADDRESS	
40	(28)	CHARACTER	2	RCDREFLG	FLAGS	
		1... ....		RCDREXNT	1=RDTADD WAS DONE BY CONFIGURATION SERVICES FOR RCDRENAA IN NAME SPACE OF THE ADJACENT SSCP	
		.1.. ....		RCDRETNT	1=RDTADD WAS DONE BY CONFIGURATION SERVICES FOR RCDRENAT IN NAME SPACE OF THIS NETWORK SSCP	
		..1. ....		RCDREBTS	1=FLAGS IN RCDREGWF HAVE BEEN SET AS PART OF GATEWAY NODE SELECTION	
		...1 1..		RCDGWCTL	0=THIS HOST IS NOT IN SESSION WITH THE GWN 1=THIS HOST IS NOT PREDESIGNATED WITH REGARD TO THE EXTERNAL CDRM AND THE GWN NAMED IN THIS EXTENSION 2=THIS HOST IS PREDESIGNATED WITH REGARD TO THE EXTERNAL CDRM AND THE GWN NAMED IN THIS EXTENSION	
		.... .1..		RCDGNADD	1=RCDREGWN WAS NOT CODED ON THE GWPATH MACRO AND WAS SET AS A RESULT OF RECEIVING A GAINED GWN AMRU AND SHOULD BE DELETED WHEN A LOST GWN AMRU IS RECEIVED	
		.... ..1.		RCDGWPTH	0=THIS EXTENSION IS NOT CREATED BY GWPATH MACRO 1=THIS EXTENSION IS CREATED BY GWPATH MACRO	
		.... ...1		*	RESERVED	
41	(29)	BITSTRING	1	*	NOT USED - AVAILABLE	
42	(2A)	CHARACTER	14	*	NOT USED - AVAILABLE	
56	(38)	CHARACTER		RCDREEND	END OF CROSS DOMAIN RESOURCE MANAGER EXTENSION ENTRY	

RDT

**Constants**

Len	Type	Value	Name	Description
THE FOLLOWING ARE CONSTANTS FOR THE GWN CONTROL FIELD - RCDGWCTL				
0	BIT	00	RCDGWNS	THIS HOST IS NOT IN SESSION WITH THE GWN
0	BIT	01	RCDGWNP	THIS HOST IS NOT PREDESIGNATED
0	BIT	10	RCDGWPD	THIS HOST IS PREDESIGNATED

**Cross Reference**

RDT

Name	Hex Offset	Hex Value	Level
ISTRCDRE	0		1
RCDGNADD	28	04	3
RCDGWCTL	28	10	3
RCDGWPTH	28	02	3
RCDREADJ	C		2
RCDREBTS	28	20	3
RCDREELA	20		3
RCDREELT	26		3
RCDREEND	38		2
RCDREEXT	0		2
RCDREFLG	28		2
RCDREGWN	4		2
RCDRENAA	1C		2
RCDRENAT	22		2
RCDRESAA	1C		3
RCDRESAT	22		3
RCDRETNT	28	40	3
RCDREXNT	28	80	3

## Resource Definition Table Cross-Domain Resource Manager Entry (RCDRM)

<b>Function:</b>	The RCDRM maps the VTAM resource definition table cross-domain resource manager (CDRM) entry. It defines a particular CDRM. For CDRMs in another network, there is an extension (see RCDRE) to this control block.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	464 (X'1D0')
<b>Pointed to by:</b>	ALCCDRMP - previous CDRM entry
<b>Included Blocks:</b>	RAP (RCDRMPR)
<b>Located in:</b>	Found in the ALCA, CONFT, and RDT.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	464	ISTRCDRM	CROSS DOMAIN RESOURCE MANAGER ENTRY
0	(0)	CHARACTER	296	RCDRMPR	APPLICATION ENTRY PREFIX (SEE RAP)
296	(128)	ADDRESS	4	RCDRMPDN	POINTER TO PENDING DEACTIVATE NCSPL TO BE SCHEDULED WHEN HOST CDRM SESSION COUNT GOES TO 0 (HOST CDRM ONLY)
296	(128)	ADDRESS	4	RCDRMPDT	POINTER TO PENDING DOMAIN TAKEDOWN COMPLETE RUPE-USED DURING DEACT (EXTERNAL CDRM ONLY)
300	(12C)	SIGNED	4	RCDSSCNT	COUNT OF SESSIONS ASSOCIATED WITH THIS CDRM
304	(130)	SIGNED	4	RCDRMSC	SSCP_SSCP SESSION COUNT (HOST CDRM ONLY)
308	(134)	ADDRESS	4	RCDRMRP	POINTER TO DOMAIN TAKEDOWN COMPLETE RUPE USED BY SESSION SERVICES TO NOTIFY THE HOST CDRM WHEN THE CROSS SESSION COUNT GOES TO ZERO
312	(138)	ADDRESS	4	RCDENTAD	POINTER TO THE FIRST CDRM EXTENSION
316	(13C)	CHARACTER	8	RCDRMNET	NETWORK ID OF THIS CDRM
324	(144)	CHARACTER	8	RCDRMNAM	SSCPNAME FOR THIS SSCP IN THE NETWORK OF RCDRMNET
332	(14C)	CHARACTER	8	RCDRMPCI	FORMAT 5 PCID FOR SSCP-SSCP SESSION

THE FOLLOWING FIELDS WILL BE ONLY VALID FOR A CROSS-NETWORK, EXTERNAL CDRM. FOR THE HOST CDRM OR A SAME-NETWORK CDRM, THESE FIELDS WILL NOT CONTAIN MEANINGFUL DATA AND THEY ARE RESERVED. THE FOLLOWING FIELDS CONTAIN THE ADDRESSES AND OTHER INFORMATION WHICH IS ACTUALLY IN USE FOR THIS SESSION WITH THE EXTERNAL CDRM. THIS DATA WAS DERIVED FROM THE INFORMATION CONTAINED IN ONE OF THE EXTENSIONS, OR WAS RECEIVED FROM THE OTHER SSCP IN SESSION ACTIVATION RU EXCHANGES.

340	(154)	CHARACTER	8	RCDRMGWN	GATEWAY NCP USED TO SET UP THIS SSCP-SSCP SESSION
348	(15C)	CHARACTER	8	RCDRMADJ	ADJACENT NETID ON THE DIRECTION OF THIS EXTERNAL SSCP
356	(164)	CHARACTER	8	RCDRMIAR	INBOUND ARSI(ASSIGN REQUEST SEQUENCE IDENTIFIER) VALUE
364	(16C)	CHARACTER	8	RCDRMOAR	OUTBOUND ARSI VALUE
372	(174)	CHARACTER	6	RCDRMSSP	SSCPID OF THIS SSCP
378	(17A)	CHARACTER	6	RCDRMN6A	NETWORK ADDRESS IN ADJACENT NETWORK FOR EXTERNAL, CROSS-NET CDRM RESERVED IF SAME-NET CDRM
378	(17A)	SIGNED	4	RCDRMSAA	SUBAREA ADDRESS IN ADJACENT NETWORK
382	(17E)	SIGNED	2	RCDRMELA	ELEMENT ADDRESS IN ADJACENT NETWORK
384	(180)	CHARACTER	6	RCDRMN6T	NETWORK ADDRESS IN THIS NETWORK FOR EXTERNAL, CROSS-NETWORK CDRM RESERVED IF SAME-NET CDRM
384	(180)	SIGNED	4	RCDRMSAT	SUBAREA ADDRESS IN THIS NETWORK
388	(184)	SIGNED	2	RCDRMELT	ELEMENT ADDRESS IN THIS NETWORK
390	(186)	CHARACTER	6	RCDRMN6H	HOST SSCP ALIAS NETWORK ADDRESS IN ADJACENT NETWORK

RDT

RDT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
390	(186)	SIGNED	4	RCDRMSAH	SUBAREA ADDRESS IN ADJACENT NETWORK
394	(18A)	SIGNED	2	RCDRMELH	ELEMENT ADDRESS IN THIS ADJACENT NETWORK
396	(18C)	CHARACTER	4	*	NOT USED - AVAILABLE

THE FOLLOWING FIELDS ARE VALID FOR ANY SYSTEM CONFIGURATION

400	(190)	CHARACTER	1	RCDRMFG2	FLAGS
		1... ..		RCDRMGWS	1= THIS SSCP IS GATEWAY CAPABLE
401	(191)	.1... ..	3	RCDRMNTW	1= NETWORK CODED EXPLICITLY
		..1... ..		RCDRMR6A	1= RDTADD DONE FOR NETWORK ADDRESS IN RCDRMN6A
		...1... ..		RCDRMR6T	1= RDTADD DONE FOR NETWORK ADDRESS IN RCDRMN6T
		.... 1... ..		RCDRMR6H	1= RDTADD DONE FOR NETWORK ADDRESS IN RCDRMN6H
		.... .1... ..		RCDRMACX	1= RNAA SENT, STATE MUST BE SET TO INACX IF ACTCDRM IS NOT SENT
		.... ..1... ..		RCDRMVRA	1= VRLIST INFO IS ACTIVE IN GWN, DO NOT SEND SETCV FOR VRLIST
		.... ...1... ..		RCDRMR6R	1= RPRDAF IS VALID FOR RDTFIND
		1... ..		RCDRMFGS	FLAG BITS
		..1... ..		RCDRMHST	THIS IS HOST CDRM
		...1... ..		RCDRMPRI	IF ON IN RDTE FOR EXTERNAL CDRM, THEN HOST CDRM IS PRIMARY. NOT SET FOR HOST CDRM RDTE.
		.... 1... ..		RCDRMSCA	CDRM SESSION COUNT INCREMENTED
		.... .1... ..		RCDRMACT	ACTCDRM HAS BEEN SENT OR RECEIVED
		.... ..1... ..		RCDRMSDT	START DATA TRAFFIC HAS BEEN SENT OR RECEIVED
		.... ...1... ..		RCDRMOVR	CPNFY SUBTRACT INVOKED FOR CDRM SESSION
		.... ....1... ..		RCDRMDCD	DACTCDRM SENT FOR CDRM TAKEDOWN SEQUENCE
		1... ..		RCDRMCLC	CLEAR COMPLETE
		..1... ..		RCDRMCLR	CLEAR IN PROGRESS
		...1... ..		RCDRMDT	DOMAIN TAKEDOWN SENT
		.... 1... ..		RCDRMDTC	SEND DOMAIN TAKEDOWN COMPLETE
		.... ..1... ..		RCDRMTCR	DOMAIN TAKEDOWN COMPLETE RECEIVED
.... ...1... ..	RCDRSONC	IF ON, INDICATES DACTCDRM RECEIVED DUE TO CONTENTION RESOLUTION			
.... .1... ..	RCDRMINC	INTERNAL CLEANUP			
.... ..1... ..	RCDRMSPC	TAKEDOWN COMPLETE			
.... ...1... ..	RCDRMVL	THERE EXIST LU ENTRIES WITH CROSS DOMAIN CONTROLLERS FOR THE EXTERNAL CDRM			
1... ..	RCDRMDYN	THIS CDRM SUPPORTS DYNAMIC CDRSCS			
..1... ..	RCDRCDRS	PREDEFINED CDRSC IS OPTIONAL			
...1... ..	RCDRMSON	1 = DACTCDRM(SON) RECEIVED			
.... 1... ..	RCDRMSST	1=SESSION STARTED AWARENESS HAS BEEN SENT TO NLDM			
.... .1... ..	RCDRMREC	1= THIS CDRM PERMITS AUTOMATIC RESTART OF SSCP-SSCP SESSIONS			
.... ..1... ..	RCDRMRQR	1= THIS CDRM RECEIVED A REQACTCDRM THAT WAS REJECTED DUE A PRIOR SESSION EXISTING AND SHOULD BE RECOVERED WHEN SON NOTIFICATION ARRIVES			
.... ...1... ..	RCDRMINA	IF BIT IS ON IN RDTE FOR EXTERNAL CDRM, THEN INACTIVATION WAS REQUESTED BY THE EXTERNAL CDRM. NOT SET FOR HOST CDRM RDTE			
.... ....1... ..	RCDRMNOT	1=NOTIFY 8 FOR SSCP AVAILABILITY HAS BEEN RECEIVED BY SESSION SERVICES			

THE FOLLOWING FIELD RCDRMK06 IS MAPPED TO CDRM CONTROL VECTOR 06.

404	(194)	BITSTRING	4	RCDRMK06	MAPPED TO CDRM PROFILE
		1... ..		RCDRMNMP	CDRM SUPPORTS PAIRED NAMES
		..1... ..		RCDRMNAP	CDRM SUPPORTS PAIRED NETWORK ADDRESSES
		...1... ..		RCDRMPS	CDRM SUPPORTS PARALLEL SESSIONS
		.... 1... ..		RCDRMURC	0=CDRM SUPPORTS PAIRED NAMES
		.... ..1... ..		RCDRMLOQ	1=CDRM SUPPORTS 'LEAVE ON QUEUE IF SESSION SETUP FAILS'
		.... ...1... ..		RCDRMRID	CDRM SUPPORTS PCID SESSION KEY

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... .1.		RCDRMCD2	FORMAT 2 CDINIT, UNBIND FROM SLU TO PLU, AND CD SESSION ENDED FROM SSCP(SLU) TO SSCP(PLU) IS SUPPORTED
		.... ...1		*	NOT USED - RESERVED
		1... ....		RCDRMESL	EXTENSION OF LU STATUS CONTROL LIST ENTRY IS SUPPORTED
		.1.. ....		RCDRMNQA	NETWORK-QUALIFIED ADDRESS PAIR SESSION KEY SUPPORTED
		..1. ....		RCDRMIC2	INIT OTHER-CD FORMAT 2 SUPPORTED
		...1 ....		RCDRMIC3	INIT OTHER-CD FORMAT 3 SUPPORTED
		.... 1...		RCDRMC34	CDINIT FORMAT 3 AND 4 SUPPORTED
		.... .1..		RCDRMCDC	CDCINIT FORMAT 1 SUPPORT
		.... .1.		RCDRMNT6	NOTIFY KEY 6 SUPPORTED
		.... ...1		RCDRMCD5	SSCP SENDS CDSESEND WHEN SESSION AWARENESS IS DISCARDED
		1... ....		RCDRNCPA	NOTIFICATION OF CONTROLLING PLU AVAILABILITY IS SUPPORTED
		.1.. ....		RCDRMHRP	1 = HARP CAPABLE
		..1. ....		RCDRMENA	CDRM IS ENA CAPABLE
		...1 ....		RCDRMNQN	NETWORK QUALIFIED NAMES ARE SUPPORTED
		.... 1...		RCDRNSSA	NOTIFICATION OF SSCP-SSCP SESSION AVAILABILITY IS SUPPORTED
		.... .1..		RCDRUEXP	INDICATES THE TYPE OF RU EXPECTED IN RESPONSE TO AN ARCHITECTURALLY DEFINED CATEGORY OF RUS (EX CDINIT, CDCINIT) 0 = -RSP EXPECTED 1 = CDTERM WITH AN EXTENDED SENSE DATA (X'35') CONTROL VECTOR IS EXPECTED
		.... .1.		RCDUNREC	INTERMEDIATE GATEWAY SSCP RESPONSE TO UNRECOGNIZED CONTROL VECTORS ON A SESSION SERVICES RU 0 = THE GATEWAY SSCP NEGATIVELY RESPONDS TO THE RU 1 = THE GATEWAY SSCP PASSES THROUGH UNRECOGNIZED VECTORS WITHOUT CHANGE
		.... ...1		*	RESERVED
407	(197)	BITSTRING	1	RCDRMECP	ESA SUPPORT
		1... ....		RCDRMESA	1 = ESA SUPPORTED
		.111 ....		*	RESERVED
		.... 1111		RCDRMSLM	SUBAREAS SUPPORTED
408	(198)	UNSIGNED	2	RCDRMSEQ	CDRM SEQUENCE COUNT (EXTERNAL CDRM ONLY)
410	(19A)	CHARACTER	1	*	BITS
		1... ....		*	RESERVED
		.111 1111		*	NOT USED - AVAILABLE
411	(19B)	CHARACTER	2	*	NOT USED - AVAILABLE
413	(19D)	BITSTRING	1	RCDRMFLG	NLDM2 UTILITY FLAGS
		1... ....		RCDRMRST	=1, ROUTING INFORMATION FOR THIS NETWORK HAS BEEN STORED
		.1.. ....		RCDRMART	=1, VR-ER ROUTING INFORMATION FOR THE ADJACENT NETWORK HAS BEEN STORED
		..1. ....		RCDRMAPK	=0, THE ARSI VALUE CONTAINED IN ACTCDRM RESPONSE IS STORED IN RCDRMIAR =1, THE ARSI VALUE CONTAINED IN ACTCDRM RESPONSE IS STORED IN RCDRMOAR
		...1 1111		*	RESERVED
414	(19E)	BITSTRING	1	RCDRMMSK	SESSION NOTIFICATION MASK
		1... ....		RCDRMARS	=1, ACTCDRM RESPONSE IS EXPECTED
		.1.. ....		RCDRMNGW	=1, NOTIFY IS EXPECTED FROM THE GWN
		..11 1111		*	RESERVED
415	(19F)	UNSIGNED	1	RCDSAWCR	SESSION AWARENESS CORRELATOR
416	(1A0)	CHARACTER	3	RCDRMVE	VR-ER DATA FOR THIS NETWORK
416	(1A0)	UNSIGNED	1	RCDRMVTP	VIRTUAL ROUTE AND TRANSMISSION PRIORITY DATA FOR THIS NETWORK
		1111 ....		RCDRMVR	VIRTUAL ROUTE NUMBER FOR SESSION
		.... 11..		*	RESERVED
		.... ..11		RCDRMTP	TRANSMISSION PRIORITY FOR SESSION
417	(1A1)	UNSIGNED	1	RCDRMERF	EXPLICIT ROUTE INFORMATION
		1111 ....		*	RESERVED
		.... 1111		RCDRMERN	EXPLICIT ROUTE NUMBER FOR SESSION



RDT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
418	(1A2)	UNSIGNED 1111 .... .... 1111	1	RCDRMREF *	REVERSE EXPLICIT ROUTE INFORMATION RESERVED	
419	(1A3)	CHARACTER	3	RCDRMRRER	REVERSE EXPLICIT ROUTE NUMBER FOR SESSION	
419	(1A3)	UNSIGNED 1111 .... .... 11.. .... ..11	1	RCDRMVVRT RCDRMAVR *	VR-ER DATA FOR ADJACENT NETWORK VIRTUAL ROUTE AND TRANSMISSION PRIORITY DATA VIRTUAL ROUTE NUMBER FOR SESSION RESERVED	
420	(1A4)	UNSIGNED 1111 .... .... 1111	1	RCDRMATP RCDRMAEF *	TRANSMISSION PRIORITY FOR SESSION EXPLICIT ROUTE INFORMATION RESERVED	
421	(1A5)	UNSIGNED 1111 .... .... 1111	1	RCDRMAER RCDRMARE *	EXPLICIT ROUTE NUMBER FOR SESSION REVERSE EXPLICIT ROUTE INFORMATION RESERVED	
422	(1A6)	CHARACTER	8	RCDRMARN	REVERSE EXPLICIT ROUTE NUMBER FOR SESSION	
430	(1AE)	CHARACTER	8	RCDRMRTSI	SESSION INITIATION TIME STAMP	
438	(1B6)	CHARACTER	8	RCDRMCOS	COS NAME FOR THIS NETWORK	
446	(1BE)	CHARACTER	8	RCDRMACS	COS NAME FOR ADJACENT NETWORK	
464	(1D0)	CHARACTER	18	* RCDRMEND	NOT USED - AVAILABLE END OF CROSS DOMAIN RESOURCE MANAGER ENTRY	

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRCDRM	0		1	RCDRMGWS	190	80	3
RCDENTAD	138		2	RCDRMHRP	196	40	3
RCDRCDRS	193	40	3	RCDRMHST	191	80	3
RCDRMACS	1B6		2	RCDRMIAR	164		2
RCDRMACT	191	10	3	RCDRMIC2	195	20	3
RCDRMACX	190	04	3	RCDRMIC3	195	10	3
RCDRMADJ	15C		2	RCDRMINA	193	02	3
RCDRMAEF	1A4		3	RCDRMINC	192	04	3
RCDRMAER	1A4	08	4	RCDRMK06	194		2
RCDRMAJR	1A3		2	RCDRMLOQ	194	08	3
RCDRMAPK	19D	20	3	RCDRMMSK	19E		2
RCDRMARE	1A5		3	RCDRMNAM	144		2
RCDRMARN	1A5	08	4	RCDRMNAP	194	40	3
RCDRMARS	19E	80	3	RCDRMNET	13C		2
RCDRMART	19D	40	3	RCDRMNGW	19E	40	3
RCDRMATP	1A3	02	4	RCDRMNMP	194	80	3
RCDRMAVR	1A3	80	4	RCDRMNOT	193	01	3
RCDRMCDC	195	04	3	RCDRMNQA	195	40	3
RCDRMCDS	195	01	3	RCDRMNQN	196	10	3
RCDRMCDD	194	02	3	RCDRMNTW	190	40	3
RCDRMCLC	191	01	3	RCDRMNT6	195	02	3
RCDRMCLR	192	80	3	RCDRMN6A	17A		2
RCDRMCOS	1AE		2	RCDRMN6H	186		2
RCDRMC34	195	08	3	RCDRMN6T	180		2
RCDRMDCD	191	02	3	RCDRMOAR	16C		2
RCDRMDT	192	40	3	RCDRMOVR	191	04	3
RCDRMDTC	192	20	3	RCDRMPCI	14C		2
RCDRMDYN	193	80	3	RCDRMPDN	128		2
RCDRMECP	197		3	RCDRMPDT	128		3
RCDRMELA	17E		3	RCDRMPPR	0		2
RCDRMELH	18A		3	RCDRMPRI	191	40	3
RCDRMELT	184		3	RCDRMPS	194	20	3
RCDRMENA	196	20	3	RCDRMREC	193	08	3
RCDRMEND	1D0		2	RCDRMREF	1A2		3
RCDRMERF	1A1		3	RCDRMRRER	1A2	08	4
RCDRMERN	1A1	08	4	RCDRMRID	194	04	3
RCDRMESA	197	80	4	RCDRMRP	134		2
RCDRMESL	195	80	3	RCDRMRQR	193	04	3
RCDRMFGS	191		2	RCDRMRSR	19D	80	3
RCDRMFG2	190		2	RCDRMR6A	190	20	3
RCDRMFLG	19D		2	RCDRMR6H	190	08	3
RCDRMGWN	154		2	RCDRMR6R	190	01	3

Name	Hex Offset	Hex Value	Level
RCDRMR6T	190	10	3
RCDRMSAA	17A		3
RCDRMSAH	186		3
RCDRMSAT	180		3
RCDRMSC	130		2
RCDRMSCA	191	20	3
RCDRMSDT	191	08	3
RCDRMSEQ	198		2
RCDRMSLM	197	08	4
RCDRMSON	193	20	3
RCDRMSPC	192	02	3
RCDRMSSP	174		2
RCDRMSST	193	10	3
RCDRMTCR	192	10	3
RCDRMTP	1A0	02	4
RCDRMTSI	1A6		2
RCDRMURC	194	10	3
RCDRMVE	1A0		2
RCDRMVL	192	01	3
RCDRMVR	1A0	80	4
RCDRMVRA	190	02	3
RCDRMVRT	1A3		3
RCDRMVTP	1A0		3
RCDRNCPA	196	80	3
RCDRNSSA	196	08	3
RCDRSONC	192	08	3
RCDRUEXP	196	04	3
RCDSAWCR	19F		2
RCDSSCNT	12C		2
RCDUNREC	196	02	3





## Resource Definition Table Cross-Domain Resource Entry (RCDRS)

<b>Function:</b>	The RCDRS maps the VTAM resource definition table cross-domain resource entry. It represents a specific cross-domain resource.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	264 (X'108')
<b>Pointed to by:</b>	SIBRRSRC
<b>Included Blocks:</b>	RCPRE (RCDRSPR)
<b>Located in:</b>	Found in the ALCA and RDT.

RDT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	264	ISTRCDRS	CROSS DOMAIN RESOURCE ENTRY	
0	(0)	CHARACTER	200	RCDRSPR	ALLOCATION ENTRY PREFIX (SEE RCPRE)	
200	(C8)	ADDRESS	4	RCDTABLE	POINTER TO ADJACENT SSCP TABLE	
204	(CC)	CHARACTER	8	RCDRCDRM	OWNING CROSS DOMAIN RESOURCE MANAGER NAME	
212	(D4)	CHARACTER	8	RCDRCDRMN	NEW CROSS DOMAIN RESOURCE MANAGER NAME	
220	(DC)	CHARACTER	8	RCDNETID	NETWORK ID FOR THE CDRSC	
228	(E4)	CHARACTER	8	RCDRHALN	NETWORK ALIAS FOR HOST	
236	(EC)	CHARACTER	8	RCDSAVAL	SAVED ALIAS NAME BY WHICH THIS CDRSC WAS PRE-DEFINED	
244	(F4)	CHARACTER	8	RCDADJSS	NAME SPECIFIED ON ORIGINAL CDRM OPERAND OF CDRSC DEFINITION STATEMENT	
252	(FC)	UNSIGNED	2	RCDTKCNT	COUNT OF TIMER CHECKS	
254	(FE)	BITSTRING	3	*	FLAGS	
		1... ....		RCDRDYN	1 = DYNAMICALLY ALLOC RDTE	
		.1. ....		RCDGTTAB	1 = ADJ SSCP TABLE ALLOCATED	
		..1. ....		RCDCCINP	1 = CROSS DOMAIN ROUTING IN PROGRESS	
		...1 ....		RCDRTCOM	1 = ROUTE TO THIS RESOURCE HAS BEEN SUCCESSFULLY ESTABLISHED	
		.... 1..		RCDALIAS	0 = RPRNAME IS REAL NAME 1 = RPRNAME IS ALIAS NAME	
		.... .1..		RCDPDALS	1 = CDRSC WAS PRE-DEFINED USING THE ALIAS NAME AS KNOWN IN THIS NETWORK	
		.... ..1.		RCDSWAP	1 = SIBS SWAPPED FROM THIS CDRSC	
		.... ...1		RCDUNFRE	1 = UNCONDITIONAL FREE IN PROGRESS FOR THIS CDRSC	
		1... ....		RCDRECMG	1 = MERGE HAS OCCURRED AND A NEW ADJACENT SSCP TABLE MAYBE REQUIRED	
		.1. ....		RCDCDPDF	1 = OWNING CDRM WAS CODED ON THE RESOURCE DEFINITION OR A MODIFY CDRM SET OWNER	
		..1. ....		RCDHALNS	1 = THIS HOST ALIAS NAME WAS SRTADDED	
		...1 ....		RCDINUSE		
		.... 1..		RCDADDAL	1 = THIS CDRSC NAME WAS SRTADDED AS A ALIAS	
		.... .1..		RCDOWNDT	1 = THE OWNING SSCP NAME HAS BEEN DETERMINED AND CANNOT BE MODIFIED 0 = THE OWNING SSCP NAME CAN BE MODIFIED	
		.... ..1.		RCDRVFYO	1 = OWNER VERIFICATION REQUESTED	
		.... ...1		RCDRTFAL	1 = OWNER VERIFICATION REQUESTED	
		1... ....		*	RESERVED	
		.111 1111		*	NOT USED - AVAILABLE	
257	(101)	CHARACTER	7	*	NOT USED - AVAILABLE	
264	(108)	CHARACTER		RCDRSEND	END OF CROSS DOMAIN RESOURCE ENTRY	

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRCDRS	0		1
RCDADDAL	FF	08	3
RCDADJSS	F4		2
RCDALIAS	FE	08	3
RCDCDINP	FE	20	3
RCDCDPDF	FF	40	3
RCDCDRMN	D4		2
RCDGTTAB	FE	40	3
RCDHALNS	FF	20	3
RCDINUSE	FF	10	3
RCDNETID	DC		2
RCDOWNDT	FF	04	3
RCDPDALS	FE	04	3
RCDRCDRM	CC		2
RCDRDYN	FE	80	3
RCDRECMG	FF	80	3
RCDRHALN	E4		2
RCDRSEND	108		2
RCDRSPR	0		2
RCDRTCOM	FE	10	3
RCDRTFAL	FF	01	3
RCDRVFYO	FF	02	3
RCDSAVAL	EC		2
RCDSWAP	FE	02	3
RCDTABLE	C8		2
RCDTKCNT	FC		2
RCDUNFRE	FE	01	3



## Resource Definition Table Allocation Entry Prefix (RCPRE)

<b>Function:</b>	The RCPRE maps the prefix for application program, cross-domain resource, and LU RDT entries.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	200 (X'C8')
<b>Included Blocks:</b>	RPRE (RCPPRE)
<b>Located in:</b>	Found in the RAP, RCDRS, and RLU.

RDT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	200	ISTRCPRE	ALLOCATION ENTRY PREFIX	
0	(0)	CHARACTER	96	RCPPRE	COMMON ENTRY PREFIX (SEE RPRES)	
96	(60)	CHARACTER	8	RCPSARRY	SIB CHAIN POINTER ARRAY	
96	(60)	ADDRESS	4	RCPSIBP	POINTER TO 1ST SIB ON PRIMARY SIB CHAIN	
100	(64)	ADDRESS	4	RCPSIBS	POINTER TO 1ST SIB ON SECONDARY SIB CHAIN	
104	(68)	CHARACTER	8	RCPSTAIL	PRI/SEC TAIL POINTERS	
104	(68)	ADDRESS	4	RCPSTPP	POINTER TO LAST SIB ON PRIMARY SIB CHAIN	
108	(6C)	ADDRESS	4	RCPSTPS	POINTER TO LAST SIB ON SECONDARY SIB CHAIN	
112	(70)	ADDRESS	4	RCPUSSTI	USS TABLE INDEX	
116	(74)	ADDRESS	4	RCPINTTI	INTERPRET TABLE INDEX	
120	(78)	ADDRESS	4	*	RESERVED	
124	(7C)	ADDRESS	4	*	RESERVED	
128	(80)	ADDRESS	4	RCPMODTI	MODE TABLE INDEX	
132	(84)	SIGNED	4	RCPSEST	NON BACKUP SESSION COUNT	
136	(88)	UNSIGNED	2	RCPSESLM	SESSION LIMIT (ZERO MEANS NO LIMIT)	
138	(8A)	UNSIGNED	2	RCPBESCT	BACKUP SESSION COUNT	
140	(8C)	CHARACTER	2	RCPSPACE	VPACING COUNTS	
140	(8C)	CHARACTER	1	RCPACEN	N COUNT	
141	(8D)	CHARACTER	1	RCPACEM	M COUNT	
142	(8E)	CHARACTER	2	RCPNCPCC	PACING COUNTS	
142	(8E)	CHARACTER	1	RCPNCPN	N COUNT	
143	(8F)	CHARACTER	1	RCPNCPM	M COUNT	
144	(90)	ADDRESS	1	RCPBFLIM	BUFFER LIMIT	
145	(91)	BITSTRING	1	RCPPMODE	PERMISSABLE MODES	
		1... ....		RCPRBASC	BASIC OK	
		.1.. ....		RCPRRECD	RECORD OK	
		..1. ....		RCPCROSS	SUPPORTS CROSS DOMAIN SESSIONS	
		...1 ....		RCPPRIM	LU IS PRIMARY CAPABLE	
		.... 11..		RCPCYMOD	OPERATOR MODIFIABLE FEATURE-02 LEVEL	
		.... 1..		RCPMDRQD	00=NONE 01=OPTIONAL	
		.... .1..		RCPMDCAP	10=SELECTIVE 11=REQUIRED	
		.... ..11		RCPCYSET	SYSDEF DEFINED FEATURE-02 LEVEL	
		.... ..1.		RCPSTRQD	00=NONE 01=OPTIONAL	
		.... ...1		RCPSTCAP	10=SELECTIVE 11=REQUIRED	
146	(92)	BITSTRING	1	RCPSSCFM	FUNCTION MANAGER TYPE	
147	(93)	BITSTRING	1	RCPSESSM	SESSION SERVICES STATE MACHINE	
		1111 ....		RCPSESPR	PRIMARY SESSION STATE	
		.... 1111		RCPSESSC	SECONDARY SESSION STATE	
148	(94)	BITSTRING	1	RCPBITAN	FLAG BITS	
		1111 ....		RCPCSM	0000 = INHIBITED 0001 = UNSTABLE 0011 = STABLE	
		.... 1... ..		RCPSEC	LU IS SECONDARY CAPABLE	
		.... .1.. ..		RCPALLOC	REALLOCATION IS IN PROGRESS	
		.... ..1. ..		RCPSWT	SESSIONS WAITING FOR UNSTABLE LU	
		.... ...1 ..		RCPOSAIP	OSA IN PROGRESS	
149	(95)	BITSTRING	1	RCPLEVEL	LEVEL INDICATORS	
		1... ....		RCPLVL	- FOR LOCALS (SNA AND NON-SNA) AND APPLS: 1=LEVEL OF VTAM >= 4.2 _ FOR AN LU IN AN NCP SEGMENT: 1=LEVEL OF NCP >= 7.2	
		.1.. ....		RCPUNRCV	RECEIPT OF UNRECOGNIZED CONTROL VECTOR(S) ON CINIT SUPPORT INDICATOR 1 = SUPPORTED 0 = NOT SUPPORTED	
		..1. ....		RCPLUSS	SESSION STARTED IS SENT BY THIS RESOURCE WHEN ACTING AS SLU	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1....		RCPNQLR	RDTE REPRESENTS A CONTROLLING PLU
		.... 1...		RCPHARP	LU IS HARP CAPABLE
		.... .1..		RCPT21NS	T2.1 NODE AND EXTENDED BIND SUPPORT INDICATOR 0= T2.1 NODES AND EXTENDED BIND NOT SUPPORTED 1= T2.1 NODES AND EXTENDED BIND SUPPORTED
		.... ..1.		RCPNQN	NETWORK QUALIFIED NAME SUPPORT INDICATOR 0 = NETWORK QUALIFIED NAMES NOT SUPPORTED 1 = NETWORK QUALIFIED NAMES SUPPORTED
		.... ....1		*	RESERVED
150	(96)	SIGNED	2	RCPQCNT	NUMBER OF TIMES CDRSC HAS BEEN RDT ADDED
152	(98)	CHARACTER	8	RCPLGNAP	CONTROLLER APPLICATION NAME
160	(A0)	CHARACTER	8	RCPLGMD	DEFAULT LOGMODE NAME
168	(A8)	CHARACTER	8	RCPGMOD	LOGMODE NAME SPECIFIED BY VARY LOGON
176	(B0)	CHARACTER	8	*	RESERVED
184	(B8)	CHARACTER	8	*	RESERVED
192	(C0)	CHARACTER	8	*	NOT USED - AVAILABLE
200	(C8)	CHARACTER		RCPEND	END OF ALLOCATION ENTRY PREFIX

### Constants

Len	Type	Value	Name	Description
RCPSSCFM - FOLLOWING EQUATES ARE FOR THE VARIOUS FUNCTION MANAGER TYPES				
1	HEX	01	RCPFSS	FORMATTED SYSTEM SERVICES
1	HEX	02	RCPUSS	UNFORMATTED SYSTEM SERVICES
1	HEX	03	RCPUNTO	USS MEDIA CONTROL
1	HEX	04	RCPU3270	UNFORMATTED SYSTEM SERVICES 3270
1	HEX	05	RCPU3275	UNFORMATTED SYSTEM SERVICES 3275
1	HEX	06	RCPU3780	UNFORMATTED SYSTEM SERVICES 3780
1	HEX	07	RCPPOI	UNFORMATTED SYSTEM SERVICES PROGRAM OPER- ATOR INTERFACE
1	HEX	08	RCPNOP	UNFORMATTED SYSTEM SERVICES NETWORK OPER- ATOR

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRCPRE	0		1	RCPSPACE	8C		2
RCPALLOC	94	04	3	RCPSPACEM	8D		3
RCPBESCT	8A		2	RCPSPACEEN	8C		3
RCPBFLIM	90		2	RCPSPMODE	91		2
RCPBITAN	94		2	RCPSPRE	0		2
RCPCNTLR	95	10	3	RCPSPRIM	91	10	3
RCPXCROSS	91	20	3	RCPQCNT	96		2
RCPCSM	94	80	3	RCPRBASC	91	80	3
RCPCYMOD	91	08	3	RCPRRECD	91	40	3
RCPCYSET	91	02	3	RCPSARRY	60		2
RCPLGMD	A0		2	RCPSEC	94	08	3
RCPEND	C8		2	RCPSESCT	84		2
RCPHARP	95	08	3	RCPSESLM	88		2
RCPINTTI	74		2	RCPSESPR	93	80	3
RCPLEVEL	95		2	RCPSESSC	93	08	3
RCPLGMOD	A8		2	RCPSESSM	93		2
RCPLGNAP	98		2	RCPSESWT	94	02	3
RCPLVL	95	80	3	RCPSIBP	60		3
RCPLMDCAP	91	04	4	RCPSIBS	64		3
RCPLMDRQD	91	08	4	RCPSLUSS	95	20	3
RCPLMODTI	80		2	RCPSSCFM	92		2
RCPLNCPPC	8E		2	RCPSTAIL	68		2
RCPLNCPPM	8F		3	RCPSTCAP	91	01	4
RCPLNCPN	8E		3	RCPSTPP	68		3
RCPNQN	95	02	3	RCPSTPS	6C		3
RCPOSAIP	94	01	3	RCPSTRQD	91	02	4



Name	Hex Offset	Hex Value	Level
RCPT21NS	95	04	3
RCPUNRCV	95	40	3
RCPUSSTI	70		2

RDT

## Resource Definition Table DAN Entry (RDA)

<b>Function:</b>	The RDA maps the VTAM resource definition table direct-attachment node entry for a channel-attached device. It defines a channel attachment to a host processor. There is one RDA for every channel-attached device in the major node. For a local SNA device, each RDA is followed by a PU entry (RCC). For a local non-SNA device, each RDA is followed by a single LU entry (RLU).
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	176 (X'B0')
<b>Included Blocks:</b>	RLN (RDAPRE)
<b>Located in:</b>	Found in the ALCA, RDT, and RNCA. The RDA appears in local SNA and local non-SNA RDT segments.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	176	ISTRDA	DAN ENTRY
0	(0)	CHARACTER	176	RDAPRE	LINE ENTRY PREFIX (SEE RLN)
176	(B0)	CHARACTER		RDAEND	END OF ISTRDA

## Resource Definition Table Header Entry (RDTE)

<b>Function:</b>	The RDTE maps the RDT header entry, which begins each RDT segment.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	160 (X'A0')
<b>Pointed to by:</b>	CONHCDRM (CONFT) - host CDRM CONDCDRM (CONFT) - dummy host CDRM FNDLU (FNDSF) - LU OCWSHPLA QABFIRST (QAB) QABLAST (QAB) SAWRESUM (SAWVT) - RDT at which SAW scanning was stopped SESAWCB (SESAW)
<b>Included Blocks:</b>	RPRE (RDTPRE)
<b>Located in:</b>	Found in the ALCA, CONFT, RLS, RRN, and RSW.

RDT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	160	ISTRDT	SEGMENT ENTRY	
0	(0)	CHARACTER	96	RDTPRE	COMMON ENTRY PREFIX (SEE RPRE)	
96	(60)	CHARACTER	4	RDTPLEN	SEGMENT TYPE AND LENGTH	
96	(60)	BITSTRING	1	RDTPRIOR	DETERMINES SEGMENT TYPE	
		1... ..		RDTCDRM	CROSS DOMAIN RESOURCE MANAGER SEGMENT	
		.1... ..		RDTCDRSC	CROSS DOMAIN RESOURCE SEGMENT	
		..1... ..		RDTPRIAP	APPLICATION SEGMENT	
		...1... ..		RDTPRILC	LOCAL 3270 SEGMENT	
		.... 1... ..		RDTPRIRN	NCP SEGMENT	
		.... .1... ..		RDTPRISW	SWITCHED TERMINAL SET SEGMENT	
		.... ..1... ..		RDTPRILS	LOCAL SNA TERMINAL SET SEGMENT	
		.... ...1... ..		RDTPRICA	COMMUNICATIONS ADAPTER SEGMENT (OS/VS) OR INTEGRATED COMMUNICATIONS ADAPTER SEGMENT (VSE)	
97	(61)	UNSIGNED	3	RDTLEN	LENGTH OF RDT SYSDEF USE ONLY	
100	(64)	ADDRESS	4	RD TENTAD	POINTER TO RRN, RSW OR RLS ENTRY DEFINITION OR ZERO	
104	(68)	ADDRESS	4	RDTFORW	POINTER TO NEXT SEGMENT	
108	(6C)	ADDRESS	4	RDTBACK	POINTER TO PREVIOUS SEGMENT	
112	(70)	ADDRESS	4	RDTVYRPH	POINTER TO VARY RPH WAITING FOR RESTART COMPLETION	
116	(74)	UNSIGNED	1	RDTMAXID	MAXIMUM NODE ID FOR NETWORK - SYSDEF USE ONLY	
117	(75)	UNSIGNED	1	RDTLGCT	COUNT OF OUTSTANDING LOGONS	
118	(76)	BITSTRING	2	RDTBITAN	FLAG BITS	
		1... ..		RDTCTPGD	CONTACT PURGED	
		.1... ..		RDTCDCTL	THIS SEGMENT CONTAINS ENTRIES WITH CROSS DOMAIN CONTROLLERS	
		..1... ..		RDTBHSET	BHSET REQUIRED	
		...1... ..		RDTHCDRM	HOST CDRM DEFINED IN THIS SEGMENT	
		.... 1... ..		RDTSSFLG	GOTTEN VIA GETMAIN IN ISTSDCSS (OS/VS ONLY)	
		.... .1... ..		RDTPACKT	RDTE REPRESENTS A PACKET IN A X.25 PACKET SWITCHED NETWORK	
		.... ..1... ..		RDTCNTLR	SEGMENT CONTAINS SLU WITH CONTROLLING PLU	
		.... ...1... ..		RDTLAN	CAJLAN NODE INDICATOR	
119	(77)	BITSTRING	1	*	NOT USED - AVAILABLE	
120	(78)	CHARACTER	20	RDTCRIA	CHECKPOINT/RESTART (C/R) INFORMATION AREA	
120	(78)	CHARACTER	8	RDTCRSDS	CHECKPOINT/RESTART DATA SET IDENTIFIER (BLANK IMPLIES NOT SPECIFIED)	
128	(80)	CHARACTER	8	RDTCRSPW	CHECKPOINT/RESTART DATASET PASSWORD (BLANK IMPLIES NOT SPECIFIED)	
136	(88)	ADDRESS	4	RDTVSRPL	CHECKPOINT/RESTART POINTER TO VSAM RPL	
140	(8C)	CHARACTER	4	RDTUTLEV	VTAM LEVEL INDICATOR	
144	(90)	SIGNED	2	RDTSHCNT	NUMBER OF SHM GROUPS OR PATHS	
146	(92)	CHARACTER	14	*	NOT USED -- AVAILABLE	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
160	(A0)	CHARACTER		RDTE	END OF SEGMENT ENTRY

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRDT	0		1
RDTBACK	6C		2
RDTBHSET	76	20	3
RDTBITAN	76		2
RDTCDCTL	76	40	3
RDTCDRM	60	80	4
RDTCDRSC	60	40	4
RDCNTLR	76	02	3
RDTCRIA	78		2
RDTCRSDS	78		3
RDTCRSPW	80		3
RDTCTPGD	76	80	3
RDTE	A0		2
RDTEAD	64		2
RDTFORW	68		2
RDTHCDRM	76	10	3
RDTLAN	76	01	3
RDTLEN	61		3
RDTLGCT	75		2
RDTMAXID	74		2
RDTPACKT	76	04	3
RDTPLEN	60		2
RDTPRE	0		2
RDTPRIAP	60	20	4
RDTPRICA	60	01	4
RDTPRILC	60	10	4
RDTPRILS	60	02	4
RDTPRIOR	60		3
RDTPRIRN	60	08	4
RDTPRISW	60	04	4
RDTSHCNT	90		2
RDTSSFLG	76	08	3
RDTUTLEV	8C		2
RDTVSRPL	88		3
RDTVYRPH	70		2





## Resource Definition Table Group Entry (RGP)

<b>Function:</b>	The RGP maps the VTAM resource definition table group entry. It defines a group of either switched or non-switched lines. Each RGP is followed by one or more line entries (RLN).
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	120 (X'78')
<b>Included Blocks:</b>	RPRE (RGPPRE)
<b>Located in:</b>	Found in the RNCA, and in the NCP and CA RDT segments.

RDT

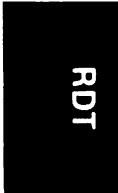
Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	120	ISTRGP	GROUP ENTRY	
0	(0)	CHARACTER	96	RGPPRE	COMMON ENTRY PREFIX (SEE RPRE)	
96	(60)	SIGNED	4	RGPDIALT	POINTER TO DIALNO	
100	(64)	SIGNED	4	RGPINDX	THE GROUP INDEX POINTING TO THE RCE	
104	(68)	SIGNED	2	RGPX21TM	FREE PERIOD AFTER THE DIAL COMPLETION--TIME VALUE FOR X.21 SHM/MPS	
106	(6A)	SIGNED	2	RGPNPOLL	NON PRODUCTIVE POLLING TIME-- TIME VALUE FOR X.21 SHM/MPS	
108	(6C)	SIGNED	2	RGPSHMCT	COUNT OF SHM PU'S USING THIS GROUP	
110	(6E)	UNSIGNED	1	RGPTYPE	SET TO RGPCTCA IF LNCTL=CTCA CODED	
111	(6F)	BITSTRING	2	RGPBITAN	FLAG BITS	
		1... ....		RGPADIL	SWITCHED	
		.1. ....		RGPASS	START/STOP	
		..1. ....		RGPLNCA	1=LNCTL=CA	
		...1 ....		RGPSADIL	SUBAREA DIAL INDICATOR	
		.... 1...		RGPX21SW	GROUP IS AN X.21 SWITCHED SDLC LINE GROUP	
		.... .1..		RGPSHM	ON=SHM GROUP ENTRY	
		.... ..1.		RGPCHALK	ON = CHANLNK CODED YES	
		.... ...1		RGPIGNOR	ON = NPARSC CODED YES	
		1... ....		RGPNSHM	1- LINES CONTAINED IN THIS GROUP ARE CAPABLE OF SUPPORTING SHM	
		.111 1111		*	NOT USED - AVAILABLE	
113	(71)	CHARACTER	7	*	NOT USED - AVAILABLE	
120	(78)	CHARACTER		RGPEND	END OF GROUP ENTRY	

## Constants

Len	Type	Value	Name	Description
1	HEX	01	RGPCTCA	CHANNEL TO CHANNEL
1	HEX	02	RGPNCP	CONTACT W/O ACTPU
1	HEX	03	RGPSDLC	SDLC LINE
1	HEX	04	RGPBSC	BI-SYNCH LINE
1	HEX	05	RGPUSER	USER-DEFINED LINE

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRGP	0		1
RGPADIL	6F	80	3
RGPASS	6F	40	3
RGPBITAN	6F		2
RGPCHALK	6F	02	3
RGPDIALT	60		2
RGPEND	78		2
RGPIGNOR	6F	01	3
RGPINDX	64		2
RGPLNCA	6F	20	3
RGPNPOLL	6A		2
RGPNSHM	70	80	3
RGPPRE	0		2
RGPSADIL	6F	10	3
RGPSHM	6F	04	3
RGPSHMCT	6C		2
RGPTYPE	6E		2
RGPX21SW	6F	08	3
RGPX21TM	68		2



## Resource Definition Table Adjacent Link Station Entry (RIN)

<b>Function:</b>	The RIN maps the VTAM resource definition table adjacent link station entry. It defines a cross-subarea link station, which is a contact point for a host or communication controller.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	232 (X'E8')
<b>Included blocks:</b>	RPU (RINCRPRE)
<b>Located in:</b>	Found in the RNCA, and in the NCP and CA RDT segments.

RDT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	232	ISTRIN	ADJACENT LINK STATION ENTRY	
0	(0)	CHARACTER	168	RINCRPRE	COMMON ENTRY PREFIX:(SEE RPU)	
168	(A8)	ADDRESS	4	RINTRENT	POINTER TO RIN ENTRY SPECIFIED BY THE RNAME PARAMETER OF VARY ACTIVATE	
172	(AC)	ADDRESS	4	RINREMOT	POINTER TO BACK-UP LINK STATION TO REAL LINK STATION	
176	(B0)	UNSIGNED	4	RINCTDRU	POINTER TO CONTACTED RU	
180	(B4)	CHARACTER	4	RINCLVL	RIN NCP LEVEL	
184	(B8)	ADDRESS	4	RINLOCRN	POINTER TO BOUNDARY HEADER SEGMENT	
188	(BC)	CHARACTER	4	RINNODID	SUBAREA NUMBER OF INN NODE (ZERO IF BACKUP)	
192	(C0)	UNSIGNED	1	RINTADDR	STATION ADDRESS IF SECONDARY	
193	(C1)	BITSTRING	2	RINBITAN	FLAG BITS	
		1... ....		RINREMPO	REMOTE POWER OFF	
		.1.. ....		RINNODIF	REMOTE TERM ENTRY INVALID AS ENTRY	
		..1. ....		RINLDISC	DISCONNECT REMOTE REQUIRED	
		...1 ....		RINPEER	1=RIN FOR PEER, 0=RIN FOR REMOTE	
		.... 1..		RINLOCAL	RIN GEND AS PU TYPE4, LOCAL	
		.... .1..		RINPRSWD	RIN SWITCHED FROM PEER TO INN	
		.... ..1.		RINCHAN	CHANNEL LINK STATION	
		.... ...1		RINBKUP	RIN IS A BACKUP RIN THAT LOOKS LIKE A REAL ONE	
		1... ....		RINCHCON	UNCONDITIONALLY PERFORM CHANNEL CONTACT	
		.1.. ....		*	RESERVED	
		..1. ....		*	RESERVED	
		...1 ....		*	RESERVED	
		.... 1..		*	RESERVED	
		.... .1..		*	RESERVED	
		.... ..11		*	NOT USED - AVAILABLE	
195	(C3)	UNSIGNED	1	RINDEFTG	DEFAULT TRANSMISSION GROUP NUMBER	
196	(C4)	CHARACTER	8	RINREAL	NAME OF RIN ENTRY SPECIFIED ON ID= STATEMENT	
204	(CC)	ADDRESS	4	RINNCPT	POINTER TO NCP FOR WHICH THIS LINK STATION IS CONTACT POINT	
208	(D0)	ADDRESS	4	RINXTRIN	POINTER TO NEXT RIN ON RIN QUEUE	
212	(D4)	UNSIGNED	2	RINDELAY	DELAY TIME VALUE	
214	(D6)	UNSIGNED	1	RINTG	TRANSMISSION GROUP NUMBER	
215	(D7)	CHARACTER	8	*	RESERVED	
223	(DF)	CHARACTER	8	*	RESERVED	
231	(E7)	CHARACTER	1	*	NOT USED - AVAILABLE	
232	(E8)	CHARACTER		RINEND	END OF ADJACENT LINK STATION ENTRY	

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRIN	0		1
RINBCKUP	C1	01	3
RINBITAN	C1		2
RINCHAN	C1	02	3
RINCHCON	C2	80	3
RINCPLVL	B4		2
RINCRPRE	0		2
RINCTDRU	B0		2
RINDEFTG	C3		2
RINDELAY	D4		2
RINEND	E8		2
RINLDISC	C1	20	3
RINLOCAL	C1	08	3
RINLOCRN	B8		2
RINNCPT	CC		2
RINNODF	C1	40	3
RINNODID	BC		2
RINPEER	C1	10	3
RINPRSWD	C1	04	3
RINREAL	C4		2
RINREMOT	AC		2
RINREMPO	C1	80	3
RINTADDR	C0		2
RINTG	D6		2
RINTRENT	A8		2
RINXTRIN	D0		2

RDT

## LAN PU Extension Mapping (RLEXT)

<b>Function:</b>	RLEXT provides a mapping of the extension of RCC or RIN for a LAN token-ring minor node.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	24 (X'18')
<b>Located in:</b>	RCC and RIN

RDT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	24	ISTRLEXT	LAN PU EXTENSION	
0	(0)	UNSIGNED	1	RLEINACT	T1,INACTIVITY TIMER	
1	(1)	BITSTRING	1	RLESADDR	SERVICE ACCESS POINT ADDRESS	
2	(2)	CHARACTER	6	RLEMADDR	MEDIUM ACCESS ADDRESS	
8	(8)	CHARACTER	2	RLECON	CONNECTION LPDU	
8	(8)	UNSIGNED	1	RLECONT	CT1,TIMER	
9	(9)	UNSIGNED	1	RLECONN	CN2,RETRY COUNTER	
10	(A)	CHARACTER	2	RLERESP	CONNECTED RESPONSE	
10	(A)	UNSIGNED	1	RLERESPT	T1,TIMER	
11	(B)	UNSIGNED	1	RLERESPN	N2,RETRY COUNTER	
12	(C)	CHARACTER	2	RLEACK	ACKNOWLEDGE I_LPDU	
12	(C)	UNSIGNED	1	RLEACKT	T2,DELAY TIMER	
13	(D)	UNSIGNED	1	RLEACKN	N3,COUNTER	
14	(E)	CHARACTER	2	RLESDW	WINDOW	
14	(E)	UNSIGNED	1	RLESDWK	K,SIZE	
15	(F)	UNSIGNED	1	RLESDWN	NW,STEP	
16	(10)	CHARACTER	8	*	NOT USED - AVAILABLE	
24	(18)	CHARACTER		RLEEND	END LAN PU EXTENSION	

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRLEXT	0		1
RLEACK	C		2
RLEACKN	D		3
RLEACKT	C		3
RLECON	8		2
RLECONN	9		3
RLECONT	8		3
RLEEND	18		2
RLEINACT	0		2
RLEMADDR	2		2
RLERESP	A		2
RLERESPN	B		3
RLERESPT	A		3
RLESADDR	1		2
RLESDW	E		2
RLESDWK	E		3
RLESDWN	F		3

## Resource Definition Table Line Entry (RLN)

<b>Function:</b>	The RLN maps the VTAM resource definition table line entry. It defines a specific switched or non-switched line. Each RLN is followed by one or more PU, PUX, or adjacent link station entries. These entries cannot be mixed on the same line.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	176 (X'B0')
<b>Included Blocks:</b>	RPRE (RLNPRE).
<b>Located in:</b>	Found in the RDA and in the NCP and CA RDT segments.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	176	ISTRLN	LINE ENTRY
0	(0)	CHARACTER	96	RLNPRE	COMMON ENTRY PREFIX (SEE RPRE)
96	(60)	ADDRESS	4	RLNADR	FLAGS AND UCB(OS ONLY)/ PUB (VSE ONLY) ADDRESS
96	(60)	BITSTRING	1	RLNFLAG	FLAGS
		1... ....		RLNCDLNK	CDLINK ACTIVE ON DEACTIVATE COMMAND
		.1.. ....		RLNBCKUP	BACKUP LINK
		..1. ....		RLNBKDUP	CURRENTLY BEING BACKED UP
		...1 ....		RLNACLNK	ACTLNK ISSUED
		.... 1..		RLNCHAN	LINK IS A CHANNEL LINK
		.... .1..		RLNIDACT	CONFIG SERVICES WILL SKIP
		.... ..1.		RLNMIH	1=MIH CODED AS YES, 0=NO
		.... ...1		RLNVEC43	CONTROL VECTOR 43 SUPPORT 0= VECTOR 43 NOT SUPPORTED 1= VECTOR 43 IS SUPPORTED
97	(61)	ADDRESS	3	RLNUCBAD	POINTER TO UCB (OS ONLY)/ PUB (VSE ONLY)
100	(64)	ADDRESS	4	RLNENTAD	ZERO SINCE THERE ARE NOT INCLUDED BLOCKS
104	(68)	ADDRESS	4	RLNOWNRP	POINTER TO SSCP OWNERS
108	(6C)	SIGNED	2	RLNCTECL	COUNT OF PU ENTRIES FOR LINE
110	(6E)	SIGNED	2	RLNCTETR	COUNT OF LU ENTRIES FOR LINE
112	(70)	SIGNED	2	RLNCTEIN	COUNT OF INNODE ENTRIES FOR LINE
114	(72)	SIGNED	2	RLNCTECM	COUNT OF COMPONENT ENTRIES FOR LINE
116	(74)	SIGNED	2	RLNACTCT	COUNT OF COMPONENTS, CLUSTERS AND TERMINALS ON LINE
118	(76)	SIGNED	2	RLNAUTOA	AUTOCALL ADDRESS
120	(78)	CHARACTER	4	RLNCLSRC	LINE TRACE LOST RECORD COUNT
120	(78)	UNSIGNED	1	RLNLRC	LINE TRACE LOST RECORD COUNT
121	(79)	UNSIGNED	1	RLNACTRM	COUNT OF ACTIVE REMOTES FOR THIS TRUNK
122	(7A)	UNSIGNED	1	RLNGPTCS	GENERALIZED PIU TRACE CURRENT STATE
123	(7B)	UNSIGNED	1	*	NOT USED - AVAILABLE
124	(7C)	BITSTRING	1	RLNCURAM	CURRENT ANSWER MODE STATE(SEE FSM)
125	(7D)	BITSTRING	1	RLNDESAM	DESIRED ANSWER MODE STATE(SEE FSM)
126	(7E)	BITSTRING	1	*	FLAGS
		1... ....		*	RESERVED
		.1.. ....		*	RESERVED
		..11 1111		*	NOT USED - AVAILABLE
127	(7F)	BITSTRING	1	RLNRITYTO	RETRY TO LIMIT
128	(80)	BITSTRING	4	RLNBITAN	FLAG BITS
		11.. ....		RLNRACNT	NEXT TWO FIELDS
		1... ....		RLNRACAT	TERMINAL=INITIATED CALL
		.1.. ....		RLNRACAN	NCP-INITIATED CALL
		..1. ....		RLNGANSW	CHECKPOINT/RESTART GENERATED IN ANSWER MODE
		...1 ....		RLNRATRN	SDLC LINE
		.... 1..		RLNRAPOL	POLLED LINE
		.... .1..		RLNRAEP	TYPE IS EP
		.... ..1.		RLNRANCP	TYPE IS NCP
		.... ...1		RLNRAPEP	TYPE IS PEP
		1... ....		RLNRBUSE	EP/NCP USE 1=NCP
		.1.. ....		RLNSHM	X21 SHM LINE
		..1. ....		RLNTTV	THIS IS TERM TYPE VERIFICATION PORT
		...1 ....		RLNIDV	THIS IS AN ID VERIFIED PORT
		.... 1..		RLNMULTP	0=POINT TO POINT, 1= MULTI POINT
		.... .1..		RLNINUSE	LINK RESOURCES ALLOCATED TO PU

RDT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ..1.		RLNWANSW	WARM ANSWER MODE STATE ENABLED
		.... ...1		RLNENCAT	VM ONLY - DEVICE ATTACHED WITH CP ATTACH COMMAND
		111. ....		RLNCONCT	CONNECT OUTAVAILABLE
		1... ....		RLNMANUL	MANUAL DIAL
		.1.. ....		RLNAUTO	AUTO DIAL
		..1. ....		RLNDCALL	DIRECT CALL
		...1 ....		RLNDLGB	DACTLINK(GIVEBACK) SUPPORT INDICATOR 0 = DACTLINK(GIVEBACK) NOT SUPPORTED 1 = DACTLINK(GIVEBACK) SUPPORTED
		.... 1...		RLNLCONS	LINK CONNECTION STATUS INDICATOR 0 = LINK DOES NOT HAVE A SWITCHED CONNECTION 1 = LINK DOES HAVE A SWITCHED CONNECTION
		.... .1..		RLNPUNOW	PUSUB CODED ON ACQUIRE WITHOUT OWNER SPECIFIED
		.... ..1.		RLNACTLN	ACTIVATE LINK OK
		.... ...1		RLNSWNCP	SWITCH PEP LINE TO NCP OK
		111. ....		RLNLSCMD	LINE SCHEDULING COMMANDS ISSUED OK
		1... ....		RLNPRML	CHANGE NEGATIVE POLL RESPONSE LIMIT OK
		.1.. ....		RLNSESML	CHANGE SESSION LIMIT OK
		..1. ....		RLNSVSKP	CHANGE SERVICE SEEK PAUSE OK
		...1 ....		RLNSWEP	SWITCH TO EP
		.... 1...		*	RESERVED
		.... .1..		*	RESERVED
		.... ..1.		*	RESERVED
		.... ...1		*	NOT USED - AVAILABLE
132	(84)	UNSIGNED	1	RLNSIT	SIT TRACE CUR STATE FSM
133	(85)	UNSIGNED	1	RLNCTSES	COUNT OF CONCURRENT SESSIONS
134	(86)	UNSIGNED	1	RLNPOLMT	NEGATIVE POLL RESPONSE LIMIT
135	(87)	UNSIGNED	1	RLNPAUSE	POLL DELAY/PAUSE
136	(88)	CHARACTER	4	RLNCUA	CHANNEL UNIT ADDRESS
140	(8C)	CHARACTER	4	RLNDCUA	DEFAULT CHANNEL UNIT ADDRESS
144	(90)	BITSTRING	1	RLNPUBI	PUB INDEX (VSE ONLY)
145	(91)	UNSIGNED	1	RLNCTPCC	COUNT OF BUFFERS RECEIVING DATA
146	(92)	UNSIGNED	1	RLNACTTO	ACTIVITY TIMEOUT (ACTIVTO) USED WHEN SECONDARY FOR NONPRODUCTIVE RECEIVE TIMEOUT
147	(93)	UNSIGNED	1	RLNREPTO	REPLY TIMEOUT (REPLYTO) USED WHEN PRIMARY FOR IDLE DETECT TIMEOUT
148	(94)	UNSIGNED	1	RLNSERVL	SERVICE LIMIT (SERVLIM) USED FOR CONTACT POLL FREQUENCY
149	(95)	UNSIGNED	1	RLNRTYM	MAXIMUM NUMBER OF LINK LEVEL RETRIES
150	(96)	CHARACTER	2	RLNINBFR	INBOUND BUFFERS (INBFRS)
150	(96)	UNSIGNED	1	RLNINBN	NORMAL BUFFER ALLOCATION
151	(97)	UNSIGNED	1	RLNINBMX	MAXIMUM BUFFER ALLOCATION
152	(98)	UNSIGNED	1	RLNCURTR	CURRENT LINE TRACE STATE (SEE FSM)
153	(99)	UNSIGNED	1	RLNTGCS	TRANSMISSION GROUP TRACE CURRENT STATE (SEE FSM)
154	(9A)	UNSIGNED	2	RLNMXBNM	MAXBUFRTU NORMAL VAULE
156	(9C)	UNSIGNED	2	RLNMXBMX	MAXBUFRTU MAXIMUM VALUE
158	(9E)	BITSTRING	2	RLNLUBA	PUB INDEX (VSE ONLY)
160	(A0)	BITSTRING	1	RLNCHQI	CHANNEL QUEUE INDEX (VSE ONLY)
161	(A1)	UNSIGNED	1	*	RESERVED
162	(A2)	CHARACTER	2	*	RESERVED
164	(A4)	CHARACTER	2	*	RESERVED
166	(A6)	BITSTRING	1	*	RESERVED
167	(A7)	CHARACTER	9	*	NOT USED - AVAILABLE
176	(B0)	CHARACTER		RLNEND	END OF LINE ENTRY

## Constants

Len	Type	Value	Name	Description
1	HEX	01	RLNRCEDC	EBCDIC (CONSTANTS)
1	HEX	02	RLNRCUSA	USASCII
1	HEX	03	RLNRCBCD	BCD
1	HEX	04	RLNRCEBC	EBCD
1	HEX	05	RLNRCCOR	COR
1	HEX	06	RLNRCKAT	KATAKANA
1	HEX	08	RLNRCIT2	ITA2
1	HEX	09	RLNRCZS3	ZSC3
4	HEX	01000000	RLNADLRC	ADD TO RLNLRC
4	HEX	00FFFFFF	RLNMLRC	CLEAR RLNLRC
1	HEX	00	RLNRTY0	RETRYTO VALUE 0
1	HEX	0A	RLNRTY1	RETRYTO VALUE 1
1	HEX	14	RLNRTY3	RETRYTO VALUE 3
1	HEX	3C	RLNRTY6	RETRYTO VALUE 6
1	HEX	78	RLNRTY12	RETRYTO VALUE 12
1	HEX	B4	RLNRTY18	RETRYTO VALUE 18
1	HEX	F0	RLNRTY24	RETRYTO VALUE 24

RD1

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRLN	0		1	RLNLCONS	82	08	3
RLNACLNK	60	10	4	RLNLRC	78		3
RLNACTCT	74		2	RLNLSCMD	83	80	3
RLNACTLN	82	02	3	RLNLUBA	9E		2
RLNACTRM	79		3	RLNMANUL	82	80	4
RLNACTTO	92		2	RLNMIH	60	02	4
RLNADR	60		2	RLNMULTP	81	08	3
RLNAUTO	82	40	4	RLNMXBMX	9C		2
RLNAUTOA	76		2	RLNMXBNM	9A		2
RLNBCKUP	60	40	4	RLNPRLM	83	80	4
RLNBITAN	80		2	RLNOWNRP	68		2
RLNBKDUP	60		4	RLNPAUSE	87		2
RLNCDLNK	60	80	4	RLNPOLMT	86		2
RLNCHAN	60	08	4	RLNPRE	0		2
RLNCHQI	A0		2	RLNPUBI	90		2
RLNCONCT	82	80	3	RLNPUNOW	82	04	3
RLNCSLRC	78		2	RLNRACAN	80	40	4
RLNCTECL	6C		2	RLNRACAT	80	80	4
RLNCTECM	72		2	RLNRACNT	80	80	3
RLNCTEIN	70		2	RLNRAEP	80	04	3
RLNCTETR	6E		2	RLNRANCP	80	02	3
RLNCTPCC	91		2	RLNRAPEP	80	01	3
RLNCTSES	85		2	RLNRAPOL	80	08	3
RLNCUA	88		2	RLNRATR	80	10	3
RLNCURAM	7C		2	RLNRBUSE	81	80	3
RLNCURTR	98		2	RLNREPTO	93		2
RLNDCALL	82	20	4	RLNRTYM	95		2
RLNDCUA	8C		2	RLNRTYTO	7F		2
RLNDESAM	7D		2	RLNSERVL	94		2
RLNDLGB	82	10	3	RLNSESML	83	40	4
RLNENCAT	81	01	3	RLNSHM	81	40	3
RLNEND	B0		2	RLNSIT	84		2
RLNENTAD	64		2	RLNSVSKP	83	20	4
RLNFLAG	60		3	RLNSWEP	83	10	3
RLNGANSW	80	20	3	RLNSWNCP	82	01	3
RLNGPTCS	7A		3	RLNTGCS	99		2
RLNIDACT	60	04	4	RLNTTV	81	20	3
RLNIDV	81	10	3	RLNUCBAD	61		3
RLNINBFR	96		2	RLNVEC43	60	01	4
RLNINBMX	97		3	RLNWANSW	81	02	3
RLNINBN	96		3				
RLNINUSE	81	04	3				



### Resource Definition Table LAN Port Entry (RLPOR)

<b>Function:</b>	RLPOR provides a mapping of the port configuration in a token-ring LAN major node.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	208 (X'D0')
<b>Included Blocks:</b>	RDTE (RLPPRE)

RDT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	208	ISTRLPOR	
0	(0)	CHARACTER	160	RLPPRE	MAP COMMON HEADER PREFIX (SEE RDTE)
160	(A0)	CHARACTER	8	RLPNAME	PORT NAME PORT CHANNEL UNIT ADDRESSES
168	(A8)	BITSTRING	2	RLPCUAX	INTERRUPT
170	(AA)	BITSTRING	2	RLPCUAC	CONTROL
172	(AC)	BITSTRING	2	RLPCUAI	INBOUND
174	(AE)	BITSTRING	2	RLPCUAO	OUTBOUND
176	(B0)	UNSIGNED	2	RLPMXDAT	MAXIMUM LENGTH OF DATA
178	(B2)	UNSIGNED	2	RLPMXSTN	MAXIMUM NUMBER OF STATIONS
180	(B4)	CHARACTER	2	RLPCON	CONNECTION LDPU
180	(B4)	UNSIGNED	1	RLPCONT	TIMER
181	(B5)	UNSIGNED	1	RLPCONN	RETRY COUNTER
182	(B6)	CHARACTER	2	*	RESERVED
182	(B6)	UNSIGNED	1	*	RESERVED
183	(B7)	UNSIGNED	1	*	RESERVED
184	(B8)	CHARACTER	6	RLPMADDR	MEDIUM ACCESS ADDRESS
190	(BE)	BITSTRING	1	RLPSADDR	SERVICE ACCESS POINT ADDRESS
191	(BF)	CHARACTER	17	*	NOT USED - AVAILABLE
208	(D0)	CHARACTER		RLPEND	END OF LAN PORT ENTRY

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRLPOR	0		1
RLPCON	B4		2
RLPCONN	B5		3
RLPCONT	B4		3
RLPCUAC	AA		2
RLPCUAI	AC		2
RLPCUAO	AE		2
RLPCUAX	A8		2
RLPEND	D0		2
RLPMADDR	B8		2
RLPMXDAT	B0		2
RLPMXSTN	B2		2
RLPNAME	A0		2
RLPPRE	0		2
RLPSADDR	BE		2

## Resource Definition Table Local SNA Terminal Set Header Entry (RLS)

<b>Function:</b>	The RLS maps the header entry for the local SNA resource definition table segment.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	168 (X'A8')
<b>Pointed to by:</b>	RDENTAD (RDTE)
<b>Included Blocks:</b>	RDTE (RLSPRE)
<b>Located in:</b>	Found in the RDT and RNCA.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	168	ISTRLS	LOCAL SNA TERMINAL SET HEADER ENTRY
0	(0)	CHARACTER	160	RLSPRE	SEGMENT ENTRY PREFIX (SEE RDTE)
160	(A0)	SIGNED	2	RLSCTELU	COUNT OF LU ENTRIES IN THIS SEGMENT
162	(A2)	CHARACTER	6	*	NOT USED - AVAILABLE
168	(A8)	CHARACTER		RLSEND	END OF LOCAL SNA TERMINAL SET ENTRY

RDT

### Resource Definition Table Logical Unit Entry (RLU)

<b>Function:</b>	The RLU maps the VTAM resource definition table logical unit entry. It defines a particular logical unit.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	248 (X'F8')
<b>Included Blocks:</b>	RCPRE (RLUCRPR)
<b>Located in:</b>	Found in the RDT and RNCA. The RLU appears in the NCP, switched, local SNA, and local non-SNA RDT segments.

RDT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	248	ISTRLU	LOGICAL UNIT ENTRY
0	(0)	CHARACTER	200	RLUCRPR	ALLOCATION ENTRY PREFIX (SEE RCPRE)
200	(C8)	CHARACTER	1	RLUTYPE	LU TYPE
201	(C9)	UNSIGNED	1	RLULOCAD	LOCAL ADDRESS OF LU
202	(CA)	BITSTRING	1	RLUBITAN	FLAG BITS
		1... ..		RLUBATCH	1=BATCH(YES)
		.1. ....		RLUNDSSES	SPECIAL END SESSION
		..1. ....		RLUCDCTL	1=THE LU HAS A CROSS DOMAIN CONTROLLER
		...1 ....		RLUACTLU	1=ACTIVATE LOGICAL UNIT OK
		.... 1...		RLUCLNUP	1=CLEANUP REQUIRED
		.... .1..		RLULOCSE	1=TRANSLATE CHAR CODED MESSAGES TO LOWER CASE ON OUTPUT FROM SSCP TO LU
		.... ..1.		RLUOSAIP	1=OSA IS IN PROCESS
		.... ....1		RLUINDEP	AN INDEPENDENT LU
203	(CB)	UNSIGNED	1	RLUGPTCS	GPT TRACE CURRENT STATE
204	(CC)	SIGNED	4	RLUSEQNO	COUNTER OF SESSION SERVICES REQUESTS WHEN ACTLU OR DACTLU WAS SENT TO THE ASSOCIATED LU
208	(D0)	CHARACTER	8	RLUACTIM	ACTIVATE SSCP SESSION TIME STAMP
216	(D8)	UNSIGNED	1	RLUSAWCR	SESSION AWARENESS PROCESSING CORRELATOR
217	(D9)	BITSTRING	1	RLUBITFG	FLAG BITS
		1... ..		RLURNIP	1=RNAA IN PROGRESS
		.1. ....		RLURECTM	1=TERMINATE LAST RECEIVED
		..1. ....		RLULURSS	1=SESSION START RECEIVED
		...1 ....		RLUPNDRQ	1=SESSION AWAITING COMPLETION
		.... 1...		RLUMQFNA	1=FNA MAY BE REQUIRED WHEN SSCP TAKEOVER IS COMPLETE
		.... .1..		RLURQFNA	1=FNA IS REQUIRED FOR SLU ADDRESS WHEN TAKE-OVER IS COMPLETE
		.... ..1.		RLUACT	1=LU BEING ACTIVATED
		.... ....1		*	RESERVED
218	(DA)	UNSIGNED	2	*	RESERVED
220	(DC)	UNSIGNED	2	RLUSCB	NUMBER OF LU-LU SESSION CONTROL BLOCKS THAT SHOULD BE RESERVED BY THE NCP FOR THIS LU (RESSCB= )
222	(DE)	SIGNED	2	RLUTRELM	TRACE NETWORK ELEMENT ADDRESS
224	(E0)	CHARACTER	8	RLUPCID	FORMAT 4 PCID FOR SSCP-LU SESSION
232	(E8)	ADDRESS	4	RLUPHIB	POINTER TO THE PHANTOM SESSION INFORMATION BLOCK
236	(EC)	ADDRESS	4	RLURAQP	RESOURCE ADDRESS QUEUE POINTER
240	(F0)	ADDRESS	4	RLUPAQP	PLU ADDRESS QUEUE POINTER
244	(F4)	CHARACTER	4	*	NOT USED - AVAILABLE
248	(F8)	CHARACTER		RLUEND	END OF LOGICAL UNIT ENTRY

## Constants

Len	Type	Value	Name	Description
RLUTYPE - EQUATES FOR LU TYPE				
1	HEX	00	RLUTYP00	LU TYPE 0 - UNARCHITECTED FM PROTOCOL
1	HEX	01	RLUTYP01	LU TYPE 1 - SCS (STANDARD CHARACTER SET) DATA STREAM
1	HEX	02	RLUTYP02	LU TYPE 2 - KEYBOARD/DISPLAY 3270 DATA STREAM
1	HEX	03	RLUTYP03	LU TYPE 3 - PRINTER 3270 DATA STREAM
1	HEX	04	RLUTYP04	LU TYPE 4 - OPD (OFFICE PRODUCTS DIVISION) TERMINALS
1	HEX	05	RLUTYP05	LU TYPE 5 - RESERVED
1	HEX	06	RLUTYP06	LU TYPE 6 - ISC (INTER-SYSTEM COMMUNICATIONS) APPL/APPL
CONSTANT FOR RLUSCB				
2	DECIMAL	65535	RLUSCBMX	MAXIMUM VALUE FOR RLUSCB

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTR LU	0		1
RLUACT	D9	02	3
RLUACTIM	D0		2
RLUACTLU	CA	10	3
RLUBATCH	CA	80	3
RLUBITAN	CA		2
RLUBITFG	D9		2
RLUCDCTL	CA	20	3
RLUCLNUP	CA	08	3
RLUCRPR	0		2
RLUEND	F8		2
RLUGPTCS	CB		2
RLUINDEP	CA	01	3
RLULOCAD	C9		2
RLULOCSE	CA	04	3
RLULURSS	D9	20	3
RLUMQFNA	D9	08	3
RLUNDSSES	CA	40	3
RLUOSAIP	CA	02	3
RLUPAQP	F0		2
RLUPCID	E0		2
RLUPHIB	E8		2
RLUPNDRQ	D9	10	3
RLURAQP	EC		2
RLURECTM	D9	40	3
RLURNIP	D9	80	3
RLURQFNA	D9	04	3
RLUSAWCR	D8		2
RLUSCB	DC		2
RLUSEQNO	CC		2
RLUTRELM	DE		2
RLUTYPE	C8		2

## Packet RDTE Header Mapping (RPORT)

<b>Function:</b>	RPORT provides a temporary representation of the port configuration for SYSDEF for the X.25 packet switched interface.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	288 (X'120')

RDT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	288	ISTRPORT		
0	(0)	CHARACTER	160	RPORTPRE	THIS PREFIX WILL MAP BASIC HEADER INFORMATION - NAME OF THE DEFINITION DECK, THE TYPE OF DECK, ETC. (SEE RDTE)	
160	(A0)	CHARACTER	8	RPONAME	NAME OF THE PORT STATEMENT	
168	(A8)	CHARACTER	1	*	RESERVED	
169	(A9)	CHARACTER	3	RPOCCUA	CHANNEL UNIT ADDRESS FOR CONTROL CHANNEL PROGRAM	
172	(AC)	CHARACTER	1	*	RESERVED	
173	(AD)	CHARACTER	3	RPOBCUA	CHANNEL UNIT ADDRESS FOR BUFFER POOL CHANNEL PROGRAM	
176	(B0)	UNSIGNED	1	RPOMXOUT	MAXIMUM NUMBER OF OUTSTANDING I-FRAMES K	
177	(B1)	UNSIGNED	1	RPONETTP	NETWORK TYPE	
178	(B2)	UNSIGNED	1	RPONETLV	NETWORK LEVEL	
179	(B3)	UNSIGNED	1	RPOREPTO	INDICATES HOW LONG TO WAIT BEFORE BEGINNING LINK-LEVEL ERROR RECOVERY (IN TENTHS OF A SECOND)	
180	(B4)	UNSIGNED	1	RPORETRY	RETRY LIMIT	
181	(B5)	UNSIGNED	1	RPOPMOD	PACKET SEQUENCE NUMBER MODULES	
182	(B6)	UNSIGNED	1	RPOVCCNT	VCPARMS MACRO COUNTS	
183	(B7)	BITSTRING	1	RPOBITS		
		1... ..		RPOACCHG	ON - ACCEPT REVERSE CHARGE CALLS OFF - REJECT REVERSE CHARGE CALLS	
		.1.. ..		RPORVCHG	ON - MAKES REVERSE CHARGE CALLS OFF - CANNOT MAKE REVERSE CHARGE	
		..11 1111		*	NOT USED - AVAILABLE	
184	(B8)	CHARACTER	15	RPODIALN	CALLING ADDRESS OF THIS PORT	
199	(C7)	CHARACTER	3	RPOLIC	LOWEST CHANNEL FOR INCOMING CALLS	
202	(CA)	CHARACTER	3	RPOHIC	HIGHEST CHANNEL FOR INCOMING CALLS	
205	(CD)	CHARACTER	3	RPOLTC	LOWEST CHANNEL FOR TWO-WAY CALLS	
208	(D0)	CHARACTER	3	RPOHTC	HIGHEST CHANNEL FOR TWO-WAY CALLS	
211	(D3)	CHARACTER	3	RPOLOC	LOWEST CHANNEL FOR OUTGOING CALLS	
214	(D6)	CHARACTER	3	RPOHOC	HIGHEST CHANNEL FOR OUTGOING CALLS	
217	(D9)	UNSIGNED	1	*	RESERVED	
218	(DA)	CHARACTER	10	*	NOT USED - AVAILABLE	
228	(E4)	CHARACTER	60	RPOFLOWS	FLOW CONTROL PARAMETERS	
228	(E4)	UNSIGNED	2	RPOPLENG	STANDARD OR NON-STANDARD DEFAULT PACKET SIZE AS DEFINED BY PLENGTH ON PORT MACRO	
230	(E6)	UNSIGNED	1	RPOPWIND	STANDARD OR NON-STANDARD DEFAULT PACKET SIZE AS DEFINED BY PLENGTH ON PORT MACRO	
231	(E7)	UNSIGNED	1	RPOVCPPI	NUMBER OF ACTUAL VC PARAMETER DEFINITIONS FOR LC OR LC GROUP	
232	(E8)	CHARACTER	8	RPOVCPRM (7)	ARRAY OF UP TO SEVEN PARAMETERS, DEFINING X.25 OTHER THAN DEFAULT PACKET AND WINDOW SIZES AS SPECIFIED ON VCPARMS MACRO	
232	(E8)	UNSIGNED	2	RPOLC1	LOW LC FOR VC PARAMETER RANGE	
234	(EA)	UNSIGNED	2	RPOLC2	HIGH LC FOR VC PARAMETER RANGE	
236	(EC)	UNSIGNED	2	RPONPLEN	OTHER THAN DEFAULT PACKET SIZE AS DEFINED BY PLENGTH	
238	(EE)	UNSIGNED	1	RPONPWIND	OTHER THAN DEFAULT WINDOW SIZE AS DEFINED BY PWINDOW	
239	(EF)	UNSIGNED	1	RPOERR	ERROR IN SPECIFICATION	
288	(120)	CHARACTER		RPORTEND	END OF RPORT	

## Constants

Len	Type	Value	Name	Description
CONSTANTS FOR PLENGTH KEYWORD ON VCPARMS				
2	DECIMAL	16	RPOPL16	PLENGTH = 16
2	DECIMAL	32	RPOPL32	PLENGTH = 32
2	DECIMAL	64	RPOPL64	PLENGTH = 64
2	DECIMAL	128	RPOPL128	PLENGTH = 128
2	DECIMAL	256	RPOPL256	PLENGTH = 256
2	DECIMAL	512	RPOPL512	PLENGTH = 512
2	DECIMAL	1024	RPOPL024	PLENGTH = 1024
2	DECIMAL	2048	RPOPL048	PLENGTH = 2048
2	DECIMAL	4096	RPOPL096	PLENGTH = 4096
CONSTANTS FOR PMOD KEYWORD ON PORT				
1	DECIMAL	8	RPOPM8	PMOD = 8
1	DECIMAL	128	RPOPM128	PMOD = 128

RDT

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRPORT	0		1
RPOACCHG	B7	80	3
RPOBCUA	AD		2
RPOBITS	B7		2
RPOCCUA	A9		2
RPODIALN	B8		2
RPOERR	EF		4
RPOFLOWS	E4		2
RPOHIC	CA		2
RPOHOC	D6		2
RPOHTC	D0		2
RPOLC1	E8		4
RPOLC2	EA		4
RPOLIC	C7		2
RPOLOC	D3		2
RPOLTC	CD		2
RPOMXOUT	B0		2
RPONAME	A0		2
RPONETLV	B2		2
RPONETTP	B1		2
RPONPLEN	EC		4
RPONPWIN	EE		4
RPOPLENG	E4		3
RPOPMOD	B5		2
RPOPWIND	E6		3
RPOREPTO	B3		2
RPORETRY	B4		2
RPORTEND	120		2
RPORTPRE	0		2
RPORVCHG	B7	40	3
RPOVCCNT	B6		2
RPOVCPI	E7		3
RPOVCPRM	E8		3

## Resource Definition Table Entry Prefix (RPRE)

<b>Function:</b>	The RPRE maps the common prefix for resource definition table entries.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	96 (X'60')
<b>Located in:</b>	Maps the beginning of all RDT entries.
<b>Pointed to by:</b>	Any pointer to an RDT entry. The following fields point to RDT entries: ACDRDTE (ACDEB) - application CONHC DRM (CONFT) - host CDRM CONDCDRM (CONFT) - dummy host CDRM MLCSKEL (MLCA) - skeleton RDT NCBRDTE (NCB) NCSPLRPT (NCSPL) - ID=nodename NCSPLLPT (NCSPL) - LOGON/LOGOFF=nodename NCSPLRAD (NCSPL) - allocate/deallocate OCWLRDTE QABFIRST (QAB) - first segment on queue QABLAST (QAB) - last segment on queue RPXPUPTR (RPX) - associated PU RRNLASTE (RRN) - last entry in segment SIBRRSRC (SIB)
<b>Included Blocks:</b>	LOK (RPRRLOCK), DEVCH (RPRDEVCH), SRT (RPRSRTHD)

RDT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	96	ISTRPRE	COMMON PREFIX
0	(0)	CHARACTER	13	RPRSRTHD	RDTE SRT PREFIX (SEE SRT)
0	(0)	CHARACTER	8	RPRNAME	RDTE NAME
13	(D)	BITSTRING	1	RPRENTRY	ENTRY TYPE
14	(E)	BITSTRING	1	RPRHD TYP	HEADER TYPE
15	(F)	BITSTRING	1	*	RESERVED
16	(10)	UNSIGNED	1	RPRFLGY	FLAG BYTE
		1... ..		RPRFILTR	0 = SESSION SHOULD NOT BE FILTERED 1 = SESSION SHOULD BE FILTERED
		.1.. ..		RPRFILTD	0 = FILTER UTILITY HAS NOT BEEN CALLED 1 = FILTER UTILITY CALLED
		..1. ....		RPRENTSD	1 = SPECIFIC TRACE INDICATED
		...1 ....		RPRENTPD	1 = GENERAL TRACE
		.... 1111		*	NOT USED - AVAILABLE
17	(11)	UNSIGNED	1	RPRFLGX	FLAG BYTE
		11.. ....		RPRLKDAC	11 = LINK UNDER DEACTIVATION 10 = LINK USED FOR SUBNODE DEACTIVATION 00 = LINK NOT BEING DEACTIVATED
		..1. ....		RPRDRMOV	A DR-MOVED PU
		...1 ....		RPRENRIO	VM ONLY, DEVICE IS CAPABLE OF REAL IO
		.... 1...		RPRRRTRY	DUPLICATE RESOURCE RNAA RETRY INDICATOR 0 - RNAA RETRY NOT IN PROGRESS 1 - RNAA RETRY IN PROGRESS
		.... .1..		RPRSAWSS	SESSION START SAW EVENT REPORTED
		.... .1.		RPRDEACT	DEACTIVATE STATUS BIT 0 - DACTLU OR DACTPU NOT SENT 1 - DACTLU OR DACTPU SENT
		.... ...1		*	NOT USED - AVAILABLE
18	(12)	CHARACTER	6	RPRDAF	NETWORK ADDRESS
18	(12)	SIGNED	4	RPRDAFSU	SUBAREA ADDRESS
22	(16)	SIGNED	2	RPRDAFEL	ELEMENT ADDRESS
24	(18)	UNSIGNED	2	RPRINDEX	INDEX USED FOR CONFIGURATION RESTART
26	(1A)	UNSIGNED	2	RPRREQCT	COUNT OF OUTSTANDING REQUESTS FROM AN RDTE
28	(1C)	ADDRESS	4	RPRENTAD	POINTER TO THE FIRST LEVEL ENTRY DEFINITION AFTER THIS PREFIX
32	(20)	ADDRESS	4	RPRALPAD	POINTER TO THE ALLOCATION ENTRY PREFIX OR ZERO
36	(24)	SIGNED	4	RPRELEN	CURRENT ENTRY LENGTH
40	(28)	SIGNED	4	RPRPELEN	PREVIOUS ENTRY LENGTH

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
44	(2C)	ADDRESS	4	RPRNCBA	POINTER TO ASSOCIATED NCB FOR OPENED NODES
48	(30)	ADDRESS	4	RPRNSNEA	NEXT SCHEDULABLE NODE ENTRY ADDRESS
52	(34)	ADDRESS	4	RPRNTNQP	POINTER TO FIRST TERMINATION NOTIFICATION TABLE QUEUE ENTRY
56	(38)	ADDRESS	4	RPRCMDWE	POINTER TO COMMAND WORK ELEMENT
60	(3C)	CHARACTER	5	RPRSTATE	STATE BYTES
60	(3C)	SIGNED	2	RPRCURST	CURRENT STATE BYTES (SEE FSM)
60	(3C)	UNSIGNED	1	RPRCURS1	1ST CURRENT STATE BYTE
62	(3E)	SIGNED	2	RPRDESST	DESIRED STATE BYTES
62	(3E)	UNSIGNED	1	RPRDESS1	1ST DESIRED STATE BYTE
64	(40)	UNSIGNED	1	RPRDEFLV	DEACTIVATE FLAVOR BYTE
65	(41)	BITSTRING	5	RPRBITAN	FLAG BITS
		1... ..		RPRINV	INVALID RESOURCE
		.1. ....		RPRENTBF	BUFFER TRACE THIS NODE
		..1. ....		RPRENTIO	I/O TRACE IS ACTIVE
		...1 ....		RPRLTASN	LINE TRACE IS ACTIVE
		.... 1...		RPRENTED	LAST ENTRY IN RDT SEGMENT
		.... .1..		RPRLIVE	RESOURCE IS LIVE
		.... ..1.		RPRENTVH	ENTRY IS A THE VTAM HEADER
		.... ...1		RPRAPN	SUPPORTS LU TO LU SESSIONS
		1... ..		RPRRINOP	RU INOP RECEIVED
		.1. ....		RPRONLIN	NODE VARIED ONLINE
		..1. ....		RPRHLACT	HIGHER LEVEL NODE IS BEING ACTIVATED
		...1 ....		RPRHLVDP	HIGHER LEVEL NODE IS BEING INACTIVATED
		.... 1...		*	NOT USED - AVAILABLE
		.... .1..		RPRINTIO	INTERNAL I/O
		.... ..1.		RPRACTP	ACTIVATE IN PROGRESS
		.... ...1		RPRCONP	CONTACT IN PROGRESS
		1... ..		RPRCONLD	CONTACTED-LOADED HAS BEEN RECEIVED
		.1. ....		RPRCLNUP	CLEANUP, TAKEDOWN/DEACTIVATE IS IN PROGRESS (FOR CDRM ENTRIES ONLY)
		..1. ....		RPRNOSNA	NON-SNA DEVICE
		...1 ....		RPRNOUSE	RDT ENTRY IS IN THE 'NOT US' PORTION OF THE MULTI-CHANNEL
		.... 1...		RPRDOM	LU IS IN THIS DOMAIN
		.... .1..		RPRNOSRT	SRT ADD FAILED FOR A DUPLICATE NAME
		.... ..1.		RPRCRCPT	CHECKPOINT IS ACTIVE
		.... ...1		RPRDINUS	THIS NODE HAS BEEN ACTIVATED AT LEAST ONCE DURING VTAM PROCESSING
		1... ..		RPRDINOP	INOPERATIVE NODE
		.1. ....		RPRENTVT	ENTRY IS VTAM
		..1. ....		RPRRBISA	INITIAL STATUS ACTIVE
		...1 ....		RPRGIST	INITIAL STATUS FROM SYSTEM DEFINITION
		.... 1...		RPRSHAD	SRTADDED IN THE SHADOW NAME SET
		.... .1..		RPRCLVDP	THIS ENTRY HAS BEEN CLOSED
		.... ..1.		RPRINTST	DEVICE IN TEST MODE
		.... ...1		RPRFADD	FMCBADD DONE (LU,PU)
		1... ..		RPRDRADD	DR ADDED NODE
		.1. ....		RPRRNAA	RNAA REQUIRED FOR THIS NODE
		..1. ....		RPRNEO	ON FOR NEO RESOURCES
		.... 1...		RPRIMPAC	IMPLICITLY ACTIVATED
		.... 1...		RPRIMPCH	IMPLICIT STATUS CHANGED - CHKPT NEEDED
		.... .1..		RPRDUMMY	DUMMY ENTRY FOR RIN, NCP OR RLU
		.... ..1.		RPRENTVA	ENTRY IS A VTAM HEADER
		.... ...1		RPRDAFAD	RDTADDED (RPRDAF) BY CONFIGURATION SERVICES
70	(46)	BITSTRING	1	RPRFLAGS	FLAGS
		1... ..		RPRNOACT	VARY ACTIVATE COMMAND NOT ALLOWED FOR THIS NODE
		.1. ....		RPRDYNAM	RDTE IS DYNAMIC-BUILT AT ACTIVATION - FREED AT DEACTIVATION
		.1. ....		RPRGBSTG	RDTE STORAGE WAS OBTAINED VIA GETBLK
		..1. ....		RPRBHBLK	BHSASSC NOT CODED ON SYSCNTRL MACRO
		...1 ....		RPRENTEV	EVERY OPTION ON I/O TRACE IF EVERY IS SPECIFIED
		.... 1...		RPRSRTCN	SRTADDED BY SSCP CONFIGURATION SERVICES TO ANOTHER HOSTS CROSS- NETWORK NAME SPACE
		.... .1..		RPRDAFCN	RDTADDED BY SSCP CONFIGURATION SERVICES TO ANOTHER HOSTS CROSS- NETWORK ADDRESS SPACE





Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ..1. .... ..1		*	RESERVED
				RPRENA	ENA CAPABILITY INDICATOR, '1'- INDICATES ENA CAPABLE, '0'- INDICATES NOT ENA
71	(47)	CHARACTER	9	RPRCONID	CONSOLE ID OR PROGRAM OPERATOR HEADER AND POINTER TO THE ACDEB
80	(50)	CHARACTER	8	RPRDEVCH	DEVICE CHARACTERISTICS (SEE DEVCH)
88	(58)	CHARACTER	8	*	RESERVED
88	(58)	CHARACTER	4	*	RESERVED
92	(5C)	CHARACTER	4	*	RESERVED
96	(60)	CHARACTER		RPREND	END OF ISTRPRE

### Constants

Len	Type	Value	Name	Description
RPRENTRY - FOLLOWING EQUATES ARE FOR THE VARIOUS ENTRY TYPES				
1	HEX	01	RPRENTRN	ENTRY IS A PU TYPE 4/5
1	HEX	02	RPRENTAH	ENTRY IS AN APPLICATION HEADER
1	HEX	03	RPRENTLH	ENTRY IS A LOCAL HEADER
1	HEX	04	RPRENTSW	ENTRY IS SWITCHED TERMINAL SET HEADER
1	HEX	05	RPRENTLS	ENTRY IS A LOCAL SNA TERMINAL SET HEADER
1	HEX	06	RPRENTRH	ENTRY IS A CROSS DOMAIN RESOURCE MANAGER HEADER
1	HEX	07	RPRENTRS	ENTRY IS A CROSS DOMAIN RESOURCE HEADER
1	HEX	08	RPRENTIA	ENTRY IS AN INTEGRATED COMMUNICATIONS ADAPTER HEADER
1	HEX	09	RPRENTDU	FORMATTING DUMMY ENTRY
1	HEX	0B	RPRENTLA	ENTRY IS A LAN HEADER
1	HEX	0C	RPRENTPK	ENTRY IS A PACKET HEADER
1	HEX	11	RPRENTRM	ENTRY IS A CROSS DOMAIN RESOURCE MANAGER (CDRM)
1	HEX	30	RPRENTGP	ENTRY IS A GROUP
1	HEX	50	RPRENTLN	ENTRY IS A LINE
1	HEX	51	RPRENTDA	ENTRY IS A DIRECT ATTACHMENT NODE
1	HEX	55	RPRENTAP	ENTRY IS AN APPLICATION
1	HEX	71	RPRENTCC	ENTRY IS A PHYSICAL UNIT
1	HEX	72	RPRENTPX	ENTRY IS A SKELETAL PHYSICAL UNIT (PUX)
1	HEX	81	RPRENTLU	ENTRY IS A LOGICAL UNIT
1	HEX	82	RPRENTIN	ENTRY IS AN INTERMEDIATE NODE
1	HEX	83	RPRENTRC	ENTRY IS A CROSS DOMAIN RESOURCE
4	CHARACTER	0702	RPRLVL72	NCP LEVEL FOR RIN OR RRN
4	CHARACTER	0800	RPRLVL80	LEVEL INDICATOR FOR NCP8.0

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRPRE	0		1	RPRDAFEL	16		3
RPRACTP	42	02	3	RPRDAFSU	12		3
RPRALPAD	20		2	RPRDEACT	11	02	3
RPRAPDN	41	01	3	RPRDEFLV	40		3
RPRBHLK	46	20	3	RPRDESS1	3E		3
RPRBITAN	41		2	RPRDESS2	3E		4
RPRCLNUP	43	40	3	RPRDEVCH	50		2
RPRCLVPD	44	04	3	RPRDINOP	44	80	3
RPRCMDWE	38		2	RPRDINUS	43	01	3
RPRCONID	47		2	RPRDOM	43	08	3
RPRCONLD	43	80	3	RPRDRADD	45	80	3
RPRCONP	42	01	3	RPRDRMOV	11	20	3
RPRCRCPT	43	02	3	RPRDUMMY	45	04	3
RPRCURST	3C		3	RPRDYNAM	46	40	3
RPRCURS1	3C		4	RPRELEN	24		2
RPRDAF	12		2	RPRENA	46	01	3
RPRDAFAD	45	01	3	RPREND	60		2
RPRDAFCN	46	04	3	RPRENRIO	11	10	3

Name	Hex Offset	Hex Value	Level
RPRENTAD	1C		2
RPRENTBF	41	40	3
RPRENTED	41	08	3
RPRENTEV	46	10	3
RPRENTIO	41	20	3
RPRENTPD	10	10	3
RPRENTRY	D		2
RPRENTSD	10	20	3
RPRENTVA	45	02	3
RPRENTVH	41	02	3
RPRENTVT	44	40	3
RPRFADD	44	01	3
RPRFILTD	10	40	3
RPRFILTR	10	80	3
RPRFLAGS	46		2
RPRFLGX	11		2
RPRFLGY	10		2
RPRGBSTG	46	40	4
RPRGIST	44	10	3
RPRHDTYP	E		2
RPRHLACT	42	20	3
RPRHLVPD	42	10	3
RPRIMPAC	45	10	3
RPRIMPCH	45	08	3
RPRINDEX	18		2
RPRINTIO	42	04	3
RPRINTST	44	02	3
RPRINV	41	80	3
RPRLIVE	41	04	3
RPRDKDAC	11	80	3
RPRLTASN	41	10	3
RPRNAME	0		3
RPRNCBA	2C		2
RPRNEO	45	20	3
RPRNOACT	46	80	3
RPRNOSNA	43	20	3
RPRNOSRT	43	04	3
RPRNOUSE	43	10	3
RPRNSNEA	30		2
RPRONLIN	42	40	3
RPRPELEN	28		2
RPRRBISA	44	20	3
RPRREQCT	1A		2
RPRRINOP	42	80	3
RPRRNAA	45	40	3
RPRRRTRY	11	08	3
RPRSAWSS	11	04	3
RPRSHAD	44	08	3
RPRSRTCN	46	08	3
RPRSRTHD	0		2
RPRSTATE	3C		2
RPRTNTQP	34		2

RDT

## Common Physical Unit Prefix (RPU)

<b>Function:</b>	The RPU is the prefix for the adjacent link station and PU RDT segments.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	168 (X'A8')
<b>Included Blocks:</b>	RPRE (RPUPRE)
<b>Located in:</b>	Found in the RCC and RIN.

RDT

## Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	168	ISTRPU	COMMON PHYSICAL UNIT PREFIX
0	(0)	CHARACTER	96	RPUPRE	COMMON PREFIX (SEE RPRE)
96	(60)	CHARACTER	1	RPUTYPE	PU TYPE
97	(61)	UNSIGNED	1	RPUADDR	STATION ADDRESS
98	(62)	UNSIGNED	1	RPURETYM	MAXIMUM NUMBER OF FIRST LEVEL RETRIES
99	(63)	BITSTRING	3	RPUFLAGS	FLAGS
		1... ..		RPUDATMD	DATMODE 0= HALF 1= FULL
		.1... ..		RPULAN	LAN EXTENSION
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1...		*	RESERVED
		.... .1..		*	RESERVED
		.... ..1.		*	RESERVED
		.... ...1		*	RESERVED
		1... ..		*	RESERVED
		.1... ..		*	RESERVED
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1...		*	RESERVED
		.... .1..		*	RESERVED
		.... ..11		*	RESERVED
		1... ..		*	RESERVED
		.111 1111		*	NOT USED - AVAILABLE
102	(66)	UNSIGNED	2	RPUEXTOF	EXTENSION OFFSET
104	(68)	UNSIGNED	2	RPUMXDAT	MAXIMUM DATA SIZE
106	(6A)	UNSIGNED	1	RPUMXOUT	MAXIMUM NUMBER OF PIUS
107	(6B)	UNSIGNED	1	RPUPASSL	MAXIMUM NUMBER OF CONTIGUOUS PIUS
108	(6C)	CHARACTER	8	RPUSTAID	64 BIT PU STATION ID
108	(6C)	BITSTRING	2	RPUIDPA1	FILLER OF 2 BYTES OF 0
110	(6E)	BITSTRING	6	RPUID48	
110	(6E)	BITSTRING	1	RPUIDPUT	PU TYPE
111	(6F)	BITSTRING	1	RPUIDPA2	FILLER OF 1 BYTE OF 0
112	(70)	CHARACTER	4	RPUIDNOD	NODE IDENTIFIER
112	(70)	BITSTRING	1	RPUIDBLK	ID BLOCK VALUE
113	(71)	BITSTRING	2	RPUIDNUM	ID NUMBER VALUE
116	(74)	CHARACTER	8	*	RESERVED
124	(7C)	ADDRESS	4	RPUEXTAD	POINTER TO THE FIRST LEVEL ENTRY DEFINITION OF THE RCC OR RIN ENTRY
128	(80)	CHARACTER	8	RPUACTIM	ACTIVATE SSCP SESSION TIME STAMP
136	(88)	ADDRESS	4	*	RESERVED
140	(8C)	ADDRESS	4	*	RESERVED
144	(90)	SIGNED	2	*	RESERVED
146	(92)	SIGNED	2	*	RESERVED
148	(94)	SIGNED	4	*	RESERVED
152	(98)	UNSIGNED	2	*	RESERVED
154	(9A)	UNSIGNED	2	*	RESERVED
156	(9C)	UNSIGNED	2	*	RESERVED
158	(9E)	UNSIGNED	2	*	RESERVED
160	(A0)	CHARACTER	1	*	RESERVED
161	(A1)	CHARACTER	1	*	RESERVED
162	(A2)	CHARACTER	6	*	NOT USED - AVAILABLE
168	(A8)	CHARACTER		RPUEND	END OF COMMON PHYSICAL UNIT

## Constants

Len	Type	Value	Name	Description
RPUTYPE - PU TYPE CODES				
1	HEX	01	RPUPU01	PUTYPE 1 - SNA TERMINAL
1	HEX	02	RPUPU02	PUTYPE 2 - SNA CLUSTER CONTROLLER
1	HEX	21	RPUPU21	PUTYPE 2.1 NODE
1	HEX	03	RPUPU03	PUTYPE 3 - RESERVED
1	HEX	04	RPUPU04	PUTYPE 4 - SNA COMMUNICATIONS CONTROLLER
1	HEX	05	RPUPU05	PUTYPE 5 - SNA HOST

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRPU	0		1
RPUACTIM	80		2
RPUADDR	61		2
RPUDATMD	63	80	3
RPUEND	A8		2
RPUENTAD	7C		2
RPUEXTOF	66		2
RPUFLAGS	63		2
RPUIDBLK	70		5
RPUIDNOD	70		4
RPUIDNUM	71		5
RPUIDPA1	6C		3
RPUIDPA2	6F		4
RPUIDPUT	6E		4
RPUID48	6E		3
RPULAN	63	40	3
RPUMXDAT	68		2
RPUMXOUT	6A		2
RPUPASSL	6B		2
RPUPRE	0		2
RPURETYM	62		2
RPUSTAID	6C		2
RPUTYPE	60		2

RDT

### Resource Definition Table Physical Unit Skeletal Entry (RPX)

<b>Function:</b>	The RPX maps a skeletal entry for a physical unit in the VTAM resource definition table. It represents a port on a switched SDLC line and defines the network address of a switched PU. When a switched connection is made between VTAM and the PU, the PUX is associated with a PU entry in the switched SNA major node.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	104 (X'68')
<b>Included Blocks:</b>	RPRE (RPXPRE)
<b>Located in:</b>	Found in the RDT and RNCA. The RPX appears in the NCP RDT segment.

RDT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	104	ISTRPX	SKELETON PU ENTRY
0	(0)	CHARACTER	96	RPXPRE	COMMON ENTRY PREFIX (SEE RPRE)
96	(60)	ADDRESS	4	RPXPUPTR	POINTER TO ASSOCIATED PU RDTE
100	(64)	UNSIGNED	1	RPXMAXLU	MAXIMUM NUMBER OF LOGICAL UNITS FOR THIS PHYSICAL UNIT
101	(65)	CHARACTER	3	*	NOT USED - AVAILABLE
104	(68)	CHARACTER		RPXEND	END OF SKELETON PU ENTRY

## Resource Definition Table NCP Entry (RRN)

<b>Function:</b>	The RRN maps the VTAM NCP RDT entry. It represents an NCP.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	408 (X'198')
<b>Pointed to by:</b>	RDTE (RDTE) QABFIRST (QAB) - first segment on RDT QAB QABLAST (QAB) - last segment on RDT QAB RDTFORW (RDTE) - next segment RDTBACK (RDTE) - previous segment RINNCPT (RIN)
<b>Included Blocks:</b>	RDTE (RRNPRE)
<b>Located in:</b>	Found in the RDT and RNCA.

RDT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	408	ISTRN	37XX ENTRY
0	(0)	CHARACTER	160	RRNPRE	SEGMENT ENTRY PREFIX
160	(A0)	ADDRESS	4	RRNADR	FLAGS AND UCB/PUB ADDRESS
160	(A0)	BITSTRING	1	RRNFLAG	FLAGS
		1... ....		RRNLCSIP	NODE BEING ACTIVATED
		.1.. ....		RRNLCDIE	HIGHER NODE NOT SUCCESSFULLY ACTIVATED
		..1. ....		RRNRIMIP	RELEASE IMMEDIATE IN PROGRESS
		...1 ....		RRNLDET	LOAD DETERMINATION AT ACTIVATION TIME INCOMPLETE
		.... 1..		RRNVFYLM	VFYLM INDICATOR 1=YES
		.... .1..		RRNCHCON	UNCONDITIONAL PERFORM CHANNEL CONTACT
		.... ..1.		RRNACBAQ	ACTIVATED BEFORE ACQUIRED
		.... ...1		RRNRNAME	RNAME HAS BEEN CODED
161	(A1)	ADDRESS	3	RRNUCBAD	UCB/PUB ADDRESS
161	(A1)	BITSTRING	1	RRNCHQI	CHANNEL QUEUE INDEX
162	(A2)	ADDRESS	2	RRNLUBA	PUB INDEX
164	(A4)	ADDRESS	4	RRNGRPA	POINTER TO FIRST GROUP ENTRY
168	(A8)	ADDRESS	4	RRNRINQP	POINTER TO RIN QUEUE
172	(AC)	ADDRESS	4	RRNBHSET	POINTER TO TABLE OF BHSET NAMES
176	(B0)	BITSTRING	4	*	FLAGS
		1... ....		RRNRTYPE	1 = NOT A 3705
		.1.. ....		*	RESERVED
		..1. ....		*	RESERVED
		...1 1111		*	NOT USED - AVAILABLE
177	(B1)	BITSTRING	1	*	NOT USED - AVAILABLE
178	(B2)	BITSTRING	1	*	NOT USED - AVAILABLE
179	(B3)	BITSTRING	1	*	NOT USED - AVAILABLE
180	(B4)	ADDRESS	4	RRNMSIZE	MAXIMUM SIZE OF SEND
184	(B8)	ADDRESS	4	RRNRPLPT	C/R POINTER TO RPL
188	(BC)	ADDRESS	4	RRNNCSPL	POINTER TO NCSPL
192	(C0)	ADDRESS	4	RRNLASTE	POINTER TO LAST ENTRY IN RN SEGMENT
196	(C4)	BITSTRING	1	RRNESACP	ESA CAPABILITIES
		1... ....		RRNESA	ESA INDICATOR 0 = ESA NOT SUPPORTED 1 = ESA SUPPORTED
		.111 ....		*	RESERVED
		.... 1111		RRNSALMT	SUBAREA ADDRESS LIMIT FOR THIS NCP
197	(C5)	UNSIGNED	1	*	RESERVED
198	(C6)	UNSIGNED	2	RRNMWRDT	DELAY TIME VALUE
200	(C8)	CHARACTER	8	RRNCDMP	DDNAME OF CSP DUMP DATA SET
208	(D0)	CHARACTER	8	RRNMDMP	DDNAME OF MOSS DUMP DATA SET
216	(D8)	ADDRESS	2	RRNEPADR	EP SUBCHANNEL ADDRESS
218	(DA)	SIGNED	2	RRNNODCT	NON-SNA NODE COUNT
220	(DC)	CHARACTER	2	RRNHPRE	HOST PREFIX INFORMATION
220	(DC)	UNSIGNED	1	RRNHLENH	LENGTH OF HOST HEADER PREFIX
221	(DD)	UNSIGNED	1	RRNHLENT	LENGTH OF HOST TEXT PREFIX
222	(DE)	SIGNED	2	RRNHBUFS	SIZE OF BUFFER UNITS FOR HOST

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
224	(E0)	BITSTRING	3	RRNBITAN	FLAG BITS
		1.. ....		RRNRASHT	AUTO NETWORK SHUTDOWN
		.1.. ....		RRNRAIPL	AUTO IPL ON RN FAILURE
		..1. ....		RRNRADMP	AUTO DUMP ON RN FAILURE
		...1 ....		RRNRASYN	C/R AUTOMATICALLY RESYNCHRONIZED IF ALREADY LOADED NCP
		.... 1..		RRNRAOLT	ON-LINE TERMINAL TEST
		.... .1..		RRNRANCP	GENERATION TYPE NCP
		.... ..1.		RRNRAPEP	GENERATION TYPE PEP
		.... ...1		RRNRSYN	RESYNCH FOR V ACT,WARM
		1.. ....		RRNRBREM	REMOTE RN FLAG
		.1.. ....		RRNRBCL	LOOSELY COUPLED CHANNEL
		..1. ....		RRNRBCT	TIGHTLY COUPLED CHANNEL
		...1 ....		RRNRBSEC	SECONDARY CHANNEL EXISTS
		.... 1..		RRNRBCT1	1=PRIMARY CHANNEL ADAPTER TYPE IS TYPE2 OR TYPE3 0=PRIMARY CHANNEL ADAPTER TYPE IS TYPE1 OR TYPE4
		.... .1..		RRNRBCT2	1=SECONDARY CHANNEL ADAPTER TYPE IS TYPE2 OR TYPE3 0=SECONDARY CHANNEL ADAPTER IS TYPE1 OR TYPE4
		.... ..1.		RRNRBBUP	INITIAL TEST IS TO BE EXERCISED FOR THIS 3704/3705 DURING IPL
		.... ...1		RRNREMPO	REMOTE POWER OFF
		1.. ....		RRNACQRD	IF 3704/3705 HEADER, 3704/3705 ACQUIRED IF NOT HEADER, RDTE IS IN ACQUIRED PORTION OF N-TAIL
		.1.. ....		RRNALLOC	DEVICE HAS BEEN ALLOCATED
		..1. ....		RRNRBMDL	1=3704/3705 IS A 3705 0=3704/3705 IS A 3704
		...1 ....		RRNL0DYS	LOAD YES ON ACT COMMAND
		.... 1..		RRNL0DNO	LOAD NO ON ACT COMMAND
		.... .1..		RRNAMLDA	RNAME LIST DYNAMICALLY ALLOCATED
		.... ..1.		RRNGWCAP	THE SSCP-NCP SESSION EXISTS FOR THIS GATEWAY CAPABLE NCP
		.... ...1		RRNGGWS	GAINED GATEWAY NODE AMRU SENT
227	(E3)	CHARACTER	4	RRNLVL	NCP RELEASE/MODIFICATION LEVEL
227	(E3)	CHARACTER	2	RRNRELL	NCP RELEASE LEVEL
229	(E5)	CHARACTER	2	RRNMODL	NCP MODIFICATION LEVEL
231	(E7)	CHARACTER	2	RRNDELAY	INITIAL VALUE FROM DELAY
233	(E9)	CHARACTER	6	RRNCPUB	SYMBOLIC UNIT NAME OF NCP DATASET
239	(EF)	UNSIGNED	1	RRNCTPCC	COUNT OF BUFFERS RECEIVING PCCU DATA
240	(F0)	CHARACTER	7	RRNCPNMI	NAME OF NCP LOAD MODULE (7 CHAR MAX) THIS IS NOT THE NCP NAME!
247	(F7)	BITSTRING	1	RRNDSTAT	DUMP STATUS FOR DISPLAY
		11.. ....		RRNDYFSM	DYNA DUMP FSM
		..11 ....		RRNMOFSM	MOSS DUMP FSM
		.... 11..		RRNCSFSM	CSP DUMP FSM
		.... ..11		RRNTDFSM	TRANSFER DUMP FSM
248	(F8)	CHARACTER	4	RRNRDCUA	DEFAULT CHANNEL UNIT ADDRESS
252	(FC)	CHARACTER	4	RRNRNCUA	ACTUAL CHANNEL UNIT ADDRESS
256	(100)	UNSIGNED	1	RRNDEFLV	RELEASE 3704/3705 MULTI-CHANNEL
257	(101)	UNSIGNED	1	RRNINBFR	INPUT BUFFER SIZE NUMBER OF BUFFERS INITIALLY ALLOCATED BY NCP TO RECEIVE DATA FROM HOST
258	(102)	CHARACTER	1	*	FLAG BITS
		1.. ....		RRNT21NS	T2.1 NODE AND EXTENDED BIND SUPPORT INDICATOR 0= T2.1 NODES AND EXTENDED BIND NOT SUPPORTED 1= T2.1 NODES AND EXTENDED BIND SUPPORTED
		.1.. ....		RRNSSC	SWITCHED SESSION CONTINUATION SUPPORT INDICATOR 0 = NON-DISRUPTIVE TAKEOVER OF SESSIONS ON SWITCHED LINKS NOT SUPPORTED 1 = NON-DISRUPTIVE TAKEOVER OF SESSIONS ON SWITCHED LINKS SUPPORTED
		..1. ....		RRNMVPUS	MOVE PU SUPPORT INDICATOR 0 = MOVE PU NOT SUPPORTED 1 = MOVE PU SUPPORTED
		...1 ....		RRNCPPS	DYN PATH SUPPORT INDICATOR 0 = DYN PATH NOT SUPPORTED 1 = DYN PATH SUPPORTED
		.... 1..		RRNMLM	MULTIPLE LOAD MODULE SUPPORT INDICATOR 0 = MLM NOT SUPPORTED 1 = MLM SUPPORTED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... .1..		RRNLMFLG	LOAD MODULE CORRELATOR RECEIVED INDICATOR 0 = NO CORRELATOR 1 = CORRELATOR
		.... ..1.		RRNERQCS	EXTENDED REQUEST CONTACT SUPPORT INDICATOR 0 = EXTENDED REQC NOT SUPPORTED 1 = EXTENDED REQC SUPPORTED
259	(103)	.... ...1 BITSTRING	1	RRNBKUP	BACKUP SUPPORT 0 = NO 1 = YES
		11.. ....		RRNPRSTA	LOAD AND PURGE DUMP STATUS
		..11 ....		RRNPNFSM	PURGE NCP FSM
		.... 11..		RRNPCFSM	PURGE CSP FSM
		.... ..11		RRNPMFSM	PURGE MOSS FSM
				RRNPLFSM	MODIFY LOAD FSM '00'B NO LOAD OR CANCEL IN PROGRESS '01'B ADD IN PROGRESS '10'B REPLACE IN PROGRESS '11'B CANCEL IN PROGRESS
260	(104)	CHARACTER	8	RRNMDPDP	FILENAME FOR DUMP DATASET IN OS/VS
260	(104)	CHARACTER	6	RRNDPLUB	LUB NAME FOR DUMP DATASET IN DOS/VS
266	(10A)	BITSTRING	1	RRNPUBI	PUB INDEX IN DOS/VS
268	(10C)	ADDRESS	4	RRNCDPWE	POINTER TO DUMP/LOAD/RESTART WORK ELEMENT (NCSPL,DLRPL)
272	(110)	ADDRESS	4	RRNAMLST	POINTER TO RNAME LIST
276	(114)	UNSIGNED	1	RRNAMNUM	NUMBER OF ENTRIES IN RNAME LIST
277	(115)	BITSTRING	1	RRNILRC	INBOUND LOST RECORD COUNT FOR HOST PU BUFFER TRACE
278	(116)	BITSTRING	1	RRNOLRC	OUTBOUND LOST RECORD COUNT FOR HOST PU BUFFER TRACE
279	(117)	CHARACTER	1	RRNFLAG1	FLAG BYTE
		1... ....		RRNGWCTL	1=ONLY, 0=SHR (DEFAULT) FOR GWCTL OPERAND ON PCCU MACRO
		.1.. ....		*	RESERVED
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1...		*	RESERVED
		.... .1..		*	RESERVED
		.... ..1.		*	RESERVED
		.... ...1		*	RESERVED
280	(118)	CHARACTER	8	RRNNMNCPL	DDNAME FOR NCP LOAD MODULE LIBRARY
280	(118)	CHARACTER	8	RRNNETID	NETID OF CONTACTED NCP - USED ONLY IN DUMMY NCPS
288	(120)	ADDRESS	4	RRNSFPTR	POINTER TO RDT SUFFIX
292	(124)	UNSIGNED	4	RRNMATID	MIGRATION ACTPU TIMER PCID
296	(128)	UNSIGNED	2	RRNMARTY	MIGRATION ACTPU RETRY COUNT
298	(12A)	UNSIGNED	2	RRNSFCNT	NUMBER OF RDT SUFFIX ENTRIES
300	(12C)	UNSIGNED	1	RRNGPTCS	GPT TRACE CURRENT STATE
301	(12D)	UNSIGNED	1	RRNSAWCR	SESSION AWARENESS PROCESSING CORRELATOR
302	(12E)	CHARACTER	2	RRNER	EXPLICIT ROUTE NUMBER INFORMATION
302	(12E)	BITSTRING	1	RRNERN	EXPLICIT ROUTE NUMBER FOR THE NCP/SSCP SESSION
303	(12F)	BITSTRING	1	RRNRERN	REVERSE EXPLICIT ROUTE NUMBER FOR THE NCP/SSCP SESSION
304	(130)	ADDRESS	4	RRNFNAEQ	POINTER TO FNA ELEMENT QUEUE
308	(134)	ADDRESS	4	RRNPTHLS	POINTER TO NCPPATH LIST
312	(138)	ADDRESS	4	RRNLICORP	POINTER TO LOAD MODULE CORRELATOR
316	(13C)	CHARACTER	7	RRNLMNAM	NAME OF LOAD MODULE BEING NON- DISRUPTIVELY LOADED
				*	RESERVED
323	(143)	CHARACTER	1		
324	(144)	CHARACTER	2	RRNVRID	VIRTUAL ROUTE ID FOR NCP/SSCP SESSION
324	(144)	UNSIGNED	1	RRNVRN	VIRTUAL ROUTE NUMBER
325	(145)	UNSIGNED	1	RRNTP	TELEPROCESSING PRIORITY OF NCP/SSCP SESSION
326	(146)	SIGNED	2	RRNLDFSM	LOAD-DUMP FSM
326	(146)	UNSIGNED	1	RRNLDCAT	LOAD-DUMP CATEGORY
328	(148)	CHARACTER	8	RRNGLSTA	GENNED LOAD STATION
336	(150)	CHARACTER	8	RRNGDSTA	GENNED DUMP STATION
344	(158)	CHARACTER	8	RRNCLDST	CURRENT LOAD/DUMP STATION
352	(160)	CHARACTER	8	RRNLDRID	LOAD/DUMP PCID
360	(168)	ADDRESS	4	RRNDUMQP	POINTER TO THE NEXT DUMMY NCP ON THE QUEUE
364	(16C)	ADDRESS	4	RRNREALP	POINTER TO THE REAL NCP
368	(170)	CHARACTER	8	RRNACTIM	ACTIVATE SSCP SESSION TIME STAMP
376	(178)	CHARACTER	8	RRNPCID	FORMAT 4 FOR SSCP-NCP SESSION





RDT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
384	(180)	CHARACTER	8	*	RESERVED
392	(188)	CHARACTER	16	*	NOT USED - AVAILABLE
408	(198)	CHARACTER		RRNEND	END OF 37XX ENTRY

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	RRNSFENT	NCP RDT SUFFIX ENTRY (FIRST ENTRY POINTED TO BY RRNSFPTR, AND CONTAINS RRNSFCNT NUMBER OF ENTRIES)
0	(0)	CHARACTER	8	RRNSFNET	NETWORK ID
8	(8)	UNSIGNED	1	RRNSFMAX	SUBAREA RANGE VALUE
9	(9)	BITSTRING	1	RRNSFESA	ESA CAPABILITIES
		1... ....		RRNSFCAP	1 = ESA SUPPORTED
		.111 ....		*	RESERVED
		.... 1111		RRNSFSLM	ESA ADDRESS LIMIT
10	(A)	CHARACTER	2	*	NOT USED - AVAILABLE
12	(C)	SIGNED	4	RRNSFCOS	COS TABLE INDEX
16	(10)	SIGNED	4	RRNSFSUB	GATEWAY NCP SUBAREA VALUE
0	(0)	STRUCTURE	8	RRNPTHBT	NCP PATH TABLE
0	(0)	ADDRESS	4	RRNPTHNX	ADDRESS ON NEXT PATH TAB
4	(4)	CHARACTER	2	*	NOT USED - AVAILABLE
6	(6)	UNSIGNED	1	RRNPTHNO	NUMBER OF TABLE ENTRIES
7	(7)	BITSTRING	1	*	FLAGS
		1... ....		RRNPTHAL	TABLE ALLOC FLAG 0 = ALLOCATED BY SYSDEF 1 = ALLOCATED BY CS
		.111 1111		*	NOT USED - AVAILABLE
8	(8)	CHARACTER	16	RRNPTHET (*)	NCP PATH TABLE ENTRIES
8	(8)	CHARACTER	8	RRNPTHNA	NCP PATH ENTRY NAME
16	(10)	ADDRESS	4	RRNPTHRU	ADDR OF FIRST PATH RU
20	(14)	SIGNED	2	RRNSCVCT	NO OF SETCV RUS SENT
22	(16)	CHARACTER	1	RRNPTFSM	PATH LOAD FSM 00 = RESET (ERR IN DUP DECK) 01 = DEFINED 02 = PENDING LOAD 04 = ACTIVE
23	(17)	CHARACTER	1	*	NOT USED - AVAILABLE

**Constants**

Len	Type	Value	Name	Description
VALUES FOR PATH LOAD STATUS FIELD				
1	HEX	00	RRNPTRST	RESET
1	HEX	01	RRNPTDEF	DEFINED
1	HEX	02	RRNPTPLD	PENDING LOAD
1	HEX	04	RRNPTACT	ACTIVE
VALUES FOR DUMP DISPLAY STATUS FIELD				
0	BIT	00	RRNDMPRS	
0	BIT	01	RRNDMPAC	
0	BIT	00	RRNPRGRS	PURGE RESET
0	BIT	01	RRNPRGAC	PURGE ACTIVE
CONSTANTS FOR MODIFY LOAD STATUS FIELD (RRNPLFSM)				
0	BIT	00	RRNLDNO	NO LOAD IN PROGRESS
0	BIT	01	RRNLDADD	ADD IN PROGRESS
0	BIT	10	RRNLDLDRPL	REPLACE IN PROGRESS
0	BIT	11	RRNLDLDCAN	CANCEL IN PROGRESS
CONSTANTS FOR NCP RELEASE LEVEL (RRNRELL)				
2	CHARACTER	09	RRNRLL09	NCP LEVEL 9
2	CHARACTER	10	RRNRLL10	NCP LEVEL 10

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRN	0		1	RRNMATID	124		2
RRNACBAQ	A0	02	4	RRNMDMP	D0		2
RRNACQRD	E2	80	3	RRNMLM	102	08	3
RRNACTIM	170		2	RRNMODL	E5		3
RRNADR	A0		2	RRNMOFSM	F7	20	3
RRNALLOC	E2	40	3	RRNMSIZE	B4		2
RRNAMLDA	E2	04	3	RRNMVPUS	102	20	3
RRNAMLST	110		2	RRNMWRDT	C6		2
RRNAMNUM	114		2	RRNNCPNM	F0		2
RRNBHSET	AC		2	RRNNCPPS	102	10	3
RRNBITAN	E0		2	RRNNCSPL	BC		2
RRNBKUP	102	01	3	RRNNETID	118		3
RRNCAMP	C8		2	RRNNMDPD	104		2
RRNCDPWE	10C		2	RRNNMNCP	118		2
RRNCHCON	A0	04	4	RRNNODCT	DA		2
RRNCHQI	A1		4	RRNOLRC	116		2
RRNCLDST	158		2	RRNPCFSM	103	20	3
RRNCLUB	E9		2	RRNPCID	178		2
RRNCSFSM	F7	08	3	RRNPLFSM	103	02	3
RRNCTPCC	EF		2	RRNPMFSM	103	08	3
RRNDEFLV	100		2	RRNPNFSM	103	80	3
RRNDELAY	E7		2	RRNPRE	0		2
RRNDPLUB	104		3	RRNPRSTA	103		2
RRNDSTAT	F7		2	RRNPTFSM	16		3
RRNDUMQP	168		2	RRNPTHAL	7	80	3
RRNDYFSM	F7	80	3	RRNPTHET	8		2
RRNEND	198		2	RRNPTHLS	134		2
RRNEPADR	D8		2	RRNPTHNA	8		3
RRNER	12E		2	RRNPTHNO	6		2
RRNERN	12E		3	RRNPTHNX	0		2
RRNERQCS	102	02	3	RRNPTHRU	10		3
RRNESA	C4	80	3	RRNPTHBT	0		1
RRNESACP	C4		2	RRNPUBI	10A		3
RRNFLAG	A0		3	RRNRADMP	E0	20	3
RRNFLAG1	117		2	RRNRAIPL	E0	40	3
RRNFNAEQ	130		2	RRNRANCP	E0	04	3
RRNGDSTA	150		2	RRNRAOLT	E0	08	3
RRNGGWS	E2	01	3	RRNRAPEP	E0	02	3
RRNGLSTA	148		2	RRNRASHT	E0	80	3
RRNGPTCS	12C		2	RRNRASYN	E0	10	3
RRNGRPA	A4		2	RRNRBBUP	E1	02	3
RRNGWCAP	E2	02	3	RRNRBCCL	E1	40	3
RRNGWCTL	117	80	3	RRNRBCCT	E1	20	3
RRNHBUFS	DE		2	RRNRBCT1	E1	08	3
RRNHLENH	DC		3	RRNRBCT2	E1	04	3
RRNHLENT	DD		3	RRNRBMDL	E2	20	3
RRNHPRE	DC		2	RRNRBREM	E1	80	3
RRNILRC	115		2	RRNRBSEC	E1	10	3
RRNINBFR	101		2	RRNRDCUA	F8		2
RRNLASTE	C0		2	RRNREALP	16C		2
RRNLCDIE	A0	40	4	RRNRELL	E3		3
RRNLCORP	138		2	RRNREMPO	E1	01	3
RRNLCSIP	A0	80	4	RRNRERN	12F		3
RRNLDCAT	146		3	RRNRIMIP	A0	20	4
RRNLDET	A0	10	4	RRNRINGP	A8		2
RRNLDFSM	146		2	RRNRNAME	A0	01	4
RRNLDRID	160		2	RRNRNCUA	FC		2
RRNLMFLG	102	04	3	RRNRPLPT	B8		2
RRNLMNAM	13C		2	RRNRSYN	E0	01	3
RRNLODNO	E2	08	3	RRNSALMT	C4	08	3
RRNLODYS	E2	10	3	RRNSAWCR	12D		2
RRNLUBA	A2		4	RRNSCVCT	14		3
RRNLVL	E3		2	RRNSFCAP	9	80	3
RRNMARTY	128		2	RRNSFCNT	12A		2



Name	Hex Offset	Hex Value	Level
RRNSFCOS	C		2
RRNSFENT	0		1
RRNSFESA	9		2
RRNSFMAX	8		2
RRNSFNET	0		2
RRNSFPTR	120		2
RRNSFSLM	9	08	3
RRNSFSUB	10		2
RRNSSC	102	40	3
RRNTDFSM	F7	02	3
RRNTP	145		3
RRNTYPE	B0	80	3
RRNT21NS	102	80	3
RRNUCBAD	A1		3
RRNVFYL	A0	08	4
RRNVRID	144		2
RRNVRN	144		3

RDT

## Resource Definition Table Switched Subarea Entry (RSS)

<b>Function:</b>	The RSS maps the VTAM resource definition table switched subarea entry.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	36 (X'24')
<b>Located in:</b>	RDT and RNCA

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	36	ISTRSS		
0	(0)	CHARACTER	8	RSSNETID	Network Identifier (If not specified, defaults to ATCNETID)	
8	(8)	UNSIGNED	1	*	Available	
9	(9)	UNSIGNED	1	RSSTGN	TG number coded or negotiated	
10	(A)	UNSIGNED	1	RSSDEFTG	Default TG number (set to 1)	
11	(B)	CHARACTER	1	RSSFLAGS	Flags	
11	(B)	BITSTRING	1	*	Available	
12	(C)	CHARACTER	8	RSSNCPNM	NCP Load module name	
20	(14)	UNSIGNED	4	RSSSESCT	Session Count (Number of sessions terminating in this PU)	
24	(18)	UNSIGNED	4	RSSDAFSU	Subarea	
28	(1C)	CHARACTER	8	RSSPASWD	Password	
36	(24)	CHARACTER		RSSSEND	End of ISTRSS	

RDT

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRSS	0		1
RSSDAFSU	18		2
RSSDEFTG	A		2
RSSSEND	24		2
RSSFLAGS	B		2
RSSNCPNM	C		2
RSSNETID	0		2
RSSPASWD	1C		2
RSSSESCT	14		2
RSSTGN	9		2

## Resource Definition Table Switched Terminal Set Header Entry (RSW)

<b>Function:</b>	The RSW maps the header entry for a switched RDT segment.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	184 (X'B8')
<b>Pointed to by:</b>	RDTENTAD (RDTE)
<b>Included Blocks:</b>	RDTE (RSWPRE)
<b>Located in:</b>	Found in the RNCA.

RDT

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	184	ISTRSW	SWITCHED TERMINAL SET HEADER ENTRY	
0	(0)	CHARACTER	160	RSWPRE	SEGMENT ENTRY PREFIX (SEE RDTE)	
160	(A0)	ADDRESS	4	RSWDIALT	POINTER TO DIAL NUMBERS TABLE (ISTDNT)	
164	(A4)	ADDRESS	4	RSWGRUPT	POINTER TO GROUP NAMES TABLE (ISTGNT)	
168	(A8)	ADDRESS	4	RSWIDPT	POINTER TO VERIFICATION ID TABLE (ISTVID)	
172	(AC)	SIGNED	2	RSWDIALZ	NUMBER OF ENTRIES IN DIAL NUMBER TABLE	
174	(AE)	SIGNED	2	RSWGRUPZ	NUMBER OF ENTRIES IN GROUP NAME TABLE	
176	(B0)	SIGNED	2	RSWCTELU	COUNT OF LU ENTRIES IN THIS SEGMENT	
178	(B2)	CHARACTER	6	*	NOT USED - AVAILABLE	
184	(B8)	CHARACTER		RSWEND	END OF SWITCHED TERMINAL SET HEADER ENTRY	

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRSW	0		1
RSWCTELU	B0		2
RSWDIALT	A0		2
RSWDIALZ	AC		2
RSWEND	B8		2
RSWGRUPT	A4		2
RSWGRUPZ	AE		2
RSWPRE	0		2
RSWIDPT	A8		2

## Request or Response Header (RH)

<b>Function:</b>	The RH defines a header to indicate the type of request or response.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	3
<b>Located in:</b>	Found in the BTU, PIU, RUPE, and TSCB.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	3	ISTRH	REQUEST/RESPONSE HEADER	
0	(0)	BITSTRING	1	RHF0	RH BYTE 0	
		1... ....		RHQ5	RH TYPE INDICATOR: (Q) 0=REQUEST (S) 1=RESPONSE	
		.11. ....		RHRUCAT	RU CATEGORY INDICATOR: (B) 00=FM DATA (B) 01=NETWORK CONTROL (B) 10=DATA FLOW CONTROL (B) 11=SESSION CONTROL	
		.1.. ....		*	(B) 0=FM DATA OR NETWORK CONTROL (B) 1=DATA FLOW CONTROL OR SESSION CONTROL	
		..1. ....		RHSCI	SUBSYSTEM CONTROL INDICATOR: (B) 0=FM DATA OR DATA FLOW CONTROL (B) 1=NETWORK CONTROL OR SESSION CONTROL	
		...1 ....		RHF0B3	(B) RESERVED	
		.... 1..		RHFI	FORMAT INDICATOR: (B) 0=NO FM HEADER, OR CHARACTER CODED NETWORK SERVICES RU (B) 1=FM HEADER INCLUDED, OR FIELD FORMATTED NETWORK SERVICES RU	
		.... .1..		RHSDI	SENSE DATA INCLUDED INDICATOR: (B) 0=SENSE DATA NOT INCLUDED (B) 1=SENSE DATA INCLUDED	
		.... ..1.		RHBCI	BEGIN CHAIN INDICATOR: (Q) 0=NOT BEGINNING OF CHAIN (B) 1=BEGINNING OF CHAIN	
		.... ...1		RHECI	END CHAIN INDICATOR: (Q) 0=NOT END OF CHAIN (B) 1=END OF CHAIN	
1	(1)	BITSTRING	1	RHF1	RH BYTE 1	
		1... ....		RHDR1	DEFINITE RESPONSE 1 INDICATOR: (Q) 0=DEFINITE RESPONSE 1 NOT REQUIRED (Q) 1=DEFINITE RESPONSE 1 REQUIRED (S) 0=NOT DEFINITE RESPONSE 1 (S) 1=DEFINITE RESPONSE 1 (B) RESERVED	
		.1.. ....		RHF1B1	(B) RESERVED	
		..1. ....		RHDR2	DEFINITE RESPONSE 2 INDICATOR: (Q) 0=DEFINITE RESPONSE 2 NOT REQUIRED (Q) 1=DEFINITE RESPONSE 2 REQUIRED (S) 0=NOT DEFINITE RESPONSE 2 (S) 1=DEFINITE RESPONSE 2	
		...1 ....		RHERI	EXCEPTION RESPONSE INDICATOR: (Q) 0=DEFINITE OR NO RESPONSE REQUIRED (Q) 1=EXCEPTION RESPONSE REQUIRED	
		...1 ....		RHRTI	(S) 0=POSITIVE RESPONSE (S) 1=NEGATIVE RESPONSE	
		.... 1..		RHF1B4	(B) RESERVED	
		.... .1..		RHRLWS	REQUEST LARGER WINDOW SIZE INDICATOR	
		.... ..1.		RHQRI	QUEUED RESPONSE INDICATOR: (B) 0=THE RESPONSE MAY FLOW AHEAD OF REQUESTS (B) 1=THE RESPONSE MAY NOT FLOW AHEAD OF REQUESTS NOTE: THE VALUE OF THIS FIELD IS SET ON A REQUEST AND CHECKED ON THE ASSOCIATED RESPONSE.	
		.... ...1		RHPI	PACING INDICATOR: (Q) 0=PACING RESPONSE NOT REQUIRED (Q) 1=PACING RESPONSE REQUIRED (S) 0=NOT PACING RESPONSE (S) 1=PACING RESPONSE	
2	(2)	BITSTRING	1	RHF2	RH BYTE 2	
		1... ....		RHBB1	BEGIN BRACKET INDICATOR: (Q) 0=NOT BEGIN BRACKET (Q) 1=BEGIN BRACKET (S) RESERVED	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.1. ....		RHEBI	END BRACKET INDICATOR: (Q) 0=NOT END BRACKET (Q) 1=END BRACKET (S) RESERVED
		..1. ....		RHCDI	CHANGE DIRECTION INDICATOR: (Q) 0=DO NOT CHANGE DIRECTION (Q) 1=CHANGE DIRECTION (S) RESERVED
		...1 ....		RHF2B3	(B) RESERVED
		.... 1..		RHCSI	CODE SELECTION INDICATOR: (Q) 0=CODE 0 (Q) 1=CODE 1 (S) RESERVED
		.... .1.		RHEDI	ENCIPHERED DATA INDICATOR: (Q) 0=DATA IS NOT ENCIPHERED (Q) 1=DATA IS ENCIPHERED (S) RESERVED
		.... ..1.		RHPDI	PADDED DATA INDICATOR: (Q) 0=DATA IS NOT PADDED (Q) 1=DATA IS PADDED (S) RESERVED
		.... ...1		RHCEBI	CONDITIONAL END BRACKET INDICATOR: (Q) 0=NOT CONDITIONAL END BRACKET (Q) 1=CONDITIONAL END BRACKET (S) RESERVED

## Constants

Len	Type	Value	Name	Description
MASK FOR INVALID USER DEFINED RH				
3	HEX	104D02	RHINVURH	MASK FOR INVALID USER RH NOTE A USER DEFINED RH IS INVALID IF THE PACING BIT, THE PADDED BEFORE ENCIPHERMENT OR ANY OF THE RESERVED BITS ARE ON
VALUES FOR REQUEST/RESPONSE INDICATOR (RHQS)				
0	BIT	0	RHQSREQ	REQUEST UNIT
0	BIT	1	RHQSRSP	RESPONSE UNIT
MASKS FOR SETTING AND TESTING RU CATEGORY (RHRUCAT)				
0	BIT	00	RHFMD	FUNCTION MANAGEMENT DATA RU
0	BIT	01	RHNC	NETWORK CONTROL RU
0	BIT	10	RHDFC	DATA FLOW CONTROL RU
0	BIT	11	RHSC	SESSION CONTROL RU
MISCELLANEOUS MASKS FOR SETTING AND TESTING ISTRH				
3	HEX	030000	RHREQ	FIDO REQUEST
3	HEX	938000	RHRESP	FIDO RESPONSE
3	HEX	0B0000	RHNORSP	REQUEST WITH NO RESPONSE REQUIRED
3	HEX	0B8000	RHDEFRSP	REQUEST WITH DEFINITE RESPONSE REQUIRED

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRH	0		1	RHF2	2		2
RHBBI	2	80	3	RHF2B3	2	10	3
RHBCI	0	02	3	RHPDI	2	02	3
RHCDI	2	20	3	RHPI	1	01	3
RHCEBI	2	01	3	RHQRI	1	02	3
RHCSI	2	08	3	RHQS	0	80	3
RHDR1	1	80	3	RHRLWS	1	04	3
RHDR2	1	20	3	RHRTI	1	10	4
RHEBI	2	40	3	RHRUCAT	0	40	3
RHECI	0	01	3	RHSCI	0	20	4
RHEDI	2	04	3	RHSDI	0	04	3
RHERI	1	10	3				
RHFI	0	08	3				
RHF0	0		2				
RHF0B3	0	10	3				
RHF1	1		2				
RHF1B1	1	40	3				
RHF1B4	1	08	3				

## Request Parameter Header (RPH)

<b>Function:</b>	The RPH is an internal parameter list and work area that is used to pass information to a VTAM process. The RPH contains the address of a queued work request element that is ready to be processed. VTAM moved this address from the PAB to the RPH when it was ready to process the work element. It also contains parameters needed to define the processing environment for the routines that service the request.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	108 (X'6C')
<b>Pointed to by:</b>	APWERPH (APWA) ATCITRPH (ATCVT) - internal trace RPH CPCBPH (CPCB) CRAERPH (CRA) CRAPLRPH (CRA) - RPH running at time of abend INNUTQUE (INNCB) - queue waiting for INN utility processing LOKCHN (LOK) - next RPH waiting on lock MLCRPH (MLCA) - GETSTOR and SRTADD NCBURFRPH (NCB) - RPH for utility function processor NCSPLRPH (NCSPL) NCSPLWEL (NCSPL) - RPH to be posted PABRPHA (PAB) POWRPH (POWE) PSTARPH (PST) - asynchronous RPH PSTSRPH (PST) - synchronous RPH RDTVYRPH (RDTE) - VARY RPH waiting for restart completion TSCRELAT (TSCB) - RPH related to TSCB TSPPSRPH (TSPL) - waiting RPH VIT entries: DISP (PSS PAB Dispatch) ESC (PSS TPESC) EXIT (PSS TPEXIT) LKEK (TPLOCK Exclusive) LKSH (TPLOCK Shared) POST (PSS TPPOST) QREQ (SMS Queued REQSTORE) QUE (PSS TPQUE) RESM (Resume from TPWAIT) SCHD (TPSCHED) ULKA (TPUNLOCK All) UNLK (TPUNLOCK) WAIT (PSS TPWAIT) See <i>VTAM Diagnosis</i> for more information on the VIT entries.
<b>Located in:</b>	The RPH is found in the CRA and DWA.
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for more information on how to locate a particular RPH.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	108	ISTRPH	
0	(0)	UNSIGNED	4	RPHCNTL	CONTROL INFORMATION
0	(0)	CHARACTER	1	RPHTYPE	CONTROL BLOCK TYPE
1	(1)	ADDRESS	1	RPHLNTH	LENGTH IN BYTES
2	(2)	BITSTRING	1	RPHFLAGS	SYSTEM DEPENDENT FLAGS
		1... ....		RPHSMQ	INDICATOR IF RPH IS TO BE QUEUED
		.1.. ....		RPHSMTYP	REQUEST TYPE IS BUFFER OR DOUBLE-WORD
		..1. ....		RPHSMCLR	INDICATOR IF BUFFER TO BE CLEARED
		...1 1111		*	NOT USED - AVAILABLE
3	(3)	BITSTRING	1	RPHFLGB	SECOND FLAG BYTE
		1... ....		RPHLKEX	SET TO 1 IF RPH IS WAITING FOR EXCLUSIVE USE OF A LOCK
		.1.. ....		*	NOT USED - AVAILABLE
		..1. ....		RPHSYNCH	1=RPH FOR SYNCHRONOUS REQUEST
		...1 ....		RPHRLCRA	RPH CAN BE RELEASED WHEN PURGE COMPLETED



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1...		RPHUWAIT	1=RPH WAITING FOR USER TASK POST AND RPHUPSTA = ADDRESS OF USER PST
		.... .1..		RPHABEND	USER SCHEDULED ABEND
		.... ..1.		RPHEMRXT	USERS TSCCN-TSCUF, TSCCN SETS THIS BIT IF TSCUF HAS DONE A TPWAIT & IS WAITING
		.... ...1		*	RESERVED
4	(4)	ADDRESS	4	RPHRPHA	POINTER TO NEXT RPL HEADER
		1... ....		RPHGATE	GATING FLAG
8	(8)	ADDRESS	4	RPHTSKID	POINTER TO PST (TASK ID)
8	(8)	CHARACTER	3	*	
11	(B)	ADDRESS	1	RPHTIK	TASK IDENTIFICATION KEY
12	(C)	ADDRESS	4	RPHDVT	POINTER TO CURRENT DVT
16	(10)	CHARACTER	8	RPHRESDW	USED BY CDS INSTRUCTION WHEN TPPOSTING
16	(10)	CHARACTER	6	RPHRESMA	TPWAIT-POST INFORMATION
16	(10)	ADDRESS	4	RPHRESUM	RESUME ADDRRESS
20	(14)	CHARACTER	1	RPHWPFLG	WAIT-POST FLAGS
		1111 ....		RPHRSKEY	STORAGE PROTECT KEY TO RESUME PROCESSING
		.... 1..		RPHWT	WAIT BIT
		.... .1..		RPHPT	POST BIT
		.... ..1.		RHPURGE	RPH FLAGGED BY RECOVERY TO BE PURGED BY PSS
		.... ...1		*	NOT USED - AVAILABLE
21	(15)	CHARACTER	1	*	NOT USED - AVAILABLE
22	(16)	ADDRESS	2	RPHPABOF	OFFSET OF PAB IN MAJOR CONTROL BLOCK
24	(18)	ADDRESS	4	RPHMAJCB	POINTER TO MAJOR CONTROL BLOCK
28	(1C)	ADDRESS	4	RPHWEA	POINTER TO WORK ELEMENT
		1... ....		RPHWEGT	GATE BIT
32	(20)	ADDRESS	4	RPHSRPRM	SERVICE ROUTINE PARAMETER FIELD
32	(20)	SIGNED	2	RPHSRP12	COUNT OF QUEUED SMS REQUESTS
34	(22)	SIGNED	2	RPHSRP34	SIZE OF QUEUED SMS REQUESTS
36	(24)	ADDRESS	4	RPHCRR	POINTER TO COMPONENT RECOVERY RECORD
40	(28)	CHARACTER	64	RPHWORK	16 WORD WORK AREA
40	(28)	SIGNED	4	RPHSAVE1	
40	(28)	CHARACTER	1	RPHSBYTE	1-BYTE SAVE FIELD
41	(29)	BITSTRING	1	RPHSBITS	SAVE FIELD FOR FLAG BYTE
		1... ....		RPHSBIT1	1ST SAVE FIELD
		.1.. ....		RPHSBIT2	2ND SAVE FIELD
		..1. ....		RPHSBIT3	3RD SAVE FIELD
		...1 ....		RPHSBIT4	4TH SAVE FIELD
		.... 1..		RPHSBIT5	5TH SAVE FIELD
		.... .1..		RPHSBIT6	6TH SAVE FIELD
		.... ..1.		RPHSBIT7	7TH SAVE FIELD
		.... ...1		RPHSBIT8	8TH SAVE FIELD
42	(2A)	SIGNED	2	RPHSHALF	HALF WORD SAVE AREA
44	(2C)	SIGNED	4	RPHSAVE2	
48	(30)	SIGNED	4	RPHSAVE3	
52	(34)	SIGNED	4	RPHSAVE4	
56	(38)	SIGNED	4	RPHSAVE5	
60	(3C)	SIGNED	4	RPHSAVE6	
64	(40)	SIGNED	4	RPHSAVE7	
68	(44)	SIGNED	4	RPHSAVE8	
72	(48)	SIGNED	4	RPHSAVE9	
76	(4C)	SIGNED	4	RPHSAV10	
80	(50)	SIGNED	4	RPHSAV11	
84	(54)	SIGNED	4	RPHSAV12	
88	(58)	SIGNED	4	RPHSAV13	
92	(5C)	SIGNED	4	RPHSAV14	
96	(60)	SIGNED	4	RPHSAV15	
100	(64)	SIGNED	4	RPHSAV16	
104	(68)	ADDRESS	4	RPHUPSTA	IF RPHUWAIT = ON, CONTAINS POINTER TO USER PST ON WHICH WAITING TASK IS RELYING ON COMPLETION

### Constants

Len	Type	Value	Name	Description
1	HEX	01	RPTYPE	TYPE CODE FOR RPH
4	HEX	F7FFFFFF	RPHWTO	TURN RPHWT OFF
4	HEX	08000000	RPHWT1	TURN RPHWT ON
4	HEX	FBFFFFFF	RPHPT0	TURN RPHPT OFF
4	HEX	04000000	RPHPT1	TURN RPHPT ON

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRPH	0		1	RPHSYNCH	3	20	4
RPHABEND	3	04	4	RPHTIK	B		3
RPHCNTL	0		2	RPHTSKID	8		2
RPHCRR	24		2	RPHTYPE	0		3
RPHDVTA	C		2	RPHUPSTA	68		2
RPEMRXT	3	02	4	RPHUWAIT	3	08	4
RPHFLAGS	2		3	RPHWEA	1C		2
RPHFLGB	3		3	RPHWEGT	1C	80	3
RPHGATE	4	80	3	RPHWORK	28		2
RPHLKEX	3	80	4	RPHWPFLG	14		4
RPHLNTH	1		3	RPHWT	14	08	5
RPHMAJCB	18		2				
RPHPABOF	16		3				
RPHPT	14	04	5				
RPHPURGE	14	02	5				
RPHRESDW	10		2				
RPHRESMA	10		3				
RPHRESUM	10		4				
RPHRLCRA	3	10	4				
RPHRPHA	4		2				
RPHRSKEY	14	80	5				
RPHSAVE1	28		3				
RPHSAVE2	2C		3				
RPHSAVE3	30		3				
RPHSAVE4	34		3				
RPHSAVE5	38		3				
RPHSAVE6	3C		3				
RPHSAVE7	40		3				
RPHSAVE8	44		3				
RPHSAVE9	48		3				
RPHSAV10	4C		3				
RPHSAV11	50		3				
RPHSAV12	54		3				
RPHSAV13	58		3				
RPHSAV14	5C		3				
RPHSAV15	60		3				
RPHSAV16	64		3				
RPHSBITS	29		4				
RPHSBIT1	29	80	5				
RPHSBIT2	29	40	5				
RPHSBIT3	29	20	5				
RPHSBIT4	29	10	5				
RPHSBIT5	29	08	5				
RPHSBIT6	29	04	5				
RPHSBIT7	29	02	5				
RPHSBIT8	29	01	5				
RPHSBYTE	28		4				
RPHSHALF	2A		4				
RPHSMCLR	2	20	4				
RPHSMQ	2	80	4				
RPHSMTYP	2	40	4				
RPHSRPRM	20		2				
RPHSRP12	20		3				
RPHSRP34	22		3				

## Request Parameter List (RPL)

<b>Function:</b>	The RPL is a work element used by application programs as a parameter list to present requests to VTAM. Once the request has been processed, the RPL is used as a feedback area to inform the application program of the request processing results. The RPL points to the ACB that represents the application program with VTAM. For I/O or session requests, the RPL indicates <ol style="list-style-type: none"> <li>1. Via NIB pointers: the nodes to put in session with the application program, the node to receive output data, and the node from which to obtain inbound data</li> <li>2. The location and length of data for an input or output request</li> <li>3. Either the location of the ECB to post and check after I/O processing, or the address of an exit routine that will receive control after I/O processing</li> <li>4. The attributes to be in effect for an I/O request.</li> </ol>
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	112 (X'70')
<b>Located in:</b>	The RPL is part of the user application program.
<b>Pointed to by:</b>	ACDRARQ (ACDEB) - first RPL on RECEIVE ANY queue LMPRPL (LMPCB) OCCRPL (OCCRR) SMPRPL (SMP) TSCNEXT (TSCB) - RPL for next PIU TSCRELAT (TSCB) - RPL related to TSCB VIT entries: ACA (LU6.2 authorized I/O) ACI (LU6.2 TPIO) ACP (LU6.2 user post) ACR (LU6.2 RPL exit) AI (API authorized TPIO) IO (API TPIO request) RE (API RPL exit) UE (API user exit) UP (API user post) (See <i>VTAM Diagnosis</i> for more information on the VIT entries.)
<b>Included Blocks:</b>	IFGRPL, VSAM portion of RPL; RH (RPLUSERH, RPLURH)
<b>Additional Notes:</b>	See <i>VTAM Programming</i> for the values of RPL return code and feedback fields.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	112	IFGRPL	LEVEL ONE DECLARE
0	(0)	CHARACTER	76	RPLCOMN	RPL COMMON SECTION
0	(0)	CHARACTER	4	RPLIDWD	ID WORD OF RPL
0	(0)	BITSTRING	1	RPLID	IDENT & HEADER TYPE
1	(1)	ADDRESS	1	RPLSTYP	SUBTYPE
2	(2)	ADDRESS	1	RPLREQ	REQUEST TYPE
3	(3)	ADDRESS	1	RPLLEN	LENGTH OF THIS BLOCK
3	(3)	ADDRESS	1	RPLLEN2	LENGTH OF THIS BLOCK
4	(4)	ADDRESS	4	RPLPLHPT	PTR TO PLACEHOLDER
8	(8)	ADDRESS	4	RPLECB	EXTERNAL ECB PTR OR INTERNAL ECB
		1... ....		RPLWAIT	EVENT WAITED ON
		.1.. ....		RPLPOST	EVENT COMPLETE
12	(C)	ADDRESS	4	RPLFDBWD	FEEDBACK WORD
12	(C)	BITSTRING	1	RPLSTAT	CURRENT RPL STATUS
13	(D)	ADDRESS	3	RPLFDBK	FEEDBACK AREA
13	(D)	ADDRESS	1	RPLRTNCD	RPL RETURN CODE
13	(D)	ADDRESS	1	RPLERREG	SAME AS RPLRTNCD RECEIVED
14	(E)	BITSTRING	2	RPLCNDCD	RPL CONDITION
14	(E)	ADDRESS	1	RPLCMON	COMPONENT ISSUING CODE(VSAM)
14	(E)	ADDRESS	1	RPLFDB2	REASON CODE(VTAM)
		1... ....		RPLERLK	ERROR LOCK SET
		.1.. ....		RPLRVID	RVI RECEIVED
		..1. ....		RPLATND	ATTENTION RECEIVED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		...1 ....		RPLDVUNS	DEVICE UNUSEABLE
		.... 1...		RPLIOERR	I/O ERROR - 0=INPUT/ 1=OUTPUT
		.... .1..		RPLDLGFL	DIALOG INITIATION FAILED
		.... ..1.		RPLCUERR	CONTROL UNIT FAILURE
		.... ...1		RPLSTSAV	SENSE BYTES PRESENT
15	(F)	ADDRESS	1	RPLERRCD	ERROR CODE(VSAM)
15	(F)	ADDRESS	1	RPLFDB3	DATA FLAGS(VTAM)
		1... ....		RPLUINPT	UNSOLICITED INPUT
		.1.. ....		RPLSV32	RESERVED
		..1. ....		RPLREOB	END OF BLOCK
		...1 ....		RPLREOM	END OF MESSAGE
		.... 1...		RPLREOT	END OF TRANSMISSION
		.... .1..		RPLLGFRG	LOGOFF RECEIVED
		.... ..1.		RPLRLG	LEADING GRAPHICS RECEIVED
		.... ...1		RPLRDSOH	START-OF-HEADER (SOH) RECEIVED
16	(10)	SIGNED	2	RPLKEYLE	KEY LENGTH (PROC=GEN)
16	(10)	SIGNED	2	RPLKEYL	SAME AS RPLKEYLE
18	(12)	SIGNED	2	RPLSTRID	STRING IDENTIFIER
20	(14)	ADDRESS	4	RPLCCHAR	CONTROL CHAR POINTER
24	(18)	ADDRESS	4	RPLDACB	DATA ACB POINTER
28	(1C)	ADDRESS	4	RPLTCBPT	TCB POINTER
32	(20)	ADDRESS	4	RPLAREA	DATA AREA POINTER
36	(24)	ADDRESS	4	RPLARG	SEARCH ARGUMENT PTR SETPRT PARMLIST PTR
36	(24)	ADDRESS	2	RPLSAF	SOURCE ADDRESS FIELD
38	(26)	ADDRESS	2	RPLDAF	DESTINATION ADDRESS FIELD
40	(28)	BITSTRING	4	RPLOPTCD	OPTION CODES
40	(28)	BITSTRING	1	RPLOPT1	OPTION BYTE 1
		1... ....		RPLOC	LOCATE MODE MOVE MODE IF OFF
		.1.. ....		RPLDIR	DIRECT SEARCH ACCESS
		..1. ....		RPLSEQ	SEQUENTIAL ACCESS
		...1 ....		RPLSKP	SKIP SEQ ACCESS
		.... 1...		RPLASY	ASYNCHRONOUS REQUEST SYNCH IF OFF
		.... .1..		RPLKGE	SEARCH KEY GT/EQ SEARCH KEY EQ IF OFF
		.... ..1.		RPLGEN	GENERIC KEY REQUEST FULL KEY IF OFF
		.... ...1		RPLECBSW	EXTERNAL ECB
		.... ...1		RPLECBIN	SAME AS RPLECBSW
41	(29)	BITSTRING	1	RPLOPT2	OPTION BYTE 2
		1... ....		RPLKEY	KEYED ACCESS
		.1.. ....		RPLADR	ACCESS BY LOCATION
		.1.. ....		RPLADD	SAME AS RPLADR
		..1. ....		RPLCNV	CINV ACCESS (BY RBA)
		...1 ....		RPLBWD	FWD=0/BWD=1
		.... 1...		RPLLRD	ARD=0/LRD=1
		.... .1..		RPLWAITX	SYNCH PROCESSING WAIT EXIT
		.... ..1.		RPLUPD	UPDATE IF ON
		.... ...1		RPLNSP	NOTE STRING POSITION
42	(2A)	BITSTRING	1	RPLOPT3	OPTION BYTE 3
		1... ....		RPLEODS	END OF USER SYSOUT
		.1.. ....		RPLSFOM	SPECIAL FORM ON REMOTE PRINTER
		..1. ....		RPLBLK	BLOCK=1,UNBLOCKED=0 FIXED BLOCK PROCESSING
		...1 ....		RPLVfy	UCS/FCB VERIFY=1
		.... 1...		RPLFLD	UCS FOLD=1
		.... .11.		RPLFMT	FORMAT TYPE 00=UCS LOAD 01=FCB LOAD 10=3800 PRINTER 11 RESERVED
		.... ...1		RPLALIGN	0= DO NOT ALIGN FCB BUFFER LOADS 1=ALIGN BUFFER AND NOTIFY OPERATOR
43	(2B)	BITSTRING	1	RPLOPT4	OPTION BYTE 4
		1... ....		RPLENDTR	3800 END OF TRANSMISSION
		.1.. ....		RPLMKFRM	3800 MARK FORM
		..11 1111		*	RESERVED
44	(2C)	ADDRESS	4	RPLNXTRP	CHAIN TO NEXT RPL
44	(2C)	ADDRESS	4	RPLCHAIN	SAME AS RPLNXTRP
48	(30)	ADDRESS	4	RPLRLEN	LENGTH OF RECORD
52	(34)	ADDRESS	4	RPLBUFL	USER BUFFER SIZE
56	(38)	BITSTRING	4	RPLOPTC2	VTAM OPTIONS
56	(38)	BITSTRING	1	RPLOPT5	OPTION BYTE 5
		1... ....		RPLDLGIN	1 = CS / 0 = CA

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.1.. ....		*	RESERVED
		.1.. ....		RPLPSOPT	1 = PASS/0 = RELEASE
		...1 11..		RPLWRTP	WRITE TYPE
		...1 ....		RPLNERAS	WRITE NO ERASE
		.... 1..		RPLEAU	WRITE EAU
		.... .1..		RPLERACE	WRITE WITH ERASE
		.... .1..		RPLNODE	1=ANY/0=SPEC
		.... ...1		RPLWROPT	1=CONV/0=NCONV
57	(39)	BITSTRING	1	RPLOPT6	OPTION BYTE 6
		111. ....		RPLUNTP	UNIT TYPE
		1... ....		RPLEOB	WRITE = BLK
		.1.. ....		RPLEOM	WRITE = LBM
		.1.. ....		RPLEOT	WRITE = LBT
		...1 ....		RPLCOND	CONDITIONAL
		.... 1..		RPLNCOND	UNCONDITIONAL
		.... .1..		RPLLOCK	LOCK
		.... .1..		RPLRSV67	RESERVED
		.... ...1		RPLRSV68	RESERVED
58	(3A)	BITSTRING	1	RPLOPT7	OPTION BYTE 7
		111. ....		RPLCNOPT	CONNECTION OPTION
		1... ....		RPLCNALL	CONALL
		.1.. ....		RPLCNANY	CONANY
		.1.. ....		RPLCNIMM	RESERVED FOR CONIMM
		...1 ....		RPLQOPT	1 = Q / 0 = NQ
		.... 1..		RPLTPOST	RPL ALREADY UNDER PSS
		.... .1..		RPLRLSOP	1 = RELQ / 0 = NRELQ
		.... .1..		RPLTCRNO	CLOSE IN PROCESS FOR PO INTERFACE
		.... ...1		RPLRSV78	RESERVED
59	(3B)	BITSTRING	1	RPLOPT8	OPTION BYTE 8
		1... ....		RPLODACQ	ACQUIRE
		.1.. ....		RPLODACP	ACCEPT
		.1.. ....		RPLODPRM	PREEMPT
		...1 ....		RPLPEND	PEND
		.... 1..		RPLSESS	SESSION
		.... .1..		RPLACTV	ACTIVE
		.... .1..		RPLUNCON	UNCONDL
		.... ...1		RPLRSV88	RESERVED
60	(3C)	CHARACTER	8	RPLRBAR	RBA RETURN LOCATION
60	(3C)	ADDRESS	2	RPLAIXPC	AIX POINTER COUNT
62	(3E)	BITSTRING	1	RPLAIXID	AIX POINTER TYPE
		1... ....		RPLAXPKP	RBA=0/PRIME=1
		.111 1111		*	RESERVED
63	(3F)	BITSTRING	1	*	RESERVED
64	(40)	ADDRESS	4	RPLDDDD	RELATIVE BYTE ADDRESS
68	(44)	BITSTRING	1	RPLEXTDS	EXIT DEFINITIONS
68	(44)	BITSTRING	1	RPLEXTD1	SAME AS RPLEXTDS
		1... ....		RPLEXSCH	EXIT SCHEDULED
		.1.. ....		RPLNEXIT	NO EXIT SPECIFIED
		.1.. ....		RPLEXIT	ASYNCH EXIT
		...1 ....		*	RESERVED
		.... 1..		RPLTCRYP	IF ON, ENCRYPTION FEATURE REQ
		.... .1..		RPLNIB	ARG HAS NIB POINTER IF ON
		.... .1..		RPLBRANC	BRANCH ENTRY TO MACRO IF ON
69	(45)	BITSTRING	1	RPLACTIV	ACTIVE INDICATOR FF=ACTIVE/00=INACTIVE
70	(46)	ADDRESS	2	RPLMLEN	ERROR MESSAGE AREA LENGTH
72	(48)	ADDRESS	4	RPLERMSA	PTR TO ERR MSG AREA
76	(4C)	CHARACTER	36	RPLVTEXT	START OF EXTENSION
76	(4C)	ADDRESS	4	RPLAAREA	ALTERNATE AREA ADDR
80	(50)	ADDRESS	4	RPLAARLN	ALTERNATE AREA LENGTH
84	(54)	ADDRESS	4	RPLARCLN	ALTERNATE RECORD LENGTH
88	(58)	BITSTRING	4	RPLFDBK2	FEED BACK WORD 2
88	(58)	BITSTRING	2	RPLSSNSI	SYSTEM SENSE INPUT
88	(58)	BITSTRING	2	RPLDSB	DEVICE STATUS BYTES
88	(58)	BITSTRING	1	RPLDSB1	DEVICE STATUS BYTE 1
88	(58)	BITSTRING	1	RPLSSEI	SYSTEM SENSE ERROR CODES
		1... ....		RPLPATHI	SSENSEI PATH
		.1.. ....		RPLCPMI	SSENSEI CPM

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		..1. ....		RPLSTATI	SSENSEI STATE
		...1 ....		RPLFII	SSENSEI FI
		.... 1...		RPLRRI	SSENSEI RR
		.... .111		*	RESERVED
89	(59)	BITSTRING	1	RPLDSB2	DEVICE STATUS BYTE 2
89	(59)	ADDRESS	1	RPLSSMI	SYSTEM SENSE MODIFIER INPUT
90	(5A)	ADDRESS	2	RPLUSNSI	USER SENSE INPUT
90	(5A)	BITSTRING	1	RPLESR1	EXTENDED SYSTEM RESPONSE 1
91	(5B)	BITSTRING	1	RPLESR2	EXTENDED SYSTEM RESPONSE 2
92	(5C)	BITSTRING	4	RPLUSFLD	USER FIELD
96	(60)	BITSTRING	4	RPOPTC3	VTAM OPTIONS
96	(60)	BITSTRING	1	RPOPT9	OPTION BYTE 9
		1... ....		RPLLOGON	INQ LOGON MESSAGE
		.1. ....		RPLDEVCH	INQ DEVICE CHAR
		..1. ....		RPLTERMS	INQ TERMS
		...1 ....		RPLCOUNT	INQ COUNTS
		.... 1...		RPLAPPST	INQ APPSTAT
		.... .1..		RPLRNNM	INQ RNNAME
		.... .1.		RPLCIDE	INQ CIDXLATE
		.... ...1		RPLTOPL	INQ TOP LOGON
97	(61)	BITSTRING	1	RPOPT10	OPTION BYTE 10
		1... ....		RPLBSCID	INQ BSC ID
		.1. ....		RPLDSPLY	INQ DISPLAY
		..1. ....		RPLSPARM	INQ SESSPARM
		...1 ....		RPLTSKY	INQ SESSKEY
		.... 1...		RPLUSVAR	OPTCD = USERVER
		.... .1..		RPLUNBD	UNBIND (TERMSESS OPTION)
		.... .1.		RPLSONOP	OPTCD=NSONCODE SONCODE 0 = NSONCODE 1 = SONCODE
		.... ...1		RPLSENOP	OPTCD=NSENSE SENSE 0 = NSENSE 1 = SENSE
98	(62)	BITSTRING	1	RPOPT11	OPTION BYTE 11
		1... ....		RPLQUIES	SETLOGON QUIESCE
		.1. ....		RPLSTART	SETLOGON START
		..1. ....		RPLSTOP	SETLOGON STOP
		...1 ....		RPLHOLD	HOLD (SETLOGON OPTION)
		.... 1...		RPLCNTRU	INQUIRE - CURRENT RU
		.... .1..		RPLMTS	OPTCD = MTS
		.... .1.		*	RESERVED
		.... ...1		RPLFORCE	OPTCD=FORCED
99	(63)	BITSTRING	1	RPOPT12	OPTION BYTE 12
		1... ....		RPLRSPQD	OPTCD=RSPQUED NRSPQUED 0=NRSPQUED/1=RSPQUED
		.1. ....		RPLKEEP	RECEIVE KEEP
		..1. ....		RPLTRUNC	RECEIVE TRUNC
		...1 ....		RPLNIBTK	RECEIVE NIBTK
		.... 1...		RPLQSESS	SMLG QSESSLIM
		.... .1..		RPLQNOTE	SMLG QNOTENAB
		.... .1.		RPLQALL	SMLG QALL
		.... ...1		RPLFMHDR	0=NFMHDR/1=FMHDR
100	(64)	BITSTRING	4	RPLOSENS	SENSE OUTPUT DATA
100	(64)	BITSTRING	2	RPLSSNSO	SYSTEM SENSE OUTPUT
100	(64)	BITSTRING	1	RPLSSEO	SYSTEM SENSE ERROR CODES
		1... ....		*	RESERVED
		.1. ....		RPLCPMO	SSENSEO CPM
		..1. ....		RPLSTATO	SSENSEO STATE
		...1 ....		RPLFIO	SSENSEO FI
		.... 1...		RPLRRO	SSENSEO RR
		.... .111		*	RESERVED
101	(65)	ADDRESS	1	RPLSSMO	SYSTEM SENSE MODIFIER OUTPUT
102	(66)	ADDRESS	2	RPLUSNSO	USER SENSE OUTPUT
104	(68)	ADDRESS	4	RPLSAV13	SAVE AREA FOR VTAM FAST PATH
108	(6C)	ADDRESS	4	RPLSIGDA	SIGNAL DATA FIELD
0	(0)	STRUCTURE	1	*	RPL EXIT ADDRESS FIELD
		1... ....		RPLAMOD2	SET BY VTAM--WHEN RPLCEB IS A ROUTINE POINTER, COPY OF RPLAMODE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	RPLQF16	BASE AT OFFSET 16
0	(0)	BITSTRING	1	RPLRH3	THIRD RH BYTE
		1... ..		RPLBB	BRACKET - 0=NBB 1=BB
		.1.. ..		RPLEB	BRACKET - 0=NEB 1=EB
		..1. ....		RPLCMD	CHNGDIR - 0=NCMD 1=CMD
		...1 ....		RPLCHREQ	CHNGDIR - 0=NREQ 1=REQ
		.... 1...		RPLCSI	0=STANDARD - CODESEL 1=ALT
		.... .1.		*	RESERVED
		.... ...1		RPLCEB	BRACKET-CONDITIONAL END 0=NCEB 1=CEB
1	(1)	BITSTRING	1	RPLSRYP	SEND OR RECEIVE TYPE
		1111 ....		RPLSTYP	SEND TYPE
		1... ..		RPLSRESP	STYP - 0=REQ 1=RESP
		.111 ....		*	RESERVED
		.... 1111		RPLRYP	RECEIVE TYPE
		.... 1...		RPLRRESP	RTYP - 1=RESP 0=NRESP
		.... .1..		RPLNFSYN	RTYP - 0=DFSYN 1=NDFSYN
		.... ..1.		RPLDFASY	RTYP - 0=NDFASY 1=DFASY
		.... ...1		*	RESERVED
2	(2)	BITSTRING	1	RPLCHN	POSITION IN RU CHAIN AND APPC FLAGS
		1... ..		RPLFIRST	CHAIN FIRST
		.1.. ....		RPLMIDLE	CHAIN MIDDLE
		..1. ....		RPLLAST	CHAIN LAST
		...1 ....		RPLONLY	CHAIN ONLY
		.... 1...		RPLVACS	1=VTAM APPC CONTROLLED SESSION (APPCMD SHOULD BE ISSUED)
		.... .1..		RPLAPPC	APPC FLAG 0=APPLICATION IS THE REQUEST ORIGINATOR 1=APPC/VTAM IS THE REQUEST ORIGINATOR
		.... ..11		*	RESERVED
3	(3)	BITSTRING	1	RPLVTFL1	VTAM FLAGS
		1... ..		*	RESERVED
		.1.. ....		RPLVTUSE	0=APPL 1=SYSTEM
		..1. ....		RPLAUTUS	AUTHORIZED PROGRAM
		...1 ....		RPLTDSP	DOMAIN REQ
		.... 1...		RPLTLGAC	LOGON ACCOMPLISHED
		.... .1..		RPLAMODE	SET BY VTAM--ADDRESSING MODE IN WHICH RPL EXIT WILL BE INVOKED. 1 MEANS 31-BIT MODE.
		.... ..1.		RPLRSPNM	AT LEAST ONE RESPONSE ON NORMAL FLOW INBOUND RESPONSE QUEUE
		.... ...1		RPLRSPQR	AT LEAST ONE QRI RESPONSE ON NORMAL FLOW INBOUND DATA QUEUE
4	(4)	BITSTRING	1	RPLVTFL2	POST/RESPOND FLAGS
		1111 ....		RPLPOSTV	POST FLAGS
		1... ..		RPLSCHED	POST - 0=RESP 1=SCHED
		.111 ....		*	RESERVED
		.... 1111		RPLRESP	RESPOND FLAGS
		.... 1...		RPLQRI	RESPOND - 0=NQREQ 1=QREQ
		.... .1..		RPLEX	RESPOND - 0=NEX 1=EX
		.... ..1.		RPLNFME	RESPOND - 0=FME 1=NFME
		.... ...1		RPLRRN	RESPOND - 0=NRRN 1=RRN
5	(5)	CHARACTER	3	RPLCNTRL	RU CONTROL CODES
5	(5)	BITSTRING	1	RPLCNTDF	DATA FLOW CONTROL CODES
		1... ..		RPLDATA	CONTROL DATA
		.1.. ....		RPLCNCEL	CONTROL CANCEL
		..1. ....		RPLQC	CONTROL QC
		...1 ....		RPLQEC	CONTROL QEC
		.... 1...		RPLCHASE	CONTROL CHASE
		.... .1..		RPLRELQ	CONTROL RELQ
		.... ..1.		RPLQI	RESERVED
		.... ...1		*	RESERVED
6	(6)	BITSTRING	1	RPLCNTDC	DATA FLOW CONTROL CTD
		1... ..		RPLBID	CONTROL BID
		.1.. ....		RPLRTR	CONTROL RTR
		..1. ....		RPLLUS	CONTROL LUS
		...1 ....		RPLSIGNL	CONTROL SIGNAL
		.... 1...		RPLTBIND	CONTROL BIND
		.... .1..		RPLTUNBD	CONTROL UNBIND
		.... ..1.		RPLSBI	CONTROL SBI

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ..1		RPLBIS	CONTROL BIS
7	(7)	BITSTRING	1	RPLCNTSC	SESSION CONTROL CODES
		1... ....		RPLSDT	CONTROL SDT
		.1.. ....		RPLCLEAR	CONTROL CLEAR
		..1. ....		RPLSTSN	CONTROL STSN
		...1 ....		RPLSHUTD	CONTROL SHUTD
		.... 1..		RPLSHUTC	CONTROL SHUTC
		.... .1..		RPLRQR	CONTROL RQR
		.... ..1.		RPLRSHUT	CONTROL RSHUTD
		.... ..1		RPLSWTCH	CONTROL=SWITCH
0	(0)	STRUCTURE	4	RPLOF28	BASE ON RPLTCBPT
0	(0)	CHARACTER	4	RPLUSERH	USER RH
0	(0)	CHARACTER	3	RPLURH	USER RH
3	(3)	CHARACTER	1	RPLSONCD	SON CODE (UNBIND TYPE CODE)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	1	RPLOF56	BASE ON RPLOPT5
0	(0)	BITSTRING	1	RPLO5	VTAM OPTION BYTE 5
		1... ....		*	RESERVED
		.1.. ....		RPLTNFY	THIRD PARTY NOTIFY
		..11 1111		*	RESERVED
0	(0)	STRUCTURE	3	RPLOF57	BASE ON RPLOPT6
0	(0)	BITSTRING	1	RPLO6	VTAM OPTION BYTE 6
		1111 11..		*	RESERVED
		.... ..1.		RPLBUFFL	BUFFER LIST BEING USED
		.... ..1		RPLCONTC	CONTINUE CHAIN IF NEGATIVE RESPONSE IS RECEIVED
1	(1)	BITSTRING	1	RPLO7	VTAM OPTION BYTE 7
		11.. ....		*	RESERVED
		..1. ....		RPLBKUP	OPTCD = BACKUP
		...1 111.		*	RESERVED
		.... ..1		RPLLMPEO	VTAM IS TO ENFORCE MAXIMUM RU SIZE
2	(2)	BITSTRING	1	RPLO8	VTAM OPTION BYTE 8
		1111 111.		*	RESERVED
		.... ..1		RPLUSRRH	1=OPTCD=USERRH SPECIFIED 0=OPTCD=NUSERRH SPECIFIED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	8	RPLOF60	BASE AT OFFSET 60
0	(0)	UNSIGNED	2	RPLOBSQV	STSN OUTBOUND SEQ. NO. SEQUENCE NUMBER OF LAST RU OF A LARGE MESSAGE SEND
2	(2)	UNSIGNED	2	RPLIBSQV	STSN INBOUND SEQ. NO.
4	(4)	BITSTRING	1	RPLOBSQ	STSN OUTBOUND ACTION CODES
		1... ....		RPLOSET	OBSQAC SET
		.1.. ....		RPLTST	OBSQAC TESTSET
		..1. ....		RPLORSET	OBSQAC RESET
		...1 ....		RPLOIGN	OBSQAC IGNORE
		.... 1..		RPLOPOS	OBSQAC TESTPOS
		.... .1..		RPLONEG	OBSQAC TESTNEG
		.... ..1.		RPLOINV	OBSQAC INVALID
		.... ..1		*	RESERVED
5	(5)	BITSTRING	1	RPLIBSQ	STSN INBOUND ACTION CODES
		1... ....		RPLISET	IBSQAC SET
		.1.. ....		RPLITST	IBSQAC TESTSET
		..1. ....		RPLIRSET	IBSQAC RESET
		...1 ....		RPLIIGN	IBSQAC IGNORE
		.... 1..		RPLIPOS	IBSQAC TESTPOS
		.... .1..		RPLINEG	IBSQAC TESTNEG
		.... ..1.		RPLIINV	IBSQAC INVALID
		.... ..1		*	RESERVED
6	(6)	UNSIGNED	2	RPLSEQNO	SEQUENCE NUMBER



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	112	ISTRPL6X	START OF APPC EXTENSION
0	(0)	CHARACTER	112	RPL6AREA	
0	(0)	CHARACTER	4	RPL6CBID	CONTROL BLOCK IDENTIFIER
4	(4)	BITSTRING	1	RPL6REQ	CONTROL VALUE OF APPCCMD
5	(5)	BITSTRING	1	RPL6QUAL	QUALIFY VALUE OF APPCCMD
6	(6)	CHARACTER	2	*	NOT USED
8	(8)	UNSIGNED	4	RPL6CNVD	CONVERSATION ID
12	(C)	BITSTRING	4	RPL6USR	USER FIELD
16	(10)	BITSTRING	4	RPL6SNSO	SENSE DATA SPECIFIED ON APPCCMD
20	(14)	BITSTRING	4	RPL6SNSI	SENSE DATA RETURNED BY APPCCMD
24	(18)	BITSTRING	4	RPL6SGNL	SIGNAL DATA RETURNED ON ALL APPCCMDS IF SIGRCV=YES, RESERVED IF SIGRCV = NO
28	(1C)	UNSIGNED	1	RPL6SIDL	LENGTH OF SESSION ID
29	(1D)	BITSTRING	3	*	NOT USED
32	(20)	BITSTRING	8	RPL6SSID	SESSION IDENTIFICATION
40	(28)	CHARACTER	4	RPL6RC	RPL6 RETURN CODES
40	(28)	BITSTRING	2	RPL6RCPR	PRIMARY RETURN CODE
42	(2A)	BITSTRING	2	RPL6RCSC	SECONDARY RETURN CODE
44	(2C)	BITSTRING	4	RPL6FLGS	ALL INDICATORS SPECIFIC TO VTAM'S APPCCMD MACRO
44	(2C)	BITSTRING	1	RPL6FLG1	FIRST INDICATORS BYTE
		1... ....		RPL6FILL	FILL INDICATOR '0'B = "FILL=BUFF" '1'B = "FILL=LL"
		.1.. ....		RPL6CD	CD INDICATOR '0'B = "CD=IMMED" '1'B = "CD=DEFER"
		..1. ....		*	NOT USED
		...1 ....		RPL6SLS	PARTNER LU VERIFIED '1'B = "VERIFIED" '0'B = "NOT VERIFIED"
		.... 1..		RPL6CFTX	CONFTXT INDICATOR '1'B = "CONFTXT=YES" '0'B = "CONFTXT=NO"
		.... .111		*	NOT USED
45	(2D)	BITSTRING	1	RPL6FLG2	SECOND INDICATORS BYTE
		1111 ....		*	NOT USED
		.... 11..		RPL6TYPE	TYPE INDICATOR
		.... ..11		*	NOT USED
46	(2E)	BITSTRING	1	RPL6FLG3	THIRD INDICATORS BYTE
		1... ....		RPL6LOCK	LOCKS INDICATOR '0'B = "LOCKS=LONG" '1'B = "LOCKS=SHORT"
		.11. ....		RPL6DERC	SESSION DEACTIVATION REASON CODE
		...1 ....		*	NOT USED
		.... 11..		RPL6CMOD	CONMODE INDICATOR
		.... ..11		RPL6LAST	LAST INDICATOR FOR ATTN LOSS EXIT
47	(2F)	BITSTRING	1	RPL6FLG4	FOURTH INDICATORS BYTE
47	(2F)	BITSTRING	1	*	NOT USED
48	(30)	CHARACTER	8	RPL6LU	NAME OF LU
56	(38)	CHARACTER	8	RPL6MODE	MODE NAME TO BE USED
64	(40)	BITSTRING	2	RPL6WHAT	"WHAT RECEIVED" INDICATOR RETURNED AT COM- PLETION OF APPCCMD RECEIVE COMMAND
64	(40)	BITSTRING	1	RPL6RCV1	
		1... ....		RPL6WDAT	WHATRCV=DATA
		.1.. ....		RPL6WDAC	WHATRCV=DATA_COMPLETE
		..1. ....		RPL6WDAI	WHATRCV=DATA_INCOMPLETE
		...1 ....		RPL6WSND	WHATRCV=SEND
		.... 1..		RPL6WCFM	WHATRCV=CONFIRM
		.... .1..		RPL6WDAL	WHATRCV=DEALLOCATE
		.... ..1.		RPL6WLOG	WHATRCV=LOG_DATA
		.... ...1		RPL6WPSH	WHATRCV=PS_HEADER
65	(41)	BITSTRING	1	RPL6RCV2	
		1... ....		RPL6WPSI	WHATRCV=PARTIAL_PS_HEADER
		.111 1111		*	NOT USED
66	(42)	BITSTRING	1	RPL6RTUN	RETURNED INDICATORS AS A RESULT OF APPCCMD
		1... ....		RPL6RMH5	FMH5RCV INDICATOR
		.1.. ....		RPL6RLOG	LOGRCV INDICATOR
		..1. ....		RPL6RSIG	SIGRCV INDICATOR
		...1 11..		RPL6SECL	LU SECURITY
		...1 ....		RPL6CLSA	PARTNER LU ACCEPTS SECURITY SUBFIELDS ON FMH5

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1...		RPL6AVFA	PARTNER LU ACCEPTS REQUESTS FOR ALREADY VERIFIED
		.... .1..		*	RESERVED
		.... ..11		*	NOT USED
67	(43)	UNSIGNED	1	RPL6MH5L	LENGTH OF THE FMH5 RECEIVED
68	(44)	UNSIGNED	1	RPL6CCST	CURRENT CONVERSATION STATE
69	(45)	BITSTRING	1	RPL6ACTV	RPL6 ACTIVE INDICATOR X'FF' = ACTIVE X'00' = INACTIVE
70	(46)	BITSTRING	1	RPL6DETP	SESSION DEACTIVATION TYPE CODE
71	(47)	CHARACTER	1	*	NOT USED
72	(48)	ADDRESS	4	RPL6TID	TASK ID (THE SUBLEVEL NAMES ARE REFERENCED BY VM SYSTEM)
72	(48)	SIGNED	2	RPL6MID	MACHINE ID
74	(4A)	SIGNED	2	RPL6TIX	TASK INDEX OF CURRENTLY EXECUTING TASK
76	(4C)	ADDRESS	4	RPL6RPL	POINTER BACK TO THE RPL
80	(50)	ADDRESS	4	RPL6STBF	POINTER TO CURRENT BUFFER AT STORAGE SHORTAGE
84	(54)	ADDRESS	4	RPL6STDS	CURRENT DISPLACEMENT IN BUFFER AT STORAGE SHORTAGE
88	(58)	ADDRESS	4	RPL6DEB	(DOS ONLY) THIS FIELD REPLACES THE C6RPLDEB FIELD IN THE CRPL6. IT CONTAINS THE ACDEB ADDRESS AND IS FOR VTAM'S INTERNAL USE ONLY.
92	(5C)	CHARACTER	20	*	RESERVED

NOTE: THE LAST 8 BYTES OF THE RPL6 PASSED IN THE ATTENTION EXIT IS USED TO CONTAIN THE COPY OF THE SLCNS STRUCTURE. CHANGES WILL BE REQUIRED IF THIS AREA IN THE RPL6 IS ASSIGNED, OR IF THE LENGTH OF THE SLCNS STRUCTURE EXCEEDS 8 BYTES.

112	(70)	CHARACTER		RPL6END	END OF RPL6
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### Constants

Len	Type	Value	Name	Description
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THE FOLLOWING CONSTANT VALUES ARE THOSE SPECIFIED IN THE EXPEDITED DATA FLOW CONTROL RU "SIGNAL".

4	HEX	00010001	RPL6SIG1	SIGNAL DATA RETURNED TO APPLICATION
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THE FOLLOWING CONSTANT IS DEFINED AS A SYMBOLIC REFERENCE TO THE APPC CONTROL BLOCK ID (RPL6).

4	CHARACTER	APPC	RPL6ID	APPC CONTROL BLOCK ID
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THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6REQ. THEY REPRESENT THE "CONTROL=" VALUE.

1	HEX	10	RPL6ALLC	ALLOC
1	HEX	20	RPL6RSRV	RESETRCV
1	HEX	30	RPL6DEAL	DEALLOC
1	HEX	40	RPL6OPER	OPRCNTL
1	HEX	50	RPL6PREC	PREPRCV
1	HEX	60	RPL6RFH5	RCVFMH5
1	HEX	70	RPL6RCV	RECEIVE
1	HEX	80	RPL6RJCT	REJECT
1	HEX	90	RPL6SEND	SEND
1	HEX	A0	RPL6SETS	SETSESS

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6QUAL. THEY REPRESENT THE "QUALIFY=" VALUE.

1	HEX	00	RPL6NQUA	UNDEFINED QUALIFY
1	HEX	01	RPL6APRG	ABNDPROG
1	HEX	02	RPL6ASRV	ABNDSERV
1	HEX	03	RPL6ATIM	ABNDTIME
1	HEX	04	RPL6AUSR	ABNDUSER
1	HEX	05	RPL6ANY	ANY
1	HEX	06	RPL6CNOS	CNOS
1	HEX	07	RPL6CFRM	CONFIRM
1	HEX	08	RPL6CFMD	CONFRMD

Len	Type	Value	Name	Description
1	HEX	09	RPL6DATA	DATA
1	HEX	0A	RPL6DCON	DATACON
1	HEX	0B	RPL6DFLU	DATAFLU
1	HEX	0C	RPL6DFIN	DEFINE
1	HEX	0D	RPL6DSPY	DISPLAY
1	HEX	0E	RPL6ERR	ERROR
1	HEX	0F	RPL6FLSH	FLUSH
1	HEX	10	RPL6RQSD	RQSEND
1	HEX	11	RPL6SPEC	SPEC
1	HEX	12	RPL6ACT	ACTSESS
1	HEX	13	RPL6DACT	DACTSESS
1	HEX	14	RPL6ALCD	ALLOCD
1	HEX	15	RPL6IMED	IMMED
1	HEX	16	RPL6CWIN	CONWIN
1	HEX	17	RPL6SESN	SESSION
1	HEX	18	RPL6CONV	CONV
1	HEX	19	RPL6SUSP	SUSPEND
1	HEX	1A	RPL6RESM	RESUME

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6FILL.  
THEY REPRESENT THE "FILL=" VALUE.

0	BIT	0	RPL6BUFF	BUFF
0	BIT	1	RPL6LL	LL

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6CD  
THEY REPRESENT THE "CD=" VALUE

0	BIT	0	RPL6CDIM	"CD=IMMED"
0	BIT	1	RPL6CDDE	"CD=DEFER"

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6CFTX.  
THEY REPRESENT THE "CONFTXT=" VALUE.

0	BIT	1	RPL6CFT	YES
0	BIT	0	RPL6NCFT	NO

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6TYPE.  
THEY REPRESENT THE "TYPE=" VALUE.

0	BIT	11	RPL6USER	USER
0	BIT	01	RPL6PRGM	PROGRAM
0	BIT	10	RPL6SVC	SERVICE

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6LOCK.  
THEY REPRESENT THE "LOCKS=" VALUE.

0	BIT	0	RPL6LONG	LONG
0	BIT	1	RPL6SHRT	SHORT

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6DERC.

0	BIT	00	RPL6RNRM	NORMAL
0	BIT	10	RPL6RABN	ABNORMAL
0	BIT	11	RPL6RANR	ABNORMAL, NO RETRY

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6CMOD.  
THEY REPRESENT THE "CONMODE=" VALUE.

0	BIT	00	RPL6LLCA	LLCA
0	BIT	01	RPL6BFCA	BUFFCA
0	BIT	10	RPL6CS	CS
0	BIT	11	RPL6SAME	SAME

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6LAST.

0	BIT	00	RPL6NLST	SESSIONS EXIST FOR THE SPECIFIED MODE
0	BIT	01	RPL6LMOD	LAST SESSION DEACTIVATED FOR THE SPECIFIED MODE
0	BIT	10	RPL6NCTL	LAST SESSION DEACTIVATED FOR NON-CONTROL MODES
0	BIT	11	RPL6ALL	ALL SESSIONS FOR THIS LU HAVE BEEN DEACTIVATED

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6CCST.  
THEY REPRESENT THE CURRENT CONVERSATION STATE.

Len	Type	Value	Name	Description
1	DECIMAL	0	RPL6RSET	RESET
1	DECIMAL	1	RPL6SND	SEND
1	DECIMAL	2	RPL6RECV	RECEIVE
1	DECIMAL	3	RPL6RVCF	RECEIVE CONFIRM
1	DECIMAL	4	RPL6RVCS	RECEIVE CONFIRM SEND
1	DECIMAL	5	RPL6RVCD	RECEIVE CONFIRM DEALLOCATE
1	DECIMAL	6	RPL6PNDD	PEND DEALLOCATE
1	DECIMAL	7	RPL6PECL	PEND END CONVESATION LOG
1	DECIMAL	8	RPL6ENDC	END CONVERSATION
1	DECIMAL	9	RPL6PNDS	PENDING SEND
1	DECIMAL	10	RPL6PRVL	PENDING RCV LOG

THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6DETP.  
 THEY REPRESENT THE "DEACTYP=" VALUE.

1	HEX	0F	RPL6TCLP	CLEANUP
1	HEX	FE	RPL6TPVL	PROTOCOL VIOLATION

EXTENSION TO THE RPL

THE FOLLOWING CONSTANT VALUES ARE THOSE ALLOWED TO BE RECORDED  
 IN "RPLREQ" AND/OR REGISTER 0 WHEN AN APPCCMD MACRO IS ISSUED.

1	HEX	62	RPL6APPC	RPLREQ VALUE WHEN APPCCMD ISSUED EXCEPT CONTROL=CHECK
1	HEX	6C	RPL6CHEK	RPLREQ VALUE WHEN APPCCMD CONTROL= CHECK IS ISSUED

THE FOLLOWING CONSTANT VALUES ARE THOSE ALLOWED TO BE RECORDED  
 IN "RPLREQ" AND/OR REGISTER 0 WHEN A VCNSCMD MACRO IS ISSUED.

1	HEX	32	RPL3VCNS	REGISTER 0 AND RPLREQ VALUE WHEN A VCNSCMD IS ISSUED EXCEPT CONTROL=CHECK
1	HEX	3C	RPL3CHEK	REGISTER 0 VALUE WHEN A VCNSCMD CONTROL= CHECK IS ISSUED
1	DECIMAL	0	RPLGET	GET REQUEST
1	DECIMAL	1	RPLPUT	PUT REQUEST
1	DECIMAL	2	RPLCHECK	CHECK REQUEST
1	DECIMAL	3	RPLPOINT	POINT REQUEST
1	DECIMAL	4	RPLENDRE	ENDREQ REQUEST
1	DECIMAL	5	RPLERASE	ERASE REQUEST
1	DECIMAL	6	RPLVERIF	VERIFY REQUEST
1	DECIMAL	8	RPLPFMTD	DATA PREFORMAT
1	DECIMAL	9	RPLPFMTI	INDEX PREFORMAT
1	DECIMAL	10	RPLFRCIO	FORCE I/O REQUEST
1	DECIMAL	11	RPLGETIX	GETIX REQUEST
1	DECIMAL	12	RPLPUTIX	PUTIX REQUEST
1	DECIMAL	13	RPLSRCHB	SRCHBFR REQUEST
1	DECIMAL	14	RPLMRKB	MRKBFR REQUEST
1	DECIMAL	15	RPLWRTB	WRTBFR REQUEST
1	DECIMAL	19	RPLTERM	TERMRPL REQUEST

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
IFGRPL	0		1	RPLARCLN	54		3
ISTRPL6X	0		1	RPLAREA	20		3
RPLAAREA	4C		3	RPLARG	24		3
RPLAARLN	50		3	RPLASY	28	08	5
RPLACTIV	45		3	RPLATND	E	20	8
RPLACTV	3B	04	5	RPLAUTUS	3	20	3
RPLADD	29	40	6	RPLAXPKP	3E	80	5
RPLADR	29	40	5	RPLBB	0	80	3
RPLAIXID	3E		4	RPLBCKUP	1	20	3
RPLAIXPC	3C		4	RPLBID	6	80	4
RPLALIGN	2A	01	5	RPLBIS	6	01	4
RPLAMODE	3	04	3	RPLBLK	2A	20	5
RPLAMOD2	0	80	2	RPLBRANC	44	02	5
RPLAPPC	2	04	3	RPLBSCID	61	80	5
RPLAPPST	60	08	5	RPLBUFFL	0	02	3

Name	Hex Offset	Hex Value	Level
RPLBUFL	34		3
RPLBWD	29	10	5
RPLCCHAR	14		3
RPLCEB	0	01	3
RPLCHAIN	2C		4
RPLCHASE	5	08	4
RPLCHN	2		2
RPLCHREQ	0	10	3
RPLCIDE	60	02	5
RPLCLEAR	7	40	4
RPLCMD	0	20	3
RPLCMPON	E		6
RPLCNALL	3A	80	6
RPLCNANY	3A	40	6
RPLCNCEL	5	40	4
RPLCNDCD	E		5
RPLCNIMM	3A	20	6
RPLCNOPT	3A	80	5
RPLCNTDC	6		3
RPLCNTDF	5		3
RPLCNTRL	5		2
RPLCNTRU	62	08	5
RPLCNTSC	7		3
RPLCNV	29	20	5
RPLCOMN	0		2
RPLCOND	39	10	5
RPLCONTC	0	01	3
RPLCOUNT	60	10	5
RPLCPMI	58	40	8
RPLCPMO	64	40	6
RPLCSI	0	08	3
RPLCUERR	E	02	8
RPLDACB	18		3
RPLDAF	26		4
RPLDATA	5	80	4
RPLDDDD	40		4
RPLDEVCH	60	40	5
RPLDFASY	1	02	4
RPLDIR	28	40	5
RPLDLGFL	E	04	8
RPLDLGIN	38	80	5
RPLDSB	58		5
RPLDSB1	58		6
RPLDSB2	59		6
RPLDSPLY	61	40	5
RPLDVUNS	E	10	8
RPLEAU	38	08	6
RPLEB	0	40	3
RPLECB	8		3
RPLECBIN	28	01	6
RPLECBSW	28	01	5
RPLEMLEN	46		3
RPLENDTR	2B	80	5
RPLEOB	39	80	6
RPLEODS	2A	80	5
RPLEOM	39	40	6
RPLEOT	39	20	6
RPLERACE	38	04	6
RPLERLK	E	80	8
RPLERMSA	48		3
RPLERRCD	F		6
RPLERREG	D		6
RPLESR1	5A		5
RPLESR2	5B		5
RPLEX	4	04	4
RPLEXIT	44	20	5
RPLEXSCH	44	80	5

Name	Hex Offset	Hex Value	Level
RPLEXTDS	44		3
RPLEXTD1	44		4
RPLFDBK	D		4
RPLFDBK2	58		3
RPLFDBWD	C		3
RPLFDB2	E		7
RPLFDB3	F		7
RPLFII	58	10	8
RPLFIO	64	10	6
RPLFIRST	2	80	3
RPLFLD	2A	08	5
RPLFMHDR	63	01	5
RPLFMT	2A	04	5
RPLFORCE	62	01	5
RPLGEN	28	02	5
RPLHOLD	62	10	5
RPLIBSQ	5		2
RPLIBSQV	2		2
RPLID	0		4
RPLIDWD	0		3
RPLIGN	5	10	3
RPLIINV	5	02	3
RPLINEG	5	04	3
RPLIOERR	E	08	8
RPLIPOS	5	08	3
RPLIRSET	5	20	3
RPLISET	5	80	3
RPLITST	5	40	3
RPLKEEP	63	40	5
RPLKEY	29	80	5
RPLKEYL	10		4
RPLKEYLE	10		3
RPLKGE	28	04	5
RPLLAST	2	20	3
RPLLEN	3		4
RPLLEN2	3		5
RPLLGFRFC	F	04	8
RPLLMPEO	1	01	3
RPLLOC	28	80	5
RPLLOCK	39	04	5
RPLLOGON	60	80	5
RPLLRD	29	08	5
RPLLUS	6	20	4
RPLMIDDLE	2	40	3
RPLMKFRM	2B	40	5
RPLMTS	62	04	5
RPLNCOND	39	08	5
RPLNERAS	38	10	6
RPLNEXIT	44	40	5
RPLNFME	4	02	4
RPLNFSYN	1	04	4
RPLNIB	44	04	5
RPLNIBTK	63	10	5
RPLNODE	38	02	5
RPLNSP	29	01	5
RPLNXTRP	2C		3
RPLOBSQ	4		2
RPLOBSQV	0		2
RPLODACP	3B	40	5
RPLODACQ	3B	80	5
RPLODPRM	3B	20	5
RPLOF16	0		1
RPLOF28	0		1
RPLOF56	0		1
RPLOF57	0		1
RPLOF60	0		1
RPLOIGN	4	10	3

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
RPLOINV	4	02	3	RPLRSV88	3B	01	5
RPLONEG	4	04	3	RPLRTNCD	D		5
RPLONLY	2	10	3	RPLRTR	6	40	4
RPLOPOS	4	08	3	RPLRTYPE	1	08	3
RPLOPTCD	28		3	RPLRVID	E	40	8
RPLOPTC2	38		3	RPLSAF	24		4
RPLOPTC3	60		3	RPLSAV13	68		3
RPLOPT1	28		4	RPLSBI	6	02	4
RPLOPT10	61		4	RPLSCHED	4	80	4
RPLOPT11	62		4	RPLSDT	7	80	4
RPLOPT12	63		4	RPLSENOP	61	01	5
RPLOPT2	29		4	RPLSEQ	28	20	5
RPLOPT3	2A		4	RPLSEQNO	6		2
RPLOPT4	2B		4	RPLSESS	3B	08	5
RPLOPT5	38		4	RPLSFORM	2A	40	5
RPLOPT6	39		4	RPLSHUTC	7	08	4
RPLOPT7	3A		4	RPLSHUTD	7	10	4
RPLOPT8	3B		4	RPLSIGDA	6C		3
RPLOPT9	60		4	RPLSIGNL	6	10	4
RPLORSET	4	20	3	RPLSKP	28	10	5
RPLOSENS	64		3	RPLSONCD	3		3
RPLOSET	4	80	3	RPLSONOP	61	02	5
RPLOTST	4	40	3	RPLSPARM	61	20	5
RPLO5	0		2	RPLSRESP	1	80	4
RPLO6	0		2	RPLSRTYP	1		2
RPLO7	1		2	RPLSSEI	58		7
RPLO8	2		2	RPLSSEO	64		5
RPLPATHI	58	80	8	RPLSSMI	59		7
RPLPEND	3B	10	5	RPLSSMO	65		5
RPLPLHPT	4		3	RPLSSNSI	58		4
RPLPOST	8	40	4	RPLSSNSO	64		4
RPLPOSTV	4	80	3	RPLSTART	62	40	5
RPLPSOPT	38	20	5	RPLSTAT	C		4
RPLQALL	63	02	5	RPLSTATI	58	20	8
RPLQC	5	20	4	RPLSTATO	64	20	6
RPLQEC	5	10	4	RPLSTOP	62	20	5
RPLQI	5	02	4	RPLSTRID	12		3
RPLQNOTE	63	04	5	RPLSTSAV	E	01	8
RPLQOPT	3A	10	5	RPLSTSN	7	20	4
RPLQRI	4	08	4	RPLSTYP	1		4
RPLQSESS	63	08	5	RPLSTYPE	1	80	3
RPLQUIES	62	80	5	RPLSV32	F	40	8
RPLRBAR	3C		3	RPLSWTCH	7	01	4
RPLRDSOH	F	01	8	RPLTBIND	6	08	4
RPLRELQ	5	04	4	RPLTCBPT	1C		3
RPLREOB	F	20	8	RPLTCRNO	3A	02	5
RPLREOM	F	10	8	RPLTCRYP	44	08	5
RPLREOT	F	08	8	RPLTERMS	60	20	5
RPLREQ	2		4	RPLTLGAC	3	08	3
RPLRESP	4	08	3	RPLTNDSP	3	10	3
RPLRH3	0		2	RPLTNFY	0	40	3
RPLRLEN	30		3	RPLTOPL	60	01	5
RPLRLG	F	02	8	RPLTPOST	3A	08	5
RPLRLSOP	3A	04	5	RPLTRUNC	63	20	5
RPLRNNM	60	04	5	RPLTSKY	61	10	5
RPLRQR	7	04	4	RPLTUNBD	6	04	4
RPLRRESP	1	08	4	RPLUINPT	F	80	8
RPLRRI	58	08	8	RPLUNBND	61	04	5
RPLRRN	4	01	4	RPLUNCON	3B	02	5
RPLRRO	64	08	6	RPLUNTYP	39	80	5
RPLRSHUT	7	02	4	RPLUPD	29	02	5
RPLRSPNM	3	02	3	RPLURH	0		3
RPLRSPQD	63	80	5	RPLUSERH	0		2
RPLRSPQR	3	01	3	RPLUSFLD	5C		3
RPLRSV67	39	02	5	RPLUSNSI	5A		4
RPLRSV68	39	01	5	RPLUSNSO	66		4
RPLRSV78	3A	01	5	RPLUSRRH	2	01	3

Name	Hex Offset	Hex Value	Level
RPLUSVAR	61	08	5
RPLVACS	2	08	3
RPLVFX	2A	10	5
RPLVTEXT	4C		2
RPLVTFL1	3		2
RPLVTFL2	4		2
RPLVTUSE	3	40	3
RPLWAIT	8	80	4
RPLWAITX	29	04	5
RPLWROPT	38	01	5
RPLWRTP	38	10	5
RPL6ACTV	45		3
RPL6AREA	0		2
RPL6AVFA	42	08	5
RPL6CBID	0		3
RPL6CCST	44		3
RPL6CD	2C	40	5
RPL6CFTX	2C	08	5
RPL6CLSA	42	10	5
RPL6CMOD	2E	08	5
RPL6CNVD	8		3
RPL6DEB	58		3
RPL6DERC	2E	40	5
RPL6DETP	46		3
RPL6END	70		3
RPL6FILL	2C	80	5
RPL6FLGS	2C		3
RPL6FLG1	2C		4
RPL6FLG2	2D		4
RPL6FLG3	2E		4
RPL6FLG4	2F		4
RPL6LAST	2E	02	5
RPL6LOCK	2E	80	5
RPL6LU	30		3
RPL6MH5L	43		3
RPL6MID	48		4
RPL6MODE	38		3
RPL6QUAL	5		3
RPL6RC	28		3
RPL6RCPR	28		4
RPL6RCSC	2A		4
RPL6RCV1	40		4
RPL6RCV2	41		4
RPL6REQ	4		3
RPL6RLOG	42	40	4
RPL6RMH5	42	80	4
RPL6RPL	4C		3
RPL6RSIG	42	20	4
RPL6RTUN	42		3
RPL6SECL	42	10	4
RPL6SGNL	18		3
RPL6SIDL	1C		3
RPL6SLS	2C	10	5
RPL6SNSI	14		3
RPL6SNSO	10		3
RPL6SSID	20		3
RPL6STBF	50		3
RPL6STDS	54		3
RPL6TID	48		3
RPL6TIX	4A		4
RPL6TYPE	2D	08	5
RPL6USR	C		3
RPL6WCFM	40	08	5
RPL6WDAC	40	40	5
RPL6WDAI	40	20	5
RPL6WDAL	40	04	5
RPL6WDAT	40	80	5

Name	Hex Offset	Hex Value	Level
RPL6WHAT	40		3
RPL6WLOG	40	02	5
RPL6WPSH	40	01	5
RPL6WPSI	41	80	5
RPL6WSND	40	10	5

## Request Parameter List - LU 6.2 Extension (RPL6X)

<b>Function:</b>	The RPL6X is an RPL extension that describes most of the LU 6.2 requests and error feedback information that only LU 6.2 uses. It is called by the RPL VTAM extension macro (ISTRPLEX) when the AM=VTAM parameter is coded on the macro called (IFGRPL AM=VTAM).
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	112 (X'70')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	112	ISTRPL6X	START OF APPC EXTENSION
0	(0)	CHARACTER	112	RPL6AREA	
0	(0)	CHARACTER	4	RPL6CBID	CONTROL BLOCK IDENTIFIER
4	(4)	BITSTRING	1	RPL6REQ	CONTROL VALUE OF APPCCMD
5	(5)	BITSTRING	1	RPL6QUAL	QUALIFY VALUE OF APPCCMD
6	(6)	CHARACTER	2	*	NOT USED
8	(8)	UNSIGNED	4	RPL6CNVD	CONVERSATION ID
12	(C)	BITSTRING	4	RPL6USR	USER FIELD
16	(10)	BITSTRING	4	RPL6SNSO	SENSE DATA SPECIFIED ON APPCCMD
20	(14)	BITSTRING	4	RPL6SNSI	SENSE DATA RETURNED BY APPCCMD
24	(18)	BITSTRING	4	RPL6SGNL	SIGNAL DATA RETURNED ON ALL APPCCMDS IF SIGRCV=YES, RESERVED IF SIGRCV = NO
28	(1C)	UNSIGNED	1	RPL6SIDL	LENGTH OF SESSION ID
29	(1D)	BITSTRING	3	*	NOT USED
32	(20)	BITSTRING	8	RPL6SSID	SESSION IDENTIFICATION
40	(28)	CHARACTER	4	RPL6RC	RPL6 RETURN CODES
40	(28)	BITSTRING	2	RPL6RCPR	PRIMARY RETURN CODE
42	(2A)	BITSTRING	2	RPL6RCSC	SECONDARY RETURN CODE
44	(2C)	BITSTRING	4	RPL6FLGS	ALL INDICATORS SPECIFIC TO VTAM'S APPCCMD MACRO
44	(2C)	BITSTRING	1	RPL6FLG1	FIRST INDICATORS BYTE
		1... ....		RPL6FILL	FILL INDICATOR '0'B = "FILL=BUFF" '1'B = "FILL=LL"
		.1. ....		RPL6CD	CD INDICATOR '0'B = "CD=IMMED" '1'B = "CD=DEFER"
		..1. ....		*	NOT USED
		...1 ....		RPL6SLS	PARTNER LU VERIFIED '1'B = "VERIFIED" '0'B = "NOT VERIFIED"
		.... 1..		RPL6CFTX	CONFTXT INDICATOR '1'B = "CONFTXT=YES" '0'B = "CONFTXT=NO"
		.... .111		*	NOT USED
45	(2D)	BITSTRING	1	RPL6FLG2	SECOND INDICATORS BYTE
		1111 ....		*	NOT USED
		.... 11..		RPL6TYPE	TYPE INDICATOR
		.... ..11		*	NOT USED
46	(2E)	BITSTRING	1	RPL6FLG3	THIRD INDICATORS BYTE
		1... ....		RPL6LOCK	LOCKS INDICATOR '0'B = "LOCKS=LONG" '1'B = "LOCKS=SHORT"
		.11. ....		RPL6DERC	SESSION DEACTIVATION REASON CODE
		...1 ....		*	NOT USED
		.... 11..		RPL6CMOD	CONMODE INDICATOR
		.... ..11		RPL6LAST	LAST INDICATOR FOR ATTN LOSS EXIT
47	(2F)	BITSTRING	1	RPL6FLG4	FOURTH INDICATORS BYTE
47	(2F)	BITSTRING	1	*	NOT USED
48	(30)	CHARACTER	8	RPL6LU	NAME OF LU
56	(38)	CHARACTER	8	RPL6MODE	MODE NAME TO BE USED
64	(40)	BITSTRING	2	RPL6WHAT	"WHAT RECEIVED" INDICATOR RETURNED AT COMPLETION OF APPCCMD RECEIVE COMMAND
64	(40)	BITSTRING	1	RPL6RCV1	WHATRCV= DATA
		1... ....		RPL6WDAT	WHATRCV= DATA_COMPLETE
		.1. ....		RPL6WDAC	WHATRCV= DATA_INCOMPLETE
		..1. ....		RPL6WDAI	WHATRCV= SEND
		...1 ....		RPL6WSND	



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1...		RPL6WCFM	WHATRCV=CONFIRM
		.... .1..		RPL6WDAL	WHATRCV=DEALLOCATE
		.... ..1.		RPL6WLOG	WHATRCV=LOG_DATA
		.... ...1		RPL6WPSH	WHATRCV=PS_HEADER
65	(41)	BITSTRING	1	RPL6RCV2	
		1... ....		RPL6WPSI	WHATRCV=PARTIAL_PS_HEADER
		.111 1111		*	NOT USED
66	(42)	BITSTRING	1	RPL6RTUN	RETURNED INDICATORS AS A RESULT OF APPCCMD
		1... ....		RPL6RMH5	FMH5RCV INDICATOR
		.1.. ....		RPL6RLOG	LOGRCV INDICATOR
		..1. ....		RPL6RSIG	SIGRCV INDICATOR
		...1 11..		RPL6SECL	LU SECURITY
		...1 ....		RPL6CLSA	PARTNER LU ACCEPTS SECURITY SUBFIELDS ON FMH5
		.... 1...		RPL6AVFA	PARTNER LU ACCEPTS REQUESTS FOR ALREADY VERIFIED
		.... .1..		*	RESERVED
		.... ..11		*	NOT USED
67	(43)	UNSIGNED	1	RPL6MH5L	LENGTH OF THE FMH5 RECEIVED
68	(44)	UNSIGNED	1	RPL6CCST	CURRENT CONVERSATION STATE
69	(45)	BITSTRING	1	RPL6ACTV	RPL6 ACTIVE INDICATOR X'FF'=ACTIVE X'00'=INACTIVE
70	(46)	BITSTRING	1	RPL6DETP	SESSION DEACTIVATION TYPE CODE
71	(47)	CHARACTER	1	*	NOT USED
72	(48)	ADDRESS	4	RPL6TID	TASK ID (THE SUBLEVEL NAMES ARE REFERENCED BY VM SYSTEM)
72	(48)	SIGNED	2	RPL6MID	MACHINE ID
74	(4A)	SIGNED	2	RPL6TIX	TASK INDEX OF CURRENTLY EXECUTING TASK
76	(4C)	ADDRESS	4	RPL6RPL	POINTER BACK TO THE RPL
80	(50)	ADDRESS	4	RPL6STBF	POINTER TO CURRENT BUFFER AT STORAGE SHORTAGE
84	(54)	ADDRESS	4	RPL6STDS	CURRENT DISPLACEMENT IN BUFFER AT STORAGE SHORTAGE
88	(58)	ADDRESS	4	RPL6DEB	(DOS ONLY) THIS FIELD REPLACES THE C6RPLDEB FIELD IN THE CRPL6. IT CONTAINS THE ACDEB ADDRESS AND IS FOR VTAM'S INTERNAL USE ONLY.
92	(5C)	CHARACTER	20	*	RESERVED

NOTE: THE LAST 8 BYTES OF THE RPL6 PASSED IN THE ATTENTION EXIT IS USED TO CONTAIN THE COPY OF THE SLCNS STRUCTURE. CHANGES WILL BE REQUIRED IF THIS AREA IN THE RPL6 IS ASSIGNED, OR IF THE LENGTH OF THE SLCNS STRUCTURE EXCEEDS 8 BYTES.

112	(70)	CHARACTER	RPL6END	END OF RPL6
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### Constants

Len	Type	Value	Name	Description
THE FOLLOWING CONSTANT VALUES ARE THOSE SPECIFIED IN THE EXPEDITED DATA FLOW CONTROL RU "SIGNAL".				
4	HEX	00010001	RPL6SIG1	SIGNAL DATA RETURNED TO APPLICATION
THE FOLLOWING CONSTANT IS DEFINED AS A SYMBOLIC REFERENCE TO THE APPC CONTROL BLOCK ID (RPL6).				
4	CHARACTER	APPC	RPL6ID	APPC CONTROL BLOCK ID
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6REQ. THEY REPRESENT THE "CONTROL=" VALUE.				
1	HEX	10	RPL6ALLC	ALLOC
1	HEX	20	RPL6RSRV	RESETRCV
1	HEX	30	RPL6DEAL	DEALLOC
1	HEX	40	RPL6OPER	OPRCNTL
1	HEX	50	RPL6PREC	PREPRCV
1	HEX	60	RPL6RFH5	RCVFMH5
1	HEX	70	RPL6RCV	RECEIVE
1	HEX	80	RPL6RJCT	REJECT
1	HEX	90	RPL6SEND	SEND

Len	Type	Value	Name	Description
1	HEX	A0	RPL6SETS	SETSESS
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6QUAL. THEY REPRESENT THE "QUALIFY=" VALUE.				
1	HEX	00	RPL6NQUA	UNDEFINED QUALIFY
1	HEX	01	RPL6APRG	ABNDPROG
1	HEX	02	RPL6ASRV	ABNDSERV
1	HEX	03	RPL6ATIM	ABNDTIME
1	HEX	04	RPL6AUSR	ABNDUSER
1	HEX	05	RPL6ANY	ANY
1	HEX	06	RPL6CNOS	CNOS
1	HEX	07	RPL6CFRM	CONFIRM
1	HEX	08	RPL6CFMD	CONFRMD
1	HEX	09	RPL6DATA	DATA
1	HEX	0A	RPL6DCON	DATACON
1	HEX	0B	RPL6DFLU	DATAFLU
1	HEX	0C	RPL6DFIN	DEFINE
1	HEX	0D	RPL6DSPY	DISPLAY
1	HEX	0E	RPL6ERR	ERROR
1	HEX	0F	RPL6FLSH	FLUSH
1	HEX	10	RPL6RQSD	RQSEND
1	HEX	11	RPL6SPEC	SPEC
1	HEX	12	RPL6ACT	ACTSESS
1	HEX	13	RPL6DACT	DACTSESS
1	HEX	14	RPL6ALCD	ALLOCD
1	HEX	15	RPL6IMED	IMMED
1	HEX	16	RPL6CWIN	CONWIN
1	HEX	17	RPL6SESN	SESSION
1	HEX	18	RPL6CONV	CONV
1	HEX	19	RPL6SUSP	SUSPEND
1	HEX	1A	RPL6RESM	RESUME
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6FILL. THEY REPRESENT THE "FILL=" VALUE.				
0	BIT	0	RPL6BUFF	BUFF
0	BIT	1	RPL6LL	LL
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6CD THEY REPRESENT THE "CD=" VALUE				
0	BIT	0	RPL6CDIM	"CD=IMMED"
0	BIT	1	RPL6CDDE	"CD=DEFER"
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6CFTX. THEY REPRESENT THE "CONFXT=" VALUE.				
0	BIT	1	RPL6CFT	YES
0	BIT	0	RPL6NCFT	NO
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6TYPE. THEY REPRESENT THE "TYPE=" VALUE.				
0	BIT	11	RPL6USER	USER
0	BIT	01	RPL6PRGM	PROGRAM
0	BIT	10	RPL6SVC	SERVICE
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6LOCK. THEY REPRESENT THE "LOCKS=" VALUE.				
0	BIT	0	RPL6LONG	LONG
0	BIT	1	RPL6SHRT	SHORT
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6DERC.				
0	BIT	00	RPL6RNRM	NORMAL
0	BIT	10	RPL6RABN	ABNORMAL
0	BIT	11	RPL6RANR	ABNORMAL, NO RETRY
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6CMOD. THEY REPRESENT THE "CONMODE=" VALUE.				
0	BIT	00	RPL6LLCA	LLCA
0	BIT	01	RPL6BFCA	BUFFCA
0	BIT	10	RPL6CS	CS

Len	Type	Value	Name	Description
0	BIT	11	RPL6SAME	SAME
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6LAST.				
0	BIT	00	RPL6NLST	SESSIONS EXIST FOR THE SPECIFIED MODE
0	BIT	01	RPL6LMOD	LAST SESSION DEACTIVATED FOR THE SPECIFIED MODE
0	BIT	10	RPL6NCTL	LAST SESSION DEACTIVATED FOR NON-CONTROL MODES
0	BIT	11	RPL6ALL	ALL SESSIONS FOR THIS LU HAVE BEEN DEACTIVATED
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6CCST. THEY REPRESENT THE CURRENT CONVERSATION STATE.				
1	DECIMAL	0	RPL6RSET	RESET
1	DECIMAL	1	RPL6SND	SEND
1	DECIMAL	2	RPL6RECV	RECEIVE
1	DECIMAL	3	RPL6RVCF	RECEIVE CONFIRM
1	DECIMAL	4	RPL6RVCS	RECEIVE CONFIRM SEND
1	DECIMAL	5	RPL6RVCD	RECEIVE CONFIRM DEALLOCATE
1	DECIMAL	6	RPL6PNDD	PEND DEALLOCATE
1	DECIMAL	7	RPL6PECL	PEND END CONVESATION LOG
1	DECIMAL	8	RPL6ENDC	END CONVERSATION
1	DECIMAL	9	RPL6PNDS	PENDING SEND
1	DECIMAL	10	RPL6PRVL	PENDING RCV LOG
THE FOLLOWING CONSTANT VALUES WILL BE RECORDED IN RPL6DETP. THEY REPRESENT THE "DEACTYP=" VALUE.				
1	HEX	0F	RPL6TCLP	CLEANUP
1	HEX	FE	RPL6TPVL	PROTOCOL VIOLATION

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRPL6X	0		1	RPL6REQ	4		3
RPL6ACTV	45		3	RPL6RLOG	42	40	4
RPL6AREA	0		2	RPL6RMH5	42	80	4
RPL6AVFA	42	08	5	RPL6RPL	4C		3
RPL6CBID	0		3	RPL6RSIG	42	20	4
RPL6CCST	44		3	RPL6RTUN	42		3
RPL6CD	2C	40	5	RPL6SECL	42	10	4
RPL6CFTX	2C	08	5	RPL6SGNL	18		3
RPL6CLSA	42	10	5	RPL6SIDL	1C		3
RPL6CMOD	2E	08	5	RPL6SLS	2C	10	5
RPL6CNVD	8		3	RPL6SNSI	14		3
RPL6DEB	58		3	RPL6SNSO	10		3
RPL6DERC	2E	40	5	RPL6SSID	20		3
RPL6DETP	46		3	RPL6STBF	50		3
RPL6END	70		3	RPL6STDS	54		3
RPL6FILL	2C	80	5	RPL6TID	48		3
RPL6FLGS	2C		3	RPL6TIX	4A		4
RPL6FLG1	2C		4	RPL6TYPE	2D	08	5
RPL6FLG2	2D		4	RPL6USR	C		3
RPL6FLG3	2E		4	RPL6WCFM	40	08	5
RPL6FLG4	2F		4	RPL6WDAC	40	40	5
RPL6LAST	2E	02	5	RPL6WDAL	40	20	5
RPL6LOCK	2E	80	5	RPL6WDAL	40	04	5
RPL6LU	30		3	RPL6WDAT	40	80	5
RPL6MH5L	43		3	RPL6WHAT	40		3
RPL6MID	48		4	RPL6WLOG	40	02	5
RPL6MODE	38		3	RPL6WPSH	40	01	5
RPL6QUAL	5		3	RPL6WPSI	41	80	5
RPL6RC	28		3	RPL6WSND	40	10	5
RPL6RCPR	28		4				
RPL6RCSC	2A		4				
RPL6RCV1	40		4				
RPL6RCV2	41		4				

## Resource Resolution Table (RRT)

<b>Function:</b>	The RRT contains the node addresses provided by the NCP. This table is not generated by VTAM, but results from an NCP generation. Network definition stores the addresses in the RDT entry for each node.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	RNCRRT (RNCA)
<b>Additional Notes:</b>	The RRT is loaded and available only during NCP activation. It is deleted when NCP activation is complete.  An RRT contains a header segment consisting of entries. Each entry points to a segment identified in that entry as a resource segment, resource segment extension, or system segment. All these segments are contiguous and together make up the RRT.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	10	ISTRRT	RESOURCE RESOLUTION TABLE	
0	(0)	SIGNED	2	RRTHDRLN	LENGTH OF HEADER DATA	
2	(2)	SIGNED	2	RRTKEYLN	HOST UNIT SIZE	
4	(4)	ADDRESS	1	RRTUNITN	NUMBER OF UNITS IN HOST BUFFER	
5	(5)	ADDRESS	1	RRTUNITR	NUMBER OF 3705 UNITS INITIALLY ALLOCATED FOR DATA TRANSFER FROM THE HOST	
6	(6)	ADDRESS	1	RRTKEYLR	3705 UNIT SIZE	
7	(7)	ADDRESS	1	RRTHDRPD	HEADER PREFIX PADDING SIZE	
8	(8)	ADDRESS	1	RRTEXTPD	TEXT PREFIX PADDING SIZE	
9	(9)	ADDRESS	1	RRTNODEL	SYSTEM NODE LENGTH	

COMMON PREFIX FOR THE HEADER OF EACH SEGMENT IN THE RESOURCE RESOLUTION TABLE

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	10	ISTRRTH	RRT COMMON HEADER PREFIX	
0	(0)	BITSTRING	1	RRTSGTYP	SEGMENT TYPE	
1	(1)	UNSIGNED	1	RRTHDRSZ	HEADER SIZE IN BYTES	
2	(2)	SIGNED	2	RRTCOUNT	NUMBER OF ENTRIES IN SEGMENT	
4	(4)	SIGNED	4	RRTSGSZ	SEGMENT SIZE IN BYTES	
8	(8)	SIGNED	2	RRTENTSZ	SIZE OF EACH ENTRY IN BYTES	

HEADER SEGMENT IN RRT, WHICH SERVES AS A DIRECTORY TO RRT. ENTRIES IDENTIFY OTHER SEGMENTS IN THE RRT, AND OFFSET FROM ORIGIN OF THE RRT

0	(0)	STRUCTURE	10	ISTHDR	HEADER SEGMENT HEADER
0	(0)	CHARACTER	10	HDRPFX	COMMON PREFIX
10	(A)	CHARACTER	*	HDRUNIQ	HEADER UNIQUE PREFIX (IF ANY)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	6	ISTHDRE	ENTRY IN HEADER SEGMENT	
0	(0)	BITSTRING	1	HDRSEGID	IDENTIFIER OF SEGMENT	
1	(1)	SIGNED	4	HDOFFST	OFFSET TO SEGMENT (FROM RRT)	
5	(5)	BITSTRING	1	HDRRSV	RESERVED - NOT AVAILABLE	

SYSTEM SEGMENT

0	(0)	STRUCTURE	10	ISTSSH	SYSTEM SEGMENT HEADER
0	(0)	CHARACTER	10	SSHHPFX	COMMON PREFIX
10	(A)	CHARACTER	*	SSHUNIQ	HEADER UNIQUE PREFIX (IF ANY)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	39	ISTSSHDE	ENTRY IN SYSTEM SEGMENT	
0	(0)	CHARACTER	2	SSHRLEV	RELEASE LEVEL	
2	(2)	CHARACTER	2	SSHMLEV	MODIFICATION LEVEL	
4	(4)	CHARACTER	2	SSHTPGEN	TYPE OF GENERATION	
6	(6)	CHARACTER	2	SSHNCPSA	NCP SUBAREA	
8	(8)	CHARACTER	2	SSHSIDL	SUBAREA ID LENGTH	
10	(A)	UNSIGNED	2	SSHNCPBS	NCP BUFFER SIZE	
12	(C)	CHARACTER	2	SSH2BYTE	TWO EXTRA BYTES IN THE SYSTEM SEGMENT	
		1... ..		SSHTYPE	1 = NOT A 3705	
12	(C)	BITSTRING	1	*	RESERVED	
14	(E)	CHARACTER	8	SSHNEWM	NEWNAME VALUE	
22	(16)	CHARACTER	17	SSHLMCOR	LOAD MODULE CORRELATOR	

MACRO/KEYWORDS SEGMENT

THE MACRO/KEYWORDS SEGMENT OF THE RRT HAS ONE ENTRY FOR EACH NCP MACRO. EACH ENTRY NAMES AN NCP MACRO AND THE NCP KEYWORDS THAT MAY BE CODED ON THAT MACRO. SYSDEF MAKES USE OF THIS SEGMENT DURING THE ACTIVATION OF NCP MAJOR NODES. IF SYSDEF ENCOUNTERS A MACRO OR KEYWORD THAT IT DOES NOT RECOGNIZE AS A VALID MACRO OR KEYWORD IN AN NCP DEFINITION, IT WILL ISSUE AN ERROR MESSAGE UNLESS THAT MACRO OR KEYWORD IS RECORDED IN THIS SEGMENT.

THE HEADER OF THE MACRO/KEYWORDS SEGMENT IS MAPPED BY ISTRRTH.

MACRO KEYWORDS SEGMENT ENTRIES

0	(0)	STRUCTURE	12	RRTMENT	
0	(0)	UNSIGNED	2	RRTMSIZE	SIZE OF ENTRY
2	(2)	UNSIGNED	2	RRTMOPCT	NUMBER OF KEYWORDS IN ENTRY
4	(4)	CHARACTER	8	RRTMMACN	MACRO NAME
12	(C)	CHARACTER	8	RRTMKWDN (*)	KEYWORDS FOR MACRO

RESOURCE SEGMENT

RESOURCE SEGMENT IN RRT, WHICH IDENTIFIES RESOURCES SPECIFIED IN THE NCP GENERATION

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	14	ISTRSC	RESOURCE SEGMENT HEADER	
0	(0)	CHARACTER	10	RSCPF	COMMON PREFIX	
10	(A)	SIGNED	2	RSCNSNA	NUMBER OF NON-SNA RESOURCES	
12	(C)	SIGNED	2	RSCTOTAL	TOTAL NUMBER OF RESOURCES	
14	(E)	CHARACTER	*	RSCUNIQ	RESOURCE UNIQUE PREFIX (IF ANY)	
0	(0)	STRUCTURE	12	ISTRTE	RESOURCE SEGMENT ENTRY	
0	(0)	CHARACTER	8	RRTERMN	NAME OF RESOURCE	
8	(8)	ADDRESS	2	RRTRSID	RESOURCE I.D. NETWORK ADDRESS FOR NON-ENA ELEMENT ADDRESS FOR ENA	
10	(A)	BITSTRING	2	RRTRMTYP	TYPE OF RESOURCE	
		1... ..		RRTLINE	RESOURCE IS A LINE	
		.1. ....		RRTDEVCE	RESOURCE IS A CLUSTER, TERMINAL, OR COMPONENT	
		..1. ....		RRTGROUP	RESOURCE IS A LOGICAL LINE GROUP (LINELIST)	
		...1 ....		RRTINPUT	DEVICE IS CAPABLE OF INPUT	
		.... 1..		RRTOUTPT	DEVICE IS CAPABLE OF OUTPUT	
		.... .1.		RRTSWTCH	SWITCHED TERMINAL	
		.... ..1.		RRTAUTOC	3705 CAN CALL THE DEVICE	
		.... ...1		RRTDVTYD	DEVICE TYPE DEPENDENT-2980 WITH ALTERNATE ADDRESSING	
		1... ..		RRTCLSTR	DEVICE IS A CLUSTER	
		.1. ....		RRTEDONE	RESOURCE PROCESSED	
		..11 1111		RRTRSV01	RESERVED - NOT AVAILABLE	

RESOURCE SEGMENT EXTENSION

RESOURCE SEGMENT EXTENSION. USED TO GIVE THE ACCESS METHODS KNOWLEDGE OF THE TGN FOR A PARTICULAR LINK STATION (NCP 7.2 OR LATER)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	ISTXRSC	RESOURCE SEGMENT HEADER
0	(0)	CHARACTER	10	XRSCPFIX	COMMON PREFIX
10	(A)	CHARACTER	*	XRSCUNIQ	RESOURCE UNIQUE PREFIX (IF ANY)

ISTRRTXE MAPS EACH ENTRY IN THE RESOURCE SEGMENT

0	(0)	STRUCTURE	13	ISTRRTXE	
0	(0)	CHARACTER	8	RRTXRSRC	NAME OF RESOURCE
8	(8)	ADDRESS	2	RRTXLSID	LOCAL LINK STATION ID -- NETWORK ADDRESS FOR NON-ENA ELEMENT ADDRESS FOR ENA
10	(A)	BITSTRING	1	RRTXTGN	TRANSMISSION GROUP NUMBER
11	(B)	CHARACTER	2	RRTRSV02	RESERVED - NOT AVAILABLE

Constants

Len	Type	Value	Name	Description
SEGMENT TYPE IDENTIFIER CONSTANTS				
FOLLOWING SEGMENT TYPE IDENTIFIERS ARE VALUES FOR RRTSGTYP.				
THE SAME VALUES ARE USED AS IDENTIFIERS IN HEADER SEGMENT ENTRIES				
1	HEX	00	RRTPRE6	PRE NCP 6.0 SEGMENT
1	HEX	01	RRTSYS	SYSTEM SEGMENT
1	HEX	02	RRTHOST	HOST SEGMENT
1	HEX	03	RRTPATH	PATH SEGMENT
1	HEX	04	RRTRSC	RESOURCE SEGMENT
1	HEX	05	RRTMACR	MACRO/KEYWORDS SEGMENT
1	HEX	07	RRTRSCX	RESOURCE SEGMENT EXTENSION
1	HEX	08	RRTERSC	ENA RESOURCE SEGMENT
1	HEX	0A	RRTERSCX	ENA RESOURCE SEGMENT EXTENSION
1	HEX	80	RRTHDR	HEADER SEGMENT
1	HEX	FF	RRTEND	LAST RRT SEGMENT

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
HDRFFST	1		2	RRTKEYLR	6		2
HDRPFX	0		2	RRTLIN	A	80	3
HDRRSV	5		2	RRTMENT	0		1
HDRSEGID	0		2	RRTMKWDN	C		2
HDRUNIQ	A		2	RRTMMACN	4		2
ISTHDR	0		1	RRTMOPCT	2		2
ISTHDRE	0		1	RRTMSIZE	0		2
ISTRRT	0		1	RRTNODEL	9		2
ISTRRTE	0		1	RRTOUTPT	A	08	3
ISTRRTH	0		1	RRTRMTYP	A		2
ISTRRTXE	0		1	RRTRSID	8		2
ISTRSC	0		1	RRTRSV01	B	20	3
ISTSSH	0		1	RRTRSV02	B		2
ISTSSHDE	0		1	RRTSGSZ	4		2
ISTXRSC	0		1	RRTSGTYP	0		2
RRTAUTOC	A	02	3	RRTSWTCH	A	04	3
RRTCLSTR	B	80	3	RRTUNITN	4		2
RRTCOUNT	2		2	RRTUNITR	5		2
RRTDEVCE	A	40	3	RRTXLSID	8		2
RRTDVTYD	A	01	3	RRTXRSRC	0		2
RRTEDONE	B	40	3	RRTXTGN	A		2
RRTENTSZ	8		2	RSCNSNA	A		2
RRTERMNM	0		2	RSCPFIX	0		2
RRTXTPD	8		2	RSCTOTAL	C		2
RRTGROUP	A	20	3	RSCUNIQ	E		2
RRTHDRLN	0		2	SSHLMCOR	16		2
RRTHDRPD	7		2	SSHMLEV	2		2
RRTHDRSZ	1		2	SSHNCPBS	A		2
RRTINPUT	A	10	3	SSHNCPSA	6		2
RRTKEYLN	2		2	SSHNEWNM	E		2

Name	Hex Offset	Hex Value	Level
SSHAFX	0		2
SSHRLEV	0		2
SSHSAIDL	8		2
SSHTPGEN	4		2
SSHTYPE	C	80	3
SSHUNIQ	A		2
SSH2BYTE	C		2
XRSCAFX	0		2
XRSCUNIQ	A		2

## Request/Response Unit Processing Element (RUPE)

<b>Function:</b>	The RUPE is the major work element for configuration services, logical unit services, and physical unit services, which use it to schedule an RU for processing.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	NCBHRUPE (NCB) - RUPEs that have not yet been processed NCBWRUPE (NCB) - RUPEs waiting for a response RCDRMPDT (RCDRM) - pending domain takedown complete RCDRMRP (RCDRM) - domain takedown complete STPLNTA (STPL) - notify RUPE
<b>Included Blocks:</b>	CPCB (RUPEPFX), RH (RUPERH), WTD (ISTRUPE)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	132	ISTRUPE	RU PROCESS ELEMENT
0	(0)	CHARACTER	64	RUPEPFX	CONTROL POINT CONTROL BLOCK PREFIX -- SEE CPCB

THE FOLLOWING STRUCTURE MUST COINCIDE WITH THE ISTCPCB

0	(0)	UNSIGNED	1	*	CPCB CONTROL BLOCK ID
1	(1)	UNSIGNED	1	*	CPCB CONTROL BLOCK LENGTH
2	(2)	BITSTRING	1	*	CPCB FLAGS
3	(3)	UNSIGNED	1	*	CPCB RC FIELD
4	(4)	CHARACTER	12	*	OUTBOUND WTD
16	(10)	ADDRESS	4	*	CPCB HOW TO RETURN (SEE WTD)
20	(14)	ADDRESS	4	*	OVERLAY FOR INBOUND WTDTYPE
24	(18)	ADDRESS	4	*	CPCB POINTER TO CURRENT RPH (SEE WTD)
28	(1C)	BITSTRING	4	*	CPCB CONTROL OP CODE (SEE ISTCPK)
28	(1C)	BITSTRING	1	*	CPCB CATEGORY
29	(1D)	CHARACTER	3	RUPEORG	FIRST THREE BYTES OF ORIGIN FORMATTED REQUEST
32	(20)	ADDRESS	4	RUPEUSR	USER DATA (MAY USE TO CORRELATE REQUEST)
36	(24)	CHARACTER	17	*	CPCB URC RESERVED
53	(35)	CHARACTER	2	*	CPCB RESERVED
55	(37)	CHARACTER	9	RUPECON	CPCB CONSOLE ID OR POI HEADER

END OF STRUCTURE THAT MUST COINCIDE WITH THE ISTCPCB

64	(40)	ADDRESS	4	RUPEDAP RUPEOVWA	POINTER TO DATA AREA (ISTVWA) 1 = THIS RUPE OWNS THE DATA AREA (ISTVWA) POINTED TO BY RUPEDAP
68	(44)	CHARACTER	12	RUPECID	NETWORK ADDRESS PAIR (OAF DAF PAIR)
68	(44)	CHARACTER	6	RUPEOAF	ORIGIN (SENDER) OF REQUEST
68	(44)	SIGNED	4	RUPEOSAF	SUBAREA ADDRESS
72	(48)	SIGNED	2	RUPEOEAF	ELEMENT ADDRESS
74	(4A)	CHARACTER	6	RUPEDAF	DESTINATION (RECEIVER) OF REQUEST
74	(4A)	SIGNED	4	RUPEDSAF	SUBAREA ADDRESS
78	(4E)	SIGNED	2	RUPEDEAF	ELEMENT ADDRESS
80	(50)	UNSIGNED	2	RUPECEID	CONNECTION ELEMENT ID FOR OPEN/CLOSE
82	(52)	UNSIGNED	2	RUPESEQ	SEQUENCE NUMBER OF REQUEST UNIT
84	(54)	CHARACTER	2	RUPEFLAF	FLAG BITS
		1... ....		RUPECMP	COMPATIBLE LOGON USED
		1... ....		RUPEMG7	SEND USS MESSAGE 7 (NSPE)
		.1. ....		RUPEDIP	DACTLU IN PROGRESS: USED TO DIFFERENTIATE BETWEEN A NEW DACTLU REQUEST AND ONE THAT HAS BEEN TPQUED TO THE LUS PAB TO ASSURE SERVICE MANAGER WORK COMPLETED
		..1. ....		RUPEINTR	PLU NAME HAS BEEN INTERPRETED
		...1 ....		RUPEUNXR	RUPE IS FOR AN UNEXPECTED RESPONSE (NO MATCHING WRE WAS FOUND WHEN PVI RECEIVED THE RESPONSE)
		.... 1...		*	NOT USED - AVAILABLE
		.... .1..		RUPEPVIC	PVI WILL CONCATENATE EVENT ID CONTAINED IN CPCBURC



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ..1.		RUPENPU	REQUESTOR IS NON-PRIVILEGED USER
		.... ...1		RUPESLFL	INIT/TERM SELF
		1... ....		RUPENOM	NO LOGON FAILED MESSAGE
		.111 1111		*	NOT USED - AVAILABLE
86	(56)	CHARACTER	3	RUPERH	REQUEST/RESPONSE HEADER
89	(59)	CHARACTER	3	*	NOT USED - AVAILABLE
92	(5C)	ADDRESS	4	RUPERQP	POINTER TO REQUEST UNIT DATA
		1... ....		RUPEORQ	1 = THIS RUPE OWNS THE REQUEST UNIT DATA AREA POINTED TO BY RUPERQP
96	(60)	ADDRESS	4	RUPERSP	POINTER TO RESPONSE UNIT DATA
		1... ....		RUPEORS	1 = THIS RUPE OWNS THE RESPONSE UNIT DATA AREA POINTED TO BY RUPERSP
100	(64)	CHARACTER	4	RUPESEN	SENSE DATA (OUTPUT OF PROCESSOR)
100	(64)	UNSIGNED	2	RUPESNS	SYSTEM SENSE DATA
100	(64)	UNSIGNED	1	RUPESS1	SYSTEM SENSE BYTE 1
101	(65)	UNSIGNED	1	RUPESS2	SYSTEM SENSE BYTE 2
102	(66)	UNSIGNED	2	RUPEUSD	USER SENSE DATA
104	(68)	ADDRESS	4	RUPEWAP	POINTER TO WORK AREA (ISTCPWA) USS
		1... ....		RUPEOWNR	THIS RUPE OWNS CPWA
108	(6C)	UNSIGNED	1	RUPECLAS	PACING CLASS
109	(6D)	UNSIGNED	1	*	RESERVED
110	(6E)	CHARACTER	2	*	NOT USED - AVAILABLE
112	(70)	ADDRESS	4	RUPEVCTR	POINTER TO THE FIRST CONTROL VECTOR IN THE RUPE
116	(74)	ADDRESS	4	RUPEARP	POINTER TO ASSOCIATED RUPE (FOR RESPONSE)
120	(78)	ADDRESS	4	RUPEASUB	POINTER TO ADJACENT PU SUBAREA
120	(78)	ADDRESS	4	RUPEERPL	POINTER TO EXTENDED ROUTER PARAMETER LIST
124	(7C)	CHARACTER	2	RUPEVRID	VIRTUAL ROUTE IDENTIFIER
124	(7C)	UNSIGNED	1	RUPEVRN	VIRTUAL ROUTE NUMBER
125	(7D)	UNSIGNED	1	RUPETPI	TRANSMISSION PRIORITY INDICATION
126	(7E)	UNSIGNED	1	RUPEERN	ER NUMBER THAT RU ARRIVED PAD TO WORK MULTIPLE
127	(7F)	CHARACTER	1	RUPEFLGS	FLAG BITS
		1... ....		RUPENSPE	FORMAT 0 INITIATE SELF-- SEND NSPE
		.1.. ....		RUPEUSS	USS AND CPWA IS ALLOCATED
		..1. ....		RUPESKPO	TURNED ON TO PREVENT ISTINCS1 FROM SENDING A USS MESSAGE 0
		...1 ....		RUPESCID	SECONDARY HALF SESSION
		.... 1...		RUPESAVD	INDICATES THE RU DATABASE HAS BEEN SAVED.
		.... .1..		RUPECNM	ROUTE RU TO CNM APPL
		.... ..11		*	NOT USED--AVAILABLE
128	(80)	UNSIGNED	4	RUPEGCID	GENERATED CID PASSED TO APPLICATION
132	(84)	CHARACTER	*	RUPEXTRA	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2	RUPEREQ	REQUEST UNIT DATA AREA: POINTED TO BY RUPERQP
0	(0)	UNSIGNED	2	RUPERQL	LENGTH OF RUPERQD (RU DATA LENGTH)
2	(2)	CHARACTER	*	RUPERQD	DATA FROM REQUEST UNIT
0	(0)	STRUCTURE	2	RUPERES	RESPONSE UNIT DATA AREA: POINTED TO BY RUPERSP
0	(0)	UNSIGNED	2	RUPERSL	LENGTH OF RUPERSD (RU DATA LENGTH)
2	(2)	CHARACTER	*	RUPERSD	DATA FROM RESPONSE UNIT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	31	RUPEPRM	GETRUPE/FREERUPE PARAMETER FIELD BASED ON RUPEDAP, RUPEWAP, RUPERQP, RUPERSP
		1... ....		RUPEOPRM	IF SET SPACE OWNED BY ISTCPCGR

## Constants

Len	Type	Value	Name	Description
1	HEX	54	RUPEID	ISTRUPE CONTROL BLOCK ID

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRUPE	0		1	RUPEUSS	7F	40	3
RUPEARP	74		2	RUPEVCTR	70		2
RUPEASUB	78		2	RUPEVRID	7C		2
RUPECEID	50		2	RUPEVRN	7C		3
RUPECID	44		2	RUPEWAP	68		2
RUPECLAS	6C		2	RUPEXTRA	84		2
RUPECMP	54	80	3				
RUPECNM	7F	04	3				
RUPECON	37		3				
RUPEDAF	4A		3				
RUPEDAP	40		2				
RUPEDEAF	4E		4				
RUPEDIP	54	40	3				
RUPEDSAF	4A		4				
RUPEERN	7E		2				
RUPEERPL	78		3				
RUPEFLAF	54		2				
RUPEFLGS	7F		2				
RUPEGCID	80		2				
RUPEINTR	54	20	3				
RUPEMG7	54	80	4				
RUPENOM	55	80	3				
RUPENPU	54	02	3				
RUPENSPE	7F	80	3				
RUPEOAF	44		3				
RUPEOEAF	48		4				
RUPEOPRM	0	80	2				
RUPEORG	1D		4				
RUPEORQ	5C	80	3				
RUPEORS	60	80	3				
RUPEOSAF	44		4				
RUPEOVWA	40	80	3				
RUPEOWNR	68	80	3				
RUPEPFX	0		2				
RUPEPRM	0		1				
RUPEPVIC	54	04	3				
RUPEREQ	0		1				
RUPERES	0		1				
RUPERH	56		2				
RUPERQD	2		2				
RUPERQL	0		2				
RUPERQP	5C		2				
RUPERSD	2		2				
RUPERSL	0		2				
RUPERSP	60		2				
RUPESAVD	7F	08	3				
RUPESCID	7F	10	3				
RUPESELF	54	01	3				
RUPESEN	64		2				
RUPESEQ	52		2				
RUPESKPO	7F	20	3				
RUPESNS	64		3				
RUPESS1	64		4				
RUPESS2	65		4				
RUPETPI	7D		3				
RUPEUNXR	54	10	3				
RUPEUSD	66		3				
RUPEUSR	20		3				

## Session Awareness Vector Table (SAWVT)

<b>Function:</b>	The SAWVT contains information used for session awareness (SAW) notification processing.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	59 (X'3B')
<b>Pointed to by:</b>	ATCSAWVT (ATCVT)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	59	ISTSAWVT	
0	(0)	CHARACTER	1	SAWFORM	SAW FORMAT
1	(1)	BITSTRING	1	SAWLEVEL	SAW LEVEL. IF ALL BITS ARE 0, THE LEVEL IS 1.
		1... ..		SAWLVLO2	INIT PENDING/FAILURE IS ACTIVE
		.1.. ..		SAWLVLBP	BIND PENDING IS ACTIVE
		..11 1111		SAWLVLXX	RESERVED
2	(2)	BITSTRING	1	SAWFLAGS	FLAG BYTES
		1... ..		SAWRDTTP	SCAN AT TOP OF RDT QUEUE
		.1.. ..		SAWSIBTP	SCAN AT TOP OF SIB QUEUE
		..1. ....		SAWRDTSP	RDT SCANNING SUSPENDED DUE TO LACK OF BUFFERS
		...1 ....		SAWSIBSP	SIB SCANNING SUSPENDED DUE TO LACK OF BUFFERS
		.... 1...		SAWNOBFR	OUT_OF_BUFFER FLAG
		.... .1..		SAWARMST	NLDM WARM-START IN PROGRESS
		.... ..1.		SAWRSTRT	SAW RESTART IN PROGRESS
		.... ...1		SAWCDRSP	CDRM SCANNING SUSPENDED FOR LACK OF BUFFERS
3	(3)	CHARACTER	3	*	NOT USED - AVAILABLE
6	(6)	SIGNED	2	SAWBUFNO	SEQUENCE NUMBER
8	(8)	ADDRESS	4	SAWRESUM	POINTER TO RDT OR SIB AT WHICH SCANNING WAS STOPPED
12	(C)	ADDRESS	4	SAWINPUT	POINTER TO FIRST BUFFER OF INPUT-BUFFER QUEUE
16	(10)	ADDRESS	4	SAWOUTPT	POINTER TO FIRST BUFFER OF OUTPUT-BUFFER QUEUE
20	(14)	ADDRESS	4	SAWINUSE	POINTER TO BUFFER BEING FORMATTED (OF SAW DATA)
24	(18)	ADDRESS	4	SAWADDQ	POINTER TO HEAD OF ADD TO OUTPUT QUEUE USED BY MGMT SVCS
28	(1C)	ADDRESS	4	SAWENDQ	POINTER TO THE TAIL OF THE ADD OUTPUT QUEUE USED BY MGMT SVCS
32	(20)	UNSIGNED	4	SAWADDCT	COUNT OF BUFFERS ON SAWADDQ
36	(24)	UNSIGNED	4	SAWOUTCT	COUNT OF BUFFERS ON SAWOUTPT
40	(28)	UNSIGNED	4	SAWPRCNT	PERCENTAGE OF SAW BUFFERS INUSE
44	(2C)	CHARACTER	8	SAWRDTNM	NAME OF THE RDT SEGMENT THAT SAWRESUM POINTS TO
52	(34)	CHARACTER	1	SAWHDTYP	HEADER TYPE OF THE SEGMENT SAWRESUM POINTS TO
53	(35)	CHARACTER	1	*	AVAILABLE
54	(36)	CHARACTER	5	SAWDATBF	BUFFER-ALLOCATION DATA SAVED FOR LATER USE
54	(36)	UNSIGNED	2	SAWDSSIZ	SIZE OF BUFFER
56	(38)	UNSIGNED	1	SAWDSNUM	NUMBER OF BUFFERS
57	(39)	BITSTRING	1	SAWSVLEV	LEVEL INDICATOR
58	(3A)	CHARACTER	1	SAWRUKEY	RU KEY (SUBTYPE CODE)

## Constants

Len	Type	Value	Name	Description
1	HEX	01	SAWFORM1	FORMAT 1
1	HEX	18	SAWFORM2	FORMAT 2 (CNM CONTROL RU CODE 18)

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSAWVT	0		1
SAWADDCT	20		2
SAWADDQ	18		2
SAWARMST	2	04	3
SAWBUFNO	6		2
SAWCDRSP	2	01	3
SAWDATBF	36		2
SAWDSNUM	38		3
SAWDSSIZ	36		3
SAWENDQ	1C		2
SAWFLAGS	2		2
SAWFORM	0		2
SAWHDTYP	34		2
SAWINPUT	C		2
SAWINUSE	14		2
SAWLEVEL	1		2
SAWLVLBP	1	40	3
SAWLVLXX	1	20	3
SAWLVL02	1	80	3
SAWNOBFR	2	08	3
SAWOUTCT	24		2
SAWOUTPT	10		2
SAWPRCNT	28		2
SAWRDTNM	2C		2
SAWRDTSP	2	20	3
SAWRDTTP	2	80	3
SAWRESUM	8		2
SAWRSTRT	2	02	3
SAWRUKEY	3A		3
SAWSIBSP	2	10	3
SAWSIBTP	2	40	3
SAWSVLEV	39		3

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## Storage Prefix (SCHDR)

<b>Function:</b>	SCHDR is the header for VTALLOD storage that was not allocated from common storage. See SMHDR for the mapping.
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## Extended SDLC Polling List Control Block (SCX)

<b>Function:</b>	SCX provides a VTAM mapping for the extended SDLC polling list control block.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	20 (X'14')
<b>Included Blocks:</b>	SPL (SCXSCB)
<b>Located in:</b>	HALCB (HALCUSCB)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	20	ISTSCX	SDLC POLLING LIST EXTENDED	
0	(0)	CHARACTER	12	SCXSCB	SDLC POLLING LIST	
12	(C)	CHARACTER	1	SCXCMDIN	COMMAND IN FIELD (SDLC CMD)	
13	(D)	CHARACTER	1	SCXRSV01	NOT USED - NOT AVAILABLE	
14	(E)	UNSIGNED	1	SCXCFRS	COUNT OF FRAMES SENT AND ACKNOWLEDGED	
15	(F)	UNSIGNED	1	SCXCRBUF	COUNT OF RECEIVE BUFFERS USED	
16	(10)	UNSIGNED	1	*	RESERVED	
17	(11)	CHARACTER	1	SCXRSV02	NOT USED - NOT AVAILABLE	
18	(12)	CHARACTER	2	SCXEXFCD	EXCEPTION FLAGS/CODE	
18	(12)	BITSTRING	1	SCXEXFLG	EXCEPTION FLAGS	
		1... ....		SCXERROR	ERROR INDICATOR 1 = ERROR OCCURRED - EXCEP- TION CODE INDICATES THE SPECIFIC REASON	
		.1.. ....		SCXLFNSI	1 = LAST FRAME CONTAINS NON-SEQUENCED INFOR- MATION	
		...1. ....		SCXSTRAN	1 = REMOTE STATION TRANSITION OCCURRED	
		...1 ....		SCXCIUSE	1 = CMDIN FIELD USED	
		.... 1..		SCXDOUT	1 = LINE IS OUTBOUND	
		.... .111		SCXRSV03	NOT USED - AVAILABLE	
19	(13)	UNSIGNED	1	SCXEXCOD	EXCEPTION CODE	
20	(14)	CHARACTER		SCXEND	END OF SPL EXTENDED	

### Constants

Len	Type	Value	Name	Description
COMMAND IN CODES				
1	HEX	17	SCXCMRIM	REQUEST INITIALIZATION MODE
1	HEX	17	SCXCMSIM	REQUEST INITIALIZATION
1	HEX	53	SCXCMDSC	DISC-DISCONNECT
1	HEX	53	SCXCMRD	REQUEST DISCONNECT
1	HEX	57	SCXCMRGA	REMOTE GO AHEAD
1	HEX	73	SCXCMUA	UNNUMBERED ACKNOWLEDGEMENT
1	HEX	93	SCXCMSNR	SET NORMAL RESPONSE MODE
1	HEX	97	SCXCMFR	FRAME REJECT
1	HEX	0B	SCXCMUI0	UNNUMBERED INFORMATION (UI) FRAME, POLLING/FINAL (P/F) FLAG = 0
1	HEX	1B	SCXCMUI1	UNNUMBERED INFORMATION (UI) FRAME, POLLING/FINAL (P/F) FLAG = 1
1	HEX	1F	SCXCMDM	DISCONNECT MODE
1	HEX	BF	SCXCMXID	EXCHANGE IDENTIFICATION
1	HEX	F3	SCXCMTST	TEST
EXCEPTION FLAGS				
1	HEX	80	SCXXERR	ERROR OCCURRED
1	HEX	50	SCXXNSCI	NON-SEQUENCED INFORMATION AND COMMAND IN FIELD USED
1	HEX	40	SCXXNSI	NON-SEQUENCED INFORMATION RECEIVED
1	HEX	20	SCXXTRAN	TRANSITION OCCURRED
1	HEX	10	SCXXCMDI	COMMAND IN FIELD USED
EXCEPTION CODES				

Len	Type	Value	Name	Description
1	HEX	01	SCXXITOA	IDLE TIMEOUT ON AUTOPOLL
1	HEX	02	SCXXITOR	IDLE TIMEOUT ON READ-PIU OR SENSE-SPL
1	HEX	04	SCXXNPRA	NON-PRODUCTIVE RECEIVE TIMEOUT ON AUTOPOLL
1	HEX	05	SCXXNPRR	NON-PRODUCTIVE RECEIVE TIMEOUT ON READ-PIU OR SENSE-SPL
1	HEX	08	SCXXSAR	SDLC ABORT RECEIVED
1	HEX	0B	SCXXUAR	UNEXPECTED SDLC ADDRESS RECEIVED
1	HEX	0C	SCXXSF	FRAME TOO SHORT (< 4 BYTES)
1	HEX	0E	SCXXFCSA	FCS BAD ON AUTOPOLL RSP
1	HEX	0F	SCXXFCSI	FCS BAD ON INTERMEDIATE FRAME
1	HEX	11	SCXXOR	OVERRUN
1	HEX	12	SCXXISB	INSUFFICIENT BUFFERS FOR RECEIVED FRAME
1	HEX	40	SCX21DIS	X.21 SHM DISCONNECTION
1	HEX	81	SCXXUR	UNDERRUN (ABORT SENT)
1	HEX	82	SCXXFAL	FRAMES ACKNOWLEDGED LESS THAN FRAMES SENT

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSCX	0		1
SCXCFRS	E		2
SCXCIUSE	12	10	4
SCXCMDIN	C		2
SCXCRBUF	F		2
SCXDOUT	12	08	4
SCXEND	14		2
SCXERROR	12	80	4
SCXEXCOD	13		3
SCXEXFCD	12		2
SCXEXFLG	12		3
SCXLFNSI	12	40	4
SCXRSV01	D		2
SCXRSV02	11		2
SCXRSV03	12	04	4
SCXSCB	0		2
SCXSTRAN	12	20	4

## Session Awareness Parameter List (SESAW)

<b>Function:</b>	The SESAW maps the session awareness parameter list, which is used to notify the session monitor or NetView that sessions have started and ended.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	40 (X'28')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	40	ISTSESAW	SESSION AWARENESS PARAMETER LIST
0	(0)	ADDRESS	4	SESAWCB	POINTER TO SESSION CONTROL BLOCK (SIB OR RDTE)
4	(4)	ADDRESS	4	SES31PTR	POINTER TO X'31' VECTOR
8	(8)	ADDRESS	4	SES35PTR	POINTER TO X'35' VECTOR
12	(C)	CHARACTER	4	SESFCTN	FUNCTION CODE
16	(10)	CHARACTER	1	SESTERME	SESSION TERMINATION CODE
17	(11)	BITSTRING	1	*	FLAGS
		1... ....		SEQSCAN	QUEUE SCANNING
		.111 1111		*	NOT USED - AVAILABLE
18	(12)	CHARACTER	1	*	NOT USED RESERVED
19	(13)	UNSIGNED	1	SESBILNG	BIND IMAGE LENGTH
20	(14)	ADDRESS	4	SESBIPTR	BIND IMAGE PTR
24	(18)	CHARACTER	8	SESPLUNM	PRIMARY LOGICAL UNIT
32	(20)	CHARACTER	8	SESSLUNM	SECONDARY LOGICAL UNIT

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR FUNCTION CODE (SESFCTN)				
4	HEX	00000001	SESFSACT	SESSION START
4	HEX	00000011	SESFBNBND	BIND FAILURE
4	HEX	00000002	SESFSDCT	SESSION END
4	HEX	00000004	SESFSP	INIT PENDING
4	HEX	00000008	SESFIF	INIT FAILURE
4	HEX	00000020	SESFHS	HARP SWITCH
4	HEX	00000016	SEFSBP	BIND PENDING

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSESAW	0		1
SESAWCB	0		2
SESBILNG	13		2
SESBIPTR	14		2
SESFCTN	C		2
SESPLUNM	18		2
SEQSCAN	11	80	3
SESSLUNM	20		2
SESTERME	10		2
SES31PTR	4		2
SES35PTR	8		2



## Session Information Block (SIB)

<b>Function:</b>	<p>The SIB indicates the status of an LU-LU session. Session services uses an SIB to keep track of which sessions exist and how far session establishment or termination has proceeded for a particular session. There is one SIB for each session request received by VTAM.</p> <p>Each RDTE has two SIB queues: one for SIBs that represent sessions in which the LU is the primary session end and one for SIBs that represent sessions in which the LU is the secondary session end. These queues include active, pending active, and queued sessions. To find all the sessions in which an LU is participating, examine both of these SIB queues.</p> <p>Each SIB is queued off two RDTEs: one that represents the primary session end, and one that represents the secondary end. The SIB points to both of these RDTEs.</p>
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	280 (X'118')
<b>Pointed to by:</b>	<p>ATCSIBQ (ATCVT) - first on SIB queue                  ATCSIBQT (ATCVT) - last on SIB queue                  MGRSIB (MGRSC) - SIB for session with predefined or dynamically allocated CDRSC                  RCPSIBP (RCPRE) - first on primary chain                  RCPSIBS (RCPRE) - first on secondary chain                  RCPSTPP (RCPRE) - last on primary chain                  RCPSTPS (RCPRE) - last on secondary chain                  SAWRESUM (SAWVT) - SIB at which SAW scanning was stopped                  SESAWCB (SESAW) - SIB for session awareness data                  SIBBBWD (SIB) - previous SIB on ATCVT SIB queue                  SIBBFWD (SIB) - next SIB on ATCVT SIB queue                  SIBBPRIQ (SIB) - next SIB on primary chain                  SIBBSECQ (SIB) - next SIB on secondary chain                  SIBBIPTR (SIB) - initiation extension                  SIBRXPTR (SIB) - cross network extension</p>
<b>Additional Notes:</b>	<p>For more information about application programming and LU-LU sessions, see <i>VTAM Programming</i>.</p> <p>Each SIB points to both a PLU and SLU resource extension. SIBBPTR points to the PLU extension and SIBBSPTR points to the SLU extension. SIBRX is the map for these extensions.</p>

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	280	ISTSIB	Session Information Block
The following header information applies to the session rather than to the resources.					
0	(0)	UNSIGNED	1	SIBCBID	SIB Control Block ID
1	(1)	CHARACTER	1	*	Available
2	(2)	UNSIGNED	1	SIBFSMIN	Initiate FSM. See constants for values
3	(3)	UNSIGNED	1	SIBFSMTM	Terminate FSM. See constants for values.
4	(4)	CHARACTER	4	SIBFSENS	Failing sense
8	(8)	CHARACTER	8	SIBPCID	Original PCID for session
The following general session information applies to both partners and for all network configurations.					
16	(10)	CHARACTER	72	SIBBASE	
The following pointers locate extensions and chains that may be found from the SIB base.					
16	(10)	CHARACTER	8	SIBBCOSN	If SIBIDCOS is true, this is COS as known in this SSCPs network, otherwise it is the COS as known in the OLU network
24	(18)	CHARACTER	8	SIBBLGMD	LOGMODE name known in this domain
32	(20)	CHARACTER	8	SIBBDLMD	LOGMODE name as known in the DLUs domain
40	(28)	CHARACTER	8	SIBBTIME	Time stamp for either init pending or session started
48	(30)	ADDRESS	4	SIBBFWD	Pointer to next SIB on ATCVT SIB queue for locating the set of all SIBs known to this SSCP

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
52	(34)	ADDRESS	4	SIBBBWD	Pointer to previous SIB on ATCVT SIB queue
56	(38)	CHARACTER	8	SIBBSARY	SIB queue array
56	(38)	ADDRESS	4	SIBBPRIQ	Pointer to next SIB on primary chain
60	(3C)	ADDRESS	4	SIBBSECQ	Pointer to next SIB on secondary chain
64	(40)	ADDRESS	4	SIBBIPTR	Pointer to the initiation extension which will be freed after initialization. (Value is zero when freed)
68	(44)	ADDRESS	4	SIBBPTR	Pointer to the PLU resource information
72	(48)	ADDRESS	4	SIBBSPTR	Pointer to the SLU resource information
76	(4C)	ADDRESS	4	SIBBFQPC	Pointer to name portion of fully qualified PCID

The following flags are general purpose status bits which apply to this session.

80	(50)	BITSTRING	2	*	Session characterization flags
		1... ....		SIBBAUTO	1 = This is an autologon session 0 = Not an autologon session
		.1.. ....		SIBBIOLU	1 = OLU is the initiating LU 0 = OLU is not the initiating LU
		..1. ....		SIBBBIRD	1 = Bind image received on BF session start RU 0 = Bind image not received on BF session start RU
		...1 ....		SIBBSAWS	1 = Session start SAW data sent to Management Services 0 = Session start SAW not sent
		.... 1..		SIBBSAWE	1 = Session end SAW data sent to Management Services 0 = Session end SAW not sent
		.... .1..		SIBBT KOV	1 = This SIB built by session takeover 0 = This SIB not built by session takeover
		.... ..1.		SIBBTLUD	1 = The TLU is in this domain 0 = The TLU is not in this domain
		.... ...1		SIBBCKUP	1 = Backup XRF session 0 = Primary XRF session
		1... ....		SIBBXRFS	1 = XRF session 0 = Undefined
		.1.. ....		*	Available
		..1. ....		SIBBVERS	1 = Routing information has been stored 0 = Routing information has not been stored
		...1 ....		SIBBSCI	1 = Session count has been incremented 0 = Session count has not been incremented
		.... 1..		SIBBRRNS	1 = RELREQ has been sent 0 = RELREQ has not been sent
		.... .1..		SIBBMSG	1 = Do not issue another failure message 0 = Issue failure messages
		.... ..1.		SIBBICD	ILU is cross domain - this bit meaningful only in OLU domain 1 = ILU is cross domain 0 = ILU is in this domain
		.... ...1		SIBBQP	Queue position for the SIB 1 = LIFO queue Value = SIBBQPLF 0 = FIFO queue Value = SIBBQPFF
82	(52)	BITSTRING	1	*	Session information
		1... ....		SIBBNORL	1 = Network address should remain associated with session when released although no longer associated with resource 0 = Network address should not remain associated
		.1.. ....		SIBBPSWP	1 = PCID for session has been swapped into IPDPCID set 0 = PCID for session has not been swapped into IPDPCID set
		..11 ....		SIBBTIMC	Initiation time stamp contents 00 = SIBBTIME holds init pending TS Value = SIBTMIP 01 = SIBBTIME holds sess start TS Value = SIBTMSS 10 = SIBBTIME holds XRF switch TS Value = SIBTMXRF
		.... 1..		SIBBDPLU	1 = Issue Resume for Cross Domain Session End event when this session completes termination 0 = Not meaningful
		.... .1..		SIBBIACC	1 = Initial accounting is done 0 = Initial accounting is not done
		.... ..1.		SIBB3SHR	1 = Current configuration is 3 SSCPs sharing a gateway NCP 0 = Current configuration is not three share
		.... ...1		SIBBSAA	1 = Subject addresses needs to be readded
83	(53)	UNSIGNED	1	SIBBSAWC	Session awareness processing correlator
84	(54)	CHARACTER	3	SIBBVRER	VR-ER data
84	(54)	UNSIGNED	1	SIBBVRTP	Virtual route and transmission priority data
		1111 ....		SIBBVRN	Virtual route number for session

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
		.... 11..		*	Reserved
		.... ..11		SIBBTPF	Transmission priority for session
85	(55)	UNSIGNED	1	SIBBERFL	Explicit route information
		1111 ....		*	Reserved
		.... 1111		SIBBERN	Explicit route number for session
86	(56)	UNSIGNED	1	SIBBRERI	Reverse explicit route information
		1111 ....		*	Reserved
		.... 1111		SIBBRERN	Reverse explicit route number for session
87	(57)	BITSTRING	1	*	Session information
		1... ....		SIBBMXRF	1 = XRF switch not reported 0 = No XRF switch has occurred or was reported
		.1.. ....		SIBBSAR	1 = Secondary authorization is requested 0 = Secondary authorization is not requested
		..1. ....		SIBBDQED	1 = SIB has been dequeued from RDTE SIB queue 0 = SIB has not been dequeued from RDTE SIB queue
		...1 ....		SIBBFLTR	1 = Session should be filtered 0 = Session should not be filtered
		.... 1...		SIBBFLTD	1 = Filter utility has been called for session 0 = Filter utility has not been called
		.... .111		*	Available
88	(58)	CHARACTER	8	SIBBBARY	SIB queue array
88	(58)	ADDRESS	4	SIBBPRBQ	Pointer to previous SIB on primary chain
92	(5C)	ADDRESS	4	SIBBSEBQ	Pointer to previous SIB on secondary chain
96	(60)	CHARACTER	8	*	RESERVED
104	(68)	BITSTRING	1	*	RESERVED
		1... ....		*	RESERVED
		.1.. ....		*	RESERVED
		..11 ....		*	RESERVED
		.... 1111		*	Available
105	(69)	CHARACTER	19	*	Available

The following session information applies to termination of the session. These are bits that must remain after initiation.

124	(7C)	CHARACTER	44	SIBTRMIN	Termination information
124	(7C)	CHARACTER	1	SIBTTMCD	Termination code for SAWCALL
125	(7D)	BITSTRING	1	*	Termination flags
		1... ....		SIBTDSUS	Duplicate session suspended 1 = Session was suspended because duplicate session is being terminated 0 = Session was not suspended
		.1.. ....		SIBTPROM	Termination promoted to cleanup 1 = Session termination has been promoted to cleanup 0 = Session termination has not been promoted
		..11 1111		*	Available
126	(7E)	CHARACTER	2	*	Available
128	(80)	CHARACTER	17	SIBTTKDN	Session takedown information
128	(80)	CHARACTER	8	SIBTTRID	RID for session takedown
136	(88)	CHARACTER	8	SIBTPRID	Process RID
144	(90)	BITSTRING	1	SIBTTMFL	Termination flavor 10 = Normal Value = SIBTFNOR 20 = Orderly Value = SIBTFORD 30 = Forced Value = SIBTFFOR 40 = Cleanup Value = SIBTFCLN
145	(91)	UNSIGNED	1	SIBTREAS	Termination reason
		1... ....		SIBTORIG	Termination originator Possible values: SIBMANGR (1) - Network manager SIBUSER (0) - Network user
		.1.. ....		SIBTTYPE	Termination type Possible values: SIBABNOR (1) - Abnormal SIBNRMAL (0) - Normal For forced and cleanup flavor termination, SIBTORIG and SIBTTYPE is used by LUS to determine how to notify the PLU application of session termination and determines the correct return code to be used when posting the application's I/O when a session terminates.
		..1. ....		SIBTRCRQ	Reason code required (1) - Reason code is required
		...1 ....		SIBTFLTP	Failure type Possible values: SIBTKDWN (1) - Takedown failure SIBSETUP (0) - Setup failure
		.... 1111		SIBTRSCD	Reason code
		.... 1...		SIBTEPLU	Error at PLU (1) - CINIT or CTERM error in reaching the PLU.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... .1..		SIBTESLU	Error at SLU (1) - BIND or UNBIND error in reaching the SLU.
		.... ..1.		SIBTRPLU	Reject at PLU (1) - Setup or Takedown reject at the PLU.
		.... ...1		SIBTRSLU	Reject at SLU (1) - Setup reject at the SLU
146	(92)	BITSTRING	1	*	Termination booleans
		1... ....		SIBTSCOP	The scope of the outgoing CDTERM 1 = Scope determined by SIB INIT FSM state 0 = Scope is ALL sessions
		.1.. ....		SIBTRLC	1 = Reallocation is needed 0 = Not meaningful
		..1. ....		SIBTNIRS	1 = One of the following is true: (Negative INIT RSP sent, NOTIFY 3 sent, USS007 sent, NSPE sent) 0 = Not meaningful
		...1 ....		SIBTNORL	1 = Do not reallocate this SIB 0 = Not meaningful
		.... 1..		SIBTSSER	1 = SLU session end received
		.... .1..		SIBTPSER	1 = PLU session end received
		.... ..1.		SIBTCOSS	1 = Tried to send CDESENDD to the SSCP in the direction of the SLU
		.... ...1		SIBTCDSP	1 = Tried to send CDESENDD to the SSCP in the direction of the PLU
147	(93)	BITSTRING	1	SIBTSESE	Set of session end signals
		1... ....		SIBTSETB	1 = The set was built 0 = The set was not built
		.1.. ....		SIBTNSES	1 = SENDD needed from SLU 0 = SENDD unneeded from SLU
		..1. ....		SIBTNSEP	1 = SENDD needed from PLU 0 = SENDD unneeded from PLU
		...1 ....		SIBTNCDS	1 = CDESENDD needed from SSCP in the direction of the SLU 0 = CDESENDD not needed from SSCP in the direction of the SLU
		.... 1..		SIBTNCDP	1 = CDESENDD needed from SSCP in the direction of the PLU 0 = CDESENDD not needed from SSCP in the direction of the PLU
		.... .1..		SIBTNGWS	1 = NOTIFY needed from GWN in the direction of the SLU 0 = NOTIFY not needed from GWN in the direction of the SLU
		.... ..1.		SIBTNGWP	1 = NOTIFY needed from GWN in the direction of the PLU 0 = NOTIFY not needed from GWN in the direction of the PLU
		.... ...1		SIBTNGWB	Used by three share only: 1 = NOTIFY needed from GWN in both directions 0 = NOTIFY not needed from GWN in either direction
148	(94)	ADDRESS	4	SIBTNOTP	Pointer to NOTIFY RU
152	(98)	ADDRESS	4	SIBTREQP	Pointer to incoming request
156	(9C)	CHARACTER	8	*	Available
164	(A4)	ADDRESS	4	SIBTV35P	Pointer to 35 vector
168	(A8)	CHARACTER	56	SIBOLU	Resource information for the OLU
224	(E0)	CHARACTER	56	SIBDLU	Resource information for the DLU
280	(118)	CHARACTER		SIBEND	

The following extension contains the SIB initiation information. It is kept separate from the rest of the SIB because this whole block of storage can be freed after initialization. These are bits that will not be needed after initiation.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	116	ISTSIBIX	
0	(0)	UNSIGNED	1	SIBICBID	SIB extension Control Block identifier
1	(1)	UNSIGNED	1	SIBIRFSM	Routing FSM (See ASRIT for values)
2	(2)	CHARACTER	6	SIBIFAIL	Initiation fails fields
2	(2)	CHARACTER	4	SIBIFRU	Failing RU
6	(6)	CHARACTER	1	SIBIFRSN	Failing reason
7	(7)	CHARACTER	1	SIBIFST	Failure status
8	(8)	BITSTRING	2	*	Init extension boolean information
		1... ....		SIBICDCR	1 = The CDCINIT has been received but not processed 0 = The CDCINIT is not waiting on any I/O
		..1. ....		SIBICDSQ	1 = CDINIT Dequeue has been side queued

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		..1 ....		SIBICDR	1 = The CDINIT DQ has been received but not processed 0 = The CDINIT DQ is not waiting on any I/O
		...1 ....		SIBIDLUA	1 = The DLU network ID is assumed 0 = The DLU network ID is not assumed
		.... 1...		SIBINOTR	1 = The notify RUPE has been built and queued to notify the ILU 0 = The notify RUPE has not been built
		.... .1..		SIBIRIPI	1 = Routing in progress count incremented
		.... ..1.		SIBIRRR	1 = RELREQ is required 0 = RELREQ is not required
		.... ...1		SIBISYNI	1 = Synchronous initiation 0 = Asynchronous initiation
		1... ....		SIBIPARC	1 = Session is parallel session capable 0 = Session is not parallel session capable
		.1.. ....		SIBIENAC	1 = Session is ENA capable 0 = Session is not ENA capable
		..1. ....		SIBINNOT	1 = NOTIFY3 always sent 0 = NOTIFY3 not always sent
		...1 ....		SIBISXRF	1 = SLU is XRF capable 0 = SLU is not XRF capable
		.... 1...		SIBIQS	1 = This session is queued 0 = This is not a queued session
		.... .1..		SIBIQREA	Reason for queuing 1 = Lu is not enabled Value = SIBIQRNE 0 = At session limit Value = SIBIQRSL
		.... ..1.		SIBIURAS	1 = The URC pointed to by SIBIURCA has been added by an SRTADD 0 = The URC was never SRTADDED or has been SRTDELETED
10	(A)	.... ...1 BITSTRING	2	SIBISFL *	1 = Setup failure Init extension boolean information
		1... ....		SIBIRENA	1 = Retry RNAA
		.1.. ....		SIBIRDIR	Direction reallocation from 0 = Reallocation is from SLU Value = SIBIRDS 1 = Reallocation is from PLU Value = SIBIRDP
		..11 ....		SIBIBAT	Bad alias translation 00 = Bad OLU translation Value = SIBIBATO 01 = Bad ASL translation Value = SIBIBATA 11 = Bad DLU translation Value = SIBIBATD
		.... 1...		SIBIRTRY	1 = RNAA is being retried for this session due to a duplicate network address problem 0 = Not meaningful
		.... .1..		SIBICOSA	1 = COS as known in the DLU was assumed 0 = Not meaningful
		.... ..1.		SIBILOGA	1 = LOGMODE as known in the DLU was assumed 0 = Not meaningful
		.... ...1		SIBIRTSG	1 = Retry same gateway because DLU side unable to perform gateway IO 0 = Not meaningful
		1... ....		SIBIRTIPT	1 = This session is performing routing 0 = Session is not performing routing
		.1.. ....		SIBINCPA	1 = Notification of controlling PLU availability requested 0 = Notification of controlling PLU availability not requested
		.... ...1		SIBIGWOD	1 = Gateway path selection function invoked for DLU direction 0 = Gateway path selection function invoked for OLU direction
12	(C)	.... ...1 BITSTRING	1	SIBISSSG *	Session start signals
		1... ....		SIBISETI	1 = The set is initialized 0 = THE set is not initialized
		.1.. ....		SIBICDSP	1 = CDESSST needed from SSCP of the PLU 0 = CDESSST not needed from SSCP of the PLU
		.... ...1		SIBICDSS	1 = CDESSST response needed from the SSCP of the SLU 0 = CDESSST response not needed from the SSCP of the SLU

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1...		SIBINSSS	1 = Need NOTIFY SESSION START from the GWN toward the SLU 0 = NOTIFY SESSION START not needed from the GWN toward the SLU
		.... 1..		SIBINSSP	1 = Need NOTIFY SESSION START from the GWN toward the PLU 0 = NOTIFY SESSION START not needed from the GWN toward the PLU
		.... .1..		SIBIESSS	1 = Expecting a SESSST or BFSESSST from the NCP of the SLU 0 = Not expecting a SESSST or BFSESSST from SLUs NCP
		.... ..1.		SIBIESSP	1 = Expecting a SESSST or BFSESSST from the NCP of the PLU 0 = Not expecting a SESSST or BFSESSST from PLUs NCP
13	(D)	BITSTRING	1	* SIBICKST	Available Flags 1 = During session setup a resource was found to be temporarily unavailable. Recheck session status. 0 = No session status recheck needed
		.1.. ....		*	RESERVED
		.1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1..		*	RESERVED
		.... .1..		*	RESERVED
		.... ..1.		*	Available
		.... ...1		SIBIUNAM	1 = Uninterpreted name was received on input request 0 = Not meaningful
14	(E)	CHARACTER	2	*	Available
16	(10)	CHARACTER	8	SIBICOSD	COSNAME as known in DLU network (may be null)
24	(18)	ADDRESS	4	SIBIUNUD	Pointer to uninterpreted name and user data if they exist
28	(1C)	ADDRESS	4	SIBISSTT	Initialization extension for the session information block
32	(20)	ADDRESS	4	SIBIBIP	Pointer to list of SSCPS that may be tried for routing
36	(24)	ADDRESS	4	SIBIREQP	Pointer to bind image or bind image parameter list (See SIBIBIPL)
40	(28)	ADDRESS	4	SIBIRESP	Pointer to incoming request
44	(2C)	ADDRESS	4	SIBICIPP	Pointer to incoming response
48	(30)	ADDRESS	4	SIBIURCA	Pointer to CINIT build parameter list
52	(34)	CHARACTER	6	SIBIODNA (2)	Pointer to user correlator
64	(40)	UNSIGNED	1	SIBITYPR	Network address of destination to which IO is outstanding
65	(41)	UNSIGNED	1	SIBIVCNT	Type request 0 = INIT or QUEUE Value = SIBIIQ 4 = INIT only Value = SIBIONLY 8 = QUEUE only Value = SIBIQO
66	(42)	CHARACTER	1	*	Visit count
67	(43)	BITSTRING	1	*	Available
68	(44)	CHARACTER	4	*	RESERVED
72	(48)	CHARACTER	8	SIBIOWNR	RESERVED
80	(50)	CHARACTER	8	*	DLU owning SSCP name received on request
88	(58)	CHARACTER	8	*	RESERVED
96	(60)	CHARACTER	8	*	RESERVED
104	(68)	CHARACTER	8	*	RESERVED
112	(70)	ADDRESS	4	*	RESERVED

There is one of the following extensions for each session partner. These maps overlay directly the OLU and DLU extensions in the SIB, but they may be accessed indirectly as PLU and SLU extensions by using pointers in the base, SIBBPTR and SIBSPTR.

0	(0)	STRUCTURE	56	ISTSIBRX	Map for the SIB resource extension
0	(0)	CHARACTER	8	SIBRADJN	The name of the adjacent SSCP in the direction of this LU
8	(8)	CHARACTER	8	SIBRALNM	The name of the resource as known in the session partners network. Alias name
16	(10)	CHARACTER	8	SIBRNID	The network ID associated with LU
24	(18)	ADDRESS	4	SIBRXPTR	Pointer to the cross network extension of this resource if it exists
28	(1C)	ADDRESS	4	SIBRRSRC	RDTE pointer for this resource
32	(20)	CHARACTER	4	SIBRLSID	Local session identifier
32	(20)	UNSIGNED	1	SIBRFMT	Format for session ID 2 = FID 2 ID (2-byte OAF/DAF) Value = SIBRFID2 3 = FID 3 ID (3-byte LSID) Value = SIBRFID3

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
33	(21)	UNSIGNED	3	SIBR2ID	Format 2 local session ID
33	(21)	UNSIGNED	1	SIBR2OAF	Format 2 origin network address
33	(21)	UNSIGNED	1	SIBR3ID	Format 3 local session ID
34	(22)	UNSIGNED	1	SIBR2DAF	Format 2 destination network address
35	(23)	UNSIGNED	1	SIBR2FLG	Format 2 flag byte
		1111 11..		*	Reserved
		.... ..1.		SIBRODAI	1 = assignment indicator from the TH
		.... ...1		*	Reserved
36	(24)	CHARACTER	2		
36	(24)	UNSIGNED	1	SIBRLUUA	Reason LU is unavailable 00 = Initial state Value = SIBRLUIN 20 = Not enabled Value = SIBRLUNA 40 = Over session limit Value = SIBRLUOL
37	(25)	UNSIGNED	1	SIBRNETC	Network configuration 00 = Unknown Value = SIBRNTU 10 = Same domain Value = SIBRNTS 20 = End point Value = SIBRNTEP 28 = Not in this domain Value = SIBRNTND 30 = Cross domain Value = SIBRNTXD 38 = Cross net configuration but type not determined Value = SIBRNTXN 40 = 2 Share Value = SIBRNT2 60 = Back to back Value = SIBRNTB
38	(26)	BITSTRING	3	*	SIB resource extension booleans
		1... ....		SIBRCDTCT	1 = This session has been associated with the CDTAKEDOWN COMPLETE RU for the CDRM specified in SIBRADJN 0 = Not associated
		.1.. ....		SIBRLUMA	1 = LU address in my network added 0 = LU address in my network not added
		..1. ....		SIBRSSE	1 = LU supports SESSEND 0 = No support for SESSEND
		...1 ....		SIBRLDOM	1 = LU is in this domain 0 = Not in this domain
		.... 1...		SIBRQNE	1 = Queue if the LU is not enabled 0 = Do not queue if the LU is not enabled
		.... .1..		SIBRQSLM	1 = Queue if the LU is at session limit 0 = Do not queue if the LU is at session limit
		.... ..1.		SIBRRDET	1 = Real name determined 0 = Real name not determined
		.... ...1		SIBRADET	1 = Alias name determined 0 = Alias name not determined
		1... ....		SIBRLSXB	1 = LU supports extended BIND 0 = No support for extended BIND
		.1.. ....		SIBRSNQN	1 = LU supports network qualified name 0 = No support for network qualified name
		..1. ....		SIBRACAP	Network address type 1 = Address assigned is parallel session capable 0 = Address assigned is not parallel session capable
		...1 1...		SIBRENAS	00 = Non-ENA address (2 bytes) Value = SIBRENA2 01 = Small ENA (4-byte address) Value = SIBRENA4 10 = Large ENA (6-byte address) Value = SIBRENA6 11 = Not defined Value = SIBRENAX
		.... .1..		SIBRDYNR	1 = This session obtained a dynamic CDRSC for the SIB 0 = Session did not obtain a dynamic CDRSC for the SIB
		.... ..1.		SIBRSCIA	1 = Session count incremented in CDRM RDTE 0 = Session count not incremented in CDRM RDTE
		.... ...1		SIBRAADD	1 = Alias name added 0 = Alias name not added
		1... ....		SIBRARQD	1 = Reallocation required for resource when session is at a point it can be realloc 0 = Reallocation not required
		.1.. ....		SIBRPARC	Parallel capability of SSCP in this direction 1 = Parallel capable 0 = Not parallel capable
		..1. ....		SIBRENAC	1 = Resource is ENA capable 0 = Resource not ENA capable
		...1 ....		SIBRRLAD	1 = Resource real name was used for address management interfaces 0 = Not meaningful
		.... 1...		SIBRLUMD	1 = Address determined 0 = Address not determined
		.... ..1.		SIBRRPRT	1 = Session reported on takeover 0 = Session not reported on takeover
		.... ..1.		SIBRASNS	1 = Adjacent SSCP(SIBRADJN) no longer has a SIB for this session because of lost connectivity 0 = Adjacent SSCP still has a SIB
		.... ...1		*	Available
41	(29)	BITSTRING	1	SIBRESAC	ESA capabilities

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		1... ....		SIBRESA	ESA supported
		.111 ....		*	Reserved
		.... 1111		SIBRALMT	ESA subarea limit
42	(2A)	CHARACTER	8	*	Available
50	(32)	CHARACTER	6	SIBRNETA	The network address of the LU
50	(32)	CHARACTER	4	SIBRSUBA	Subarea address for this LU
54	(36)	CHARACTER	2	SIBRELMA	Element address for this LU

There is one of the following extensions for one or both adjacent SSCPs that are cross net from this SSCP. A pointer in the resource extension (SIBDLU or SIBOLU) points to this extension if it exists.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	59	ISTSIBX	Map for the SIB cross network extension
0	(0)	CHARACTER	1	SIBXNCBI	Control Block ID
1	(1)	CHARACTER	1	SIBXGFSM	Gateway Selection FSM (See ISTGWIT for values)
2	(2)	CHARACTER	2	*	Available
4	(4)	ADDRESS	4	SIBXGWIP	Pointer to GWNs to try (GWIT)
8	(8)	CHARACTER	8	SIBXADJN	Adjacent Network Netid
16	(10)	CHARACTER	8	SIBXONET	Netid on other side of gateway This netid is the network in which the resource network addresses contained in this extension are known
24	(18)	CHARACTER	8	SIBXCOSN	Class of service name in SIBXONET
32	(20)	CHARACTER	8	SIBXGWNN	Gateway node name
40	(28)	CHARACTER	3	SIBXGWN1	Gateway information
		1... ....		SIBXRNAA	1 = RNAA has been sent by this SSCP to SIBXGWNN 0 = RNAA has not been sent
		.1.. ....		SIBXNOTX	0 = Notify not expected from GWN 1 = Notify is expected from GWN
		..1. ....		SIBXSMGW	1 = Adjacent SSCP using same gateway NCP 0 = Adjacent SSCP not using same gateway NCP
		...1 ....		SIBXGWTL	1 = Adjacent SSCP is controlling gateway 0 = Adjacent SSCP not controlling gateway
		.... 1..		SIBXGWEN	0 = Gateway NCP is non-ENA 1 = Gateway NCP is ENA
		.... .1..		SIBXPANA	1 = PLU network address added 0 = PLU network address not added
		.... ..1.		SIBXSANA	1 = SLU network address added 0 = SLU network address not added
		.... ...1		SIBXADAS	1 = Cross network address pair has been assigned by GWN 0 = Not meaningful
		1... ....		SIBXSCVR	0 = SETCV response unneeded from the gateway NCP 1 = SETCV response pending from the gateway NCP
		.1.. ....		SIBXSCV	0 = SETCV unneeded for the gateway NCP 1 = SETCV needed for the gateway NCP
		..1. ....		SIBXSADD	0 = NAU Address unneeded on SETCV for gateway NCP 1 = NAU Address needed on SETCV for gateway NCP
		...1 ....		SIBXSURL	0 = VR information unneeded on SETCV for gateway NCP 1 = VR information needed on SETCV for gateway NCP
		.... 1..		SIBXSNAM	0 = Names substitution information unneeded on SETCV for gateway NCP 1 = Names substitution information needed on SETCV for gateway NCP
		.... .1..		SIBXGWRQ	0 = This SSCP not required to perform all gateway IO 1 = This SSCP required to perform all gateway IO
		.... ..1.		SIBXANLY	0 = Adjacent SSCP not required to perform all gateway IO 1 = Adjacent SSCP required to perform all gateway IO
		.... ...1		SIBXAGWC	1 = Adjacent SSCP is Cross Network and gateway capable 0 = Adjacent SSCP is Cross Network but NOT gateway capable
		1... ....		SIBXRNRQ	1 = RNAA to be sent by this SSCP to SIBXGWNN 0 = RNAA not sent by this SSCP
		.1.. ....		SIBXVERS	1 = Routing information has been stored 0 = Routing information has not been stored
		..1. ....		SIBXGWSS	1 = SSCP is in session with the gateway node 0 = SSCP is not in session with the gateway node



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		...1 ....		SIBXPAND	1 = PLU address is determined 0 = PLU address not determined
		.... 1...		SIBXSAND	1 = SLU address is determined 0 = SLU address not determined
		.... .111		*	Available
43	(2B)	BITSTRING	1	SIBXESAC	ESA capabilities
		1... ....		SIBXESA	ESA supported
		.111 ....		*	Reserved
		.... 1111		SIBXALMT	ESA subarea limit
44	(2C)	CHARACTER	6	SIBXPADR	PLU address
44	(2C)	CHARACTER	4	SIBXPSUB	Subarea address for this LU
48	(30)	CHARACTER	2	SIBXPELM	Element address for this LU
50	(32)	CHARACTER	6	SIBXSADR	SLU address
50	(32)	CHARACTER	4	SIBXSSUB	Subarea address for this LU
54	(36)	CHARACTER	2	SIBXSELM	Element address for this LU
56	(38)	CHARACTER	3	SIBXVRER	VR-ER data
56	(38)	UNSIGNED	1	SIBXVRTP	Virtual route and transmission priority data
		1111 ....		SIBXVRN	Virtual route number for session
		.... 11..		*	Reserved
		.... ..11		SIBXTPF	Transmission priority for session
57	(39)	UNSIGNED	1	SIBXERFL	Explicit route information
		1111 ....		*	Reserved
		.... 1111		SIBXERN	Explicit route number for session
58	(3A)	UNSIGNED	1	SIBXRERI	Reverse explicit route information
		1111 ....		*	Reserved
		.... 1111		SIBXRERN	Reverse explicit route number for session

The following control blocks are overlays for selected fields

0	(0)	STRUCTURE	1	SIBURC	User request correlator map
0	(0)	UNSIGNED	1	SIBURLEN	Length of URC
1	(1)	CHARACTER	*	SIBURDAT	URC data

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	1	SIBUNUD	Uninterpreted name/user data
0	(0)	UNSIGNED	1	SIBUNLEN	Length of uninterpreted name
1	(1)	CHARACTER	*	SIBUNINT	Uninterpreted name
0	(0)	STRUCTURE	1	SIBUDAT	Map for user data
0	(0)	UNSIGNED	1	SIBUDLEN	Length of user data
1	(1)	CHARACTER	*	SIBUDATA	User data

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2	SIBIBIPL	Bind image or parameter list
0	(0)	SIGNED	2	SIBIBLEN	Length of bind image data, will overlay BIPLTH if bind image parameter list exists
2	(2)	CHARACTER	*	SIBIBDAT	Bind image or bind image data parameter list data

## Constants

Len	Type	Value	Name	Description
Constants: These constants are used in the SIB and SIB extensions.				
Value for SIB control block ID SIBCBID				
1	HEX	98	SIBCBTYP	SIB Control Block constant
Value for SIBIX control block ID SIBICBID				
1	HEX	97	SIBIXTYP	SIB Control Block constant
Value for SIBX control block ID SIBXNCBI				
1	HEX	96	SIBXNTYP	SIB Control Block constant
Values for initiation finite state machine SIBFSMIN				
1	HEX	00	SIBIFSIS	Initial state
1	HEX	04	SIBIFSB	The SIB has been completely built
1	HEX	08	SIBIFSDA	Pending DLU alias name translation
1	HEX	0C	SIBIFSON	OLU end point processing needed
1	HEX	10	SIBIFSSO	Resource status checking found one resource in a temporarily unavailable state. Session setup will wait on the LU to become available
1	HEX	14	SIBIFSSE	Session ended processing in progress in OLU domain.
1	HEX	18	SIBIFSOE	OLU endpoint processing complete.
1	HEX	20	SIBIFSTN	Translation pending for DLU real name, OLU alias name, DLU network COS and LOGMODE
1	HEX	24	SIBIFSDR	Direct search list pending cross domain routing completion
1	HEX	28	SIBIFSDS	Pending direct search list type 01 or 02 response. These types of direct search are sent from the SSCP(OLU) when an autologon session establishment is in progress between a dial SLU and a cross domain PLU.
1	HEX	2A	SIBIFSDT	Pending translation of the DLU alias name from the DLU real name.
1	HEX	2C	SIBIFSPO	Pending dial response for OLU.
1	HEX	30	SIBIFSOP	Dial in progress for OLU.
1	HEX	34	SIBIFSOI	Pending OLU IO
1	HEX	3C	SIBIFSCR	CDINIT pending cross domain routing completion.
1	HEX	40	SIBIFSOR	OLU direction processing required.
1	HEX	44	SIBIFSS2	Session end in progress during routing.
1	HEX	48	SIBIFSAO	OLU pending response from address manager.
1	HEX	4C	SIBIFSOX	OLU direction RNAA processing needed
1	HEX	50	SIBIFSOD	OLU direction RNAA processing suspended pending termination of previous session using same PLU network address
1	HEX	54	SIBIFSRO	OLU GW RNAA response pending
1	HEX	58	SIBIFSOC	OLU direction processing complete
1	HEX	5C	SIBIFSDX	DLU direction RNAA processing needed
1	HEX	60	SIBIFSDD	DLU direction RNAA processing suspended pending termination of previous session using same PLU network address
1	HEX	64	SIBIFSRD	DLU direction GW RNAA response pending
1	HEX	68	SIBIFSDU	Destination notification not necessary
1	HEX	6A	SIBIFSTS	DLU alias name translation pending
1	HEX	6C	SIBIFSSD	Resource status checking found one resource in a temporarily unavailable state. Session setup will wait on the LU to become available
1	HEX	70	SIBIFSTL	Translation pending for OLU alias name, DLU network COSNAME, and DLU LOGMODE. This is used only when DLU real name has been determined
1	HEX	74	SIBIFSCD	Pending CDINIT response.
1	HEX	78	SIBIFSDN	DLU direction processing required.
1	HEX	7C	SIBIFSPD	Pending dial response for DLU.
1	HEX	80	SIBIFSOP	Dial in progress for DLU.
1	HEX	84	SIBIFSDI	Pending DLU IO
1	HEX	8C	SIBIFSAD	DLU pending response from address manager.

Len	Type	Value	Name	Description
1	HEX	90	SIBIFSDC	DLU direction processing complete.
1	HEX	94	SIBIFSTD	Translation to determine OLU side of DLU direction gateway COSNAME
1	HEX	98	SIBIFSTO	Translation to determine OLU side of OLU direction gateway COSNAME
1	HEX	9A	SIBIFSTA	Translation pending for associated LU names
1	HEX	9C	SIBIFSIR	INIT or CDINIT response sent
1	HEX	A0	SIBIFSSI	Pending SLU IO
1	HEX	A4	SIBIFSCV	Pending SETCV response
1	HEX	A8	SIBIFSRA	Pending reallocation. A session setup has been queued.
1	HEX	AC	SIBIFSRP	Reallocation in progress.
1	HEX	B0	SIBIFSDDQ	Pending CDINITDQ response.
1	HEX	B4	SIBIFSRC	Reallocation complete.
1	HEX	B8	SIBIFSVC	SETCV complete.
1	HEX	BC	SIBIFSOS	Pending OSA completion.
1	HEX	C0	SIBIFSSA	Pending Set Session Address (SSA) response. SSA is sent when the SLU is non-SNA and not in the same domain.
1	HEX	C4	SIBIFSCP	Pending CDCINIT request. This state is set when the SSCP(PLU) has sent or received CDINIT response and is waiting for SSCP(SLU) to send CDCINIT. If a CDCINIT ever arrives before this state is reached, the CDCINIT is queued with no state change.
1	HEX	C8	SIBIFSCK	Pending CRYPTOGRAPHIC keys for session
1	HEX	CC	SIBIFSHQ	Highest state before pending active
1	HEX	D0	SIBIFSCC	Pending CDCINIT response
1	HEX	D4	SIBIFSCI	Pending CINIT response
1	HEX	D8	SIBIFSCS	Pending CINIT response or CDCINIT response and have received session started
1	HEX	E0	SIBIFSST	Pending generic session start state
1	HEX	F0	SIBIFSTK	Pending SSCP takeover complete
1	HEX	F4	SIBIFSAC	Session active

## Values for termination finite state machine SIBFSMTM

1	HEX	00	SIBTFSIS	Initial state
1	HEX	08	SIBTFSSF	Pending CDESSSF response
1	HEX	10	SIBTFSCD	Pending CDTERM response
1	HEX	20	SIBTFSCS	Pending CLEANUP response
1	HEX	28	SIBTFSBF	Pending BFCLEANUP response
1	HEX	30	SIBTFSCS	Pending CTERM response
1	HEX	38	SIBTFSTF	Pending CDESSSTF response
1	HEX	40	SIBTFSSE	Pending SESSEND
1	HEX	44	SIBTFSIO	Pending LU IO
1	HEX	48	SIBTFSIC	LU IO Complete
1	HEX	50	SIBTFSOS	Pending OSA response
1	HEX	58	SIBTFSTC	OSA response received
1	HEX	60	SIBTFSIP	Pending initiation I/O completion

## Values for termination originator SIBTORIG

0	BIT	1	SIBMANGR	Network manager
0	BIT	0	SIBUSER	Network user

## Values for termination type SIBTTYE

0	BIT	1	SIBABNOR	Abnormal
0	BIT	0	SIBNRMAL	Normal

## Values for failure type SIBTFLTP

0	BIT	1	SIBTKDWN	Takedown failure
0	BIT	0	SIBSETUP	Setup failure

## Values for translation error type SIBIBAT

0	BIT	00	SIBIBATO	Bad OLU translation
0	BIT	01	SIBIBATA	Bad ASL translation
0	BIT	11	SIBIBATD	Bad DLU translation

## Values for cryptographic capabilities SIBICRYP

0	BIT	00	SIBCRPTN	Not capable
0	BIT	01	SIBCRPTC	Capable

Len	Type	Value	Name	Description
0	BIT	10	SIBCRPTS	Selective
0	BIT	11	SIBCRPTR	Required
Values for initiation time stamp contents SIBBTIMC				
0	BIT	00	SIBTMIP	SIBBTIME holds init pending time stamp
0	BIT	01	SIBTMSS	SIBBTIME holds session start time stamp
0	BIT	10	SIBTMXRF	SIBBTIME holds XRF switch time stamp
Values for initiation type request SIBITYPR				
1	HEX	00	SIBIIQ	Init or queue
1	HEX	04	SIBIONLY	Init only
1	HEX	08	SIBIQO	Queue only
Values for reason LU is unavailable SIBRLUUA				
1	HEX	00	SIBRLUIN	Initial state
1	HEX	20	SIBRLUNA	Not enabled
1	HEX	40	SIBRLUOL	Over session limit
Values for network configuration SIBRNETC				
1	HEX	00	SIBRNTU	Unknown
1	HEX	10	SIBRNTS	Same domain
1	HEX	20	SIBRNTEP	This is a session endpoint
1	HEX	28	SIBRNTND	Not in this domain
1	HEX	30	SIBRNTXD	Cross domain
1	HEX	38	SIBRNTXN	Cross network configuration but type not determined
1	HEX	40	SIBRNT2	2 Share
1	HEX	60	SIBRNTB	Back to back
Values for format for session ID SIBRFMT				
1	HEX	02	SIBRFID2	FID 2 ID
1	HEX	03	SIBRFID3	FID 3 ID
Values for SIB queue reason SIBIQREA				
0	BIT	0	SIBIQRSL	At session limit
0	BIT	1	SIBIQRNE	LU not enabled
Values for SIB queue position SIBBQP				
0	BIT	0	SIBBQPFF	FIFO queue
0	BIT	1	SIBBQPLF	LIFO queue
Values for reallocation direction SIBIRDIR				
0	BIT	0	SIBIRDS	Reallocation from SLU
0	BIT	1	SIBIRDP	Reallocation from PLU
Value for session initiation signals SIBISSSG				
1	HEX	80	SIBISSGR	The signal set is empty
Number of elements of SIBIODNA array				
4	DECIMAL	2	SIBIOCNT	
Value for session termination signals SIBTSESE				
1	HEX	80	SIBTSSGR	The signal set is empty
1	HEX	88	SIBTSSCP	CDSESEND signal from the SSCP(PLU) is the only signal needed
1	HEX	90	SIBTSSCS	CDSESEND signal from the SSCP(SLU) is the only signal needed
Values for termination flavor SIBTTMFL				
1	HEX	10	SIBTFNOR	Normal
1	HEX	20	SIBTFORD	Orderly
1	HEX	30	SIBTFFOR	Forced
1	HEX	40	SIBTFCLN	Cleanup
Values for ENA address type SIBRENAS				
0	BIT	00	SIBRENA2	Non-ENA address (2-byte)
0	BIT	01	SIBRENA4	Small-ENA address(4-byte)
0	BIT	10	SIBRENA6	Large-ENA address(6-byte)
0	BIT	11	SIBRENAX	Not defined

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTSIB	0		1	SIBIBAT	A	20	3
ISTSIBIX	0		1	SIBIBDAT	2		2
ISTSIBRX	0		1	SIBIBIP	20		2
ISTSIBX	0		1	SIBIBIPL	0		1
SIBBASE	10		2	SIBIBLEN	0		2
SIBBAUTO	50	80	4	SIBICBID	0		2
SIBBBARY	58		2	SIBICDCR	8	80	3
SIBBBIRD	50	20	4	SIBICDR	8	20	3
SIBBBWD	34		3	SIBICDSP	C	40	3
SIBBCKUP	50	01	4	SIBICDSQ	8	40	3
SIBBCOSN	10		3	SIBICDSS	C	20	3
SIBBDLMD	20		3	SIBICIPP	2C		2
SIBBDPLU	52	08	4	SIBICKST	D	80	3
SIBBDQED	57	20	4	SIBICOSA	A	04	3
SIBBERFL	55		4	SIBICOSD	10		2
SIBBERN	55	08	5	SIBICRYP	B	04	3
SIBBFLTD	57	08	4	SIBIDCOS	B	08	3
SIBBFLTR	57	10	4	SIBIDLUA	8	10	3
SIBBFQPC	4C		3	SIBIENAC	9	40	3
SIBBFW	30		3	SIBIESSP	C	02	3
SIBBIACC	52	04	4	SIBIESSS	C	04	3
SIBBICD	51	02	4	SIBIFAIL	2		2
SIBBIOLU	50	40	4	SIBIFRSN	6		3
SIBBIPTR	40		3	SIBIFRU	2		3
SIBBLGMD	18		3	SIBIFST	7		3
SIBBMSG	51	04	4	SIBIGWOD	B	01	3
SIBBMXRF	57	80	4	SIBILOGA	A	02	3
SIBBNORL	52	80	4	SIBINCPA	B	40	3
SIBBPPTR	44		3	SIBINNOT	9	20	3
SIBBPRBQ	58		3	SIBINOTR	8	08	3
SIBBPRIQ	38		4	SIBINSSP	C	08	3
SIBBPSWP	52	40	4	SIBINSSS	C	10	3
SIBBQP	51	01	4	SIBIODNA	34		2
SIBBRERI	56		4	SIBIOWNR	48		2
SIBBRERN	56	08	5	SIBIPARC	9	80	3
SIBBRRNS	51	08	4	SIBIQREA	9	04	3
SIBBSAA	52	01	4	SIBIQS	9	08	3
SIBBSAR	57	40	4	SIBIRDIR	A	40	3
SIBBSARY	38		3	SIBIRENA	A	80	3
SIBBSAWC	53		3	SIBIREQP	24		2
SIBBSAWE	50	08	4	SIBIRESP	28		2
SIBBSAWS	50	10	4	SIBIRFSM	1		2
SIBBSCI	51	10	4	SIBIRIPI	8	04	3
SIBBSEBQ	5C		3	SIBIRRR	8	02	3
SIBBSECQ	3C		4	SIBIRTIP	B	80	3
SIBBSPTR	48		3	SIBIRTRY	A	08	3
SIBBTIMC	52	20	4	SIBIRTSG	A	01	3
SIBBTIME	28		3	SIBISETI	C	80	3
SIBBTKOV	50	04	4	SIBISFL	9	01	3
SIBBTLUD	50	02	4	SIBISSSG	C		2
SIBBTPF	54	02	5	SIBISSTT	1C		2
SIBBVERS	51	20	4	SIBISXRF	9	10	3
SIBBVRER	54		3	SIBISYNI	8	01	3
SIBBVRN	54	80	5	SIBITYPR	40		2
SIBBVRTP	54		4	SIBIUNAM	D	01	3
SIBBXRFS	51	80	4	SIBIUNUD	18		2
SIBB3SHR	52	02	4	SIBIURAS	9	02	3
SIBCBID	0		2	SIBIURCA	30		2
SIBDLU	E0		2	SIBIVCNT	41		2
SIBEND	118		2	SIBOLU	A8		2
SIBFSENS	4		2	SIBPCID	8		2
SIBFSMIN	2		2	SIBRAADD	27	01	3
SIBFSMTM	3		2	SIBRACAP	27	20	3
SIBIADLU	B	10	3	SIBRADET	26	01	3

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
SIBRADJN	0		2	SIBTRSLU	91	01	5
SIBRALMT	29	08	3	SIBTSCOP	92	80	4
SIBRALNM	8		2	SIBTSESE	93		3
SIBRARQD	28	80	3	SIBTSETB	93	80	4
SIBRASNS	28	02	3	SIBTSSER	92	08	4
SIBRCBTC	26	80	3	SIBTTKDN	80		3
SIBRDYNR	27	04	3	SIBTTMCD	7C		3
SIBRELMA	36		3	SIBTTMFL	90		4
SIBRENAC	28	20	3	SIBTTRID	80		4
SIBRENAS	27	10	3	SIBTTYPE	91	40	4
SIBRESA	29	80	3	SIBTV35P	A4		3
SIBRESAC	29		2	SIBUDAT	0		1
SIBRFMT	20		3	SIBUDATA	1		2
SIBRLDOM	26	10	3	SIBUDLEN	0		2
SIBRLSID	20		2	SIBUNINT	1		2
SIBRLSXB	27	80	3	SIBUNLEN	0		2
SIBRLUMA	26	40	3	SIBUNUD	0		1
SIBRLUMD	28	08	3	SIBURC	0		1
SIBRLUUA	24		3	SIBURDAT	1		2
SIBRNETA	32		2	SIBURLEN	0		2
SIBRNETC	25		3	SIBXADAS	28	01	3
SIBRNID	10		2	SIBXADJN	8		2
SIBRODAI	23	02	5	SIBXAGWC	29	01	3
SIBRPARC	28	40	3	SIBXALMT	2B	08	3
SIBRQNE	26	08	3	SIBXANLY	29	02	3
SIBRQSLM	26	04	3	SIBXCOSN	18		2
SIBRRDET	26	02	3	SIBXERFL	39		3
SIBRRLAD	28	10	3	SIBXERN	39	08	4
SIBRRPRT	28	04	3	SIBXESA	2B	80	3
SIBRRSRC	1C		2	SIBXESAC	2B		2
SIBRSCIA	27	02	3	SIBXGFSM	1		2
SIBRSNQN	27	40	3	SIBXGWEN	28	08	3
SIBRSSE	26	20	3	SIBXGWIP	4		2
SIBRSUBA	32		3	SIBXGWNI	28		2
SIBRXPTR	18		2	SIBXGWNN	20		2
SIBR2DAF	22		4	SIBXGWRQ	29	04	3
SIBR2FLG	23		4	SIBXGWSS	2A	20	3
SIBR2ID	21		3	SIBXGWTL	28	10	3
SIBR2OAF	21		4	SIBXNCBI	0		2
SIBR3ID	21		5	SIBXNOTX	28	40	3
SIBTCDSP	92	01	4	SIBXONET	10		2
SIBTCOSS	92	02	4	SIBXPADR	2C		2
SIBTDSUS	7D	80	4	SIBXPANA	28	04	3
SIBTEPLU	91	08	5	SIBXPAND	2A	10	3
SIBTESLU	91	04	5	SIBXPELM	30		3
SIBTFLTP	91	10	4	SIBXPSUB	2C		3
SIBTNCDP	93	08	4	SIBXRERI	3A		3
SIBTNCDL	93	10	4	SIBXRERN	3A	08	4
SIBTNGWB	93	01	4	SIBXRNAA	28	80	3
SIBTNGWP	93	02	4	SIBXRNRQ	2A	80	3
SIBTNGWS	93	04	4	SIBXSADD	29	20	3
SIBTNIRS	92	20	4	SIBXSADR	32		2
SIBTNORL	92	10	4	SIBXSANA	28	02	3
SIBTNOTP	94		3	SIBXSAND	2A	08	3
SIBTNSEP	93	20	4	SIBXSCV	29	40	3
SIBTNSES	93	40	4	SIBXSCVR	29	80	3
SIBTORIG	91	80	4	SIBXSELM	36		3
SIBTPRID	88		4	SIBXSMGW	28	20	3
SIBTPROM	7D	40	4	SIBXSNAM	29	08	3
SIBTPSER	92	04	4	SIBXSSUB	32		3
SIBTRCRQ	91	20	4	SIBXSVRL	29	10	3
SIBTREAS	91		3	SIBXTPF	38	02	4
SIBTREQP	98		3	SIBXVERS	2A	40	3
SIBTRLC	92	40	4	SIBXVRER	38		2
SIBTRMIN	7C		2	SIBXVRN	38	80	4
SIBTRPLU	91	02	5	SIBXVRTP	38		3
SIBTRSCD	91	08	4				

## Session Limits for CNOS (SLCNS)

<b>Function:</b>	The application program specifies the SLCNS structure when it issues the APPCCMD CNOS macroinstruction. The SLCNS provides VTAM with the CNOS session limits and other parameters that are not in the RPL or RPL6X.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	7
<b>Located in:</b>	User's storage.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	ISTSLCNS	SESSION LIMITS FOR CNOS
0	(0)	SIGNED	2	SLCSESSL	SESSION LIMIT
2	(2)	SIGNED	2	SLCMCWL	MINIMUM NUMBER OF CONTENTION WINNER SESSIONS - LOCAL LU
4	(4)	SIGNED	2	SLCMCWP	MINIMUM NUMBER OF CONTENTION WINNER SESSION - PARTNER LU
6	(6)	BITSTRING	1	SLCPARMS	CNOS PARAMETERS
		1... ....		SLCDRAL	DRAINING OF LOCAL LU: B'0' - NO DRAINING REQUESTED, B'1' - DRAINING REQUESTED
		.1.. ....		SLCDRAP	DRAINING OF PARTNER LU: B'0' - NO DRAINING REQUESTED, B'1' - DRAINING REQUESTED
		..1. ....		SLCPRSPL	RESPONSIBLE FOR DEACTIVATION: B'0' - LOCAL LU RESPONSIBLE, B'1' - PARTNER LU RESPONSIBLE
		...1 ....		SLCALL	INDICATES IF CNOS IS FOR ONE MODE OR ALL MODES: B'0' - ONE MODE, B'1' - ALL MODES
		.... 1...		SLCSSLU	INDICATES IF THE PARTNER LU IS ONLY SINGLE SESSION CAPABLE B'0' - SINGLE SESSION CAPABILITY IS UNKNOWN B'1' - SINGLE SESSION CAPABILITY IS KNOWN
		.... .111		SLCLCLSI	LOCAL LU SECURITY SUBFIELD ACCEPTANCE INDICATORS
		.... .1..		SLCLCONV	LOCAL LU ACCEPTS SECURITY SUBFIELDS ON FMH5
		.... ..1.		SLCLAVFA	LOCAL LU ACCEPTS REQUESTS FOR ALREADY VERIFIED
		.... ...1		*	RESERVED

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSLCNS	0		1
SLCALL	6	10	3
SLCDRAL	6	80	3
SLCDRAP	6	40	3
SLCLAVFA	6	02	4
SLCLCLSI	6	04	3
SLCLCONV	6	04	4
SLCMCWL	2		2
SLCMCWP	4		2
SLCPARMS	6		2
SLCPRSPL	6	20	3
SLCSESSL	0		2
SLCSSLU	6	08	3

## Session Limits—Define or Display (SLD)

<b>Function:</b>	SLD structure is specified by the application program when it issues the APPCCMD DEFINE or DISPLAY. For DEFINE, it provides VTAM with the defined session limits and other defined parameters needed to do CNOS negotiations. For DISPLAY, it provides VTAM with a structure to fill in certain LM table parameters that are returned to the application.
<b>Boundary:</b>	Halfword.
<b>Size in bytes:</b>	64 (X'40')
<b>Located in:</b>	User's storage.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	ISTSLD	SESSION LIMITS-DEFINE/DISPLAY
0	(0)	CHARACTER	40	SLDLUPAR	LU SPECIFIC FIELDS
0	(0)	BITSTRING	1	SLDLU1	LU SPECIFIC FIELDS - BYTE 1
		11.. ....		SLDSCAP	LU'S SESSION CAPABILITY
		..11 ....		SLDSYNCH	NEGOTIATED LEVEL OF SYNCHRONIZATION
		.... 1111		*	NOT USED
1	(1)	BITSTRING	1	SLDLU2	LU SPECIFIC FIELD - BYTE 2
		1... ....		SLDCLSV	SECURITY SUBFIELD ACCEPTANCE INFORMATION IS VALID
		..111 ....		SLDPCLSI	PARTNER LU SECURITY ACCEPTANCE INFORMATION
		..1. ....		SLDPCLSA	PARTNER LU ACCEPTS SECURITY SUBFIELDS ON FMH5
		..1. ....		SLDPAVFA	PARTNER LU ACCEPTS REQUESTS FOR ALREADY VERIFIED FUNCTION
		...1 ....		*	NOT USED
		.... 111.		SLDLCLSI	LOCAL LU SECURITY ACCEPTANCE INFORMATION FOR SESSIONS WITH THIS PARTNER
		.... 1...		SLDLCLSA	LOCAL LU ACCEPTS SECURITY SUBFIELDS ON FMH5 FROM THIS PARTNER LU
		.... ..1.		SLDLAVFA	LOCAL LU ACCEPTS REQUESTS FOR ALREADY VERIFIED FUNCTION
		.... ..1.		*	NOT USED
		.... ...1		*	NOT USED
2	(2)	UNSIGNED	1	SLDFQNLN	LENGTH OF FULLY QUALIFIED PARTNER LU NAME
3	(3)	CHARACTER	17	SLDFQNAM	FULLY QUALIFIED PARTNER LU NAME
20	(14)	CHARACTER	20	*	NOT USED
40	(28)	SIGNED	2	SLDDSESL	DEFINED SESSION LIMIT
42	(2A)	SIGNED	2	SLDDMCWL	DEFINED NUMBER OF CONTENTION WINNER SESSIONS -- LOCAL LU
44	(2C)	SIGNED	2	SLDDMCWP	DEFINED NUMBER OF CONTENTION WINNER SESSIONS -- PARTNER LU
46	(2E)	BITSTRING	1	SLDDEFPA	DEFINED PARAMETERS
		1... ....		SLDDRSPL	DEFINED ACCEPTANCE OF DEACTIVATION RESPONSIBILITY: B'0' - WILL NOT ACCEPT, B'1' - WILL ACCEPT
		..1. ....		SLDDDRAL	DEFINED ACCEPTANCE OF REQUEST TO DRAIN QUEUED ALLOCATES: B'0' - WILL NOT ACCEPT, B'1' - WILL ACCEPT
		..1. ....		SLDDELET	DELETION OF THE MODE: B'0' - DO NOT DELETE, B'1' - DO DELETE
		...1 1111		*	NOT USED
47	(2F)	BITSTRING	1	SLDCNSPA	CNOS PARAMETERS
		1... ....		SLDDRAL	DRAINING OF LOCAL LU: B'0' - NO DRAINING, B'1' - ALLOW DRAINING
		..1. ....		SLDDRAP	DRAINING OF PARTNER LU: B'0' - NO DRAINING, B'1' - ALLOW DRAINING
		..11 1111		*	NOT USED
48	(30)	SIGNED	2	SLDSESSL	SESSION LIMIT
50	(32)	SIGNED	2	SLDMCWL	MINIMUM NUMBER OF CONTENTION WINNER SESSIONS -- LOCAL LU



Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
52	(34)	SIGNED	2	SLDMCWP	MINIMUM NUMBER OF CONTENTION WINNER SESSIONS -- PARTNER LU	
54	(36)	SIGNED	2	SLDAUTO	AUTO ACTIVATE LIMIT	
56	(38)	SIGNED	2	SLDSESSC	CURRENT SESSION COUNT	
58	(3A)	SIGNED	2	SLDWINLC	NUMBER OF CURRENT CONTENTION WINNER SESSIONS -- LOCAL LU	
60	(3C)	SIGNED	2	SLDWINPC	NUMBER OF CURRENT CONTENTION WINNER SESSIONS -- PARTNER LU	
62	(3E)	SIGNED	2	SLDFREEC	NUMBER OF FREE SESSIONS	

### Constants

Len	Type	Value	Name	Description
0	BIT	00	SLDSINGL	SINGLE SESSION CAPABLE
0	BIT	01	SLDPNDGS	PENDING SINGLE STATE
0	BIT	10	SLDPNDGP	PENDING PARALLEL STATE
0	BIT	11	SLDPARR	PARALLEL SESSION CAPABLE

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VALUES FOR SLDSYNCH				
0	BIT	00	SLDSYNRT	SYNCHRONIZATION LEVEL NOT SET
0	BIT	01	SLDCONF	CONFIRM SUPPORTED
0	BIT	10	SLDCSBK	CONFIRM, SYNC POINT AND BACKOUT SUPPORTED

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSLD	0		1
SLDAUTO	36		2
SLDCLSV	1	80	4
SLDCNSPA	2F		2
SLDDDRAL	2E	40	3
SLDDEFFA	2E		2
SLDDELET	2E	20	3
SLDDMCWL	2A		2
SLDDMCWP	2C		2
SLDDRAL	2F	80	3
SLDDRAP	2F	40	3
SLDDRSPL	2E	80	3
SLDDSESL	28		2
SLDFQNAM	3		3
SLDFQNLN	2		3
SLDFREEC	3E		2
SLDLAVFA	1	04	5
SLDLCLSA	1	08	5
SLDLCLSI	1	08	4
SLDLUPAR	0		2
SLDLU1	0		3
SLDLU2	1		3
SLDMCWL	32		2
SLDMCWP	34		2
SLDPAVFA	1	20	5
SLDPCLSA	1	40	5
SLDPCLSI	1	40	4
SLDSCAP	0	80	4
SLDSESSC	38		2
SLDSESSL	30		2
SLDSYNCH	0	20	4
SLDWINLC	3A		2
SLDWINPC	3C		2

## Storage Prefix—Common Storage (SMHDR)

<b>Function:</b>	The SMHDR precedes storage obtained by GETSTOR and VTALLOc macroinstructions from common storage. This header allows VTAM to track buffer use and to release the storage when VTAM is terminated.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	16 (X'10')
<b>Pointed to by:</b>	ATCOROBT (ATCVT) ATCORTBF (ATCVT)
<b>Located in:</b>	SMHDR begins 16 bytes in front of a VTAM data area obtained from common storage via the GETSTOR or VTALLOc macroinstructions.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ISTSMHDR	
0	(0)	ADDRESS	4	SMHCHOBT	CHAIN POINTER TO OBTAIN QUEUE
0	(0)	ADDRESS	4	SMHFORW	FORWARD CHAIN POINTER
4	(4)	ADDRESS	4	SMHCHTBF	CHAIN PTR TO TO-BE-FREED STORAGE
4	(4)	ADDRESS	4	SMHBACK	BACKWARD CHAIN POINTER
8	(8)	CHARACTER	4	SMHCHAR	REQUEST CHARACTERISTICS
8	(8)	UNSIGNED	1	SMHSBPL	SUBPOOL NUMBER
		1... ....		SMHPGFR	1 = PAGE TO BE FREED
		.1.. ....		SMHCSQAF	1 = STORAGE OBTAINED FROM CSA/SQA
		..1. ....		SMHPERF	1 = PERSISTENT STORAGE
		...1 ....		*	NOT USED
		.... 1..		*	NOT USED
		.... .1..		*	NOT USED
		.... ..1.		*	NOT USED
		.... ...1		*	NOT USED
10	(A)	BITSTRING	1	SMHKEY	PROTECTION KEY
11	(B)	BITSTRING	1	SMHFREED	FF INDICATES STORAGE HAS ALREADY BEEN FREED
12	(C)	SIGNED	4	SMHLONG	LENGTH OF REQUEST

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTSCHDR	MUST MAP LAST 2 WORDS OF ISTSMHDR
0	(0)	CHARACTER	4	SCHCHAR	REQUEST CHARACTERISTICS
0	(0)	UNSIGNED	1	SCHSBPL	SUBPOOL NUMBER
		1... ....		SCHPGFR	1 = PAGE TO BE FREED
		.1.. ....		SCHCSQAF	1 = STORAGE OBTAINED FROM CSA/SQA
		..1. ....		SCHPERF	1 = PERSISTENT STORAGE
		...1 ....		*	NOT USED
		.... 1..		*	NOT USED
		.... .1..		*	NOT USED
		.... ..1.		*	NOT USED
		.... ...1		*	NOT USED
2	(2)	BITSTRING	1	SCHKEY	PROTECTION KEY
3	(3)	BITSTRING	1	SCHFREED	FF INDICATES STORAGE HAS ALREADY BEEN FREED
4	(4)	SIGNED	4	SCHLONG	LENGTH OF REQUEST

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTSCHDR	0		1
ISTSMHDR	0		1
SCHCHAR	0		2
SCHCSQAF	1	40	3
SCHFREED	3		3
SCHKEY	2		3
SCHLONG	4		2
SCHPERF	1	20	3
SCHPGFR	1	80	3
SCHSBPL	0		3
SMHBACK	4		3
SMHCHAR	8		2
SMHCHOBT	0		2
SMHCHTBF	4		2
SMHCSQAF	9	40	3
SMHFORW	0		3
SMHFREED	B		3
SMHKEY	A		3
SMHLONG	C		2
SMHPERF	9	20	3
SMHPGFR	9	80	3
SMHSBPL	8		3

## Command Service Manager Parameter List (SMP)

<b>Function:</b>	Logical unit services uses the SMP to process end-user requests, SNA RUs, and service management requests.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	44 (X'2C')
<b>Pointed to by:</b>	RUPERQP (RUPE) - on entry to any of the LUS service manager request processors
<b>Included Blocks:</b>	URC (SMPURC)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	44	ISTSMP	SERVICE MANAGER PARAMETER LIST	
0	(0)	UNSIGNED	1	SMPTYPE	Control block id	
1	(1)	CHARACTER	1	*	NOT USED - AVAILABLE	
2	(2)	SIGNED	2	SMPLENGTH	LENGTH OF SMP AREA	
4	(4)	ADDRESS	4	SMRPL	Pointer TO RPL FOR REQUEST	
8	(8)	ADDRESS	4	SMPST	POINTER TO PST ASSOCIATED WITH THE REQUEST	
12	(C)	ADDRESS	4	SMPNIBPT	SAVED ADDRESS OF FIRST NIB IN A NIB LIST	
16	(10)	UNSIGNED	4	SMPVSCID	SAVE THE CID CORRESPONDING TO THE FIRST SUCCESS IN THE NIB LIST	
20	(14)	UNSIGNED	2	SMPSECT	KEEP TRACK OF THE NUMBER OF SUCCESSFUL OPERATIONS ON A NIB LIST	
22	(16)	CHARACTER	14	SMPURC	USER REQUEST CORRELATOR	
36	(24)	UNSIGNED	4	*	RESERVED	
40	(28)	UNSIGNED	2	*	RESERVED	
42	(2A)	CHARACTER	2	*	NOT USED - AVAILABLE	
44	(2C)	CHARACTER		SMPEND	BEGINNING OF UNFORMATTED SECTION OF THE SMP	

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	99	SMPID	Control block id

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSMP	0		1
SMPEND	2C		2
SMPLENGTH	2		2
SMPNIBPT	C		2
SMPST	8		2
SMRPL	4		2
SMPSECT	14		2
SMPVSCID	10		2
SMPTYPE	0		2
SMPURC	16		2

## Sense Status Information (SNS)

<b>Function:</b>	SNS maps SNA sense information.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	4
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for more information about sense data and <i>VTAM Messages and Codes</i> for more detailed descriptions of these codes.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTSNS	SENSE DATA AREA
0	(0)	UNSIGNED	1	SNSMAJ	MAJOR SENSE CODE
1	(1)	UNSIGNED	1	SNSMOD	MAJOR CODE MODIFIER
2	(2)	UNSIGNED	2	SNSUSD	USER SENSE DATA

### Constants

Len	Type	Value	Name	Description
1	HEX	80	SNSMAJPE	MAJOR = PATH ERROR
1	HEX	40	SNSMAJRH	MAJOR = RH USAGE ERROR
1	HEX	20	SNSMAJSE	MAJOR = STATE ERROR
1	HEX	10	SNSMAJRE	MAJOR = REQUEST ERROR
1	HEX	08	SNSMAJRR	MAJOR = REQUEST REJECT
1	HEX	00	SNSMAJUS	MAJOR = USER SENSE ONLY
<b>NO ERROR SENSE CODE ('00000000'X)</b>				
4	HEX	FFFFFFFF	SNSDUMMY	DUMMY FOR REWRITE
2	HEX	0000	SNSCSUCC	NO ERROR CATEGORY
4	HEX	00000000	SNSSUCC	NO ERROR SENSE CODE
<b>MAJOR = PATH ERROR ('80..0000'X)</b>				
4	HEX	80010000	SNSPEINF	INTERMEDIATE NODE FAILURE
4	HEX	80020000	SNSPEDLF	DATA LINK FAILURE
4	HEX	80030000	SNSPELUI	LOGICAL UNIT INOPERATIVE
4	HEX	80030003	SNSPEULU	UNRECOVERABLE LOGICAL UNIT FAILURE
4	HEX	80040000	SNSPEDAF	UNRECOGNIZED DAF
4	HEX	80050000	SNSPENOS	NO SESSION
4	HEX	80050001	SNSPENLL	RECEIVED REQUEST OTHER THAN SESSION CONTROL WHEN NO LU-LU SESSION ACTIVE
4	HEX	80050002	SNSPENSC	RECEIVED REQUEST OTHER THEN SESSION CONTROL WHEN NO LU-SSCP SESSION ACTIVE
4	HEX	80050003	SNSPEBUB	RECEIVED SESSION CONTROL REQUEST OTHER THEN BIND/ UNBIND, NO ACTIVE LU-LU
4	HEX	80050004	SNSPEUNB	RECEIVED UNBIND WHEN NO ACTIVE LU-LU SESSION
4	HEX	80050005	SNSPENAD	RECEIVED SESSION CONTROL REQUEST OTHER THEN ACTLU/ DACTLU, NO ACTIVE LU-SSCP SESSION
4	HEX	80050006	SNSPEADN	RECEIVED DACTLU WHEN NO ACTIVE LU-SSCP SESSION
4	HEX	80060000	SNSPEFID	INVALID FORMAT ID
4	HEX	80070000	SNSPESEG	SEGMENTING ERROR
4	HEX	80080000	SNSPEPNA	PHYSICAL UNIT NOT ACTIVE
4	HEX	80090000	SNSPELNA	LOGICAL UNIT NOT ACTIVE
4	HEX	800A0000	SNSPETLP	TOO LONG PIU
4	HEX	800B0000	SNSPEITH	INCOMPLETE TH FIELD
4	HEX	800C0000	SNSPEDCF	INCONSISTENT DCF IN TH
4	HEX	800D0000	SNSPELOC	LOST CONTACT
4	HEX	800E0000	SNSPEOAF	UNRECOGNIZED OAF
4	HEX	800F0000	SNSPECID	INVALID (OAF,DAF) COMBINATION
4	HEX	80100000	SNSPESRE	SEGMENTED RU LENGTH ERROR
4	HEX	80110000	SNSPEERO	ENR=0 NOT OPERATIVE OR VRCE CANNOT BE ACTIVATED

Len	Type	Value	Name	Description
4	HEX	80120000	SNSPEIVR	INVALID VIRTUAL ROUTE FOR SPECIFIED SESSION
4	HEX	80130000	SNSPECNA	CLASS OF SERVICE NOT AVAILABLE
4	HEX	80130001	SNSPESNM	COS NOT AVAILABLE -- NO EXPLICIT ROUTE-VIRTUAL ROUTE MAPPING AVAILABLE (SINGLE NETWORK)
4	HEX	80130002	SNSPESNE	COS NOT AVAILABLE -- NO EXPLICIT ROUTES DEFINED (SINGLE NETWORK)
4	HEX	80130003	SNSPESNV	COS NOT AVAILABLE --NO VIRTUAL ROUTE RESOURCE AVAILABLE (SINGLE NETWORK)
4	HEX	80130004	SNSPESEO	COS NOT AVAILABLE--NO EXPLICIT ROUTE OPERATIVE (SINGLE NETWORK)
4	HEX	80130005	SNSPESEA	COS NOT AVAILABLE -- NO EXPLICIT ROUTE CAN BE ACTIVATED (SINGLE NETWORK)
4	HEX	80130006	SNSPESVA	COS NOT AVAILABLE -- NO VIRTUAL ROUTE CAN BE ACTIVATED (SINGLE NETWORK)
4	HEX	80130007	SNSPEMVR	NO VIRTUAL ROUTE IDENTIFIER LIST AVAILABLE
4	HEX	80130100	SNSPEINA	COS NOT AVAILABLE -- NO SPECIFIC DATA SPECIFIED (INTERCONNECTED NETWORK)
4	HEX	80130101	SNSPEINM	COS NOT AVAILABLE --NO EXPLICIT ROUTE-VIRTUAL ROUTE MAPPING AVAILABLE (INTERCONNECTED NETWORK)
4	HEX	80130102	SNSPEINE	COS NOT AVAILABLE --NO EXPLICIT ROUTES DEFINED (INTERCONNECTED NETWORK)
4	HEX	80130103	SNSPEINV	COS NOT AVAILABLE--NO VIRTUAL ROUTE RESOURCE AVAILABLE (INTERCONNECTED NETWORK)
4	HEX	80130104	SNSPEIEO	COS NOT AVAILABLE-- NO EXPLICIT ROUTE OPERATIVE (INTERCONNECTED NETWORK)
4	HEX	80130105	SNSPEIEA	COS NOT AVAILABLE-- NO EXPLICIT ROUTE CAN BE ACTIVATED (INTERCONNECTED NETWORK)
4	HEX	80130106	SNSPEIVA	COS NOT AVAILABLE -- NO VIRTUAL ROUTE CAN BE ACTIVATED (INTERCONNECTED NETWORK)
4	HEX	80170000	SNSPENEV	ADJACENT NODE DOES NOT SUPPORT ER/VR PROTOCOLS
4	HEX	80200000	SNSRRIVR	SESSION RESET
4	HEX	80200007	SNSRRSTR	SESSION TERMINATION REQUESTED
4	HEX	80200008	SNSRRNRC	NO RESET CAUSE
4	HEX	80200009	SNSRRTSR	TERM SELF REQUEST FORM THE SLU
<hr/>				
MAJOR = RH USAGE ERROR ('40..0000'X)				
4	HEX	40010000	SNSRHINV	INVALID SC OR NC RH
4	HEX	40020000	SNSRHCRP	RESERVED
4	HEX	40030000	SNSRHBBN	BEGIN BRACKET NOT ALLOWED
4	HEX	40040000	SNSRHBBN	END BRACKET NOT ALLOWED
4	HEX	40050000	SNSRHIRH	INCOMPLETE RH FIELD
4	HEX	40060000	SNSRHEXA	EXCEPTION NOT ALLOWED
4	HEX	40070000	SNSRHDR	DEFINITE RESPONSE NOT ALLOWED
4	HEX	40080000	SNSRHPCS	PACING NOT SUPPORTED
4	HEX	40090000	SNSRHCD	CHANGE DIRECTION NOT ALLOWED
4	HEX	400A0000	SNSRHNRA	NO RESPONSE NOT ALLOWED
2	HEX	400B	SNSSCHNS	CHAINING NOT SUPPORTED CATEGORY
4	HEX	400B0000	SNSRHCHNS	CHAINING NOT SUPPORTED
4	HEX	400C0000	SNSRHBR	BRACKETS NOT SUPPORTED
4	HEX	400D0000	SNSRHCD	CHANGE DIRECTION NOT SUPPORTED
4	HEX	400E0000	SNSRHSDA	RESERVED
4	HEX	400F0000	SNSRHFIA	FORMAT INDICATOR NOT ALLOWED
4	HEX	40100000	SNSRHACS	ALTERNATE CODE NOT SUPPORTED
4	HEX	40110000	SNSRHIRC	INCORRECT SPECIFICATION OF RU CATEGORY
4	HEX	40120000	SNSRHIRQ	INCORRECT SPECIFICATION OF REQUEST CODE
4	HEX	40130000	SNSRHISD	INCORRECT SPECIFICATION OF SENSE DATA OR RESPONSE INDICATOR
4	HEX	40140000	SNSRHIDR	INCORRECT USE DEFINITE AND EXCEPTION RESPONSE
4	HEX	40150000	SNSRHICR	INCORRECT USE QUEUED RESPONSE INDICATOR
4	HEX	40160000	SNSRHIED	INCORRECT USE ENCIIPHERED DATA INDICATOR
4	HEX	40170000	SNSRHIPD	INCORRECT USE PADDED DATA INDICATOR
4	HEX	40180000	SNSRHSQR	INCORRECT SETTING OF QRI WITH BIDDERS BB
4	HEX	40190000	SNSRHILC	INCORRECT INDICATORS WITH LAST-IN-CHAIN REQUEST

Len	Type	Value	Name	Description
4	HEX	40210000	SNSRHQRR	QRI SETTING IN RESPONSE DIFFERENT FROM THAT IN REQUEST
<b>MAJOR = STATE ERROR ('20..0000'X)</b>				
4	HEX	20010000	SNSSESEQ	SEQUENCE NUMBER ERROR
4	HEX	20020000	SNSSECFE	CHAINING ERROR
4	HEX	20030000	SNSSEBRK	BRACKET ENFORCEMENT ERROR
4	HEX	20040000	SNSSEDIR	DIRECTION ERROR
4	HEX	20050000	SNSSEDTR	DATA TRAFFIC RESET
4	HEX	20060000	SNSSEDTQ	DATA TRAFFIC QUIESCED
4	HEX	20070000	SNSSENRS	DATA TRAFFIC NOT RESET
4	HEX	20080000	SNSSENBB	NO BEGIN BRACKET
4	HEX	20090000	SNSSESPV	SC PROTOCOL VIOLATION
4	HEX	200A0000	SNSSEIRE	IMMEDIATE REQUEST MODE ERROR
4	HEX	200B0000	SNSSEQRE	QUEUED RESPONSE ERROR
4	HEX	200E0000	SNSSERCE	RESPONSE CORRELATION ERROR
4	HEX	200F0000	SNSSERPE	RESPONSE PROTOCOL ERROR
4	HEX	20100000	SNSSEBPE	BIS PROTOCOL ERROR
4	HEX	20110000	SNSSEPER	PACING ERROR
4	HEX	20120000	SNSSEISC	INVALID SENSE CODE RECEIVED
<b>MAJOR = REQUEST ERROR ('10..0000'X)</b>				
2	HEX	1001	SNSCERUD	RU DATA ERROR CATEGORY
4	HEX	10010000	SNSRERUD	RU DATA ERROR
4	HEX	10010001	SNSRERDA	A NETWORK ADDRESS WAS ZERO OR WAS GREATER THAN MAXSUBA WITHIN THE SPECIFIED OR IMPLIED NETWORK
4	HEX	10010003	SNSREIPM	INVALID IPM FORMAT
4	HEX	10010008	SNSREICC	IMPROPER CHARACTER CODE
4	HEX	10010009	SNSREDFU	FOMATTED DATA FIELD UNACCEPTABLE TO PRESENTATION SERVICES
4	HEX	1001000A	SNSREILF	INVALID LENGTH FIELD FOR STRUCTURED FIELD
4	HEX	1001000B	SNSREINF	INVALID NAME LENGTH FIELD
4	HEX	1001000C	SNSREICK	INVALID CRYPTOGRAPHY KEY LENGTH
4	HEX	1001000D	SNSREIUF	INVALID URC FIELD LENGTH
4	HEX	1001000E	SNSRECVL	CONTROL VECTOR LENGTH FIELD INCONSISTENT WITH THE CONTROL VECTOR DATA
4	HEX	1001000F	SNSREIPS	INVAILD PLU/SLU SPECIFICATION
4	HEX	10010020	SNSRETMS	TOO MANY SESSION KEYS PRESENT
4	HEX	10010021	SNSRECVI	CONTROL VECTOR DATA INVALID
4	HEX	10010022	SNSREIBI	INVALID BIND IMAGE
4	HEX	10010023	SNSREIDC	INVALID DEVICE CHARACTERISTICS
2	HEX	1002	SNSCERUL	RU LENGTH ERROR CATEGORY
4	HEX	10020000	SNSRERUL	RU LENGTH ERROR
4	HEX	10030000	SNSREFNS	FUNCTION NOT SUPPORTED
4	HEX	10030002	SNSREPM	FUNCTION NOT SUPPORTED -- GATEWAY CAPABILITIES HAVE BEEN REQUESTED ON A SESSION NOT ACTIVATED TO SUPPORT THE GATEWAY FUNCTION
4	HEX	10030010	SNSRERUN	THE RU IS NOT KNOWN TO SESSION SERVICES
4	HEX	10030011	SNSRESNS	SESSION KEY IS NOT SUPPORTED
4	HEX	10030012	SNSRECVN	CONTROL VECTOR IS NOT SUPPORTED
4	HEX	10030014	SNSRECRN	CRYPTOGRAGHY IS NOT SUPPORTED BUT A LENGTH IS SPECIFIED FOR THE CRYPTOGRAPHY KEY
4	HEX	10030015	SNSREQNS	QUEUEING NOT SUPPORTED FOR A CONTROLLER SESSION
4	HEX	10030020	SNSRESSN	INITIATION SPECIFIED SAME OLU AND DLU
4	HEX	10030021	SNSREIPI	SESSION INITIATION REQUEST OTHER THAN BFINIT IDENTIFIES AN INDEPENDENT PLU AS A SESSION PARTNER. THE INDEPENDENT PLU MUST ALWAYS INITIATE A SESSION BY SENDING BFINIT.
4	HEX	10040000	SNSRER04	RESERVED
4	HEX	10050000	SNSREPRM	PARAMETER ERROR
4	HEX	10050004	SNSREDTP	INVALID DISPLAY TYPE
4	HEX	10050005	SNSRESTL	INVALID STORAGE LENGTH
4	HEX	10050006	SNSRESTA	INVALID STORAGE ADDRESS
4	HEX	10060000	SNSRER06	RESERVED
4	HEX	10060001	SNSRERCO	ONE OF MORE REQUIRED COS NAME(S) WERE OMITTED

Len	Type	Value	Name	Description
4	HEX	10060002	SNSRERNO	REQUIRED NAME FIELD OMITTED
4	HEX	10060003	SNSRERIO	REQUIRED NETWORK IDENTIFIER WAS OMITTED
4	HEX	10060004	SNSRERSO	REQUIRED SESSION KEY WAS OMITTED
4	HEX	10060005	SNSRERVO	REQUIRED CONTROL VECTOR WAS OMITTED
4	HEX	10070000	SNSRECNS	CATEGORY NOT SUPPORTED
4	HEX	10080000	SNSREIFH	INVALID FM HEADER
4	HEX	1008200E	SNSREICI	INVALID CONCATENATION INDICATOR
4	HEX	1008201D	SNSREFDM	FM HEADER AND ASSOCIATED DATA MISMATCH
4	HEX	10084001	SNSREIFT	INVALID FM HEADER TYPE
4	HEX	10086000	SNSREFLC	FM HEADER LENGTH NOT CORRECT
4	HEX	10086005	SNSREALN	ACCESS SECURITY INFORMATION LENGTH FIELD NOT CORRECT
4	HEX	10086009	SNSREIPL	INVALID PARAMETER LENGTH
4	HEX	1008600B	SNSRERFN	UNRECOGNIZED FM HEADER COMMAND CODE
4	HEX	10086011	SNSREILU	INVALID LOGICAL UNIT OF WORK
4	HEX	10086021	SNSRETPN	TRANSACTION PROGRAM NAME NOT RECOGNIZED
4	HEX	10086031	SNSREPNA	PIP NOT ALLOWED
4	HEX	10086032	SNSREPNS	PIP NOT SPECIFIED CORRECTLY
4	HEX	10086034	SNSRECTM	CONVERSATION TYPE MISMATCH
4	HEX	10086040	SNSREIAP	INVALID ATTACH PARAMETER
4	HEX	10086041	SNSRESLN	SYNCHRONIZATION LEVEL NOT SUPPORTED
4	HEX	10086042	SNSRERLN	RECONNECTION NOT SUPPORTED
4	HEX	10086043	SNSRETNA	UNABLE TO RECONNECT TRANSACTION PROGRAM NO RETRY
4	HEX	10086044	SNSRETPR	UNABLE TO RECONNECT TRANSACTION PROGRAM RETRY
4	HEX	101C0000	SNSRERIA	NO SPECIFIC CODE APPLIES
4	HEX	101C0001	SNSREIDA	ALTERATION OF INPUT DATA NOT ALLOWED
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MAJOR = REQUEST REJECT ('08..0000'X)				
4	.HEX	08010000	SNSRRRSA	RESOURCE NOT AVAILABLE
4	HEX	08010001	SNSRRRST	RESOURCE UNAVAILABLE TEMPORARY CONDITION
4	HEX	08010003	SNSRRANA	ALIAS APPLICATION NOT AVAILABLE TO PERFORM NAME TRANSLATION
4	HEX	08010009	SNSRRPBL	PLU BLOCKING LOGONS
4	HEX	0801000A	SNSRRPQU	PLU QUIESCING
4	HEX	0801000B	SNSRRPCR	PLU UNABLE TO COMPLY TO PLU-SLU ROLE
4	HEX	0801000C	SNSRRSCR	SLU UNABLE TO COMPLY TO PLU-SLU ROLE
4	HEX	0801000D	SNSRRZNT	SSCP UNAVAILABLE - TERMINATION IN PROGRESS DUE TO VTAM HALT
4	HEX	0801000F	SNSRRSQU	SLU QUIESCING
4	HEX	08010010	SNSRRNLA	SWITCHED SUBAREA CONNECTION CANNOT BE ESTABLISHED BECAUSE NO SWITCHED SUBAREA LINKS HAVE BEEN ACTIVATED
4	HEX	08010011	SNSRRNGW	SWITCHED SUBAREA CONNECTION TO ANOTHER NETWORK CANNOT BE ESTABLISHED BECAUSE NO SWITCHED SUBAREA LINKS HAVE BEEN ACTIVATED WITHIN GATEWAY PU
4	HEX	08010013	SNSRRSHM	A SWITCHED DIAL CONNECTION CANNOT BE ESTABLISHED BECAUSE A SHM GROUP WAS NOT DEFINED IN THE SWITCHED PUS PATH TABLES
4	HEX	08010014	SNSRRRQC	A SWITCHED DIAL CONNECTION CANNOT BE ESTABLISHED BECAUSE VERIFY= OUT/INOUT WAS SPECIFIED ON A PATH MACRO WITH A GROUP DEFINED FOR AN NCP THAT DOES NOT SUPPORT EXTENDED REQUEST CONTACT
4	HEX	08030000	SNSRRMPW	MISSING PASSWORD
4	HEX	08040000	SNSRRIPW	INVALID PASSWORD
2	HEX	0805	SNSCRSLE	SESSION LIMIT EXCEEDED CATEGORY
4	HEX	08050000	SNSRRSLE	SESSION LIMIT EXCEEDED
4	HEX	08050001	SNSRRCWS	LIMIT OF CONTENTION WINNER SESSION EXCEEDED
4	HEX	08050002	SNSRRSLH	XRF BACKUP SESSION LIMIT EXCEEDED
4	HEX	08050003	SNSRRSLP	XRF PRIMARY (OR NON- XRF) SESSION LIMIT EXCEEDED
4	HEX	08050009	SNSRRPSE	PLU SESSION LIMIT EXCEEDED
4	HEX	0805000A	SNSRRSSE	SLU SESSION LIMIT EXCEEDED
4	HEX	0805000B	SNSRRPSN	SESSION ALREADY EXISTS AND PARALLEL SESSIONS ARE NOT SUPPORTED



Len	Type	Value	Name	Description
4	HEX	0805000C	SNSRRDCS	DUPLICATE SESSION EXISTS - CONTROLLER SESSION NOT ESTABLISHED
4	HEX	08060000	SNSRRRSU	RESOURCE UNKNOWN
4	HEX	08060001	SNSRRRSRU	SUBVECTOR RESOURCE UNKNOWN
4	HEX	08060011	SNSRRUON	UNKNOWN OLU NAME SPECIFIED ON REQUEST
4	HEX	08060012	SNSRRULN	UNKNOWN DLU NAME SPECIFIED ON REQUEST
4	HEX	08060013	SNSRRUSN	UNKNOWN SLU NAME SPECIFIED BY REQUEST
4	HEX	08060014	SNSRRUPN	UNKNOWN PLU NAME SPECIFIED ON REQUEST
4	HEX	08060015	SNSRRUOA	UNKNOWN OLU ADDRESS SPECIFIED ON REQUEST
4	HEX	08060016	SNSRRUDA	UNKNOWN DLU ADDRESS SPECIFIED ON REQUEST
4	HEX	08060017	SNSRRUSA	UNKNOWN SLU ADDRESS SPECIFIED ON REQUEST
4	HEX	08060018	SNSRRUPA	UNKNOWN PLU ADDRESS SPECIFIED ON REQUEST
4	HEX	08060021	SNSRRDUO	THE SESSION INIT REQUEST SPECIFIED THAT THE RECEIVING SSCP IS THE OWNING SSCP FOR THE DLU BUT THE DLU IS UNKNOWN TO THE RECEIVING SSCP
4	HEX	08060022	SNSRROUR	ORIGINATOR OF REQUEST IS UNKNOWN TO RECEIVER
4	HEX	08060023	SNSRRDUS	DESTINATION OF REQUEST UNKNOWN TO SENDER
4	HEX	08060024	SNSRRUL1	UNKNOWN LU1 NAME SPECIFIED ON REQUEST
4	HEX	08060025	SNSRRUL2	UNKNOWN LU2 NAME SPECIFIED ON REQUEST
4	HEX	08060026	SNSRRNSB	SSCP HAS NO SESSION WITH BOUNDARY FUNCTION PU
4	HEX	08060027	SNSRRSPU	SWITCHED PU UNKNOWN
4	HEX	08060028	SNSRRNA1	NAU1 NETWORK ADDRESS IS UNKNOWN
4	HEX	08060029	SNSRRNA2	NAU2 NETWORK ADDRESS IS UNKNOWN
4	HEX	0806002A	SNSRRNIV	NAU2 NAME IN THE CONTACT OR ACTLU DOES NOT CORRESPOND TO THE RESOURCE TARGET ADDRESS
4	HEX	08070000	SNSRRRSN	RESOURCE NOT AVAILABLE
4	HEX	08080000	SNSRRICI	INVALID CONTENTS ID
4	HEX	08090000	SNSRRMDI	MODE INCONSISTENCY
4	HEX	0809001C	SNSRRIDI	MODE INCONSISTENCY -- NETWORK ID NOT KNOWN TO GWN
4	HEX	0809001D	SNSRRPSK	MODE INCONSISTENCY -- ADDRESS PAIR SESSION KEY NOT KNOWN TO GWN
4	HEX	0809001E	SNSRRAPA	MODE INCONSISTENCY -- ALL ADDRESS TRANSFORMS FOR THE NAMED RESOURCE HAVE BEEN ALLOCATED
4	HEX	08090020	SNSRRSSS	MODE INCONSISTENCY -- GWN CANNOT SUPPORT ANOTHER SESSION BETWEEN THE RESOURCE PAIR
4	HEX	08090028	SNSRRPNC	PLU NOT CAPABLE OF PROCESSING CLEANUP TERMINATION - TREAT LIKE FORCED TERMINATION
4	HEX	08090032	SNSRRIVS	MODE INCONSISTENCY -- BFSESSINFO IS RECEIVED WHEN THE LU IS NOT PENDING BFSESSINFO - THE ASSOCIATED NETWORK ADDRESSES WILL BE FREED
4	HEX	08090034	SNSRRCTP	CANNOT TERMINATE PHANTOM SESSION
4	HEX	08090035	SNSRRCIA	CDRSC INACTIVE
2	HEX	080A	SNSCRPMR	PERMISSION REJECTED CATEGORY
4	HEX	080A0000	SNSRRPMR	PERMISSION REJECTED
4	HEX	080A0002	SNSRRRER	PERMISSION REJECTED, ALLOW SSCP TO REROUTE
4	HEX	080A0005	SNSRRAPD	PERMISSION REJECTED FOR TRANSLATION, DO NOT REROUTE
4	HEX	080A0006	SNSRRARR	PERMISSION REJECTED FOR TRANSLATION, ALLOW SSCP TO REROUTE
4	HEX	080B0000	SNSRRBRE	BRACKET RACE ERROR
4	HEX	080C0000	SNSRRPRS	PROCEDURE NOT SUPPORTED
4	HEX	080D0000	SNSRRNAC	NAU CONTENTION
4	HEX	080E0000	SNSRRLUA	LOGICAL UNIT NOT AUTHORIZED
4	HEX	080E0002	SNSRRNNH	DYNA DUMP FROM NON- NATIVE HOST
4	HEX	080F0000	SNSRREUA	END USER NOT AUTHORIZED
4	HEX	080F6051	SNSRRANV	SECURITY VIOLATION
4	HEX	08100000	SNSRRMID	MISSING REQUESTOR ID
4	HEX	08110000	SNSRRBRK	BREAK
2	HEX	0812	SNSCRIRS	INSUFFICIENT RESOURCES CATEGORY
4	HEX	08120000	SNSRRIRS	INSUFFICIENT RESOURCES
4	HEX	08120003	SNSRRNHA	RESOURCES ARE NOT CURRENTLY AVAILABLE TO SUPPORT A XRF SESSION
4	HEX	08120004	SNSRRNPA	PREENA ADDRESS NOT AVAILABLE

Len	Type	Value	Name	Description
4	HEX	0812000B	SNSRRUDN	INSUFFICIENT RE- SOURCES A BFSESSINFO IS RECEIVED FOR AN UNKNOWN SUBJECT LU - THE SSCP IS UNABLE TO DEFINE THE NODE AS A REAL OR SHADOW RESOURCE BECAUSE OF INSUFFICIENT SSCP RESOURCES
4	HEX	08120011	SNSRRISS	INSUFFICIENT STORAGE IN SSCP
4	HEX	08120012	SNSRRNAA	NO NETWORK ADDRESS AVAILABLE FOR PARALLEL SESSION
4	HEX	08130000	SNSRRBRN	BRACKET REJECT-NO RTR
4	HEX	08140000	SNSRRBRR	BRACKET REJECT-RTR WILL FOLLOW
4	HEX	08150000	SNSRRFAA	FUNCTION ALREADY ACTIVE
4	HEX	08150001	SNSRRFAC	SESSION ACTIVATION REQUEST RECEIVED BY BOUNDARY FUNCTION TO ACTIVATE SESSION ALREADY ACTIVE
4	HEX	08150002	SNSRRSGA	SESSION ACTIVATION REQUEST RECEIVED BY GATEWAY FUNCTION TO ACTIVATE SESSION ALREADY ACTIVE
4	HEX	08150005	SNSMLBSY	IPL FUNCTION ALREADY IN PROGRESS (MOSS BUSY)
4	HEX	08160000	SNSRRFAI	FUNCTION ALREADY INACTIVE
4	HEX	08170000	SNSRRLKI	LINK INACTIVE
4	HEX	08180000	SNSRRLPP	LINK PROCEDURE IN PROGRESS
4	HEX	08190000	SNSRRRNR	RTR NOT REQUIRED
2	HEX	081A	SNSCRSE	REQUEST SEQUENCE ERROR CATEGORY
4	HEX	081A0000	SNSRRRSE	REQUEST SEQUENCE ERROR
4	HEX	081A0004	SNSRROAA	REQUEST SEQUENCE ERROR -- REQUIRED ALIAS ADDRESSES FOR ER_TEST NOT AVAILABLE
4	HEX	081B0000	SNSRRRTM	RECEIVER IN TRANSMIT MODE
4	HEX	081C0000	SNSRRRNKX	REQUEST NOT EXECUTABLE
4	HEX	081D0000	SNSRRRIS	INVALID STATION/SSCP ID
2	HEX	081E	SNSCRSRE	SESSION REFERENCE ERROR CATEGORY
4	HEX	081E0000	SNSRRSRE	SESSION REFERENCE ERROR
4	HEX	081E0003	SNSRRSNF	NO SESSION IS FOUND
4	HEX	081E0004	SNSRRSWS	SESSION FOUND BUT IN WRONG STATE
4	HEX	081F0000	SNSRRR1F	RESERVED
4	HEX	08200000	SNSRRCVE	CONTROL VECTOR ERROR
2	HEX	0821	SNSCRISP	INVALID SESSION PARAMETER CATEGORY
4	HEX	08210000	SNSRRISP	INVALID SESSION PARAMETER
4	HEX	08210002	SNSRRIMN	INVALID MODE NAME AT CP
4	HEX	08210003	SNSRRPRC	PLU REQUIRES CRYPTO - SLU DOES NOT
4	HEX	08210004	SNSRRSRC	SLU REQUIRES CRYPTO - PLU DOES NOT
4	HEX	08210005	SNSRRRCRR	CRYPTO REQUIRED - BUT NO SLU CRYPTO KEY PROVIDED
4	HEX	08220000	SNSRRLPF	LINK PROCEDURE ERROR
4	HEX	08230000	SNSRRUCV	UNKNOWN CONTROL VECTOR
4	HEX	08240000	SNSRRCPA	COMPONENT ABORTED
4	HEX	08250000	SNSRRCNA	COMPONENT NOT AVAILABLE
2	HEX	0826	SNSCRFFS	FM FUNCTION NOT SUPPORTED CATEGORY
4	HEX	08260000	SNSRRFFS	FM FUNCTION NOT SUPPORTED
4	HEX	08270000	SNSRRRIER	INTERMITTANT ERROR - RETRY REQUESTED
4	HEX	08280000	SNSRRRNA	REPLY NOT ALLOWED
4	HEX	08290000	SNSRRCDR	CHANGE DIRECTION REQUIRED
4	HEX	082A0000	SNSRRPSA	PRESENTATION SPACE ALTERATION
4	HEX	082B0000	SNSRRPSI	PRESENTATION SPACE INTEGRITY LOST
2	HEX	082C	SNSCRSSL	RESOURCE-SHARING LIMIT REACHED CATEGORY
4	HEX	082C0000	SNSRRRSL	RESOURCE-SHARING LIMIT REACHED
4	HEX	082D0000	SNSRRBSY	SLU BUSY
4	HEX	082E0000	SNSRRISD	INTERVENTION REQUIRED AT SUBSIDIARY DEVICE
4	HEX	082F0000	SNSRRRQX	REQUEST NOT EXECUTABLE, SUBSIDIARY DEVICE
4	HEX	08300000	SNSRRR30	RESERVED
4	HEX	08310000	SNSRRPOL	POWER OFF, LU RESOURCE
4	HEX	08320000	SNSRRICF	INVALID COUNT FIELD
4	HEX	08330000	SNSRRIPF	INVALID PARAMETER IN FIXED LENGTH FIELD
4	HEX	08340000	SNSRRR34	RESERVED
4	HEX	08350000	SNSRRIPV	INVALID PARAMETER IN FIXED-LENGTH OR VARIABLE- LENGTH FIELD
4	HEX	08360000	SNSRRSPM	PLU/SLU SPECIFICATION MISMATCH
4	HEX	08370000	SNSRRQLE	QUEUING LIMIT EXCEEDED
4	HEX	08380000	SNSRRQNS	QUEUING IS NOT SUPPORTED

Len	Type	Value	Name	Description
2	HEX	0839	SNSCRRTB	RESOURCE BEING TAKEN DOWN CATEGORY
4	HEX	08390000	SNSRRRTB	RESOURCE BEING TAKEN DOWN
4	HEX	08390000	SNSRRSBT	SESSION BEING TAKEN DOWN
4	HEX	08390001	SNSRRTDI	DURING INITIATION - TERMINATION REQUEST TOOK LU-LU SESSION DOWN
4	HEX	08390003	SNSRRSTS	SSCP TERMINATED THIS SESSION DOWN
2	HEX	083A	SNSCRRTNE	RESOURCE IS NOT ENABLED CATEGORY
4	HEX	083A0000	SNSRRRTNE	RESOURCE IS NOT ENABLED
4	HEX	083A0001	SNSRRPNE	PLU NOT ENABLED
4	HEX	083A0002	SNSRRSNE	SLU NOT ENABLED
4	HEX	083B0000	SNSRRDPC	INVALID PCID
4	HEX	083B0001	SNSRRDPA	DUPLICATE PCID
4	HEX	083C0000	SNSRRDTC	DOMAIN TAKEDOWN CONTENTION
4	HEX	083D0000	SNSRRDRU	DEQUEUE RETRY NOT SUCCESSFUL REMOVED FROM QUEUE
4	HEX	083E0000	SNSRRSKR	SESSION KEY 08 REQUIRED
4	HEX	083F0000	SNSRRTRC	TERMINATE CONTENTION
4	HEX	08400000	SNSRRTRF	PROCEDURE INVALID FOR RESOURCE
4	HEX	0840000A	SNSRRASL	PROCEDURE INVALID -- A PN SUPPORTING INDE- PENDENT LU HAS DIALED INTO A T2.0 PU THAT CANNOT HAVE INDEPENDENT LU SESSIONS THROUGH IT - SSCP ACTIVATION REQUEST FOR THESE INDEPENDENT LU WILL FAIL
4	HEX	08400011	SNSRRPID	PROCEDURE INVALID -- ATTEMPT TO REFERENCE AN INACTIVE SWITCHED OR DR ADDED RESOURCE - NO NETWORK ADDRESS
4	HEX	08410000	SNSRRDNA	DUPLICATE NETWORK ADDRESS
4	HEX	08410001	SNSRRSAD	DUPLICATE SLU ADDRESS
4	HEX	08410002	SNSRRPAD	DUPLICATE PLU ADDRESS
4	HEX	08410003	SNSRRDDO	SSCP FINDS DUPLICATE ADDRESS FOR DLU ON OLU SIDE OF GW
4	HEX	08410004	SNSRRDDD	SSCP FINDS DUPLICATE ADDRESS FOR DLU ON DLU SIDE OF GW
4	HEX	08410005	SNSRRDOO	SSCP FINDS DUPLICATE ADDRESS FOR OLU ON OLU SIDE OF GW
4	HEX	08410006	SNSRRDOD	SSCP FINDS DUPLICATE ADDRESS FOR OLU ON DLU SIDE OF GW
4	HEX	08420000	SNSRRSNA	SSCP-SSCP SESSION NOT ACTIVE
4	HEX	08420002	SNSRRNSD	SSCP HAS NO SESSION WITH SSCP IN THE DLU DIRECTION
4	HEX	08420003	SNSRRNSO	SSCP HAS NO SESSION WITH SSCP IN THE OLU DIRECTION
4	HEX	08420004	SNSRRSLS	INTERMEDIATE SSCP LOST CONNECTIVITY WITH AN ADJACENT SSCP
4	HEX	0842FFFF	SNSRRTPF	LOGON INTERCEPTED BY TPF
4	HEX	08430000	SNSRRFMS	REQUIRES FM SYNCHRONIZATION NOT PROVIDED
4	HEX	08440000	SNSRRIDC	INITIATION DEQUEUE CONTENTION
4	HEX	08450000	SNSRRSCA	PERMISSION REJECTED-SSCP WILL BE NOTIFIED
4	HEX	08460000	SNSRRERP	ERP MESSAGE FORTHCOMING
4	HEX	08480000	SNSRRFSI	HALF SESSION INOPERATIVE
4	HEX	08490000	SNSRRGMM	GEN MISMATCH
4	HEX	084B0000	SNSRRRRA	REQUESTED RESOURCE NOT AVAILABLE
4	HEX	084B0005	SNSMLDSK	CONTROLLER RESOURCE IS NOT AVAILABLE
4	HEX	084B6031	SNSRRTPR	TRANSACTION PROGRAM NOT AVAILABLE RETRY
4	HEX	084C0000	SNSRRPIR	PERMANENT INSUFFICIENT RESOURCE- FOR LU 6.2 SESSION- TRANSACTION PROGRAM NOT AVAILABLE- NO RETRY
4	HEX	084C0001	SNSRRRNP	REQUEST NOT PROCESSED
4	HEX	084D0000	SNSRRIPB	INVALID SESSION PARAMETERS-BF
4	HEX	084E0000	SNSRRIPP	INVALID SESSIONS PARAMETERS-PRI
4	HEX	084F0001	SNSMLFUL	DISK FULL - LOAD MODULE NOT STORED ON DISK
4	HEX	08510000	SNSRRSNB	SESSION BUSY
4	HEX	08520000	SNSRRSAA	SESSIONS WITH LATER DATE/TIME ALREADY ACTIVE
4	HEX	08530000	SNSRRCRS	REQUIRED CROSS DOMAIN FUNCTION IS NOT AVILABLE
4	HEX	08560000	SNSRRCSL	CDRM-CDRM SESSION LOST BIND NOT GUARANTEED
4	HEX	08570000	SNSRRPNA	PLU NOT AVAILABLE
4	HEX	08570001	SNSRRSUN	SLU UNSTABLE

Len	Type	Value	Name	Description
4	HEX	08570002	SNSRRPIN	PLU INACTIVE
4	HEX	08570003	SNSRRSIN	SLU INACTIVE
4	HEX	08570004	SNSRRPUN	PLU UNSTABLE
4	HEX	08570005	SNSRRRLCP	SSCP LOST CONNECTIVITY WITH THE PLU
4	HEX	08570006	SNSRRRLCS	SSCP LOST CONNECTIVITY WITH THE SLU
4	HEX	08590000	SNSRRREC	REQECHO DATA LENGTH ERROR
4	HEX	08610000	SNSCOSNS	SYSTEM ERROR - COS NAME AND COS WAS NOT SPECIFIED ON INIT
4	HEX	08610001	SNSCOSSP	SYSTEM ERROR - COS NAME CANNOT BE RESOLVED AND COS WAS SPECIFIED ON INIT
4	HEX	08610003	SNSRRRCIV	INVALID COS NAME -- CDINIT VECTOR COS FIELDS NOT PROPERLY SPECIFIED
4	HEX	08640000	SNSRRDAP	PREMATURE CONVERSATION TERMINATION
4	HEX	08640001	SNSRRDAS	SYSTEM LOGIC ERROR NO RETRY
4	HEX	08640002	SNSRRDAT	EXCESSIVE ELAPSED TIME NO RETRY
4	HEX	086B0000	SNSRRSVI	SUBFIELD VALUE INVALID
4	HEX	08720000	SNSRRSES	ORDERLY DEACTIVATION REFUSED - VR SESSION COUNT IS NON ZERO
4	HEX	08730000	SNSRRVND	VIRTUAL ROUTE NOT DEFINED (NO VRN-TO-ERN MAPPING)
4	HEX	08740000	SNSRRERS	EXPLICIT ROUTE NOT IN A STATE TO PERMIT VIRTUAL ROUTE ACTIVATION
4	HEX	08750000	SNSRRIRR	INCORRECT EXPLICIT ROUTE REQUESTED (IN ACTVR RECEIVE ERN MASK)
4	HEX	08760000	SNSRRNRE	NON-REVERSIBLE EXPLICIT ROUTE REQUESTED (SEND ERN AND RECEIVE ERN NOT COMPATIBLE)
4	HEX	08770000	SNSRRRMM	RESOURCE MISMATCH
4	HEX	08770001	SNSRRRMW	LINK DEFINED AS SWITCHED IS NOT SWITCHED
4	HEX	08770002	SNSRRRMS	LINK DEFINED AS SDLC IS NOT SDLC
4	HEX	08770003	SNSRRRMA	LINK DEFINED WITH AUTOCALL DOES NOT HAVE IT
4	HEX	08770004	SNSRRRML	ACTLINK RECEIVED FOR NON-LINK RESOURCE
4	HEX	08770005	SNSRRRMX	LINK DEFINED AS X.21 AND IS NOT X.21
4	HEX	08770006	SNSRRRMZ	LINK DEFINED AS LPDA-CAPABLE AND IS CONFIGURED IN NRZI MODE
4	HEX	0877001E	SNSRRRIVT	RESOURCE MISMATCH -- THE SUBJECT LU SPECIFIED IN THE BFSESSINFO RU IS NOT DEFINED TO THE SSCP AS AN INDEPENDENT LU - THIS IS A MISMATCH BETWEEN THE SSCP AND THE BF
4	HEX	0877001F	SNSRRADL	RESOURCE MISMATCH -- A DEPENDENT LU IS ATTACHED TO A PU THAT INDICATES ACTPU IS TO BE SUPPRESSED - THE SSCP CANNOT ACTIVATE THE LU BECAUSE ACTLU IS NOT SUPPORTED -- ACTIVATION REJECTED
4	HEX	08770020	SNSRRAIL	RESOURCE MISMATCH -- A PN SUPPORTING INDEPENDENT LU HAS ATTACHED TO A T2.0 PU THAT CANNOT HAVE INDEPENDENT LU SESSIONS THROUGH IT - SSCP ACTIVATION REQUEST FOR INDEPENDENT LU WILL FAIL
4	HEX	08770029	SNSRRAST	RESOURCE MISMATCH -- THE NCP DETECTS A MISMATCH BETWEEN THE SSCP'S UNDERSTANDING OF THE STATIC/DYNAMIC STATUS OF THE ADDRESS ASSOCIATED WITH THE ALS OR LU.
4	HEX	0877002C	SNSRRBFA	RESOURCE MISMATCH -- BFSESSINFO RECEIVED REPORTING A SUBJECT LU IN ANOTHER NETWORK OR BFINIT WITH PLU NET NOT SAME AS THIS SSCPS NETID
4	HEX	0877002D	SNSRRBFB	RESOURCE MISMATCH -- BFSESSINFO RECEIVED FOR A INDEPENDENT SUBJECT LU, BUT THE REPORTED LU IS CONSIDERED BY THE RECEIVER TO BE DEPENDENT
4	HEX	0877002E	SNSRRBFC	RESOURCE MISMATCH -- BFSESSINFO RECEIVED REPORTING A A DYNAMIC SUBJECT LU THAT THE RECEIVER CONSIDERS TO BE A STATIC, INACTIVE OR INACTIVE- WITH-SESSIONS RESOURCE LOCATED UNDER A DIFFERENT ALS THAN THAT REPORTED IN THE BFSESSINFO

Len	Type	Value	Name	Description
4	HEX	0877002F	SNSRRBFD	RESOURCE MISMATCH -- BFSESSINFO RECEIVED REPORTING A SUBJECT LU, STATIC OR DYNAMIC, THAT THE RECEIVER CONSIDERS TO BE A STATIC OR DYNAMIC RESOURCE WHOSE CURRENT STATE IS NOT INACTIVE OR INACTIVE-WITH- SESSIONS LOCATED UNDER A DIFFERENT ALS THAN THAT REPORTED IN THE BFSESSINFO.
4	HEX	08770030	SNSRRBFE	RESOURCE MISMATCH -- BFSESSINFO RECEIVED FOR A SUBJECT LU, BUT THE RECEIVER HAS THE ADDRESS ASSOCIATED WITH A DIFFERENT LU, WHICH IT CONSIDERS TO BE STATIC.
4	HEX	08770031	SNSRRBFF	RESOURCE MISMATCH -- BFSESSINFO OR RSP(ACTLU) RECEIVED FOR THE SUBJECT LU, BUT THE RECEIVER HAS THE ADDRESS ASSOCIATED WITH ANYTHING OTHER THAN A STATIC LU OR CDRSC.
4	HEX	08770032	SNSRRBFG	RESOURCE MISMATCH -- BFSESSINFO RECEIVED FOR AN LU, THE SUBJECT LU IS VERIFIED, BUT FOR A GIVEN SESSION, THE PARTNER LU IS REPORTED AS THE PRIMARY, BUT IS CONSIDERED BY THE RECEIVER AS NOT PRIMARY CAPABLE.
4	HEX	08770033	SNSRRBFH	RESOURCE MISMATCH -- UPON RECEIPT OF BFSESSINFO, THE RECEIVER CONSIDERS THE CONTROL BLOCK ASSOCIATED WITH A PARTNER LU TO BE A CROSS DOMAIN RESOURCE THAT IS NOT ACTIVE OR AN APPL THAT IS NOT ACTIVE.
4	HEX	08770034	SNSRRBFI	RESOURCE MISMATCH -- UPON RECEIPT OF BFSESSINFO, THE RECEIVER CONSIDERS THE CONTROL BLOCK ASSOCIATED WITH A PARTNER LU TO BE NEITHER AN LU, CDRSC, OR APPL.
4	HEX	08770035	SNSRRDRA	RESOURCE MISMATCH -- A NETWORK ADDRESS WAS RETURNED IN RSP(RNAA) THAT THE RECEIVER BELIEVES IS ALREADY ASSOCIATED WITH A DIFFERENT RESOURCE.
4	HEX	08770036	SNSRRBFJ	RESOURCE MISMATCH -- BFSESSINFO RECEIVED CONTAINING AN INVALID ALS ADDRESS. FOR EXAMPLE, THE ALS DOES NOT REPRESENT A T2.1 NODE.
4	HEX	08770037	SNSRRBFK	RESOURCE MISMATCH -- BFSESSINFO RECEIVED FOR A SUBJECT LU WITH A SPECIFIED SECONDARY ADDRESS THAT DOES NOT MATCH THE SECONDARY ADDRESS THE SSCP BELIEVES IS ASSOCIATED WITH THE LU.
4	HEX	08770038	SNSRRBFL	RESOURCE MISMATCH -- THE SUBJECT LU SPECIFIED IN THE RU IS NOT DEFINED AS AN LU OR CDRSC
4	HEX	08770041	SNSRRBFO	RESOURCE MISMATCH -- TAKEOVER PROCESSING COMPLETED BUT A BFSESSINFO RU WAS NOT RECEIVED FOR A STATIC INDEPENDENT LU
4	HEX	08770042	SNSRRBRC	RESOURCE MISMATCH -- A BFINIT WAS RECEIVED BUT NOT BE PROCESSED BECAUSE THE PLU IS NO LONGER OWNED BY THIS SSCP
4	HEX	08790001	SNSRRDIO	DISK I/O ERROR
4	HEX	08790002	SNSRRMNS	LOAD MODULE AND AUTOMATIC DUMP/RE-IPL SWITCHES NOT SAVED TO DISK
4	HEX	08790003	SNSRRSNS	AUTOMATIC DUMP/RE-IPL SWITCHES NOT SAVED TO DISK
4	HEX	087B0000	SNSRRSKU	RESOURCE UNKNOWN SESSION KEY UNKNOWN TO GWN
4	HEX	087C0000	SNSRRGWN	GWSSCP-PU SESSION NOT ACTIVE WITH GWN
4	HEX	087C0001	SNSRRLCG	LOST CONNECTIVITY WITH THE GWN
4	HEX	087C0002	SNSRRLBP	LOST CONNECTIVITY WITH THE BOUNARY FUNCTION OF THE PLU
4	HEX	087C0003	SNSRRLBS	LOST CONNECTIVITY WITH THE BOUNARY FUNCTION OF THE SLU
4	HEX	087D0001	SNSRRTF	SESSION SERVICES PATH ERROR, ALL ATTEMPTS TO REROUTE FAILED

Len	Type	Value	Name	Description
4	HEX	087D0002	SNSRRNTB	SESSION SERVICES PATH ERROR, NO ADJACENT SSCP TABLE
4	HEX	087D0003	SNSRRNDY	SESSION SERVICES PATH ERROR, DYNAMIC CDRSC REQUIRED AND ADJACENT SSCP DOES NOT SUPPORT DYNAMIC ALLOCATION
4	HEX	087D0004	SNSRRPDE	SESSION SERVICES PATH ERROR, CONFLICT IN GW CAPABILITIES SUPPORT
4	HEX	087D0005	SNSRRNAT	SESSION SERVICES PATH ERROR, SSCP IS UNABLE TO USE THE GWN SPECIFIED ON CDINIT BECAUSE THE GWN CANNOT ALLOCATE AN ADDRESS TRANSFORM FOR THE SESSION
4	HEX	087D0006	SNSRRSAG	SESSION SERVICES PATH ERROR, SSCP IS ABLE TO USE ONLY A SUBSET OF THE ALTERNATE GWNS AVAILABLE AND CANNOT PROVIDE THE NEEDED ADDRESS TRANSFORMS USING THIS SUBSET
4	HEX	087D0007	SNSRRDPD	SESSION SERVICES PATH ERROR, TWO RESOURCES HAVE BEEN DEFINED TO REPRESENT THE REAL AND ALIAS CDRSCS
4	HEX	087D0008	SNSRRASC	SSCP DOES NOT SUPPORT REQUESTED CDINIT FUNCTION
4	HEX	087D0009	SNSRRBNA	A GWN SSCP IS UNABLE TO RE-ROUTE A CDINIT REQUEST - AN ADDRESS ASSIGNED BY THE GWN DUPLICATED AN ADDRESS ASSIGNED TO A DIFFERENT LU NAME
4	HEX	087D000A	SNSRRSST	ROUTED THROUGH SAME SSCP TWICE
4	HEX	087D000B	SNSRRDUN	DLU UNKNOWN IN NON- GATEWAY SSCP - CANT REROUTE
4	HEX	087E0000	SNSRRVCT	SSCP VISIT COUNT EXCEEDS LIMIT
4	HEX	08810000	SNSRRNRQ	ACTCDRM FAILURE REQACTCDRM SENT
4	HEX	08840000	SNSRRORQ	ACTCDRM FAILURE -- NO REQACTCDRM SENT
4	HEX	08860000	SNSRRNRR	SAME NETWORK ROUTING NOT SUPPORTED
4	HEX	08870000	SNSRRFRQ	DEQRUE RETRY NOT SUCCESSFUL -- SESSION REMAINS QUEUED
4	HEX	08880000	SNSRRNMC	NAME CONFLICT
4	HEX	08880001	SNSRRDRL	DLU REAL NAME KNOWN BUT NOT LU-LU SESSION CAPABLE
4	HEX	08880002	SNSRRDAL	DLU ALIAS NAME KNOWN BUT NOT LU-LU SESSION CAPABLE
4	HEX	08880003	SNSRRORL	OLU REAL NAME KNOWN BUT NOT LU-LU SESSION CAPABLE
4	HEX	08880004	SNSRROAL	OLU ALIAS NAME KNOWN BUT NOT LU-LU SESSION CAPABLE
4	HEX	08880005	SNSRRBAT	BAD ALIAS APPLICATION TRANSLATION
4	HEX	08880006	SNSRRDRD	DLU REAL NAME KNOWN BUT IS A DUPLICATE RESOURCE
4	HEX	08880007	SNSRRDAD	DLU ALIAS NAME KNOWN BUT IS A DUPLICATE RESOURCE
4	HEX	08880008	SNSRRORD	OLU REAL NAME KNOWN BUT IS A DUPLICATE RESOURCE
4	HEX	08880009	SNSRROAD	OLU ALIAS NAME KNOWN BUT IS A DUPLICATE RESOURCE
4	HEX	0888000B	SNSRRDDS	CROSS-NET DLU NAME DEFINED AS SHADOW RESOURCE WHICH IS NOT SUPPORTED CROSS NET
4	HEX	0888000C	SNSRRANC	DLU NAME MATCHES ACB NAME BUT ACB NAME IS NOT REAL DLU NAME
4	HEX	0888000D	SNSRRPOC	PREDEFINED OLU REAL CONFLICTS WITH PREDEFINED ALIAS BOTH THE SAME RESOURCE
4	HEX	0888000E	SNSRRPDC	PREDEFINED DLU REAL CONFLICTS WITH PREDEFINED ALIAS BOTH THE SAME RESOURCE
4	HEX	08890000	SNSRRPRE	PROGRAM ERROR NO TRUNCATION OR PROGRAM ERROR PURGING
4	HEX	08890001	SNSRRPET	PROGRAM ERROR DATA TRUNCATION
4	HEX	08890100	SNSRRSVE	SERVICE TRANSACTION PROGRAM ERROR NO TRUNCATION OR SERVICE TRANSACTION PROGRAM ERROR PURGING
4	HEX	08890101	SNSRRSET	SERVICE TRANSACTION PROGRAM ERROR TRUNCATION

Len	Type	Value	Name	Description
2	HEX	088A	SNSCRUNF	RESOURCE UNAVAILABLE - NOTIFY FORTHCOMING CATEGORY
4	HEX	088A0000	SNSRRUNF	RESOURCE UNAVAILABLE-NOTIFY FORTHCOMING
4	HEX	088A0001	SNSRRNSA	SSCP-SSCP SESSION UNAVAILABLE NOTIFY FORTHCOMING
4	HEX	088A0003	SNSRRNSS	RESOURCE UNAVAILABLE- SSCP-LU SESSION NOT ACTIVE- NOTIFY FORTHCOMING
4	HEX	088A0004	SNSRRTSS	RESOURCE UNAVAILABLE- SESSION LIMIT EXCEEDED-NOTIFY FORTHCOMING
4	HEX	088B0000	SNSRRBBN	BB NOT ACCEPTED
4	HEX	088C0000	SNSRRMCV	MISSING CONTROL VECTOR
4	HEX	088E0000	SNSRRIEC	INCOMPATIBLE ENA CAPABILITIES-REROUTE
4	HEX	088E0001	SNSRRREN	INCOMPATIBLE ENA CAPABILITIES-DO NOT REROUTE
4	HEX	088E0002	SNSRRSPE	SSCP REQUESTED SLU ADDRESS THAT IS PRE_ENA COMPATIBLE FOR A SUL THAT ALREADY HAS AN ENA ADDRESS
4	HEX	088E0003	SNSRRGNE	GWN IS NOT ENA CAPABLE AND NEEDS TO BE - TRY ANOTHER GWN
4	HEX	088E0004	SNSRRREDP	DURING A DYNAMIC PATH UPDATE, THE SSCP DETECTED THAT THE UPDATE CONTAINED A PATH WITH AN ER NUMBER > 7 AND THAT THE TARGET NODE WAS PRE-ESA. THE DYNAMIC PATH UPDATE FOR THIS DESTINATION SUBAREA WAS NOT FORWARDED TO THE TARGET NODE.
4	HEX	088E0005	SNSRRIGN	INCOMPATIBLE ESA CAPABILITIES ALONG SESSION SETUP PATH. THE DLU DIRECTION SUBAREA ADDRESS IS GREATER THAN THE OLU DIRECTION CAPABILITIES
4	HEX	088E0006	SNSRRIDL	INCOMPATIBLE ESA CAPABILITIES ALONG SESSION SETUP PATH. THE OLU DIRECTION SUBAREA ADDRESS IS GREATER THAN THE DLU DIRECTION CAPABILITIES
4	HEX	088E0007	SNSRRSDP	DURING A DYNAMIC PATH UPDATE, THE SSCP DETECTED THAT THE UPDATE CONTAINED A PATH WITH A SUBAREA ADDRESS > 255 AND THAT THE TARGET NODE WAS PRE-ESA. THE DYNAMIC PATH UPDATE FOR THIS DESTINATION SUBAREA WAS NOT FORWARDED TO THE TARGET NODE.

## MAJOR = XRF ERROR ('088F00..'X)

2	HEX	088F	SNSCRHPE	XRF PROCEDURE ERROR CATEGORY
4	HEX	088F0000	SNSRRHPE	XRF PROCEDURE ERROR
4	HEX	088F0003	SNSRRISR	PLU SEND SWITCH REQUEST--SWITCH TO CURRENT STATE--INVALID STATE REQUEST
4	HEX	088F0004	SNSRRISW	INVALID SWITCH--PLU SENDS SWITCH REQUEST INVALID TO RECEIVER
4	HEX	088F0005	SNSRRHBF	XRF BACKUP FAILURE-- PLU SENDS SWITCH CONDITIONAL BACKUP SESSION FAILS BEFORE RESPONSE TO SWITCH
4	HEX	088F0006	SNSRRBQS	BACKUP QUEUING SPECIFIED
4	HEX	088F0007	SNSRRDNH	DLU RESOURCE NOT XRF-- RESOURCE RECEIVED AN INIT REQUEST BUT DLU IS NOT XRF CAPABLE
4	HEX	088F0008	SNSRRPBF	PRIMARY BIND FAILURE--BIND RECEIVED BUT NON-XRF OR SESSION EXISTS
4	HEX	088F0009	SNSRRBBF	BACKUP BIND FAILURE--XRF BACKUP BIND RECEIVED NO PRIMARY OR BACKUP SESSION EXISTS
4	HEX	088F000A	SNSRRCRY	CRYPTOGRAPH NOT SUPPORTED FOR XRF SESSIONS
4	HEX	088F0010	SNSRRSCN	BIND SESSION CORRELATOR DOES NOT MATCH AN EXISTING SESSION
4	HEX	088F000B	SNSRRONH	OLU RESOURCE NOT XRF-- RESOURCE RECEIVED AN INIT REQUEST BUT OLU IS NOT XRF CAPABLE
4	HEX	08970006	SNSRRDBF	THIS SSCP WANTS TO DYNAMICALLY BUILD A CROSS- DOMAIN RESOURCE BUT DOES NOT SUPPORT THIS FUNCTION
4	HEX	08970007	SNSRRDOC	DLU SSCP NAME IN THE SESSION INIT REQUEST DOES NOT MATCH THE OWNING SSCP NAME KNOWN TO THE RECEIVING SSCP

Len	Type	Value	Name	Description
4	HEX	08970008	SNSRRGPC	GWSSCP(OLU) HAS PREDESIGNATED CONTROL IN 3-SHARE CONFIGURATION
4	HEX	08970009	SNSRRCGO	CONFLICTING GATEWAY CONTROL OPTION IN 3-SHARE CONFIGURATION
4	HEX	0897000A	SNSRRPAM	PU ADDRESS MISMATCH - PU OF INDEPENDENT PLU DOES NOT HAVE THE SAME ELEMENT ADDRESS AS THE ONE IN ALS FIELD OF BFINIT
4	HEX	0897000B	SNSRRMDG	CONFLICT IN GATEWAY NODE CONTROL RESPONSIBILITIES
4	HEX	0897000C	SNSRRUID	UNABLE TO INTERPRET DLU NAME
4	HEX	08970010	SNSRRRNM	DLU REAL NETID DOES NOT MATCH NETID OF OWNING SSCP DO NOT ROUTE TO SELECTED SSCP
4	HEX	08970012	SNSRRROC	OLU SSCP NAME IN THE SESSION INIT REQUEST DOES NOT MATCH THE OWNING SSCP NAME KNOWN TO THE RECEIVING SSCP
4	HEX	08970013	SNSRRORB	OLU SSCP NAME IN THE SESSION COINIT REQUEST IS SAME AS THIS SSCPS NAME
4	HEX	089A0001	SNSRRFNF	FILE NOT FOUND
4	HEX	089A0002	SNSMLDUP	DUPLICATE LOAD MODULE - ONE WITH SAME NAME ALREADY ON DISK
4	HEX	089C0001	SNSRRDUR	INVALID URC: THE URC RECEIVED IN THE BFINIT DUPLICATES A URC FOR AN OUTSTANDING SESSION INITIATION ATTEMPT FROM THE SAME BF
4	HEX	089D0001	SNSRRGLE	GWN LIST EXHAUSTED
4	HEX	089D0003	SNSRRGRF	GWN UNABLE TO ALLOCATE ADDRESS TRANSFORM - RNAA FAILED - TRY ANOTHER GWN
4	HEX	089D0004	SNSRRASU	ADDRESS CONVERSION BASED ON SUBAREA/ELEMENT ADDRESS SPLIT UNSUCCESSFUL
4	HEX	089D0005	SNSRRGNU	GATEWAY NODE SELECTED FOR GWN LIST IS UNKNOWN TO SSCP
4	HEX	089D0006	SNSRRGAD	GWSSCP FINDS THAT GWN ASSIGNED A DUPLICATE ADDRESS



## Storage Pool Anchor (SPANC)

<b>Function:</b>	SPANC describes the storage pool anchor block used by the GETBLK/FREEBLK processor. Each type of storage pool used has a SPANC. ATCPAREA points to the SPANC for pool 0. SPANCs for the remaining pools follow.			
<b>Boundary:</b>	Doubleword.			
<b>Size in bytes:</b>	16 (X'10')			
<b>Additional Notes:</b>	The following table summarizes pool use:			
	<b>Pool</b>	<b>Contains</b>	<b>Pool</b>	<b>Contains</b>
	0	Private RUPE	23	PAQ
	1	Common RUPE	24	RAQ
	2	SIB	25	Private CPWA
	3	FMCB and extension	26	ERIC
	4	NAB	27	SIBIX
	5	EPT	28	SIB (cross-domain)
	6	RCDRS	28	SIB (gateway)
	7	ACDEB/APPCB	30	IOSIB
	8	HSQH	31	DSSIB
	9	ERTE	32	Private utilities, long
	10	WRE	33	Common utilities, short
	11	FMCB extension	34	Common utilities, long
	12	SIB extension	35	AMU
	13	RSQE	36	HSICB
	14	UECB/RPL	37	LMHDR/LME/LMM
	15	IO control blocks	38	SAB/NSICB
	16	SRT extension	39	RAB
	17	Trace element	40	PRBLK
	18	Private utilities, short	41	PRQAB
	19	DMTBL	42	OCB/NACP
	20	Private POWE	43	Common CPWA
	21	Common POWE	44	VLNCB
	22	RLU		

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ISTSPANC	Storage pool anchor block
0	(0)	CHARACTER	8	SPANAME	Name of storage pool
8	(8)	UNSIGNED	1	*	RESERVED
9	(9)	CHARACTER	1	*	Flag bytes
		1... ....		SPAVTALO	1=VTALLOC only pool (field currently only set by NSD if GETBLK problems arise)
		.1.. ....		SPABELIN	XA: 0=31-bit addressable XA: 1=24-bit addressable Always 0 for non-XA systems
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1..		*	RESERVED
		.... .1..		*	RESERVED
		.... ..11		*	Not used - available
10	(A)	SIGNED	2	*	RESERVED
12	(C)	UNSIGNED	4	*	RESERVED

### **Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>	<b>Level</b>
ISTSPANC	0		1
SPABELIN	9	40	3
SPANAME	0		2
SPAVTALO	9	80	3

## SDLC Polling List Control Block (SPL)

<b>Function:</b>	SPL provides a mapping for the SDLC polling list control block.  This SDLC control block (SPL) definition must match that used by the SDLC communication adapter (CA) microcode. SPLs, which represent stations on a link, must be defined contiguously since the CA microcode indexes to the next SPL based on the length of the control block. All unused fields must be zero.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	12 (X'C')
<b>Located in:</b>	SCX (SCXSCB)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTSPL	SDLC CONTROL BLOCK
0	(0)	UNSIGNED	1	SPLOFFST	BUFFER OFFSET
1	(1)	UNSIGNED	1	SPLADDR	SDLC STATION ADDRESS
2	(2)	CHARACTER	1	SPLRSV01	NOT USED - RESERVED
3	(3)	CHARACTER	1	SPLCTLFG	CONTROL FLAGS
		1... ....		SPLSKIP	0 = ACTIVE STATION, PERFORM POLLING 1 = INACTIVE STATION, DO NOT POLL AT ALL
		.1.. ....		SPLAUTOP	0 = CONTACTPOLL THIS STATION 1 = DATAPOLL THIS STATION
		..1. ....		SPLSLOWO	0 = SEND 'RR' POLL 1 = SEND 'RNR' POLL
		...1 ....		SPLSLOWI	0 = 'RR' REPLY EXPECTED 1 = 'RNR' REPLY EXPECTED
		.... 1..		*	RESERVED
		.... .111		SPLRSV02	NOT USED - RESERVED
4	(4)	UNSIGNED	1	SPLNSCUR	CURRENT SDLC NUMBER OF SENT I-FRAME
5	(5)	CHARACTER	1	SPLRSV03	NOT USED - RESERVED
6	(6)	UNSIGNED	1	SPLNSACK	SDLC NUMBER OF LAST I-FRAME ACKNOWLEDGED
7	(7)	UNSIGNED	1	SPLNRACC	SDLC NUMBER OF NEXT I-FRAME TO BE RECEIVED
8	(8)	CHARACTER	4	SPLIDENT	STATION IDENTIFIER
8	(8)	UNSIGNED	1	SPLINDEX	INDEX OF THIS SPL IN THE SPL TABLE AND THE INDEX TO THE ASSOCIATED PUT ENTRY IN THE PUT TABLE
9	(9)	CHARACTER	3	*	NOT USED - AVAILABLE
12	(C)	CHARACTER		SPLEND	END OF SDLC POLLING LIST

### Constants

Len	Type	Value	Name	Description
SPLOFFST - RU OFFSET BY PU TYPE				
1	DECIMAL	26	SPLOFT1	PU TYPE-1 RU OFFSET
1	DECIMAL	22	SPLOFT2	PU TYPE-2 RU OFFSET
1	DECIMAL	2	SPLOFT4	PU TYPE-4 RU OFFSET
1	DECIMAL	2	SPLOFT5	PU TYPE-5 RU OFFSET

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSPL	0		1
SPLADDR	1		2
SPLAUTOP	3	40	3
SPLCTLFG	3		2
SPLEND	C		2
SPLIDENT	8		2
SPLINDEX	8		3
SPLNRACC	7		2
SPLNSACK	6		2
SPLNSCUR	4		2
SPLOFFST	0		2
SPLRSV01	2		2
SPLRSV02	3	04	3
SPLRSV03	5		2
SPLSKIP	3	80	3
SPLSLOWI	3	10	3
SPLSLOWO	3	20	3

## Symbol Resolution Table (SRT)

<b>Function:</b>	The SRT maps the symbol resolution table, which contains a directory and the entries pointed to by that directory. The symbol resolution table is used to find an RDT entry, save the address of RDT entries that have become shadow resources, point to a table, route an NS RU to an application, or point to the SRT directory for resources in other networks. It contains an entry for each symbolic node name known to VTAM, both addressable and non-addressable nodes. Each entry correlates a symbolic name with the resource (a node or table) it is associated with.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Additional Notes:</b>	The SRT is updated by the SRTADD and SRTDEL routines.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	13	ISTSRT		
0	(0)	CHARACTER	8	SRTSYMNM	SYMBOLIC NAME	
8	(8)	ADDRESS	4	SRTSRTE	POINTER TO NEXT SRT ENTRY	
		1... ..		SRTSPECE	1=SRTFIND/DEL IS TO RETURN THE ADDRESS OF ISTSRT 0=SRTFIND/DEL IS TO RETURN THE ADDRESS CONTAINED IN THE SRTDATA FIELD	
12	(C)	UNSIGNED	1	SRTTYPE	TYPE OF SRT ENTRY	
13	(D)	CHARACTER	*	SRTXTNBS	BASE FOR NON-RDTE ENTRIES	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	7	SRTXTNSN	NON-RDTE EXTENSION	
0	(0)	BITSTRING	1	SRTFLAGS	FLAGS	
		1... ..		SRTTONOS	1=SEND RU TO THE NETWORK OPERATOR IN ADDI- TION TO CNM APPLICATION	
		.1.. ..		SRTNODLV	0=SPECIFIED RU IS TO BE EMBEDDED IN DELIVER RU WHEN SENT TO NOS 1=RU WILL NOT BE EMBEDDED WHEN SENT TO NOS	
		..11 1111		*	NOT USED - AVAILABLE	
1	(1)	CHARACTER	2	*	NOT USED - AVAILABLE	
3	(3)	ADDRESS	4	SRTDATA	POINTER TO TABLE FOR TABLE ENTRY OR PTR TO DATA FOR AN SRTE	
7	(7)	CHARACTER	*	SRTUSEBS	BASE FOR USE COUNT EXTENSION	
7	(7)	STRUCTURE	4	SRTUSEXN	USE COUNT EXTENSION	
7	(7)	SIGNED	4	SRTUSELN	USE COUNT FOR TABLE ENTRY OR LENGTH FOR NON-RDTE TYPE SRT ENTRIES	

## Constants

Len	Type	Value	Name	Description
CONSTANTS FOR SRTTYPE				
1	DECIMAL	0	SRTTYPRD	SRT ENTRY IS FOR RDTE
1	DECIMAL	2	SRTTYPVH	SRT ENTRY IS FOR VTAM NSHDR
1	DECIMAL	3	SRTTYPRS	SRT ENTRY IS FOR RDT STACK
1	DECIMAL	4	SRTTYPUH	SRT ENTRY IS FOR USER NSHDR
1	DECIMAL	5	SRTTYPAS	SRT ENTRY IS FOR ADJACENT SSCP TABLE
1	DECIMAL	6	SRTTYPCS	SRT ENTRY IS FOR COS TABLE
1	DECIMAL	7	SRTTYPNT	SRT ENTRY IS FOR NETWORK ID
1	DECIMAL	8	SRTTYPSI	SRT ENTRY IS FOR SSCPID
1	DECIMAL	9	SRTTYPAL	SRT ENTRY IS FOR ALIAS NAME
1	DECIMAL	10	SRTTYPNA	SRT ENTRY IS FOR NETWORK ADDRESS
1	DECIMAL	11	SRTTYPPS	SRT ENTRY IS FOR PUSCB
1	DECIMAL	12	SRTTYPRX	SRT ENTRY IS SARANGE
1	DECIMAL	13	SRTTYPPC	SRT ENTRY IS PCID
1	DECIMAL	14	SRTTYPUV	SRT ENTRY IS USERVAR

Len	Type	Value	Name	Description
1	DECIMAL	15	SRTONCPA	SRT TYPE FOR AUTONCPA
1	DECIMAL	16	SRTTYPTC	SRT ENTRY FOR TRACE REQUEST
1	DECIMAL	17	SRTCEGRP	CE SRTE TYPE IS GROUP -- THE BASE ENTITY IS A GROUP RDTE AND THE REFERENCE ENTITIES ARE RELATED PU RDTE
1	DECIMAL	18	SRTCETBL	CE SRTE TYPE IS TABLE
1	DECIMAL	19	SRTCPNAM	SRT TYPE CPNAME
1	DECIMAL	20	SRTNETQU	SRT TYPE NETQUAL
1	DECIMAL	21	SRTSAT	SRT TYPE SESADDRT
1	DECIMAL	22	SRTURC	SRT TYPE URC
1	DECIMAL	23	SRTPRID	SRT TYPE PRID
1	DECIMAL	24	SRTDSSIB	SRT TYPE DSPCID
1	DECIMAL	25	SRTIOSIB	SRT TYPE IOPCID
1	DECIMAL	26	SRTONSSA	SRT TYPE AUTONSSA
1	DECIMAL	27	SRTIOPST	SRT TYPE IO PENDING
1	DECIMAL	255	SRTTYPSR	SRT ENTRY IS FOR SRTE

CONSTANTS FOR SRT RETURN CODE

1	DECIMAL	0	SRTCSUC	SUCCESSFUL RETURN
1	DECIMAL	4	SRTENDUP	DUPLICATE ENTRY FOR SRTADD
1	DECIMAL	4	SRTNOENT	NO ENTRY FOUND FOR SRTADD OR SRTDEL
1	DECIMAL	8	SRTNOSTO	NO STORAGE FOR DIRECTORY OR X-RANGE NOT SPECIFIED IN ISTOCCSA MODULE
1	DECIMAL	8	SRTNODIR	NO DIRECTORY OR X-RANGE FOUND IN ISTOCCDF MODULE
1	DECIMAL	12	SRTTESTOR	NO STORAGE FOR SRTE
1	DECIMAL	36	SRTNOUSE	SPECIFIED DELETE WITH USE COUNT AND USE COUNT HAS REACHED ZERO
1	DECIMAL	40	SRTCNTOF	USE COUNT OVERFLOW

Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSRT	0		1
SRTDATA	3		2
SRTFLAGS	0		2
SRTNODLV	0	40	3
SRTSPECE	8	80	3
SRTSRTE	8		2
SRTSYMNM	0		2
SRTTONOS	0	80	3
SRTTYPE	C		2
SRTUSEBS	7		2
SRTUSELN	7		2
SRTUSEXN	7		1
SRTXTNBS	D		2
SRTXTNSN	0		1

## Session Awareness Data Buffer (SWBFR)

<b>Function:</b>	The session awareness (SAW) data buffer contains data about establishing or terminating a specific session. This information is passed to the CNM application program.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	SAWINPUT (SAWVT) - first buffer of input buffer queue SAWOUTPT (SAWVT) - first buffer of output buffer queue SAWINUSE (SAWVT) - SAW data buffer being formatted
<b>Included Blocks:</b>	APSK (SWBS15BS)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	48	ISTSWBFR	
0	(0)	CHARACTER	48	SWBHDR	BUFFER HEADER
0	(0)	UNSIGNED	2	SWBLEN	LENGTH OF ENTIRE BUFFER
2	(2)	CHARACTER	2	SWBPRCID	PROCESS IDENTIFIER
4	(4)	CHARACTER	4	SWBDATID	DATA TYPE IDENTIFIER
4	(4)	CHARACTER	2	SWBFUNC	FUNCTION CODE
6	(6)	CHARACTER	2	SWBSUBF	SUBFUNCTION CODE
8	(8)	CHARACTER	8	*	RESERVED
16	(10)	CHARACTER	8	SWBFRID	BUFFER ID (EYECATCHER)
24	(18)	SIGNED	2	SWBSEQN	BUFFER SEQUENCE NUMBER
26	(1A)	UNSIGNED	2	SWBDATLN	LENGTH OF DATA IN BUFFER
28	(1C)	CHARACTER	8	*	NOT USED - AVAILABLE
36	(24)	ADDRESS	4	SWBNEXT	POINTER TO NEXT BUFFER
40	(28)	BITSTRING	1	SWBFLAGS	FLAGS
		1... ....		SWBDYNA	1 = THIS BUFFER WAS DYNAMICALLY ALLOCATED
		.111 1111		*	NOT USED - AVAILABLE
41	(29)	CHARACTER	7	*	NOT USED - AVAILABLE
48	(30)	CHARACTER	*	SWBDATA	BUFFER DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	11	SWBDTENT	SAW DATA ENTRY
0	(0)	CHARACTER	11	SWBDTHDR	DATA ENTRY HEADER
0	(0)	SIGNED	2	*	RESERVED
2	(2)	BITSTRING	1	*	RESERVED
3	(3)	CHARACTER	8	*	RESERVED
11	(B)	CHARACTER	*	*	RESERVED

COMMON PREFIX USED IN ANY VECTOR

0	(0)	STRUCTURE	2	SWBVECTR	VECTOR PREFIX
0	(0)	BITSTRING	1	SWBVCKEY	VECTOR KEY
1	(1)	UNSIGNED	1	SWBVCLEN	LENGTH OF VECTOR DATA AREA
2	(2)	CHARACTER	*	SWBVCDAT	DATA AREA OF VECTOR

SESSION INFORMATION DATA VECTOR  
 VECTOR KEY '01'.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	SWBV01	VECTOR '01'
0	(0)	BITSTRING	1	SWBV01KY	01 = SESSION INFORMATION
1	(1)	UNSIGNED	1	SWBV01LN	VECTOR DATA LENGTH
2	(2)	CHARACTER	18	SWBV01VD	VECTOR DATA
2	(2)	BITSTRING	1	*	
		11.. ....		SWBV01SC	SESSION CLASS
		..11 1111		*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
3	(3)	BITSTRING	1	*	
		11.. ....		SWBV01ST	SESSION TYPE
		...1. ....		SWBV01HA	1 MEANS HARP SESSION
		...1 ....		SWBV01HB	IF HARP SESSION, 1 MEANS HARP BACKUP
		.... 1111		*	RESERVED
4	(4)	CHARACTER	8	SWBV01CN	COS NAME
12	(C)	CHARACTER	8	SWBV01LM	LOGMODE NAME
20	(14)	CHARACTER		SWBV01DV	DATA VECTORS

REPORTING NETWORK DATA VECTOR  
 VECTOR KEY 'D0'

0	(0)	STRUCTURE	2	SWBVD0	VECTOR 'D0'
0	(0)	BITSTRING	1	SWBVD0KY	D0 = REPORTING NETWORK
1	(1)	UNSIGNED	1	SWBVD0LN	LENGTH OF DATA
2	(2)	CHARACTER	*	SWBVD0DT	SUBVECTOR DATA

NETWORK SESSION DEACTIVATION DATA VECTOR

SESSION KEY '15'

NOTE: FOR SESSION KEY '15' WITHOUT NETWORK ID, USE THE  
 ISTAPSK CONTROL BLOCK MAPPING. SWBS15 SHOULD BE  
 USED ONLY WHEN NETWORK ID IS REQUIRED.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	22	SWBS15	SNA SESSION KEY '15'
0	(0)	CHARACTER	14	SWBS15BS	BASE SESSION KEY MAP
14	(E)	CHARACTER	8	SWBS15NT	ADJACENT NETWORK ID

ADJACENT NETWORK DATA VECTOR

VECTOR KEY 'D1' OR 'D2'. ONE OR BOTH VECTORS MAY BE  
 PRESENT IN THE SAME DATA ENTRY.

THIS VECTOR ALWAYS CONTAINS SNA SESSION KEY '15'. THE  
 DATA PORTION (SWBVDADT) MAY CONTAIN THE ER-VR MAPPING  
 VECTOR ('1E', ISTV1E)

0	(0)	STRUCTURE	32	SWBVDA	VECTOR 'D1' OR 'D2'
0	(0)	BITSTRING	1	SWBVDAKY	D1 = PRIMARY END D2 = SECONDARY END
1	(1)	UNSIGNED	1	SWBVDA LN	VECTOR DATA LENGTH
2	(2)	CHARACTER	30	SWBVDAVD	VECTOR DATA
2	(2)	CHARACTER	8	SWBVDA CS	COSNAME
10	(A)	CHARACTER	22	SWBVDA SN	SNA SESSION KEY '15'
32	(20)	CHARACTER	*	SWBVDA DT	VECTOR DATA

RESOURCE CONNECTIVITY VECTOR

(SOMETIMES REFERRED TO AS TOPOLOGY LIST VECTOR)

VECTOR KEY 'D3'. THE DATA AREA PORTION MAY CONTAIN  
 UP TO THREE ELEMENTS OF TOPOLOGY (SWBVDCVD)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	SWBVDC	VECTOR 'D3'
0	(0)	BITSTRING	1	SWBVDC KY	D3 = RESOURCE CONNECTIVITY VECTOR
1	(1)	UNSIGNED	1	SWBVDC LN	VECTOR DATA LENGTH
2	(2)	CHARACTER	*	SWBVDC VD	VECTOR DATA - UP TO THREE ENTRIES OF SWBVDC LS

TOPOLOGY LIST ELEMENT FOR CONNECTIVITY VECTOR

0	(0)	STRUCTURE	9	SWBVDC LS	TOPOLOGY LIST ELEMENT
0	(0)	CHARACTER	1	SWBVDC LT	NODE TYPE
1	(1)	CHARACTER	8	SWBVDC NM	NODE NAME

SECOND EVENT TIME STAMP VECTOR (KEY 'D5')

VECTOR KEY 'D5'. WHEN A COMBINED EVENT IS REPORTED TO NLDM,  
 THIS VECTOR IS PRESENT WITH THE TIME OF THE SECOND EVENT WHICH  
 IS BEING REPORTED.



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	SWBVD5	TIME STAMP VECTOR
0	(0)	BITSTRING	1	SWBVD5KY	KEY = 'D5'
1	(1)	UNSIGNED	1	SWBVD5LN	VECTOR DATA LENGTH
2	(2)	CHARACTER	8	SWBVD5VD	VECTOR DATA
2	(2)	CHARACTER	8	SWBVD5TM	TIME STAMP

SECONDARY LU LOCAL ADDRESS VECTOR KEY 'D8'

0	(0)	STRUCTURE	3	SWBVL A	VECTOR 'D8'
0	(0)	BITSTRING	1	SWBVLAKY	D8 = LU LOCAL ADDRESS
1	(1)	UNSIGNED	1	SWBVLAKN	VECTOR DATA LENGTH
2	(2)	CHARACTER	1	SWBVLAVD	VECTOR DATA
2	(2)	UNSIGNED	1	SWBVL AAD	LU LOCAL ADDRESS

SESSION TERMINATION DATA VECTOR  
 VECTOR KEY 'D9'

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	SWBVD9	VECTOR 'D9'
0	(0)	BITSTRING	1	SWBVD9KY	D9 = SESSION TERMINATION
1	(1)	UNSIGNED	1	SWBVD9LN	LENGTH OF DATA
2	(2)	CHARACTER	1	*	RESERVED
2	(2)	BITSTRING	1	SWBVD9RC	REASON CODE
3	(3)	CHARACTER	*	*	RESERVED

SESSION PARTNER DATA SUBVECTOR  
 VECTOR KEY 'DA' OR 'DB'.

0	(0)	STRUCTURE	10	SWBVDB	VECTOR 'DA' OR 'DB'
0	(0)	BITSTRING	1	SWBVDBKY	DA = PRIMARY SESSION PARTNER DB = SECONDARY SESSION PARTNER
1	(1)	UNSIGNED	1	SWBVDBLN	LENGTH OF DATA
2	(2)	CHARACTER	8	SWBVDBVD	SUBVECTOR DATA
2	(2)	CHARACTER	8	SWBVDBRN	RESOURCE NAME
10	(A)	CHARACTER	*	SWBVDBDT	SUBSUBVECTOR DATA

NEXT SSCP DATA VECTOR  
 VECTOR KEY 'E1' OR 'E2'. ONE OR BOTH MAY BE PRESENT IN THE SAME DATA ENTRY.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	34	SWBVEX	VECTOR 'E1' OR 'E2'
0	(0)	BITSTRING	1	SWBVEXKY	E1 = PRIMARY END E2 = SECONDARY END
1	(1)	UNSIGNED	1	SWBVEXLN	VECTOR DATA LENGTH
2	(2)	CHARACTER	32	SWBVEXVD	VECTOR DATA
2	(2)	CHARACTER	8	SWBVEXCD	CDRM NAME
10	(A)	CHARACTER	8	SWBVEXNT	NETWORK ID
18	(12)	CHARACTER	8	SWBVEXSS	SSCP NAME
26	(1A)	CHARACTER	8	SWBVEXSC	IF LU-LU SESSION, MAY CONTAIN A PCID GENERATED BY ANOTHER SSCP. OTHERWISE, CONTAINS 0.

CROSS-NETWORK SESSION PARTNER DATA VECTOR (KEY 'F0')

0	(0)	STRUCTURE	34	SWBVF0	
0	(0)	BITSTRING	1	SWBVF0KY	KEY = 'F0'
1	(1)	UNSIGNED	1	SWBVF0LN	VECTOR DATA LENGTH
2	(2)	CHARACTER	32	SWBVF0VD	VECTOR DATA
2	(2)	CHARACTER	8	SWBVF0PN	NETWORK ID OF PLU
10	(A)	CHARACTER	8	SWBVF0SN	NETWORK ID OF SLU
18	(12)	CHARACTER	8	SWBVF0PA	PLU ALIAS NAME USED WITHIN NETWORK OF SLU
26	(1A)	CHARACTER	8	SWBVF0SA	SLU ALIAS NAME USED WITHIN NETWORK OF PLU

**Constants**

Len	Type	Value	Name	Description
CONSTANTS FOR NODE TYPES FOR SWBVDCLT				
1	HEX	F1	SWBVDCPU	PU TYPE
1	HEX	FC	SWBVDCCL	CHANNEL LINK
1	HEX	F9	SWBVDCCLK	LINE LINK
1	HEX	2D	SWBVDCGP	LINE GROUP
CONSTANT FOR PROCESS IDENTIFIER (SWBPRCID)				
2	HEX	0000	SWBCPCID	PROCESS IDENTIFIER
CONSTANTS FOR DATA TYPE IDENTIFIER (SWBDATID)				
2	HEX	0004	SWBFCODE	FUNCTION = CONFIGURATION
2	HEX	0001	SWBSFCOD	SUBFUNCTION = SESSION AWARENESS
CONSTANT FOR BUFFER EYECATCHER (SWBFRIDC)				
8	CHARACTER	NLDM SAW	SWBFRIDC	BUFFER EYECATCHER
CONSTANTS FOR SAW DATA ENTRY KEY (SWBD2KEY)				
1	HEX	14	SWBKIPIF	COMBINED INIT PENDING/INIT FAILURE
1	HEX	15	SWBKBP	BIND PENDING
1	HEX	21	SWBKSS	SESSION START
1	HEX	22	SWBKBF	BIND FAILURE
1	HEX	23	SWBKSSSE	COMBINED SESSION START/SESSION END
1	HEX	31	SWBKHS	HARP SWITCH
1	HEX	41	SWBKSE	SESSION END
CONSTANTS FOR SESSION CLASS (SWBV01SC)				
0	BIT	00	SWBSDOM	SAME DOMAIN
0	BIT	01	SWBXDOM	CROSS DOMAIN (SAME NETWORK)
0	BIT	10	SWBXNET	CROSS NETWORK
0	BIT	11	SWBNTKWN	NOT KNOWN
CONSTANTS FOR SESSION TYPE (SWBV01ST)				
0	BIT	00	SWBDSSS	SSCP-SSCP
0	BIT	01	SWBDSSP	SSCP-PU (SSCP IS PRIMARY)
0	BIT	10	SWBDSSL	SSCP-LU (SSCP IS PRIMARY)
0	BIT	11	SWBDSLL	LU-LU
CONSTANTS FOR VECTOR KEYS				
NOTE: FOR SNA SESSION KEY '15', USE APS15 (IN ISTAPSK)				
1	HEX	01	SWBKEY01	SESSION INFORMATION
1	HEX	D0	SWBKEYD0	SESSION ACTIVATION
1	HEX	D1	SWBKEYD1	PLU ADJACENT NETWORK DATA
1	HEX	D2	SWBKEYD2	SLU ADJACENT NETWORK DATA
1	HEX	D3	SWBKEYD3	PNAU CONNECTIVITY
1	HEX	D5	SWBKEYD5	TIME STAMP
1	HEX	D8	SWBKEYD8	LOCAL ADDRESS
1	HEX	D9	SWBKEYD9	BIND FAILURE
1	HEX	DA	SWBKEYDA	PRIMARY SESSION PARTNER
1	HEX	DB	SWBKEYDB	SECONDARY SESSION PARTNER
1	HEX	E1	SWBKEYE1	NEXT SSCP DATA (PLU)
1	HEX	E2	SWBKEYE2	NEXT SSCP DATA (SLU)
1	HEX	F0	SWBKEYF0	CROSS-NETWORK SESSION ENDPOINT

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTSWBFR	0		1	SWBVFO	0		1
SWBDATA	30		2	SWBVFOKY	0		2
SWBDATID	4		3	SWBVFOLN	1		2
SWBDATLN	1A		3	SWBVFOPA	12		3
SWBDTENT	0		1	SWBVFOPN	2		3
SWBDTHDR	0		2	SWBVFOSA	1A		3
SWBDYNA	28	80	4	SWBVFOSN	A		3
SWBFLAGS	28		3	SWBVFQVD	2		2
SWBFRID	10		3	SWBVLAA	0		1
SWBFUNC	4		4	SWBVLAAD	2		3
SWBHDR	0		2	SWBVLAKN	1		2
SWBLEN	0		3	SWBVLAKY	0		2
SWBNEXT	24		3	SWBVLAVD	2		2
SWBPRCID	2		3	SWBV01	0		1
SWBSEQN	18		3	SWBV01CN	4		3
SWBSUBF	6		4	SWBV01DV	14		2
SWBS15	0		1	SWBV01HA	3	20	4
SWBS15BS	0		2	SWBV01HB	3	10	4
SWBS15NT	E		2	SWBV01KY	0		2
SWBVCDAT	2		2	SWBV01LM	C		3
SWBVCKEY	0		2	SWBV01LN	1		2
SWBVCLEN	1		2	SWBV01SC	2	80	4
SWBVDA	0		1	SWBV01ST	3	80	4
SWBVDACS	2		3	SWBV01VD	2		2
SWBVDADT	20		3				
SWBVDAKY	0		2				
SWBVDALN	1		2				
SWBVDASN	A		3				
SWBVDAVD	2		2				
SWBVDB	0		1				
SWBVDBDT	A		3				
SWBVDBKY	0		2				
SWBVDBLN	1		2				
SWBVDBRN	2		3				
SWBVDBVD	2		2				
SWBVDC	0		1				
SWBVDCKY	0		2				
SWBVDCLN	1		2				
SWBVDCLS	0		1				
SWBVDCLT	0		2				
SWBVDCNM	1		2				
SWBVDCVD	2		2				
SWBVDO	0		1				
SWBVDOOT	2		2				
SWBVDOKY	0		2				
SWBVDOLN	1		2				
SWBVDS	0		1				
SWBVDSKY	0		2				
SWBVDSLN	1		2				
SWBVDSYM	2		3				
SWBVDSVD	2		2				
SWBVDS9	0		1				
SWBVDS9KY	0		2				
SWBVDS9LN	1		2				
SWBVDS9RC	2		3				
SWBVECTR	0		1				
SWBVEX	0		1				
SWBVEXCD	2		3				
SWBVEXKY	0		2				
SWBVEXLN	1		2				
SWBVEXNT	A		3				
SWBVEXSC	1A		3				
SWBVEXSS	12		3				
SWBVEXVD	2		2				

## SDLC Transmission Header (TH)

<b>Function:</b>	The TH maps the transmission header for FID2, FID3, FID4, and FIDF.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	6 (X'06') - FID2 2 (X'02') - FID3 26 (X'1A') - FID4 26 (X'1A') - FIDF
<b>Located in:</b>	Found in the PIU, BTU and TSCB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTTH2	FID2 TRANSMISSION HEADER
0	(0)	CHARACTER	2	TH2FLAGS	FLAG BYTES
		1111 ....		TH2FID	FORMAT IDENTIFIER
		.... 11..		TH2MPF	MAPPING FIELD
		.... 1...		TH2RHI	RH INCLUDED INDICATOR
		.... .1..		TH2CMPLI	RU COMPLETE INDICATOR
		.... .1.		TH2ODAI	ASSIGNMENT INDICATOR (THE PU_TYPE 2 HAS ASSIGNED THE ELEMENT ADDRESS)
		.... ...1		TH2EFI	EXPEDITED FLOW INDICATOR
1	(1)	BITSTRING	1	*	RESERVED - NOT AVAILABLE
2	(2)	UNSIGNED	1	TH2DAF	DESTINATION ADDRESS FIELD
3	(3)	UNSIGNED	1	TH2OAF	ORIGIN ADDRESS FIELD
4	(4)	UNSIGNED	2	TH2SNF	SEQUENCE NUMBER FIELD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTTH3	FID3 TRANSMISSION HEADER
0	(0)	CHARACTER	1	TH3FLAGS	FLAG BYTES
		1111 ....		TH3FID	FORMAT IDENTIFIER
		.... 11..		TH3MPF	MAPPING FIELD
		.... 1...		TH3RHI	RH INCLUDED INDICATOR
		.... .1..		TH3CMPLI	RU COMPLETE INDICATOR
		.... .1.		*	RESERVED - NOT AVAILABLE
		.... ...1		TH3EFI	EXPEDITED FLOW INDICATOR
1	(1)	UNSIGNED	1	TH3LSID	LOCAL SESSION IDENTIFIER
		1... ....		TH3LUSCP	LU/SSCP INDICATOR 0=SSCP, 1=LU
		.1.. ....		TH3LUPU	LU/PU INDICATOR 0=PU, 1=LU
		..11 1111		TH3LOCAD	LOCAL ADDRESS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	26	ISTTH4	FID4 TRANSMISSION HEADER
0	(0)	CHARACTER	16	TH4EXT	FID4 EXTENSION
0	(0)	CHARACTER	2	TH4FLAGS	FLAG BYTES
		1111 ....		TH4FID	FORMAT IDENTIFIER
		.... 1...		TH4TGSW	TG_SWEEP - TG SWEEP INDICATOR 0=NO RESTRICTION, 1=THIS PIU DOES NOT OVERTAKE ANY PIU AHEAD OF IT ON THE TRANSMISSION GROUP
		.... .1..		TH4ERVRS	ER_VR_SUPP_IND - EXPLICIT ROUTE (ER) AND VIRTUAL ROUTE (VR) SUPPORT INDICATOR 0=EACH NODE ON THE EXPLICIT ROUTE SUPPORTS ER AND VR PROTOCOLS 1=THE PIU ORIGINATED FROM OR WAS FORWARDED BY A NODE THAT DOES NOT SUPPORT ER AND VR PROTOCOLS. E.G. IT IS TURNED ON WHEN FID4 REPLACES FID1

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ..1.		TH4VRPCI	VR_PAC_CNT_IND - VR PACING COUNT INDICATOR 0=PACING COUNT HAS NOT REACHED ZERO 1=SEND PACING COUNT HAS REACHED ZERO
		.... ...1		TH4NPRTY	NTWK_PRTY - NETWORK PRIORITY 0=PIU FLOWS ON LOWER PRIORITY) 1=PIU FLOWS ON HIGHEST NETWORK PRIORITY
		11.. ....		TH4TGSEG	TG_SEGMENTING BITS
		1... ....		TH4TGFIS	TG_SEG - FIRST IN SEGMENT 0=NOT SEGMENTED OR LAST IN SEGMENT 1=FIRST IN SEGMENT OR MIDDLE IN SEGMENT
		.1.. ....		TH4TGLIS	TG_SEG - LAST IN SEGMENT 0=NOT SEGMENTED OR FIRST IN SEGMENT 1=LAST IN SEGMENT OR MIDDLE IN SEGMENT
		..11 1111	*		RESERVED - NOT AVAILABLE
2	(2)	CHARACTER	1	TH4ERNF	TH4 BYTE 2
		1111 ....		TH4IERN	INITIAL EXPLICIT ROUTE NUMBER
		.... 1111		TH4ERN	EXPLICIT ROUTE NUMBER
3	(3)	CHARACTER	1	TH4VRID	VIRTUAL ROUTE IDENTIFIER
		1111 ....		TH4VRN	VIRTUAL ROUTE NUMBER
		.... 11..	*		RESERVED - NOT AVAILABLE
		.... ..11		TH4TPF	TRANSMISSION PRIORITY FIELD
4	(4)	CHARACTER	2	TH4TGSNF	UNMASKED TRANSMISSION GROUP SEQUENCE NUMBER FIELD
		1... ....		TH4VRCWI	VR_CWI - VIRTUAL ROUTE CHANGE WINDOW INDI- CATOR 0=INCREMENT WINDOW SIZE 1=DECREMENT WINDOW SIZE
		.1.. ....		TH4TGFNI	TG_NONFIFO_IND - TRANSMISSION GROUP NONFIFO INDICATOR 0=TG FIFO IS REQUIRED 1=TG FIFO NOT REQUIRED
		..11 ....		TH4VRSQT	VR_SQTI - VIRTUAL ROUTE SEQUENCING AND TYPE INDICATOR
4	(4)	BITSTRING	1	*	TRANSMISSION GROUP SEQUENCE NUMBER FIELD
6	(6)	CHARACTER	2	TH4VRSSN	UNMASKED VIRTUAL ROUTE SEQUENCE NUMBER FIELD
		1... ....		TH4VRPRQ	VIRTUAL ROUTE PACING REQUEST 0=NO VR RESPONSE REQUIRED 1=VR PACING RESPONSE REQUIRED
		.1.. ....		TH4VRPRS	VIRTUAL ROUTE PACING RESPONSE 0=NO VR RESPONSE IMPLIED 1=VR PACING RESPONSE
		..1. ....		TH4VCWRI	VR_CWRI - VIRTUAL ROUTE CHANGE WINDOW REPLY INDICATOR (THIS INDICATOR IS VALID ONLY WHEN TH4VRPRS IS 1) 0=INCREMENT WINDOW SIZE 1=DECREMENT WINDOW SIZE
		...1 ....		TH4VRRWI	VR_RWI - VIRTUAL ROUTE RESET WINDOW INDICATOR 0=NO ACTION 1=RESET WINDOW SIZE TO MINIMUM
6	(6)	BITSTRING	1	*	VR_SNF_SEND - VIRTUAL ROUTE SEND SEQUENCE NUMBER FIELD
8	(8)	UNSIGNED	4	TH4DSAF	DESTINATION SUBAREA ADDRESS FIELD
12	(C)	UNSIGNED	4	TH4OSAF	ORIGIN SUBAREA ADDRESS FIELD
16	(10)	CHARACTER	10	TH4OLD	OLD TH AREA
16	(10)	CHARACTER	2	TH4FLG1	FLAGS
		1111 ....		TH4OFID	OLD FID VALUE
		.... 11..		TH4MPF	MAPPING FIELD
		.... 1...		TH4RHI	RH INCLUDED INDICATOR
		.... .1..		TH4CMPLI	RU COMPLETE INDICATOR
		.... ..1.	*		RESERVED - NOT AVAILABLE
		.... ...1		TH4EFI	EXPEDITED FLOW INDICATOR 0=NORMAL FLOW 1=EXPEDITED FLOW
17	(11)	CHARACTER	1	*	RESERVED - NOT AVAILABLE
18	(12)	UNSIGNED	2	TH4DEF	DESTINATION ELEMENT FIELD
20	(14)	UNSIGNED	2	TH4OEF	ORIGIN ELEMENT FIELD
22	(16)	UNSIGNED	2	TH4SNF	SEQUENCE NUMBER FIELD
24	(18)	UNSIGNED	2	TH4DCF	DATA COUNT FIELD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	26	ISTTHF	FIDF TRANSMISSION HEADER	
0	(0)	CHARACTER	1	THFFLAGS	FLAG BYTES	
		1111 ....		THFFID	FORMAT IDENTIFIER	
		.... 1111		*	RESERVED	
1	(1)	CHARACTER	1	*	RESERVED	
2	(2)	CHARACTER	1	THFCFRMT	COMMAND FORMAT	
3	(3)	CHARACTER	1	THFCTYPE	COMMAND TYPE	
4	(4)	UNSIGNED	2	THFCSEQN	COMMAND SEQUENCE NUMBER	
6	(6)	CHARACTER	18	*	RESERVED	
24	(18)	UNSIGNED	2	THFDCF	DATA COUNT FIELD	

## Constants

Len	Type	Value	Name	Description
VALUES FOR FORMAT ID FIELD				
0	BIT	0000	THFID0	FORMAT 0
0	BIT	0001	THFID1	FORMAT 1
0	BIT	0010	THFID2	FORMAT 2
0	BIT	0011	THFID3	FORMAT 3
0	BIT	0100	THFID4	FORMAT 4
0	BIT	1111	THFIDF	FORMAT F
VALUES FOR MAPPING FIELD				
0	BIT	11	THONLY	ONLY SEGMENT
0	BIT	10	THFIRST	FIRST SEGMENT
0	BIT	00	THMIDLE	MIDDLE SEGMENT
0	BIT	01	THLAST	LAST SEGMENT
MASK VALUE FOR TH4VRSSN - VR SEND SEQUENCE NUMBER				
2	HEX	OFFF	TH4VRSMK	MASK VALUE FOR TH4VRSSN
2	HEX	F000	TH4VRSIM	INVERTED MASK VALUE FOR TH4VRSSN
VALUES FOR TH4TGSEG - TG SEGMENTING BITS				
0	BIT	01	TH4TGLSG	LAST IN SEGMENT
0	BIT	10	TH4TGFSG	FIRST IN SEGMENT
0	BIT	11	TH4TGMSG	MIDDLE IN SEGMENT
0	BIT	00	TH4TGNSG	NOT SEGMENTED
MASK VALUE FOR TH4TGSNF - TG SEQUENCE NUMBER FIELD				
2	HEX	OFFF	TH4TGSMK	MASK VALUE FOR TH4TGSNF
2	HEX	F000	TH4TGSIM	INVERTED MASK VALUE FOR TH4TGSNF
VALUES FOR FID4 TRANSMISSION PRIORITY				
0	BIT	00	TH4TPFLP	LOW PRIORITY
0	BIT	01	TH4TPFMP	MEDIUM PRIORITY
0	BIT	10	TH4TPFHP	HIGH PRIORITY
VALUES FOR FID4 VR_SQTI				
0	BIT	00	TH4VSTNN	NONSEQUENCED, NONSUPERVISORY
0	BIT	01	TH4VSTNS	NONSEQUENCED, SUPERVISORY
0	BIT	10	TH4VSTSS	SINGLY SEQUENCED
VALUES FOR FIDF COMMAND FORMAT				
1	HEX	01	THFCFCDF	CURRENTLY DEFINED FORMAT
VALUES FOR FIDF COMMAND TYPE				
1	HEX	01	THFSNFWA	TG SEQUENCE NUMBER FIELD WRAP ACKNOWLEDGMENT COMMAND
VALUES FOR PUNS ELEMENT ADDRESS				
4	DECIMAL	0	TH4PUNEA	THE ELEMENT ADDRESS OF PUNS IS ZERO

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTTHF	0		1	TH4VRPRS	6	40	4
ISTTH2	0		1	TH4VRRWI	6	10	4
ISTTH3	0		1	TH4VRSQT	4	20	4
ISTTH4	0		1	TH4VRSSN	6		3
THFCFRMT	2		2				
THFCSEQN	4		2				
THFCTYPE	3		2				
THFDCF	18		2				
THFFID	0	80	3				
THFFLAGS	0		2				
TH2CMPLI	0	04	4				
TH2DAF	2		2				
TH2EFI	0	01	3				
TH2FID	0	80	3				
TH2FLAGS	0		2				
TH2MPF	0	08	3				
TH2OAF	3		2				
TH2ODAI	0	02	3				
TH2RHI	0	08	4				
TH2SNF	4		2				
TH3CMPLI	0	04	4				
TH3EFI	0	01	3				
TH3FID	0	80	3				
TH3FLAGS	0		2				
TH3LOCAD	1	20	3				
TH3LSID	1		2				
TH3LUPU	1	40	3				
TH3LUSCP	1	80	3				
TH3MPF	0	08	3				
TH3RHI	0	08	4				
TH4CMPLI	10	04	5				
TH4DCF	18		3				
TH4DEF	12		3				
TH4DSAF	8		3				
TH4EFI	10	01	4				
TH4ERN	2	08	4				
TH4ERNF	2		3				
TH4ERVRS	0	04	4				
TH4EXT	0		2				
TH4FID	0	80	4				
TH4FLAGS	0		3				
TH4FLG1	10		3				
TH4IERN	2	80	4				
TH4MPF	10	08	4				
TH4NPRTY	0	01	4				
TH4OEF	14		3				
TH4OFID	10	80	4				
TH4OLD	10		2				
TH4OSAF	C		3				
TH4RHI	10	08	5				
TH4SNF	16		3				
TH4TGFIS	1	80	5				
TH4TGFNI	4	40	4				
TH4TGLIS	1	40	5				
TH4TGSEG	1	80	4				
TH4TGSNF	4		3				
TH4TGSW	0	08	4				
TH4TPF	3	02	4				
TH4VCWRI	6	20	4				
TH4VRCWI	4	80	4				
TH4VRID	3		3				
TH4VRN	3	80	4				
TH4VRPCI	0	02	4				
TH4VRPRQ	6	80	4				

## Transmission Subsystem Control Block (TSCB)

<b>Function:</b>	The TSCB is the work element used by TSC to process incoming and outgoing requests.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	INNUTQUE (INNCB) - TSCBs waiting for INN utility processor INNXTSCB (INNX) - INN PIUs waiting for transmission NCBPUREQ (NCB) - active PUS I/O request TSCB NCBSENDQ (NCB) - queue of TSCBs to be written TSCCONT (TSCB) - TSCB for continuation of this PIU TSCNEXT (TSCB) - TSCB for next PIU TSCRELAT (TSCB) - related TSCB TSPTSCB (TSPL) TSWTSCB (TSWA) - TSCB to be posted VRBRHOLD (VRBIBASE in VRBLK) - pointer to request hold queue for TSCBs when the route is held or blocked. VIT entries: PIU (FID4 PIU record, part 1) See <i>VTAM Diagnosis</i> for more information on the VIT entry.
<b>Located in:</b>	Found in the CPCRR and I/O buffers, and in pageable storage.
<b>Included Blocks:</b>	RH (TSCRH), RU (TSCRU), FID4 TH (TSCTH4), other THs (TSCTH).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	68	ISTTSCB	
0	(0)	CHARACTER	39	TSCBASE	BASE PORTION OF TSCB
0	(0)	CHARACTER	1	TSCTYPE	CONTROL BLOCK IDENTIFIER
1	(1)	UNSIGNED	1	TSCLEN	CONTROL BLOCK LENGTH
2	(2)	UNSIGNED	1	TSCMAJCD	MAJOR RETURN CODE
3	(3)	UNSIGNED	1	TSCMINCD	MINOR RETURN CODE
4	(4)	ADDRESS	4	TSCNEXT	POINTER TO TSCB OR RPL FOR NEXT PIU
8	(8)	ADDRESS	4	TSCCONT	POINTER TO TSCB FOR CONTINUATION OF THIS PIU
12	(C)	ADDRESS	4	TSCDATAA	POINTER TO RU SECTION
16	(10)	SIGNED	4	TSCDATLN	LENGTH OF RU SECTION
20	(14)	SIGNED	4	TSCNXNOD	SUBAREA POINTER TO NEXT NODE IN PATH
20	(14)	SIGNED	4	TSCFICSQ	FIRST IN CHAIN SEQUENCE NUMBER
24	(18)	CHARACTER	1	TSCFLAG1	FLAGS DESCRIBING REQUEST
		11.. ....		TSCPOST	POSTING REQUIREMENT
		..11 ....		TSCRTYPE	RELATED CONTROL BLOCK TYPE
		... 1..		TSCINTER	INTERNAL REQUEST
		... .1..		TSCEXTER	EXTERNAL REQUEST (THIS FLAG IS DEFINED ONLY WHEN TSCINTER IS ON)
		... ..1.		TSCLUCSR	TSCB QUEUED FROM ISTTSCSR DIRECTLY TO SESSER
		... ..1		TSCVALCK	VALIDATE USER DATA AREA
25	(19)	CHARACTER	1	TSCFLAG2	INTERNAL TSC FLAGS
		1.. ....		TSCGTSTR	TSCB WAS ALLOCATED VIA VTALLOK
		.1.. ....		TSCPAGE	PAGEABLE TSCB
		..1. ....		*	RESERVED
		..1. ....		*	RESERVED
		..1. ....		TSCIPR	IPR REQUIRED
		...1 ....		*	RESERVED
		... 1..		TSCQUEUE	TSCB ON INBOUND DATA QUEUE
		... 1..		TSCRQRRQ	TSCB CONTAINS REQUEST RECOVERY REQUEST
		... .1..		TSCBBI	BRACKET BEING INITIATED BY THE PLU
		... ..1.		TSCCDATA	DATA IS CONFIDENTIAL
		... ..1		TSCBUFFL	TSCDATAA IS A POINTER TO A BUFFER LIST ENTRY
26	(1A)	CHARACTER	1	TSCFLAG3	INTERNAL TSC FLAGS
		1.. ....		TSCIOTRC	I/O TRACE REQUIRED
		.1.. ....		TSCSBFTR	SUPPRESS BUFFER TRACE
		..1. ....		TSCSPIOI	SUPPRESS INBOUND I/O TRACE
		...1 ....		TSCSPIOO	SUPPRESS OUTBOUND I/O TRACE
		... 1..		TSCPDTRC	PROBLEM DETERMINATION TRACE REQUIRED



Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
		.... .1..		TSCSPDOT	SUPPRESS PROBLEM DETERMINATION TRACE	
		.... ..1.		TSCSPPIU	SUPPRESS INBOUND PIU TRACE	
		.... ...1		TSCCNM	ROUTE TO CNM APPL	
27	(1B)	ADDRESS	4	TSCRELAT	POINTER TO RELATED RPL, TSCB, PAB, OR RPH	
31	(1F)	UNSIGNED	1	*	RESERVED	
32	(20)	SIGNED	2	TSCACTNO	VIRTUAL ROUTE ACTIVATION NUMBER	
34	(22)	UNSIGNED	1	TSCBPLI	BSC POLLING LIST INDEX	
35	(23)	SIGNED	2	TSCFBCNT	FIXED BUFFER COUNT	
37	(25)	UNSIGNED	2	TSCILNG	LENGTH OF DATA. NOTE: THIS FIELD MUST IMMEDIATELY PRECEDE THE PIU	
39	(27)	CHARACTER	29	TSCPIU	PATH INFORMATION UNIT	
39	(27)	CHARACTER	16	TSCTH4	FID4 TH EXTENSION	
55	(37)	CHARACTER	10	TSCTH	TRANSMISSION HEADER	
65	(41)	CHARACTER	3	TSCRH	REQUEST/RESPONSE HEADER	
68	(44)	CHARACTER	*	TSCRU	REQUEST/RESPONSE UNIT	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	24	*	CCW OVERLAY OF TSCB	
0	(0)	CHARACTER	16	TSCCCW	CCW	
0	(0)	CHARACTER	8	TSCRWCCW	READ/WRITE CCW	
8	(8)	CHARACTER	8	TSCTICCW	TIC CCW	
16	(10)	CHARACTER	8	TSCEXT	TIC EXTENSION	
16	(10)	CHARACTER	8	TSCTICX1	VIRTUAL ADDRESS OF BUFFER	

OVERLAY FOR PU SERVICES I/O

0	(0)	STRUCTURE	594	TSCPUSIO		
0	(0)	CHARACTER	1	*	AVAILABLE - USED FOR ALIGNMENT	
1	(1)	CHARACTER	8	TSCPCCW (6)	CCW ARRAY	
49	(31)	CHARACTER	255	TSCODATA	OUTPUT AREA	
304	(130)	CHARACTER	255	TSCIDATA	INPUT AREA	
559	(22F)	CHARACTER	35	TSCPDATA	MISCELLANEOUS I/O AREA	
559	(22F)	CHARACTER	35	TSCPDAT1	DATA AREA	
594	(252)	CHARACTER	*	TSCPDAT2	DATA AREA	

Constants

Len	Type	Value	Name	Description
VALUE FOR CONTROL BLOCK IDENTIFIER (TSCTYPE)				
1	HEX	99	TSCCBID	
VALUES FOR POSTING REQUIREMENT (TSCPOST)				
0	BIT	00	TSCPOSTN	NO POSTING REQUIRED
0	BIT	01	TSCPOSTS	POST WHEN SCHEDULED
0	BIT	10	TSCPOSTR	POST WHEN RESPONSE RECEIVED
VALUES FOR RELATED CONTROL BLOCK TYPE (TSCRTYPE)				
0	BIT	00	TSCRRLPL	RELATED BLOCK IS RPL
0	BIT	01	TSCRRTSCB	RELATED BLOCK IS TSCB
0	BIT	10	TSCRPAAB	RELATED BLOCK IS PAB
0	BIT	11	TSCRRLPH	RELATED BLOCK IS RPH

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTTSCB	0		1
TSCACTNO	20		3
TSCBASE	0		2
TSCBBI	19	04	4
TSCBPLI	22		3
TSCBUFFL	19	01	4
TSCCCW	0		2
TSCCDATA	19	02	4
TSCCNM	1A	01	4
TSCCONT	8		3
TSCDATAA	C		3
TSCDATLN	10		3
TSCEXT	10		2
TSCEXTER	18	04	4
TSCFBCNT	23		3
TSCFICSQ	14		4
TSCFLAG1	18		3
TSCFLAG2	19		3
TSCFLAG3	1A		3
TSCGTSTR	19	80	4
TSCIDATA	130		2
TSCILNG	25		3
TSCINTER	18	08	4
TSCIOTRC	1A	80	4
TSCIPR	19	20	6
TSCLEN	1		3
TSCLUCSR	18	02	4
TSCMAJCD	2		3
TSCMINCD	3		3
TSCNEXT	4		3
TSCNXNOD	14		3
TSCODATA	31		2
TSCPAGE	19	40	4
TSCPCCW	1		2
TSCPDATA	22F		2
TSCPDAT1	22F		3
TSCPDAT2	252		3
TSCPDTRC	1A	08	4
TSCPIU	27		2
TSCPOST	18	80	4
TSCPUSIO	0		1
TSCQUEUE	19	08	4
TSCRELAT	1B		3
TSCRH	41		3
TSCRQRRQ	19	08	5
TSCRTYPE	18	20	4
TSCRU	44		3
TSCRWCCW	0		3
TSCSBFTR	1A	40	4
TSCSPIOI	1A	20	4
TSCSPIOO	1A	10	4
TSCSPPDT	1A	04	4
TSCSPPIU	1A	02	4
TSCTH	37		3
TSCTH4	27		3
TSCTICCW	8		3
TSCTICX1	10		3
TSCTYPE	0		3
TSCVALCK	18	01	4

## Transmission Subsystem Parameter List (TSPL)

<b>Function:</b>	The TSPL maps the transmission subsystem parameter list and status areas in the FMCB.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	32 (X'20')
<b>Pointed to by:</b>	RPHWEA (RPH)
<b>Included Blocks:</b>	ARSI (TSPARSI), PAB (TSPTSIP, TSPTSOP), PROCD (TSPPROCD)
<b>Located in:</b>	Found in the TSWA and FMCB. The TSPL parameter list is allocated out of the RPH work area storage.
<b>Additional Notes:</b>	When the TSPL contains information about a half-session, its status areas are mapped on the FMCB. See the map of the FMCB to determine how these areas are based. When the TSPL is in an FMCB, storage may be obtained by issuing a REQSTORE macroinstruction or, for SSCP sessions, by issuing a GETBLK macroinstruction.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	32	ISTTSPL		
0	(0)	UNSIGNED	1	TSPCBID	CONTROL BLOCK IDENTIFIER	
1	(1)	UNSIGNED	1	TSPLEN	CONTROL BLOCK LENGTH	
2	(2)	CHARACTER	1	TSPTSFL1	FLAGS	
		1... ....		TSPFLOW	INBOUND OR OUTBOUND FLOW INDICATOR	
		.1.. ....		TSPWORKQ	OUTBOUND WORK QUEUE INDICATOR	
		..1. ....		TSPLMEML	LOCAL MEMORY LOCK INDICATOR 1 = LOCK IS HELD	
		...1 ....		TSPPDNOS	PROBLEM DETERMINATION TRACE ENTRY IS NOT RELATED TO A SPECIFIC SESSION	
		.... 1111		*	NOT USED - AVAILABLE	
3	(3)	CHARACTER	1	*	NOT USED - AVAILABLE	
4	(4)	ADDRESS	4	TSPTSCB	POINTER TO TSCB OR RPL	
8	(8)	ADDRESS	4	TSPENSA	POINTER TO ENVIRONMENT STATUS AREA (ENSA)	
12	(C)	ADDRESS	4	TSPPCSA	POINTER TO PATH CONTROL STATUS AREA (PCSA)	
16	(10)	ADDRESS	4	TSPTCSA	POINTER TO TRANSMISSION CONTROL STATUS AREA (TCSA)	
20	(14)	ADDRESS	4	TSPDFCSA	POINTER TO DATA FLOW CONTROL STATUS AREA (DFCSA)	
24	(18)	ADDRESS	4	TSPPSSA	POINTER TO PRESENTATION SERVICES STATUS AREA (PSSA)	
28	(1C)	ADDRESS	4	TSPEXTA	POINTER TO NON-WORKING SET EXTENSION (EXT)	

ENVIRONMENT STATUS AREA (ENSA)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	72	TSPENSAA		
0	(0)	UNSIGNED	1	TSPTYPE	CONTROL BLOCK IDENTIFIER	
1	(1)	UNSIGNED	1	TSPLNGTH	CONTROL BLOCK LENGTH	
2	(2)	CHARACTER	2	TSPSTAT1	STATUS BYTE 1	
		1... ....		TSPAVAIL	FMCB AVAILABLE TO USER	
		.1.. ....		TSPIOTRC	I/O TRACE IS REQUIRED	
		..1. ....		TSPBFTRC	BUFFER TRACE IS REQUIRED	
		...1 ....		TSPBLKRQ	BLOCK NORMAL FLOW REQUESTS	
		.... 1..		TSPBSFWR	BSC STATUS TO FOLLOW FOR WRITE - NON-SNA 3270	
		.... .1..		TSPBRINU	BRACKETS IN USE - NON-SNA 3270	
		.... ..1.		TSPSPS	TERMINAL IS START PRINT SENSITIVE - NON-SNA 3270	
		.... ...1		TSPABEND	APPLICATION PROGRAM IS ABENDING	
		1... ....		TSPRPH	INDICATE RPH IS ON PAB QUEUE	
		.1.. ....		TSPBTRAN	SEND DATA IN TRANSPARENT MODE	
		..1. ....		TSPRIP	RECOVERY IN PROGRESS - NOTE REDEFINITION FOR COMPARE AND SWAP LOGIC BELOW	
		...1 ....		TSPB3270	CONNECTION IS TO BSC 3270	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1...		TSPPDTRC	PROBLEM DETERMINATION TRACE IS REQUIRED
		.... .1..		TSPNOENA	ENA CAPABILTY BIT 0 = ENA CAPABLE 1 = PRE ENA
		.... ..1.		TSPCDRSC	CROSS DOMAIN RESOURCE
		.... ...1		TSPFILTR	1 = SESSION NOT TRACED 0 = SESSION TRACED
4	(4)	ADDRESS	4	TSPXPTR	POINTER TO NON-WORKING SET EXTENSION
8	(8)	ADDRESS	4	TSPTSKID	TASK IDENTIFIER
12	(C)	ADDRESS	4	TSPEPTA	POINTER TO ENTRY POINT TABLE
16	(10)	CHARACTER	20	TSPTSIP	TRANSMISSION SUBSYSTEM INBOUND PAB
36	(24)	ADDRESS	4	TSPFDTCH	FDT CHAIN POINTER
40	(28)	CHARACTER	20	TSPTSOP	TRANSMISSION SUBSYSTEM OUTBOUND PAB
60	(3C)	ADDRESS	4	TSPWORK	EXPEDITED FLOW WORK QUEUE
64	(40)	ADDRESS	4	TSPLMP	POINTER TO LMPCB (LARGE MESSAGE PROCESSING CONTROL BLOCK)
68	(44)	SIGNED	4	TSPCID	4 BYTE UNIQUE SESSION IDENTIFIER
68	(44)	CHARACTER	1	TSPCIDR	REUSE COUNTER
69	(45)	CHARACTER	3	TSPCIDI	CITE INDEX

PATH CONTROL STATUS AREA (PCSA)

0	(0)	STRUCTURE	32	TSPPCSA	
0	(0)	SIGNED	2	TSPACTNO	VIRTUAL ROUTE ACTIVATION NUMBER
2	(2)	BITSTRING	1	TSPVRID	VIRTUAL ROUTE IDENTIFIER
3	(3)	BITSTRING	1	*	FLAG BYTE
		1... ....		TSPVRSON	VIRTUAL ROUTE INOPERATIVE NOTIFICATION BEGUN
		.111 ....		*	INDICATOR 0=UNBIND NOT SENT 1=UNBIND SENT
		.... 1111		TSPHOTIO	NOT USED - AVAILABLE
		.... 11..		TSPRUHOT	CONTAINS HOT I/O FSMS
		.... ..11		TSPUSTIO	FSM FOR RU SIZE. INDICATES THAT THIS SESSION RECEIVED AN RU THAT WAS LARGER THAN THE ALLOWABLE MAXIMUM
					FSM FOR USER STORAGE. INDICATES THAT A SHORTAGE OF USER STORAGE FOR THIS SESSION HAS OCCURED
4	(4)	ADDRESS	4	TSPACCUM	ACCUM.SESS - POINTER TO TSCB REPRESENTING PIU BEING ACCUMULATED
8	(8)	ADDRESS	4	TSPNXNOD	ADDRESS OF ICNCB, LDNCB, LUCB, OR VRBLK REPRESENTING NEXT NODE IN PATH
12	(C)	SIGNED	4	TSPMXRUI	MAXIMUM RU SIZE INBOUND
16	(10)	SIGNED	4	TSPMXRUO	MAXIMUM RU SIZE OUTBOUND
20	(14)	SIGNED	4	TSPRUSIZ	CURRENT RU SIZE
24	(18)	CHARACTER	4	TSPLEAD	ELEMENT ADDRESSES OF BOTH SESSION PARTNERS
24	(18)	SIGNED	2	TSPLUEA	THIS LU'S ELEMENT ADDRESS
26	(1A)	SIGNED	2	TSPSPEA	THE SESSION PARTNER'S ELEMENT ADDRESS
28	(1C)	SIGNED	4	TSPSPSA	THE SESSION PARTNER'S SUB AREA ADDRESS

TRANSMISSION CONTROL STATUS AREA (TCSA)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	24	TSPTCSAA	
0	(0)	UNSIGNED	2	TSPSQCNT	SQN.SEND.CNT - NORMAL FLOW OUTBOUND SEQUENCE NUMBER OR IDENTIFIER
2	(2)	UNSIGNED	2	TSPIDCNT	ID.EXP.SEND.CNT - EXPEDITED FLOW OUTBOUND IDENTIFIER
4	(4)	UNSIGNED	2	TSPFICSQ	FIRST SEQUENCE NUMBER FOR CURRENT CHAIN
6	(6)	UNSIGNED	1	TSPPALIM	LIMIT VALUE FOR PAC.RQ.SEND
7	(7)	UNSIGNED	1	TSPACNT	PAC.RQ.SEND - OUTBOUND PACING STATE (COUNT)
8	(8)	UNSIGNED	2	TSPSQRCV	SEQN.RCV.CNT - NORMAL FLOW INBOUND SEQUENCE NUMBER
10	(A)	CHARACTER	2	TSPTCFL2	SESSION CHARACTERISTICS
		1... ....		TSPSECND	SECONDARY END OF SESSION
		.1.. ....		TSPSQNTY	SEQUENCE NUMBERS OR IDENTIFIERS ARE BEING USED
		..1. ....		TSPSDTSE	SDT MAY BE SENT
		...1 ....		TSPCLRSE	CLEAR MAY BE SENT
		.... 1...		TSPSTSNS	STSN MAY BE SENT
		.... .1..		TSPRQRSE	RQR MAY BE SENT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ..1.		TSPSDTRV	SDT MAY BE RECEIVED
		.... ...1		TSPCLRRV	CLEAR MAY BE RECEIVED
		1... ....		TSPSTSNR	STSN MAY BE RECEIVED
		.1.. ....		TSPRQRRV	RQR MAY BE RECEIVED
		..1. ....		TSPCRYPT	SESSION LEVEL DATA ENCRYPTION IN USE
		...1 ....		TSPSCRPT	SUPPRESS DATA ENCRYPTION
		.... 1..		TSPCRPTA	ENCIPHER ALL DATA
		.... ..1.		*	RESERVED
		.... ..11		*	NOT USED - AVAILABLE
12	(C)	CHARACTER	4	TSPCSPRG	WORD USED TO CS TSPLPMAJ AND TSPLPMIN
12	(C)	CHARACTER	2	TSPTCFL1	TC STATE FLAGS
		11.. ....		TSPSESSR	PRI.SESS.SEND OR SEC.SESS.RCV SESSION STATE
		..11 ....		TSPSESTY	SESSION TYPE
		.... 11..		TSPDTSR	PRI.DT.SEND OR SEC.DT.RCV - DATA TRAFFIC STATE
		.... ..11		TSPCRVSR	PRI.CRV.SEND OR SEC.CRV.RECEIVE - CRV STATE
		1... ....		TSPIMEXP	CNTL.IMMED.EXP - EXPEDITED FLOW IMMEDIATE CONTROL STATE
		.1.. ....		TSPPACRS	PACING RESPONSE RECEIVED
		..1. ....		TSPRQRSR	RQR_SEND OR RQR_RCV
		...1 ....		TSPIDI	INBOUND DIRECTION INDICATOR 1=AN INBOUND RESPONSE IS REQUIRED TO COMPLETE A PENDING SESSION STATE
		.... 1..		TSPASPI	SESSION USES ADAPTIVE SESSION PACING
		.... ..1.		TSPRLWS	REQUEST LARGER WINDOW SIZE ON NEXT OUTBOUND PACING REQUEST
		.... ..1.		*	RESERVED
		.... ...1		*	NOT USED - AVAILABLE
14	(E)	UNSIGNED	1	TSPLPMAJ	LAST PURGE MAJOR RETURN CODE
15	(F)	UNSIGNED	1	TSPLPMIN	LAST PURGE MINOR RETURN CODE
16	(10)	SIGNED	2	TSPPAWND	RECEIVED PACING WINDOW
18	(12)	SIGNED	2	TSPACNW	NEXT PACING WINDOW
20	(14)	SIGNED	2	TSPACCW	CURRENT PACING WINDOW
22	(16)	CHARACTER	2	*	NOT USED - AVAILABLE

DATA FLOW CONTROL STATUS AREA

0	(0)	STRUCTURE	4	TSPDFSAA	
0	(0)	UNSIGNED	2	TSPIERSN	INBOUND EXCEPTION RESPONSE SEQUENCE NUMBER
2	(2)	CHARACTER	1	TSPDFFL1	DFC STATES
		1... ....		TSPCHNSE	CHAIN.SEND - CHAIN STATE MANAGER SEND
		..11 1111		*	NOT USED - AVAILABLE
3	(3)	CHARACTER	1	TSPDFRC1	NOT USED - AVAILABLE

PRESENTATION SERVICES STATUS AREA (PSSA)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	76	TSPSSAA	
0	(0)	ADDRESS	4	TSPDEBA	POINTER TO THE ACDEB
4	(4)	ADDRESS	4	TSPEXLST	POINTER TO THE CONNECTION EXIT LIST
8	(8)	ADDRESS	4	TSPNWAIT	NORMAL FLOW WAIT QUEUE
12	(C)	ADDRESS	4	TSPEWAIT	EXPEDITED FLOW WAIT QUEUE
16	(10)	ADDRESS	4	TSPNDATA	NORMAL FLOW INBOUND DATA QUEUE
20	(14)	ADDRESS	4	TSPEDATA	EXPEDITED FLOW INBOUND DATA QUEUE
24	(18)	ADDRESS	4	TSPRESP	NORMAL FLOW INBOUND RESPONSE QUEUE
28	(1C)	CHARACTER	4	TSPUSFLD	USER FIELD
32	(20)	ADDRESS	4	TSPRPL	RECEIVE SPECIFIC RPL QUEUE
36	(24)	ADDRESS	4	TSPAFMCB	POINTER TO NEXT FMCB ON THE DOUBLY THREADED RECEIVE ANY QUEUE
40	(28)	CHARACTER	4	TSPPROC	NIB PROCESSING OPTIONS
44	(2C)	ADDRESS	4	TSPPSRPH	POINTER TO WAITING RPH
48	(30)	SIGNED	2	TSPRSPLM	NUMBER OF OUTSTANDING POST=RESP REQUESTS ALLOWED
50	(32)	CHARACTER	2	TSPPSFL3	SESSION CHARACTERISTICS
		1... ....		TSPSDTAP	SDT OPTION 0 = SDT SENT BY VTAM 1 = SDT SENT BY APPL
50	(32)	BITSTRING	1	*	NOT USED - AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
52	(34)	CHARACTER	4	TSPCSRSP	WORD USED TO COMPARE AND SWAP TSPNPEQR
52	(34)	CHARACTER	1	TSPPSFL1	PRESENTATION SERVICES FLAG
		11.. ....		TSPOBSAC	STSN OUTBOUND ACTION CODE
		..11 ....		TSPIBSAC	STSN INBOUND ACTION CODE
		.... 1..		TSPRSPMD	RESP MODE 0=CONTINUE ANY 1=CONTINUE SPECIFIC
		.... .1..		TSPNRQMD	DFSYN MODE 0=CONTINUE ANY 1=CONTINUE SPECIFIC
		.... ..1.		TSPERQMD	DFASY MODE 0=CONTINUE ANY 1=CONTINUE SPECIFIC
		.... ...1		TSPANYQ	FMCB ON ACDEB ANY FMCB QUEUE 0 = NOT QUEUED 1 = ON QUEUE
53	(35)	CHARACTER	1	TSPPSFL2	PRESENTATION SERVICES FLAG
		1.. ....		TSPCHGMD	CHANGE MODE REQUEST 0 = NO 1 = YES
		.1.. ....		TSPPEQS	POST = SCHED REQUEST BEING PROCESSED 0 = NO 1 = YES
		..11 ....		TSPPRFSM	BSC 3270 PRINTER FINITE STATE MACHINE (USED TO INSURE THAT THE CORRECT BRACKET STATE IS PASSED TO THE APPLICATION WHEN INPUT DATA IS RECEIVED WHILE A STANDALONE DISCONNECT IS IN PROGRESS)
		.... 1111		*	NOT USED - AVAILABLE
54	(36)	SIGNED	2	TSPNPEQR	NUMBER OF OUTSTANDING POST=RESP REQUESTS
56	(38)	ADDRESS	4	TSPHSICB	POINTER TO THE HSICB (FOR APPC SESSIONS ONLY)
60	(3C)	ADDRESS	4	TSPPFMCB	POINTER TO THE PREVIOUS FMCB ON THE DOUBLY THREADED RECEIVE ANY QUEUE
64	(40)	CHARACTER	12	*	NOT USED- AVAILABLE

NON-WORKING SET EXTENSION TO FMCB

0	(0)	STRUCTURE	72	TSPEXT	
0	(0)	CHARACTER	6	TSPNA	NETWORK ADDRESS OF DESTINATION LOGICAL UNIT
0	(0)	SIGNED	4	TSPDSAF	DESTINATION SUBAREA
4	(4)	SIGNED	2	TSPDEAF	DESTINATION ELEMENT ADDRESS
6	(6)	UNSIGNED	1	TSPXLEN	LENGTH OF EXTENSION
7	(7)	UNSIGNED	1	TSPFMPRO	FM PROFILE
8	(8)	SIGNED	4	TSPCIDE	UNIQUE 4 BYTE SESSION IDENTIFIER
8	(8)	CHARACTER	1	TSPCIDRE	REUSE COUNTER
9	(9)	CHARACTER	3	TSPCIDIE	CITE INDEX
12	(C)	ADDRESS	4	TSPFMCBA	POINTER TO THE ASSOCIATED FMCB
16	(10)	CHARACTER	12	TSPSID	SESSION ID
16	(10)	CHARACTER	6	TSPPLUNA	PLU NETWORK ADDRESS
16	(10)	SIGNED	4	TSPPLUSA	PLU SUBAREA NUMBER
20	(14)	SIGNED	2	TSPPLUEA	PLU ELEMENT ADDRESS
22	(16)	CHARACTER	6	TSPSLUNA	SLU NETWORK ADDRESS
22	(16)	SIGNED	4	TSPSLUSA	SLU SUBAREA NUMBER
26	(1A)	SIGNED	2	TSPSLUEA	SLU ELEMENT ADDRESS
28	(1C)	ADDRESS	4	TSPNEXTA	POINTER TO NEXT FMCB EXTENTION ON THE LUCB QUEUE
32	(20)	ADDRESS	4	TSPPREVA	POINTER TO THE PREVIOUS FMCB EXTENSION ON THE LUCB QUEUE
36	(24)	ADDRESS	4	TSPSTQ	POINTER TO NEXT FMCB ON PST FMCB QUEUE
40	(28)	ADDRESS	4	TSPFDTXP	POINTER TO CHAIN FMCB EXTENSION TO A FDT CHAIN
44	(2C)	CHARACTER	4	TSPCLRC	WORD USED TO CS TSPOLRC AND TSPILRC D14AKQX
44	(2C)	CHARACTER	1	TSPXFTG	EXTENSION FLAGS
		1.. ....		TSPNAPND	NA ADD PENDING FOR THIS FMCB
		.1.. ....		TSPFREE	EXTENSION IS FREEABLE BY SESSION SERIALIZATION
		..1. ....		TSPEXIT	IF ON NO EXIT NEEDS TO BE DRIVEN FOR THIS EXTENSION
		...1 ....		TSPVRPL	IF ON VALID VRPL POINTER IN RUPEUSR
		.... 1..		*	RESERVED
		.... .111		*	NOT USED - AVAILABLE
45	(2D)	CHARACTER	1	*	NOT USED - AVAILABLE
46	(2E)	UNSIGNED	1	TSPOLRC	OUTBOUND BUFFER TRACE LOST RECORD COUNT
47	(2F)	UNSIGNED	1	TSPILRC	INBOUND BUFFER OR LINE TRACE LOST RECORD COUNT
48	(30)	CHARACTER	8	TSPNAME	NAME OF SESSION PARTNER
56	(38)	CHARACTER	16	TSPPREXT	PROCESS EXTENSION (BSC 3270, CRYPTOGRAPHY, OR RELEASED)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
72	(48)	CHARACTER	*	TSPUSRA	USER AREA (LUS, PUS, OR SSCP)

BSC 3270 EXTENSION TO FMCB

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
56	(38)	STRUCTURE	12	TSPBSC	
56	(38)	CHARACTER	4	TSPPCS	WORD FOR COMPARE AND SWAP
56	(38)	UNSIGNED	2	TSPSCSQN	SEQUENCE NUMBER OF SESSION CONTROL COMMAND IN PROGRESS
58	(3A)	UNSIGNED	1	TSPCMDIP	REQUEST CODE OF COMMAND IN PROGRESS
59	(3B)	UNSIGNED	1	TSPRCNT	RETRY COUNTER FOR SSA FAILURES
60	(3C)	CHARACTER	6	TSPSPNA	SESSION PARTNER NETWORK ADDRESS FOR SSA COMMAND
60	(3C)	SIGNED	4	TSPSPSAF	SESSION PARTNERS SUBAREA ADDRESS
64	(40)	SIGNED	2	TSPPELM	SESSION PARTNERS ELEMENT ADDRESS
66	(42)	CHARACTER	1	TSPBSFL1	BSC 3270 FLAGS
		1... ..		TSPSSAF	SSA FAILED
		.1.. ..		TSPBHSTF	SELECT BHSET FAILED
		..1. ....		TSPINPUT	TERMINAL HAS INPUT CAPABILITY
		...1 ....		TSPSETMF	SET DESTINATION MODE FAILED
		.... 1..		TSPBHLK	BHSET IS NOT SUPPORTED BY THE NCP
		.... .1..		TSPCONF	CONTACT FAILED
		.... ..11		*	NOT USED - AVAILABLE
67	(43)	UNSIGNED	1	TSPBSQNO	FIDO SEQUENCE NUMBER

CRYPTOGRAPHY EXTENSION TO FMCB

56	(38)	STRUCTURE	16	TSPCRF	
56	(38)	CHARACTER	8	TSPCKEY	SESSION KEY
64	(40)	CHARACTER	8	TSPCSEED	INITIAL CHAINING VALUE

RELEASED EXTENSION TO FMCB

NOTE: THESE FIELDS AREA VALID ONLY WHEN THE FMCB HAS BEEN FREED. I.E. TSPFMCBA=0 OR TSPFMCBA='80000000'X

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
56	(38)	STRUCTURE	16	TSPREL	RELEASED FMCB EXTENTION
56	(38)	ADDRESS	4	TSPEXLSC	POINTER TO THE EXIT LIST (VALUE OF TSPEXLST WHEN THE FMCB IS RELEASED)
60	(3C)	CHARACTER	4	TSPUSFLC	USER FIELD (VALUE OF TSPUSFLD WHEN THE FMCB IS RELEASED)
64	(40)	CHARACTER	8	*	NOT USED - AVAILABLE

LUS EXTENSION TO FMCB

72	(48)	STRUCTURE	32	TSPLUS	
72	(48)	UNSIGNED	1	*	NOT USED - AVAILABLE
73	(49)	UNSIGNED	1	*	FLAGS
		1... ..		TSPIMED	PREVIOUS UNBIND TYPE SENT 0= NONIMMEDIATE 1= IMMEDIATE
		.111 1111		*	NOT USED - AVAILABLE
74	(4A)	BITSTRING	2	TSPLUFLG	FLAGS
		1... ..		TSPBRQS	BIND REQUEST HAS BEEN SENT
		.1.. ..		TSPBRQR	BIND REQUEST HAS BEEN RECEIVED
		..1. ....		TSPBRPS	BIND RESPONSE HAS BEEN SENT
		...1 ....		TSPBRPR	BIND RESPONSE HAS BEEN RECEIVED
		.... 1..		TSPUNRQS	UNBIND REQUEST HAS BEEN SENT
		.... .1..		TSPUNRQR	UNBIND REQUEST HAS BEEN RECEIVED
		.... ..1		TSPUNRPS	UNBIND RESPONSE HAS BEEN SENT
		.... ...1		TSPUNRPR	UNBIND RESPONSE HAS BEEN RECEIVED
		1... ..		TSPSSS	SESSION STARTED SENT
		.1.. ..		TSPSES	SESSION ENDED SENT
		..1. ....		TSPUNBF	UNBIND FAILED
		...1 ....		TSPUNBFS	UNBIND FAILURE SENT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1..		TSPUNBOK	SESSION UNBOUND SUCCESSFULLY
		.... .1..		TSPLOST	LOSTERM HAS BEEN SCHEDULED WITH A CODE INDICATING CLSDST SHOULD BE DONE
		.... ..1.		TSPCLNP	APPLICATION HAS BEEN INFORMED THAT THE SESSION IS BEING CLEANED UP
		.... ...1		TSPBFS	BIND FAILURE SENT
76	(4C)	ADDRESS	4	TSPRQQ	LUS RUPE REQUEST QUEUE
80	(50)	CHARACTER	1	TSPUNBCD	UNBIND TYPE CODE
81	(51)	BITSTRING	1	*	MORE LUS FLAGS
		1.. ....		TSPCLDST	CLSDST IS IN PROGRESS
		.1.. ....		TSPHARP	HARP SESSION
		..1. ....		TSPHTYPE	HARP SESSION TYPE 0=PRIMARY 1=BACKUP
		...1 ....		TSPXBIND	EXTENDED BIND SENT OR RECEIVED
		.... 1..		TSPULNBR	UNBIND BEING SENT IN LIEU OF NEGATIVE RESPONSE TO BIND
		.... .1..		TSPAPPC	1=APPC CONTROLLED SESSION
		.... ..1.		TSP62	1=6.2 BIND/CINIT RECEIVED
		.... ...1		TSP TIP	1=TERM IN PROGRESS
82	(52)	CHARACTER	2	TSPEPRC	COPY OF PURGE CODES - TO BE USED WHEN THE FMCB IS NON-EXISTENT
82	(52)	UNSIGNED	1	TSPEPMAJ	MAJOR PURGE CODE
83	(53)	UNSIGNED	1	TSPEPMIN	MINOR PURGE CODE
84	(54)	ADDRESS	4	TSPHSQHE	POINTER TO HSQH ENTRY
88	(58)	ADDRESS	4	TSPCPNQN	POINTER TO CP-NAME SRTE
92	(5C)	CHARACTER	8	TSPPCID	PCID FOR CURRENT SESSION
100	(64)	CHARACTER	4	TSP35SNS	EXTENDED SENSE DATA
100	(64)	CHARACTER	2	TSP35SS	SYSTEM SENSE
102	(66)	CHARACTER	2	TSP35US	USER SENSE

SSCP EXTENSION TO FMCB

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
72	(48)	STRUCTURE	16	TSPSSCP	SSCP FLAGS
72	(48)	CHARACTER	1	TSPCPFLG	DESTINATION LU OR PU IS DOWN
		1.. ....		TSPDOWN	SSCP TO PU SESSION ONLY 1=TERMINATE LAST HAS BEEN RECEIVED FOR ANY LU ON THE PU
		.1.. ....		TSP TLHA	SSCP TO LU SESSION ONLY: 0=TERMINATE (NOT LAST) HAS BEEN RECEIVED. 1=TERMINATE LAST HAS BEEN RECEIVED.
		..1. ....		TSPNOFMD	1=DO NOT SEND FM DATA TO THE LU OR PU
		...1 ....		TSPCNTNM	CNTL. NORM - USED TO ENFORCE IMMEDIATE REQUEST MODE
		.... 1..		TSP LURSS	SSCP_PU SESSION ONLY: 1=AT LEAST ONE LU ON THE PU HAS SET UP AN ACTIVE LU-LU SESSION. SSCP-LU SESSION: 1=THIS LU HAS SET UP AN ACTIVE LU-LU SESSION.
		.... .111		*	NOT USED - AVAILABLE
73	(49)	CHARACTER	7	*	NOT USED - AVAILABLE
80	(50)	CHARACTER	8	TSPARSI	ACTIVATION REQUEST SEQUENCE IDENTIFIER - USED ONLY FOR CDRM_CDRM SESSIONS



**Constants**

Len	Type	Value	Name	Description
VALUE FOR CONTROL BLOCK IDENTIFIER (TSPCBID)				
1	HEX	9A	TSPCBTY	CONTROL BLOCK IS TSPL
VALUES FOR INBOUND/OUTBOUND FLOW INDICATOR (TSPFLOW)				
0	BIT	0	TSPFLOB	OUTBOUND FLOW
0	BIT	1	TSPFLIB	INBOUND FLOW
VALUES FOR OUTBOUND WORK QUEUE INDICATOR (TSPWORKQ)				
0	BIT	0	TSPWRKN	NORMAL FLOW
0	BIT	1	TSPWRKE	EXPEDITED FLOW
4	HEX	00000020	TSPRIPM	MASK TO SET TSPRIP
VALUES FOR SESSION STATE (TSPSESSR)				
0	BIT	00	TSPSERS	RESET
0	BIT	01	TSPSEPA	PENDING ACTIVE
0	BIT	10	TSPSEPR	PENDING RESET
0	BIT	11	TSPSEAC	ACTIVE
VALUES FOR SESSION TYPE (TSPSESSTY)				
0	BIT	00	TSPSELL	LU TO LU SESSION
0	BIT	10	TSPSESP	SSCP TO PU SESSION
0	BIT	01	TSPSESL	SSCP TO LU SESSION
0	BIT	11	TSPSESS	SSCP TO SSCP SESSION
VALUES FOR DATA TRAFFIC STATE (TSPDTSR)				
0	BIT	00	TSPDTRS	RESET
0	BIT	01	TSPDTPA	PENDING ACTIVE
0	BIT	10	TSPDTPR	PENDING RESET
0	BIT	11	TSPDTAC	ACTIVE
VALUES FOR CRV STATE (TSPCRVSR)				
0	BIT	00	TSPCVRS	RESET
0	BIT	01	TSPCVPA	PENDING ACTIVE
0	BIT	11	TSPCVAC	ACTIVE
VALUES FOR HOT I/O STATE (TSPHOTIO)				
0	BIT	0000	TSPHOTRS	RESET. NO HOT I/O
VALUES FOR RU SIZE STATE (TSPRUHOT)				
0	BIT	00	TSPRUOK	RU SIZE IS OK
0	BIT	01	TSPRUSEX	RU SIZE EXCEEDED
0	BIT	11	TSPRUSXP	RU SIZE EXCEEDED AND PD TRACE PERFORMED
VALUES FOR USER STORAGE SHORTAGE (TSPUSTIO)				
0	BIT	00	TSPUSTOK	OK. NO SHORTAGE
0	BIT	01	TSPUSTLT	USER STORAGE SHORTAGE - LOSTTERM SCHEDULED AND CLEAR SENT
0	BIT	11	TSPUSTLP	USER STORAGE SHORTAGE - LOSTTERM SCHEDULED, CLEAR SENT, AND PD TRACE PERFORMED
VALUES FOR EXPEDITED IMMEDIATE CONTROL STATE (TSPIMEXP)				
0	BIT	0	TSPIMRS	RESET
0	BIT	1	TSPIMBL	BLOCK REQUESTS
VALUES FOR SEQUENCE NUMBER TYPE (TSPSQNTY)				
0	BIT	0	TSPTYSQ	SEQUENCE NUMBERS IN USE
0	BIT	1	TSPTYID	IDENTIFIERS IN USE
VALUES FOR REQUEST RECOVERY STATE (TSPRQRSR)				
0	BIT	0	TSPRQRR	RQR RESET STATE
0	BIT	1	TSPRQRP	RQR PENDING STATE
VALUES FOR CHAIN STATE (TSPCHNSE)				
0	BIT	0	TSPINC	IN CHAIN OR BETWEEN CHAINS

Len	Type	Value	Name	Description
0	BIT	1	TSPCPUR	PURGING CHAIN STATE
VALUES FOR RESP, DFSYN, AND DFASY MODES (TSPRSPMD, TSPNRQMD, AND TSPERQMD)				
0	BIT	0	TSPCA	CONTINUE ANY MODE
0	BIT	1	TSPCS	CONTINUE SPECIFIC MODE
VALUES FOR BSC 3270 PRINTER FSM - TSPPRFSM				
0	BIT	00	TSPPRRS	RESET - NORMAL BRACKET STATE
0	BIT	01	TSPPRDP	DISCONNECT.RESP.PENDING - A DISCONNECT HAS BEEN SENT BUT THE RESPONSE HAS NOT BEEN RECEIVED AND NO INPUT DATA HAS BEEN RECEIVED
0	BIT	10	TSPPRDC	DISCONNECT.CONTACT.PENDING - A READ OR INVITE HAS BEEN RECEIVED WHILE IN DISCONNECT.RESP.PENDING STATE
0	BIT	11	TSPPRCP	CONTACT.RESPONSE.PENDING - CONTACT HAS BEEN SENT BUT THE CONTACT RESPONSE HAS NOT BEEN RECEIVED (THIS STATE IS ENTERED WHEN A DISCONNECT RESPONSE IS RECEIVED WHILE IN DISCONNECT.CONTACT.PENDING STATE)
VALUES FOR IMMEDIATE REQUEST FSM				
0	BIT	0	TSPCNRS	RESET
0	BIT	1	TSPCNPD	PENDING

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTTSPL	0		1	TSPCLNP	4B	02	3
TSPABEND	2	01	3	TSPCLRRV	A	01	3
TSPACCU	4		2	TSPCLRSE	A	10	3
TSPACTNO	0		2	TSPCMDIP	3A		3
TSPAFMCB	24		2	TSPCNTNM	48	10	3
TSPANYQ	34	01	4	TSPCONTF	42	04	3
TSPAPPC	51	04	3	TSPCPFGL	48		2
TSPARSI	50		2	TSPCPNQN	58		2
TSPASPI	D	08	4	TSPCRF	38		1
TSPAVAIL	2	80	3	TSPCRPTA	B	08	3
TSPBFS	4B	01	3	TSPCRVSR	C	02	4
TSPBFTRC	2	20	3	TSPCRYPT	B	20	3
TSPBHBLK	42	08	3	TSPCSEED	40		2
TSPBHSTF	42	40	3	TSPCLSRC	2C		2
TSPBLKRQ	2	10	3	TSPCSPRG	C		2
TSPBRINU	2	04	3	TSPCSRSP	34		2
TSPBRPR	4A	10	3	TSPDEAF	4		3
TSPBRPS	4A	20	3	TSPDEBA	0		2
TSPBRQR	4A	40	3	TSPDFCSA	14		2
TSPBRQS	4A	80	3	TSPDFFL1	2		2
TSPBSC	38		1	TSPDFRC1	3		2
TSPBSFL1	42		2	TSPDFSAA	0		1
TSPBSFWR	2	08	3	TSPDOWN	48	80	3
TSPBSQNO	43		2	TSPDSAF	0		3
TSPBTRAN	3	40	3	TSPDTSR	C	08	4
TSPB3270	3	10	3	TSPEDATA	14		2
TSPCBID	0		2	TSPELEAD	18		2
TSPCDRSC	3	02	3	TSPENSA	8		2
TSPCHGMD	35	80	4	TSPENSA	0		1
TSPCHNSE	2	80	3	TSPEPMAJ	52		3
TSPCID	44		2	TSPEPMIN	53		3
TSPCIDE	8		2	TSPEPRC	52		2
TSPCIDI	45		3	TSPEPTA	C		2
TSPCIDIE	9		3	TSPERQMD	34	02	4
TSPCIDR	44		3	TSPEWAIT	C		2
TSPCIDRE	8		3	TSPEWORK	3C		2
TSPCKEY	38		2	TSPEXIT	2C	20	4
TSPCLDST	51	80	3	TSPEXLEN	6		2

Name	Hex Offset	Hex Value	Level
TSPEXLS	38		2
TSPEXLST	4		2
TSPEXPTR	4		2
TSPEXT	0		1
TSPEXTA	1C		2
TSPEXTFG	2C		3
TSPFDTCH	24		2
TSPFDTXP	28		2
TSPFICSQ	4		2
TSPFILTR	3	01	3
TSPFLOW	2	80	3
TSPFMCBA	C		2
TSPFMPRO	7		2
TSPFREE	2C	40	4
TSPHARP	51	40	3
TSPHOTIO	3	08	3
TSPHSICB	38		2
TSPHSQHE	54		2
TSPHTYPE	51	20	3
TSPIBSAC	34	20	4
TSPIDCNT	2		2
TSPIDI	D	10	4
TSPIERSN	0		2
TSPILRC	2F		3
TSPIMED	49	80	3
TSPIMEXP	D	80	4
TSPINPUT	42	20	3
TSPIOTRC	2	40	3
TSPLEN	1		2
TSPLMEML	2	20	3
TSPLMP	40		2
TSPLNPTH	1		2
TSPLOST	4B	04	3
TSPLPMAJ	E		3
TSPLPMIN	F		3
TSPLUEA	18		3
TSPLUFLG	4A		2
TSPLURSS	48	08	3
TSPPLUS	48		1
TSPMXRUI	C		2
TSPMXRUO	10		2
TSPNA	0		2
TSPNAME	30		2
TSPNAPND	2C	80	4
TSPNDATA	10		2
TSPNEXTA	1C		2
TSPNOENA	3	04	3
TSPNOFMD	48	20	3
TSPNPEQR	36		3
TSPNRQMD	34	04	4
TSPNWAIT	8		2
TSPNXNOD	8		2
TSPOBSAC	34	80	4
TSPOLRC	2E		3
TSPPACCW	14		2
TSPPACNT	7		2
TSPPACNW	12		2
TSPPACRS	D	40	4
TSPPALIM	6		2
TSPPAWND	10		2
TSPPCCS	38		2
TSPPCID	5C		2
TSPPCSA	C		2
TSPPCSAA	0		1
TSPPDNOS	2	10	3
TSPPDTRC	3	08	3
TSPPEQS	35	40	4

Name	Hex Offset	Hex Value	Level
TSPPFMCB	3C		2
TSPPLUEA	14		4
TSPPLUNA	10		3
TSPPLUSA	10		4
TSPPREVA	20		2
TSPPREXT	38		2
TSPPRFSM	35	20	4
TSPPROC	28		2
TSPPSFL1	34		3
TSPPSFL2	35		3
TSPPSFL3	32		2
TSPPSRPH	2C		2
TSPSSA	18		2
TSPSSAA	0		1
TSPSTQ	24		2
TSPRCNT	3B		3
TSPREL	38		1
TSPRESP	18		2
TSPRIP	3	20	3
TSPRLWS	D	04	4
TSPRPH	3	80	3
TSPRPL	20		2
TSPRQQ	4C		2
TSPRQRRV	B	40	3
TSPRQRSE	A	04	3
TSPRQRSR	D	20	4
TSPRSPLM	30		2
TSPRSMD	34	08	4
TSPRUHOT	3	08	4
TSPRUSIZ	14		2
TSPSCRPT	B	10	3
TSPSCSQN	38		3
TSPSDTAP	32	80	3
TSPSDTRV	A	02	3
TSPSDTSE	A	20	3
TSPSECND	A	80	3
TSPSES	4B	40	3
TSPSESSR	C	80	4
TSPSESTY	C	20	4
TSPSETMF	42	10	3
TSPSID	10		2
TSPSLUEA	1A		4
TSPSLUNA	16		3
TSPSLUSA	16		4
TSPSPEA	1A		3
TSPSPELM	40		3
TSPSPNA	3C		2
TSPSPS	2	02	3
TSPSPSA	1C		2
TSPSPSAF	3C		3
TSPSQCNT	0		2
TSPSQNTY	A	40	3
TSPSQRCV	8		2
TSPSSAF	42	80	3
TSPSSCP	48		1
TSPSSS	4B	80	3
TSPSTAT1	2		2
TSPSTSNR	B	80	3
TSPSTSNS	A	08	3
TSPTCFL1	C		3
TSPTCFL2	A		2
TSPTCSA	10		2
TSPTCSAA	0		1
TSPTIP	51	01	3
TSPTLHA	48	40	3
TSPTNLHA	48	40	4
TSPTSCB	4		2

Name	Hex Offset	Hex Value	Level
TSPTSFL1	2		2
TSPTSIP	10		2
TSPTSKID	8		2
TSPTSOP	28		2
TSPTYPE	0		2
TSPULNBR	51	08	3
TSPUNBCD	50		2
TSPUNBF	4B	20	3
TSPUNBFS	4B	10	3
TSPUNBOK	4B	08	3
TSPUNRPR	4A	01	3
TSPUNRPS	4A	02	3
TSPUNRQR	4A	04	3
TSPUNRQS	4A	08	3
TSPUSFLC	3C		2
TSPUSFLD	1C		2
TSPUSRA	48		2
TSPUSTIO	3	02	4
TSPVRID	2		2
TSPVRPL	2C	10	4
TSPVRSON	3	80	3
TSPWORKQ	2	40	3
TSPXBIND	51	10	3
TSP35SNS	64		2
TSP35SS	64		3
TSP35US	66		3
TSP62	51	02	3

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## Transmission Subsystem Work Area (TSWA)

<b>Function:</b>	The TSWA maps the work area in the CRR used by TSC.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Included Blocks:</b>	TSPL (TSWTSPL)
<b>Located In:</b>	Found in the CRA.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	56	ISTTSWA	
0	(0)	CHARACTER	16	TSWPFX	STANDARD CRR PREFIX
16	(10)	CHARACTER	32	TSWTSPL	TSPL AREA
48	(30)	ADDRESS	4	TSWTSCB	POINTER TO TSCB TO BE POSTED
52	(34)	ADDRESS	4	*	NOT USED - AVAILABLE
56	(38)	CHARACTER	*	TSWORK	DYNAMIC WORK AREA

## USS Definition Table (UDT)

<b>Function:</b>	The UDT describes the table built by a user or by IBM to define the commands and messages that USS will support.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	ATCUSSPT (ATCVT) - pointer to default table.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTUDT0	USS TABLE PREFIX
0	(0)	CHARACTER	1	UDTCBID	CONTROL BLOCK ID
1	(1)	CHARACTER	2	UDTVEREL	VERSION/RELEASE (E.G. 0320)
3	(3)	CHARACTER	1	*	NOT USED - AVAILABLE
		1... ....		UDTTYPE	1=TABLE IS ISTCFCMM
		.111 1111		*	NOT USED - AVAILABLE

### HEADER FOR USS TABLE (V3R2 AND LATER)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	UDTNOHDR	
0	(0)	ADDRESS	4	UDTNOTRN	ADDR(TRANSLATE TABLE) OR 0
4	(4)	ADDRESS	4	UDTNOCMD	ADDR(FIRST COMMAND DEFINITION) OR 0
8	(8)	ADDRESS	4	UDTNOMSG	ADDR(FIRST OPERATOR MESSAGE) DEFINITION) OR 0
12	(C)	ADDRESS	4	UDTNOUSS	ADDR(FIRST USS MESSAGE DEFINITION) OR 0

### FORMAT OF HEADER FOR ISTCFCMM (ALL RELEASES)

0	(0)	STRUCTURE	12	UDTMMHDR	
0	(0)	ADDRESS	4	UDTMM998	ADDR(IST998E)
4	(4)	ADDRESS	4	UDTMM999	ADDR(IST999E)
8	(8)	ADDRESS	4	*	PAD TO DWORD BOUNDARY

## Constants

Len	Type	Value	Name	Description
POTENTIAL VALUES FOR UDTCBID				
1	HEX	BD	UDTTYP	CONTROL BLOCK ID

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTUDT0	0		1
UDTCBID	0		2
UDTMMHDR	0		1
UDTMM998	0		2
UDTMM999	4		2
UDTNOCMD	4		2
UDTNOHDR	0		1
UDTNOMSG	8		2
UDTNOTRN	0		2
UDTNOUSS	C		2
UDTTYPE	3	80	3
UDTVEREL	1		2

## User Exit Control Block (UECB)

<b>Function:</b>	The UECB is a work element that describes the input to a user exit routine. It contains the PAB under which the user exit routine runs. The UECB is preceded by a pointer to the buffer chain associated with a PST.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	56 (X'38')
<b>Pointed to by:</b>	PABWEQA (PAB) - queue of UECBs
<b>Additional Notes:</b>	The UECB is allocated by a GETBLK macro. For the contents of the words in the parameter list (based on exit type), see <i>VTAM Programming</i> .

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	56	ISTUECB	USER EXIT SCHEDULING CB
0	(0)	CHARACTER	1	UECID	CONTROL BLOCK ID
1	(1)	ADDRESS	1	UECLEN	LENGTH OF UECB IN BYTES
2	(2)	BITSTRING	1	UECFLAGS	FLAGS
		1... ....		UECBIND	SCIP EXIT FOR BIND
		.1.. ....		UECAPPC	APPC EXIT INTERCEPT
		..1. ....		UECCLOSE	APPC CLOSEDOWN IS IN PROGRESS
		...1 1111		*	RESERVED - AVAILABLE
3	(3)	CHARACTER	1	UECTYPE	ID OF EXIT TO BE SCHEDULED
4	(4)	ADDRESS	4	UECCHAIN	CHAIN FIELD
8	(8)	ADDRESS	4	UECEXLST	EXIT LIST POINTER
12	(C)	ADDRESS	4	UECACDEB	PTR TO ACDEB
16	(10)	CHARACTER	24	UECPLIST	PARAM LIST FOR USER EXIT
16	(10)	CHARACTER	4	UECWORD1	WORD 1 OF PARAMETER LIST
20	(14)	CHARACTER	4	UECWORD2	WORD 2 OF PARAMETER LIST
24	(18)	CHARACTER	4	UECWORD3	WORD 3 OF PARAMETER LIST
28	(1C)	CHARACTER	4	UECWORD4	WORD 4 OF PARAMETER LIST
32	(20)	CHARACTER	4	UECWORD5	WORD 5 OF PARAMETER LIST
36	(24)	CHARACTER	4	UECWORD6	WORD 6 OF PARAMETER LIST
40	(28)	CHARACTER	8	UECNAME1	SPACE FOR NAME IF NEEDED
48	(30)	CHARACTER	8	UECNAME2	SPACE FOR ANOTHER NAME

### Constants

Len	Type	Value	Name	Description
<b>UECTYPE VALUES</b>				
1	HEX	00	UECRPL	RPL USER EXIT
1	HEX	05	UECSCIP	SESSION CTL INPUT EXIT
1	HEX	06	UECLOGON	EXIT LGN (EXLLGN)
1	HEX	07	UECDFASY	DATA FLOW ASY EXIT
1	HEX	08	UECRESP	RESPONSE EXIT
1	HEX	09	UECLOGOF	EXIT NLGN (EXLNLGN)
1	HEX	0A	UECRELRQ	EXIT RLRQ (EXLRLRQ)
1	HEX	0C	UECATTEN	EXIT ATTN (EXLATTNF)
1	HEX	0D	UECTPEND	EXIT TPEND (EXLTPEND)
1	HEX	0E	UECSSCP	EXIT ASYP (EXLASYP)
1	HEX	26	UECTYP	TYPE CODE FOR UECB
<b>UECID VALUE</b>				
1	HEX	10	UEID	UECB TYPE ID
<b>UECB REASON CODE</b>				
1	DECIMAL	12	UECCDR	CLOSEST REQUIRED
1	DECIMAL	16	UECFIRM	LU FAILED
1	DECIMAL	20	UECTERM	TERMINATE RECEIVED
1	DECIMAL	24	UECNTFY	NOTIFY FROM VARY
1	DECIMAL	32	UECNDTRM	COND TERMINATE RECEIVED

Len	Type	Value	Name	Description
1	DECIMAL	36	UECBFFLD	BUFFER FLOODING
1	DECIMAL	40	UECRTRM	TEST REQUEST
<hr/>				
UECWORD2 CONSTANTS FOR TPEND EXIT UECBS				
<hr/>				
4	DECIMAL	0	UECHALTS	HALT
4	DECIMAL	4	UECHALTQ	HALT QUICK

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTUECB	0		1
UECACDEB	C		2
UECAPPC	2	40	3
UECBIND	2	80	3
UECCHAIN	4		2
UECCLOSE	2	20	3
UECEXLST	8		2
UECFLAGS	2		2
UECID	0		2
UECLEN	1		2
UECNAME1	28		2
UECNAME2	30		2
UECPLIST	10		2
UECTYPE	3		2
UECWORD1	10		3
UECWORD2	14		3
UECWORD3	18		3
UECWORD4	1C		3
UECWORD5	20		3
UECWORD6	24		3



## User Request Correlator (URC)

<b>Function:</b>	The URC contains a format byte that indicates whether the URC is for LUS or is supplied by the user. An LUS URC contains the network address of the LU, an LUS procedure identifier, and a unique ID number. A user-supplied URC is located in the field NIBUSER.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	14 (X'E')
<b>Pointed to by:</b>	SIBIURCA (SIB)
<b>Located in:</b>	Found in the NIB and SMP, and in the ETRRU and ETSRU RUs.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTURC	USER REQUEST CORRELATOR
0	(0)	UNSIGNED	1	URCFMT	FORMAT BYTE
1	(1)	CHARACTER	9	URCLUS	URC (LUS)
1	(1)	CHARACTER	6	URCNA	NETWORK ADDRESS LU
1	(1)	CHARACTER	4	URCSA	SUBAREA
5	(5)	CHARACTER	2	URCEL	ELEMENT ADDR
7	(7)	UNSIGNED	1	URCPROC	LUS PROCEDURE IDENTIFIER
8	(8)	UNSIGNED	2	URCLUSID	UNIQUE ID NUMBER
10	(A)	CHARACTER	4	URCUSER	URC (USER)

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	0	URCFMT0	URC IS UNFORMATTED
1	DECIMAL	0	URCNOP	REQUEST IS NOT PART OF AN LUS PROCEDURE
1	DECIMAL	1	URCACQ	PROCEDURE IS ACQUIRE
1	DECIMAL	2	URCAPPC	PROCEDURE IS APPC-ISSUED SIMLOGON

## VTAM Contents Directory Element (VCDE)

<b>Function:</b>	VCDE provides a mapping for the VTAM contents directory element, which is an SRTE that represents a module or table that has been loaded into VTAM-controlled storage.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	26 (X'1A')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	26	ISTVCDE	VCDE SRTE MAPPING
0	(0)	CHARACTER	24	VCDRCE	STANDARD RCE SRTE
24	(18)	BITSTRING	1	VCDMTYPE	MODULE TYPE - SEE ID CONSTANTS IN TABLE DSECTS
25	(19)	BITSTRING	1	VCDATTR	MODULE ATTRIBUTES
		1... ....		VCDRSTD	IF ON, VCDE REPRESENTS A RESTRICTED TABLE - CANNOT BE REPLACED OR DELETED BY MODIFY TABLE COMMANDS
		.1.. ....		VCDPROHB	IF ON, VCDE REPRESENTS A PROHIBITED TABLE - CANNOT BE REPLACED, DELETED OR RELOADED BY MODIFY TABLE CMDS
		..11 1111		*	NOT USED - AVAILABLE

---

## Variable Pool Page Header (VPG)

<b>Function:</b>	VPG maps the page header built by the VTALLOD routine at the beginning of VPBUF and VFBUF pages used for partial page allocation requests.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	8

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTVPG	
0	(0)	ADDRESS	4	VPGPTE	ADDR OF PTE FOR THIS PAGE
4	(4)	ADDRESS	4	VPGFREE	ADDR OF VBPFY FOR 1ST FREE AREA ON THIS PAGE
8	(8)	CHARACTER	*	VPGVBP	1ST VBPFY ON PAGE

### Constants

Len	Type	Value	Name	Description
4	DECIMAL	2040	VPGPGSZ	2K PAGE SIZE LESS SIZE OF VPG

## Virtual Route Block (VRBLK)

<b>Function:</b>	The VRBLK maps the virtual route block, which is built when the path table is activated. A virtual route block describes a virtual route to a particular destination subarea. The VRBLK contains three status areas (mapped by VRBIBASE), one for each transmission priority.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	184 (X'B8')
<b>Pointed to by:</b>	LUSNXNOD (LUST) - cross-subarea sessions SONVRBLK (SONCB) - VRBLK for which INOP occurred VRBFCHN (VRBLK) - chain pointer
<b>Included Blocks:</b>	DYPAB (VRBPCDYP), PAB (VRBPCPAB), LOK (VRBLOK)
<b>Additional Notes:</b>	The index table VRPTR pointed to by ATCVRNDX contains a fullword queue anchor for each destination subarea. Each anchor points to a chain of VRBLKs, each of which describes a virtual route to that particular destination subarea.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	184	ISTVRBLK	VIRTUAL ROUTE DESCRIPTOR
0	(0)	CHARACTER	160	VRBF	FIRST PORTION OF VRBLK
0	(0)	CHARACTER	1	VRBTYPE	CONTROL BLOCK TYPE CODE
1	(1)	UNSIGNED	1	VRBLNGTH	LENGTH IN BYTES
2	(2)	UNSIGNED	1	VRBVRN	VIRTUAL ROUTE NUMBER
3	(3)	CHARACTER	1	*	FLAGS
		1... ....		VRBAWORK	VRBLK MUST BE CHECKED FOR ASYNCHRONOUS WORK
		.1.. ....		VRBWAIT	ISTTSCRO IS WAITING FOR STORAGE
		..11 1111		*	NOT USED - AVAILABLE
4	(4)	ADDRESS	4	VRBFXCHN	CHAIN POINTER
8	(8)	UNSIGNED	4	VRBADJSA	ADJACENT SUBAREA NUMBER
12	(C)	ADDRESS	4	VRBNXNOD	POINTER TO ADJACENT SUBAREA NODE CONTROL BLOCK
16	(10)	CHARACTER	16	VRBPCDYP	PATH CONTROL DYNAMIC PAB HEADER
16	(10)	CHARACTER	12	*	PAB HEADER
28	(1C)	ADDRESS	4	VRBWORKQ	WORK QUEUE
32	(20)	CHARACTER	20	VRBPCPAB	PATH CONTROL ROUTING PAB
52	(34)	CHARACTER	4	*	NOT USED - AVAILABLE
56	(38)	CHARACTER	8	VRBLOK	LOCK WORD
64	(40)	CHARACTER	32	VRBFSTS (3)	STATUS AREA, ONE PER TRANSMISSION PRIORITY
160	(A0)	CHARACTER	24	VRBP	EXTENSION OF VRBLK
160	(A0)	UNSIGNED	1	VRBIER	INITIAL EXPLICIT ROUTE NUMBER
161	(A1)	UNSIGNED	1	VRBERNUM	EXPLICIT ROUTE NUMBER FOR VIRTUAL ROUTE (VRN-TO-ERN MAP)
162	(A2)	BITSTRING	1	*	STATUS FLAGS
		1... ....		VRBMIGR	ROUTE MIGRATION INDICATOR 0=NOT MIGRATION 1=MIGRATION
		.111 1111		*	NOT USED - AVAILABLE
163	(A3)	UNSIGNED	1	VRBRERN	REVERSE EXPLICIT ROUTE NUMBER
164	(A4)	SIGNED	4	VRBDSTSA	DESTINATION SUBAREA
168	(A8)	ADDRESS	4	VRBNXHSQ (3)	ADDRESS OF NEXT HSQH TO BE SCANNED WHEN ROUTE FLOW CONTROL CHANGES FROM HELD TO EITHER BLOCKED OR OPEN
180	(B4)	UNSIGNED	1	VRBNXHSI (3)	INDEX INTO NEXT HSQH TO BE SCANNED WHEN ROUTE FLOW CONTROL CHANGES FROM HELD TO EITHER BLOCKED OR OPEN
183	(B7)	UNSIGNED	1	*	RESERVED
184	(B8)	CHARACTER	1	*	FORCE ENDING ALIGNMENT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	VRBIBASE (3)	STATUS AREA, ONE PER TRANSMISSION PRIORITY

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	UNSIGNED	1	VRBVRFSM	VIRTUAL ROUTE STATE
1	(1)	BITSTRING	1	*	STATUS FLAGS
		1... ..		VRBPRI	ROUTE IS PRIMARY INDICATOR 0=SECONDARY 1=PRIMARY
		.111 11..		*	NOT USED - AVAILABLE
		.... ..11		VRBFCFSM	FLOW CONTROL FINITE STATE MACHINE
2	(2)	UNSIGNED	1	VRBTPI	TRANSMISSION PRIORITY INDICATOR FOR VRID
3	(3)	UNSIGNED	1	VRBPALIM	PAC.RQ.SEND LIMIT VALUE
4	(4)	ADDRESS	4	VRBSESSQ	QUEUE HEADER FOR HALF SESSION CONTROL BLOCK QUEUE
8	(8)	ADDRESS	4	VRBRHOLD	REQUEST HOLD QUEUE FOR TSCBS WHEN THE ROUTE IS HELD OR BLOCKED
12	(C)	SIGNED	2	VRBSECNT	NUMBER OF SESSIONS FOR THIS VIRTUAL ROUTE. THIS COUNT IS USED BY THE VIRTUAL ROUTE SELECTION EXIT AND IS ALSO USED TO INDICATE THAT VIRTUAL ROUTE DEACTIVATION IS REQUIRED
14	(E)	SIGNED	2	VRBACTNO	ACTIVATION NUMBER FOR THIS VIRTUAL ROUTE
16	(10)	SIGNED	2	VRBSQRCV	SNQ.RCV.CNT - INBOUND SEQUENCE NUMBER
18	(12)	SIGNED	2	VRBSQCNT	SNQ.SEND.CNT - OUTBOUND SEQUENCE NUMBER
20	(14)	SIGNED	2	VRBLSECT	NUMBER OF LU_LU SESSIONS ON THIS VIRTUAL ROUTE
22	(16)	SIGNED	2	VRBPACNT	PAC.RQ.SEND COUNT
24	(18)	CHARACTER	4	*	VIRTUAL ROUTE WINDOW CONTROL FIELDS
24	(18)	UNSIGNED	1	VRBMINWS	CURRENT MINIMUM WINDOW SIZE
25	(19)	UNSIGNED	1	VRBMAXWS	CURRENT MAXIMUM WINDOW SIZE
26	(1A)	UNSIGNED	1	VRBMINDF	DEFAULT MINIMUM WINDOW SIZE
27	(1B)	UNSIGNED	1	VRBMAXDF	DEFAULT MAXIMUM WINDOW SIZE
28	(1C)	BITSTRING	4	*	STATUS FIELDS - UPDATED BY COMPARE AND SWAP
28	(1C)	BITSTRING	1	*	STATUS FLAGS
		1... ..		*	NOT USED - AVAILABLE
		.1.. ....		VRBVRPRQ	ROUTE PACING REQUEST RECEIVED INDICATOR
		..1. ....		VRBVRPRS	ROUTE PACING RESPONSE RECEIVED INDICATOR
		...1 ....		VRBCWI	CHANGE WINDOW INDICATOR RESPONSE TO ROUTE PACING REQUIRED
		.... 1...		VRBCWRI	ROUTE CHANGE WINDOW RESPONSE INDICATOR 0=CWRI NOT REQUIRED 1=CWRI REQUIRED
		.... .1..		VRBRWI	ROUTE RESET WINDOW INDICATOR 0=RWI NOT REQUIRED 1=RWI REQUIRED
		.... ..1.		VRBHLD	HALF SESSION HELD INDICATOR
		.... ...1		VRBSCNHQ	0 - INDICATES ALL HSQH'S HAVE BEEN CHECKED FOR HELD SESSIONS 1 - INDICATES SOME HSQH'S MUST STILL BE CHECKED FOR HELD SESSIONS
29	(1D)	CHARACTER	1	VRBERNF	EXPLICIT ROUTE NUMBER FIELD
		1111 ....		VRBIERN	INITIAL EXPLICIT ROUTE NUMBER
		.... 1111		VRBERN	ACTUAL EXPLICIT ROUTE NUMBER
30	(1E)	SIGNED	2	VRBSQPRQ	SEQUENCE NUMBER OF LAST PACING REQUEST
32	(20)	CHARACTER	*	*	FORCE ALIGNMENT

**Constants**

Len	Type	Value	Name	Description
VALUE FOR VRBTYPE				
1	HEX	05	VRBCBID	VRBLK TYPE FIELD
VALUES FOR VRBVRFSM				
4	DECIMAL	0	VRBVRFRS	+ RESET (NOT DEFINED)
4	DECIMAL	0	VRBVRFND	+ NOT DEFINED
4	DECIMAL	1	VRBVRFIN	+ INACTIVE
4	DECIMAL	2	VRBVRFPI	+ PENDING INACTIVE
4	DECIMAL	3	VRBVRFFL	+ FLUSH IN PROGRESS
4	DECIMAL	4	VRBVRFPA	+ PENDING ACTIVE
4	DECIMAL	5	VRBVRFAC	+ ACTIVE
4	DECIMAL	6	VRBVRFIF	+ DACTVR FORCE IN PROGRESS
VALUES FOR VRBFCFSM				

Len	Type	Value	Name	Description
0	BIT	00	VRBFCFRS	+ RESET (BLOCKED)
0	BIT	00	VRBFCFBL	+ ROUTE IS BLOCKED
0	BIT	01	VRBFCFHD	+ ROUTE IS HELD
0	BIT	11	VRBFCFOP	+ ROUTE IS OPEN

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTVRBLK	0		1
VRBACTNO	E		2
VRBADJSA	8		3
VRBAWORK	3	80	4
VRBCWI	1C	10	4
VRBCWRI	1C	08	4
VRBDSTSA	A4		3
VRBERN	1D	08	4
VRBERNF	1D		3
VRBERNUM	A1		3
VRBF	0		2
VRBFCFSM	1	02	3
VRBFSTS	40		3
VRBFXCHN	4		3
VRBHLD	1C	02	4
VRBIBASE	0		1
VRBIER	A0		3
VRBIERN	1D	80	4
VRBLNGTH	1		3
VRBLOK	38		3
VRBLSECT	14		2
VRBMAXDF	1B		3
VRBMAXWS	19		3
VRBMIGR	A2	80	4
VRBMINDF	1A		3
VRBMINWS	18		3
VRBNXHSI	B4		3
VRBNXHSQ	A8		3
VRBNXNOD	C		3
VRBP	A0		2
VRBPACNT	16		2
VRBPALIM	3		2
VRBPCDYP	10		3
VRBPCPAB	20		3
VRBPRI	1	80	3
VRBREERN	A3		3
VRBRHOLD	8		2
VRBRWI	1C	04	4
VRBSCNHQ	1C	01	4
VRBSECNT	C		2
VRBSESSQ	4		2
VRBSQCNT	12		2
VRBSQPRQ	1E		3
VRBSQRCV	10		2
VRBTPI	2		2
VRBTYP	0		3
VRBVRFSM	0		2
VRBVRN	2		3
VRBVRPRQ	1C	40	4
VRBVRPRS	1C	20	4
VRBWAIT	3	40	4
VRBWORKQ	1C		4

## Work Element Chain Field (WKE)

<b>Function:</b>	The WKE maps the template for a work element chain field.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	8
<b>Pointed to by:</b>	DLRPLWKE (DLRPL) PLSLDWKE (PLSCB) - load/dump WKE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTWKE	
0	(0)	CHARACTER	4	*	CONTENTS OF THIS FIELD DEPEND ON THE WORK ELEMENT
4	(4)	ADDRESS	4	WKECHAIN	CHAIN POINTER
		1... ....		WKECGATE	GATE BIT

## WTO Parameter Format (WPL)

<b>Function:</b>	The WPL contains the information needed by the write-to-operator routine and an area for the message text.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	259 (X'103')
<b>Located in:</b>	Found in the POCB, RWPL, and VMM.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	259	ISTWPL	
0	(0)	CHARACTER	1	*	RESERVED - NOT AVAILABLE - MAPS TO POWE FOR MVS WTO/WTOR MACROS. WILL CONTAIN REPLY LENGTH FOR WTOR.
1	(1)	UNSIGNED	1	WPLLGH	LENGTH OF MESSAGE TEXT PLUS 4 - MESSAGES LIMITED TO 251 CHARACTERS
2	(2)	BITSTRING	2	WPLMCSF	MULTIPLE CONSOLE SUPPORT (MCS) FLAGS
2	(2)	BITSTRING	1	WPLMCSF1	FIRST FLAG BYTE
		1... ....		WPLMCSFA	ROUTING CODES EXIST
		.1.. ....		WPLMCSFB	QUEUE TO R0
		..1. ....		WPLMCSFC	COMMAND RESPONSE
		...1 ....		WPLMCSFD	MESSAGE TYPE FIELD EXISTS
		.... 1..		WPLMCSFE	REPLY TO WTOR
		.... .1..		WPLMCSFF	BROADCAST
		.... ..1.		WPLMCSFG	HARD COPY
		.... ...1		WPLMCSFH	QUEUE TO R0 ALWAYS
3	(3)	BITSTRING	1	WPLMCSF2	SECOND FLAG BYTE
		1... ....		WPLMCSF1	TIME STAMP
		.1.. ....		WPLMCSFJ	MLWTO (OS/VS ONLY)
		..11 1...		WPLRSV01	NOT USED - AVAILABLE
		.... .1..		WPLMCSFN	BYPASS HARD COPY
		.... ..11		WPLRSV02	NOT USED - AVAILABLE
4	(4)	CHARACTER	255	WPLTXT	MESSAGE TEXT

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTWPL	0		1
WPLLGH	1		2
WPLMCSF	2		2
WPLMCSFA	2	80	4
WPLMCSFB	2	40	4
WPLMCSFC	2	20	4
WPLMCSFD	2	10	4
WPLMCSFE	2	08	4
WPLMCSFF	2	04	4
WPLMCSFG	2	02	4
WPLMCSFH	2	01	4
WPLMCSF1	3	80	4
WPLMCSFJ	3	40	4
WPLMCSFN	3	04	4
WPLMCSF1	2		3
WPLMCSF2	3		3
WPLRSV01	3	20	4
WPLRSV02	3	02	4
WPLTXT	4		2



## Waiting Request Element (WRE)

<b>Function:</b>	The WRE represents a VTAM process that is waiting for the completion of an event. It is queued to the LQAB specified in the CPWAIT macro issued by the VTAM process. When a CPPOST or CPPURGE macro is issued for the event, the WRE is dequeued and, if appropriate, the waiting process is resumed.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	28 (X'1C')
<b>Pointed to by:</b>	LQABFRST (LQAB) LQABLAST (LQAB)
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for more information about wait procedures, and see <i>VTAM Messages and Codes</i> for the meaning of the wait state event ID values.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	28	ISTWRE	WAITING REQUEST ELEMENT
0	(0)	UNSIGNED	1	WREBID	CONTROL BLOCK ID
1	(1)	UNSIGNED	1	WRELEN	CONTROL BLOCK LENGTH
2	(2)	BITSTRING	1	WREFLG	FLAGS FIELD
		11.. ....		WREPRG	PURGE EVENT INDICATOR
		..1. ....		WRETMR	TIMER PROCESS PERFORMED ONCE
		...1 ....		WREFRBLK	FREE BLK WRE AND EID AREA
		.... 1..		WRENW	1 = NOWAIT SPECIFIED ON EITHER A CPCALL OR A CPWAIT
		.... ..1.		WREAWAT	1 = ASYNCHRONOUS WAIT REQUEST IS A CPWAIT NOWAIT
		.... ..11		WREROUT	INTRA SSCP ROUTE CODE
3	(3)	BITSTRING	1	WREFLG2	SECOND FLAGS FIELD
		1... ....		WREPVI	1 = PVI-ISSUED CPWAIT, CPPOST OR CPPURGE MACRO
		..1. ....		WRENOCS	1 = WAIT NOT ISSUED BY OR FOR CONFIGURATION SERVICES
		..1. ....		WREOPS	1 = REQUESTS OPTIMIZED SEARCH FOR SPECIAL EVENT-ID (SEARCH WILL START IN MID-CHAIN)
		...1 ....		*	RESERVED
		.... 1111		*	UNUSED - AVAIL
4	(4)	ADDRESS	4	WREQUE	QUEUE POINTER
		1... ....		WRENAD	INDICATE THAT WREQUE POINTS TO A NETWORK ADDRESS FOR CPPOST
8	(8)	ADDRESS	4	WREIDP	POINTER TO EVENT ID
		1... ....		WREGATE1	GATE BIT
12	(C)	ADDRESS	4	WRECBP	POINTER TO CONTROL BLOCK (OR 0)
12	(C)	ADDRESS	4	WREMSK	MASK USED AS INPUT TO ISTCPCPP
16	(10)	ADDRESS	4	WREDTA	USER DATA CPCBOPC IF WAITING FOR ASYNCHRONOUS I/O OPERATION
20	(14)	UNSIGNED	1	WREIDL	LENGTH OF EVENT ID
21	(15)	UNSIGNED	1	WRECOD	POST/PURGE CODE
22	(16)	BITSTRING	2	WREIDCD	EVENT ID CODE FOUND IN ISTEVTNK
24	(18)	ADDRESS	4	WREIWRE	POINTER TO WRE FROM CALLER
24	(18)	ADDRESS	4	WRELQABA	LQAB ADDRESS IN ORIGINAL WRE

**Constants**

Len	Type	Value	Name	Description
4	DECIMAL	117	WREWRE	WRE CONTROL BLOCK ID (WREBID)
CONSTANTS FOR WREPRG				
0	BIT	10	WREPRGYS	I/O PURGE = YES - EVENT WILL BE PURGED WHEN TIMER EXPIRED
0	BIT	01	WREPRGNO	I/O PURGE = NO- EVENT WILL NOT BE PURGED WHEN TIMER EXPIRED
0	BIT	00	WREPRGUN	I/O PURGE = UNSPECIFIED - EVENT PURGE DEPENDS ON OPERATOR COMMAND

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTWRE	0		1
WREAWAT	2	04	3
WREBID	0		2
WRECBP	C		2
WRECOD	15		2
WREDTA	10		2
WREFLG	2		2
WREFLG2	3		2
WREFRBLK	2	10	3
WREGATE1	8	80	3
WREIDCD	16		2
WREIDL	14		2
WREIDP	8		2
WREIWRE	18		2
WRELEN	1		2
WRELQABA	18		3
WREMSK	C		3
WRENAD	4	80	3
WRENOCS	3	40	3
WRENW	2	08	3
WREOPS	3	20	3
WREPRG	2	80	3
WREPVI	3	80	3
WREQUE	4		2
WREROUT	2	02	3
WRETMR	2	20	3

## What-To-Do-Next Parameter List (WTD)

<b>Function:</b>	The WTD maps the VTAM SSCP what-to-do-next (self-descriptive linkage pointer) parameter list.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	12 (X'C')
<b>Located in:</b>	Found in the CPCB, DLRPL, NCSPL, and RUPE.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTWTD	WHAT TO DO CONTROL BLOCK MAP
0	(0)	ADDRESS	4	WTDPTR	POINTER TO PAB,RPH,ECB,TIL
4	(4)	UNSIGNED	1	WTDTYP	TYPE FIELD
5	(5)	CHARACTER	3	*	NOT USED - AVAILABLE
8	(8)	ADDRESS	4	WTDRI3	TO SAVE REGISTER 13 OR RPH

### Constants

Len	Type	Value	Name	Description
4	DECIMAL	0	WTD RPH	TO INDICATE WTD PTR-> RPH
1	HEX	80	WTD RPHF	TO INDICATE WTD PTR-> RPH WITH FREEAREA OPTION
4	DECIMAL	1	WTD PAB	TO INDICATE WTD PTR-> PAB
4	DECIMAL	2	WTD ECB	TO INDICATE WTD PTR-> ECB
1	HEX	82	WTD ECBF	TO INDICATE WTD PTR-> ECB WITH FREEAREA OPTION
4	DECIMAL	3	WTD TIL	TO INDICATE WTD PTR-> TIL
4	DECIMAL	4	WTD REQ	TO TPQUE AS A REQUEST
4	DECIMAL	5	WTD SND	TO SEND A RESPONSE UNIT
4	DECIMAL	6	WTD MOD	TO CALL A MODULE
4	DECIMAL	7	WTD PAU	TO TPQUE FIRST AS RESPONSE
4	DECIMAL	8	WTD TIL2	TO INDICATE WTD PTR-> TIL2
4	DECIMAL	255	WTD NOP	TO INDICATE NO NOTIF

## Cross-Channel Node Control Block (XCNCB)

<b>Function:</b>	An XCNCB represents a channel attachment to an adjacent host. It is created when contact with the adjacent host has been established.  The XCNCB contains information needed to control I/O initialization and termination. This includes CCWs, and scheduling queues and parameters required to communicate with the I/O supervisor routines that perform the I/O operations.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	768 (X'300')
<b>Pointed to by:</b>	RPRNCBA (RPRE) HNTPTR (HNT) TSPNXNOD (TSPL) VIT entries: ERP (CIO Error Recovery) INT (CIO Interruption) SIO (CIO Start I/O) (See <i>VTAM Diagnosis</i> for more information on the VIT entries.)
<b>Included Blocks:</b>	CCW (XCNCWCS, XCNCWCT, XCNCWWS, XCNCWWT, XCNCWRS, XCNCWRT, XCNCWVC, XCNCWNE), NCB (XCNCB), TQE (XCNTQE)
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for more information about related channel programs and a description of how the X-side and Y-side of the adapter are determined.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	768	ISTXCNCB	CHANNEL TO CHANNEL ADAPTER NODE CONTROL BLOCK
0	(0)	CHARACTER	424	XCNYCN	XCNCB/YCNCB COMMON FIELDS THESE FIELDS ARE COMMON BETWEEN THE XCNCB AND THE YCNCB, AND CANNOT BE MOVED IN ONE UNLESS THEY ARE MOVED IN THE OTHER
0	(0)	CHARACTER	312	XCNCB	COMMON NCB HEADER
312	(138)	UNSIGNED	1	XCNSSFSM	STATION STATE FINITE STATE MACHINE
313	(139)	CHARACTER	1	XCNISCB	INPUT AREA FOR COMMAND BYTE
314	(13A)	BITSTRING	1	*	XCNCB CONTROL FLAGS
		1... ....		XCNXSIDE	THIS SIDE OF THE ADAPTER ISSUES WRITES BEFORE READS
		.1.. ....		XCNTQENA	THE TIMER QUEUE ELEMENT IS NOT AVAILABLE FOR USE
		..1. ....		XCNTMOUT	TIMEOUT HAS OCCURRED
		...1 ....		XCNMIH	HANDLE TIMEOUT AS MISSING INTERRUPT
		.... 1..		XCNPIOP	PUS I/O PENDING
		.... .1..		XCNDISCR	DISCONTACT RUPE I/O
		.... ..1.		XCNPACKB	PACKED PROTOCOL BUFFERS HAVE BEEN ALLOCATED
		.... ...1		XCNPACKF	PACKED FORMAT CHANNEL PROGRAM IS BEING USED
315	(13B)	CHARACTER	3	*	FLAG BYTES
315	(13B)	CHARACTER	1	*	FLAG BYTE
		1... ....		XCNINDP	INOP DUMP TAKEN
		.1.. ....		XCNUSTRY	UNIT CHECK RETRY
		..11 ....		*	RESERVED
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1..		*	RESERVED
		.... .111		*	NOT USED - AVAILABLE
316	(13C)	CHARACTER	2	*	NOT USED - AVAILABLE
318	(13E)	SIGNED	2	XCNRLYTO	REPLY TIMEOUT VALUE (IN SECONDS)
320	(140)	CHARACTER	8	XCNSIOCK	START I/O CLOCK TIME
328	(148)	CHARACTER	72	XCNTQE	TIMER QUEUE ELEMENT
400	(190)	CHARACTER	8	XCNICTL	INPUT CONTROL AREA
400	(190)	UNSIGNED	2	XCNIBUFC	NUMBER OF BUFFERS RECEIVED IN LAST WRITE OPERATION

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
402	(192)	BITSTRING	2	XCNISTAT	INPUT STATUS AREA - IF 0, NORMAL DATA TRANSFER HAS OCCURRED
		1... ....		XCNI9IDF	+ XID TRANSFER (IF XCNIERRF IS ALSO ON, DISCONTACTING)
		.1.. ....		XCNIERRF	+ ERROR RETRY OF LAST TRANSMISSION
		..11 ....		*	NOT USED- AVAILABLE
		.... 1..		*	RESERVED
		.... .1..		*	NOT USED- AVAILABLE
		.... ..1.		XCNISLOW	+ SLOWDOWN - OUTPUT DATA HAS NOT BEEN RECEIVED
		.... ...1		XCNIMAXW	+ THE NEXT TRANSMISSION REQUIRES THE MAXIMUM NUMBER OF BUFFERS AVAILABLE IN THIS SIDE OF THE ADAPTER
403	(193)	UNSIGNED	1	XCNI9FMT	+ CONTROL FORMAT (VALID ONLY DURING XID EXCHANGE)
404	(194)	SIGNED	2	XCNI9NUMS	INCREMENTAL COUNT OF NUMBER OF BUFFERS SENT (USED FOR DATA LINK CONTROL INTEGRITY)
404	(194)	SIGNED	2	XCNI9PGCT	DURING XID EXCHANGE, THIS FIELD WILL REPRESENT THE NUMBER OF PAGES TO BE ALLOCATED FOR THE CTC BUFFER. AFTER XID IS COMPLETE, IT WILL BE CLEARED FOR BEGINNING DATA TRANSFER
406	(196)	SIGNED	2	XCNI9UMR	INCREMENTAL COUNT OF NUMBER OF BUFFERS RECEIVED (USED FOR DATA LINK CONTROL INTEGRITY)
406	(196)	SIGNED	2	XCNI9DSZ	DURING XID EXCHANGE, THIS FIELD WILL REPRESENT THE SIZE OF THE SMS HEADER IN USE BY THIS HOST AFTER XID IS COMPLETE, IT WILL BE CLEARED FOR DATA TRANSFER
408	(198)	CHARACTER	8	XCNOCTL	OUTPUT CONTROL AREA
408	(198)	UNSIGNED	2	XCNOBUFC	NUMBER OF BUFFERS TRANSMITTED IN LAST WRITE OPERATION (THE NUMBER OF READ BUFFERS WHICH WILL BE USED BY THE OTHER SIDE OF THE ADAPTER)
410	(19A)	BITSTRING	2	XCNOSTAT	OUTPUT STATUS AREA - IF 0, NORMAL DATA TRANSFER WILL OCCUR
		1... ....		XCN0XIDF	+ XID TRANSFER (IF XCN0ERRF IS ALSO ON, DISCONTACTING)
		.1.. ....		XCN0ERRF	+ ERROR RETRY OF LAST TRANSMISSION
		..11 ....		*	+ NOT USED - AVAILABLE
		.... 1..		*	RESERVED
		.... .1..		*	+ NOT USED - AVAILABLE
		.... ..1.		XCN0SLOW	+ SLOWDOWN - INPUT DATA HAS NOT BEEN RECEIVED
		.... ...1		XCN0MAXW	+ THE NEXT TRANSMISSION REQUIRES THE MAXIMUM NUMBER OF BUFFERS AVAILABLE IN THE OTHER SIDE OF THE ADAPTER
411	(19B)	UNSIGNED	1	XCN0FMT	+ CONTROL FORMAT (VALID ONLY DURING XID EXCHANGE)
412	(19C)	SIGNED	2	XCN0NUMS	INCREMENTAL COUNT OF NUMBER OF BUFFERS SENT (USED FOR DATA LINK CONTROL INTEGRITY)
412	(19C)	SIGNED	2	XCN0PGCT	DURING XID EXCHANGE, THIS FIELD WILL REPRESENT THE NUMBER OF PAGES TO BE ALLOCATED FOR THE CTC BUFFER. AFTER XID IS COMPLETE, IT WILL BE CLEARED FOR BEGINNING DATA TRANSFER
414	(19E)	SIGNED	2	XCN0NUMR	INCREMENTAL COUNT OF NUMBER OF BUFFERS RECEIVED (USED FOR DATA LINK CONTROL INTEGRITY)
414	(19E)	SIGNED	2	XCN0HDSZ	DURING XID EXCHANGE, THIS FIELD WILL REPRESENT THE SIZE OF THE SMS HEADER IN USE BY THIS HOST AFTER XID IS COMPLETE, IT WILL BE CLEARED FOR DATA TRANSFER
416	(1A0)	CHARACTER	4	XCN0V9TX9	OUTPUT VALIDITY TEST DATA
420	(1A4)	CHARACTER	4	XCNIV9TX9	INPUT VALIDITY TEST DATA
424	(1A8)	CHARACTER	88	XCN9DEVCA	DEVICE CONTROL AREA (THIS FIRST AREA IN THIS SECTION MUST BE XCNCCWCS, WHICH OVERLAYS YCNCCWCS)

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex (1A8)				
424	(1A8)	CHARACTER	8	XCNCWCS	WRITE CONTROL OR SENSE COMMAND BYTE CCW. THIS CCW WILL BE A WRITE CONTROL CCW WHEN THIS SIDE OF THE ADAPTER IS INITIATING A DATA TRANSFER OPERATION, AND WILL BE A SENSE COMMAND BYTE CCW WHEN THIS SIDE OF THE ADAPTER IS RESPONDING TO AN ATTENTION.
432	(1B0)	CHARACTER	8	XCNCWCT	WRITE CONTROL TIC - THIS WILL BE A NOP IF THIS IS THE THE X-SIDE OF THE ADAPTER (AND USES WRITE/READ CHANNEL PROGRAMS). THIS WILL BE A TIC TO XCNCWRS IF THIS IS THE Y-SIDE OF THE ADAPTER (AND USES READ/WRITE CHANNEL PROGRAMS).
440	(1B8)	CHARACTER	8	XCNTICX1	TIC EXTENSION EXTENDS EIGHT BYTES BEYOND NORMAL TIC TO CONTAIN VIRTUAL ADDRESS OF WRITE BUFFER (MVS ONLY)
448	(1C0)	CHARACTER	8	XCNCWWS	WRITE STATUS CCW - THIS CCW WRITES OUT THE STATUS DATA (XCNOCTL)
456	(1C8)	CHARACTER	8	XCNCWWT	WRITE STATUS TIC - TICADDRV CONTAINS THE VIRTUAL ADDRESS OF THE WRITE CHANNEL PROGRAM WHEN AVAILABLE, AND IS ZERO IF NO WRITE CHANNEL PROGRAM HAS BEEN FORMATTED. WHEN A WRITE CHANNEL PROGRAM IS AVAILABLE, IT IS ALWAYS IN THE AREA ADDRESSED BY XCNCWA
464	(1D0)	CHARACTER	8	XCNTICX2	TIC EXTENSION EXTENDS EIGHT BYTES BEYOND NORMAL TIC TO CONTAIN VIRTUAL ADDRESS OF WRITE BUFFER (MVS ONLY)
472	(1D8)	CHARACTER	8	XCNCWRS	READ STATUS CCW - THIS CCW READS IN THE STATUS DATA (XCNICTL)
480	(1E0)	CHARACTER	8	XCNCWRT	READ STATUS TIC - TICADDRV CONTAINS THE VIRTUAL ADDRESS OF THE READ CHANNEL PROGRAM WHEN AVAILABLE, AND IS ZERO IF NO READ CHANNEL PROGRAM HAS BEEN FORMATTED.
488	(1E8)	CHARACTER	8	XCNTICX3	TIC EXTENSION EXTENDS EIGHT BYTES BEYOND NORMAL TIC TO CONTAIN VIRTUAL ADDRESS OF READ BUFFER (MVS/XA ONLY)
496	(1F0)	CHARACTER	8	XCNCWVC	VALIDITY CHECK CCW - THIS CCW IS USED TO WRITE (ON THE X-SIDE) OR READ (ON THE Y-SIDE) THE VALIDITY DATA.
504	(1F8)	CHARACTER	8	XCNCWNE	NOP ENDING CCW - THIS CCW WILL ALWAYS BE THE LAST CCW IN THE CHANNEL PROGRAM
512	(200)	ADDRESS	4	XCNCWA	POINTER TO STATION CCWS
516	(204)	ADDRESS	4	XCNWRPTR	POINTER TO WRITE CHANNEL PROGRAM
520	(208)	SIGNED	2	XCNWRCT	NUMBER OF WRITE CCWS
522	(20A)	SIGNED	2	XCNRDCT	NUMBER OF READ CCWS
524	(20C)	SIGNED	2	XCNXBUFC	NUMBER OF BUFFERS REQUIRED FOR THE NEXT READ OPERATION BY THIS SIDE OF THE ADAPTER
526	(20E)	SIGNED	2	XCNXBUFN	NORMAL NUMBER OF READ BUFFERS USED BY THIS SIDE OF THE ADAPTER
528	(210)	SIGNED	2	XCNXBUFM	MAXIMUM NUMBER OF READ BUFFERS USED BY THIS SIDE OF THE ADAPTER
530	(212)	SIGNED	2	XCNYBUFF	NUMBER OF BUFFERS REQUIRED BY THE OTHER SIDE FOR THE CURRENT QUEUE OF DATA BUFFERS TO BE SENT
532	(214)	SIGNED	2	XCNYBUFC	NUMBER OF BUFFERS REQUIRED FOR THE NEXT READ OPERATION BY THE OTHER SIDE OF THE ADAPTER
534	(216)	SIGNED	2	XCNYBUFN	NORMAL NUMBER OF READ BUFFERS USED BY THE OTHER SIDE OF THE ADAPTER
536	(218)	SIGNED	2	XCNYBUFM	MAXIMUM NUMBER OF READ BUFFERS USED BY THE OTHER SIDE OF THE ADAPTER
538	(21A)	SIGNED	2	XCNYBUFS	I/O BUFFER SIZE FOR THE OTHER SIDE OF THE ADAPTER
540	(21C)	CHARACTER	4	*	NOT USED - AVAILABLE
544	(220)	CHARACTER	221	*	NOT USED - AVAILABLE (BUT MUST BE PRESENT); WHENEVER ANOTHER FIELD IS VARIED IN LENGTH OR A NEW FIELD IS ADDED THIS FIELD MUST BE ADJUSTED IN SIZE TO MAINTAIN THE EXISTING SIZE OF THE XCNCB

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
768	(300)	CHARACTER		XCNCB	END OF XCNCB

OVERLAY FOR SENSE DATA

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	2	XCNSENSE	SENSE DATA
0	(0)	BITSTRING	1	*	SENSE BYTE 1
		1... ....		*	RESERVED - NOT AVAILABLE
		.1.. ....		XCININTRQ	INTERVENTION REQUIRED
		..1. ....		XC�BFDCCK	BUFFER DATA CHECK (OTHER SIDE OF THE ADAPTER)
		...1 ....		XCNEQCHK	EQUIPMENT CHECK
		.... 1..		XCNSSELCK	SELECTION CHECK (OTHER SIDE OF THE ADAPTER)
		.... .1..		XCNSSEQCK	CONTROL SEQUENCE CHECK (OTHER SIDE OF THE ADAPTER)
		.... ..1.		XCNGENCK	STATUS GENERATION CHECK (OTHER SIDE OF THE ADAPTER)
		.... ...1		XC�NINDIS	INTERFACE DISCONNECT (NORMALLY PRODUCED BY HIO OR HDV ISSUED BY THE OTHER SIDE OF THE ADAPTER)
1	(1)	BITSTRING	1	*	SENSE BYTE 2

TUNING STATISTICS XCNCB OVERLAY

0	(0)	STRUCTURE	816	ISTXCNCCT	
0	(0)	CHARACTER	768	*	
768	(300)	CHARACTER	48	XC�NSTATS	TUNING DATA

THE FOLLOWING FIELDS MUST REMAIN IN THE SPECIFIED ORDER AS THEY MAP WITH FIELDS IN ISTTUNB

768	(300)	SIGNED	4	XC�NCHNWR	COUNT OF NORMAL SIZE WRITE CHANNEL PROGRAMS
772	(304)	SIGNED	4	XC�NCHMWR	COUNT OF MAXIMUM SIZE WRITE CHANNEL PROGRAMS
776	(308)	SIGNED	4	XC�NATTN	COUNT OF ATTENTIONS RECEIVED
780	(30C)	SIGNED	4	*	RESERVED - NOT AVAILABLE
784	(310)	SIGNED	4	XC�NIPIU	COUNT OF PIUS INBOUND
788	(314)	SIGNED	4	XC�NOPIU	COUNT OF PIUS OUTBOUND
792	(318)	SIGNED	4	XC�NRDBUF	COUNT OF READ BUFFERS USED
796	(31C)	SIGNED	4	XC�NSLODN	NUMBER OF TIMES THAT A WRITE HAS FAILED DUE TO SLOWDOWN BY THE OTHER SIDE OF THE ADAPTER
800	(320)	SIGNED	4	XC�NTRDLY	NUMBER OF TIMES THAT A CHANNEL PROGRAM HAS BEEN STARTED DUE TO THE TIMER DELAY TRIGGER
804	(324)	SIGNED	4	XC�NTRQDL	NUMBER OF TIMES THAT A CHANNEL PROGRAM HAS BEEN STARTED DUE TO THE QUEUE DEPTH LIMIT TRIGGER
808	(328)	SIGNED	4	XC�NTRDLC	NUMBER OF TIMES THAT A CHANNEL PROGRAM HAS BEEN STARTED DUE TO THE DESTINATION LIMIT CAPACITY TRIGGER
812	(32C)	SIGNED	4	XC�NTRHPR	NUMBER OF TIMES THAT A CHANNEL PROGRAM HAS BEEN STARTED DUE TO THE HIGH PRIORITY REQUEST TRIGGER

## Constants

Len	Type	Value	Name	Description
<b>VALUES FOR STATION STATE (XCNSSFSM)</b>				
1	HEX	00	XCNSSRST	RESET STATE
1	HEX	01	XCNSSXPD	X-SIDE.I/O.PENDING
1	HEX	02	XCNSSYPD	Y-SIDE.I/O.PENDING
1	HEX	03	XCNSSCWT	CONTACT.WAIT
1	HEX	04	XCNSSCWD	CONTACT.WAIT.DCM
1	HEX	05	XCNSS71P	XID7#1.PENDING
1	HEX	06	XCNSS72P	XID7#2.PENDING
1	HEX	07	XCNSSXBP	XID.BAD.PENDING
1	HEX	08	XCNSS71I	XID7#1.I/O.PENDING
1	HEX	09	XCNSS72I	XID7#2.I/O.PENDING
1	HEX	0A	XCNSSXBI	XID.BAD.I/O.PENDING
1	HEX	0B	XCNSSRDY	READY
1	HEX	0C	XCNSSDIS	DISCONTACT.SCHED
1	HEX	0D	XCNSSHDP	HDV.PENDING
1	HEX	0E	XCNSSHPD	HDV.PENDING.DCM
1	HEX	0F	XCNSSDPD	PENDING.DISCONTACT.PENDING
1	HEX	03	XCNSSXPI	VALUE TO BE ADDED TO AN XID PENDING STATE TO CONVERT TO AN XID I/O STATE
<b>VALUES FOR XCNIFMT AND XCNOFMT</b>				
4	DECIMAL	0	XCNXFMTU	+ UNPACKED (PIUS MUST START AT AN I/O BUFFER BOUNDARY, MULTIPLE I/O BUFFERS USED IN EACH DIRECTION)
4	DECIMAL	1	XCNXFMT P	+ PACKED (PIUS ARE PACKED INTO A SINGLE I/O BUFFER, BLOCKING AND UNBLOCKING IS REQUIRED)
4	DECIMAL	3	XCNXFMT S	+ SEGMENTED (IN ADDITION TO PACKING, PIUS MAY BE SEGMENTED SO THAT THEY SPAN MULTIPLE BUFFERS)
0	BIT	10	XCNXSGFS	FIRST SEGMENT
0	BIT	00	XCNXSGMS	MIDDLE SEGMENT
0	BIT	01	XCNXSGLS	LAST SEGMENT
0	BIT	11	XCNXSGOS	ONLY SEGMENT
<b>DOS UNIQUE SECTION</b>				
<b>VALUES FOR NCBRCODE</b>				
1	HEX	01	RCNCC3	CONDITION CODE 3
1	HEX	02	RCNBUSY	BUSY
1	HEX	03	RCNIL	INCORRECT LENGTH
1	HEX	04	RCNPGMC	CHANNEL PROGRAM CHECK
1	HEX	05	RCNPTNC	PROTECTION CHECK
1	HEX	06	RCNSHNT	SHOULD NOT OCCUR
1	HEX	07	RCNICC	INTERFACE CONTROL CHECK
1	HEX	08	RCNCDC	CHANNEL DATA CHECK
1	HEX	09	RCNCC	CHAINING CHECK
1	HEX	0A	RCNINT	INTERVENTION REQUIRED
1	HEX	0B	RCNBUSCK	BUS OUT CHECK
1	HEX	0C	RCNEQPCK	EQUIPMENT CHECK
1	HEX	0D	RCNDATCK	DATA CHECK
1	HEX	0E	RCNOVERN	OVERRUN
1	HEX	0F	RCNUC	UNIT CHECK



## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTXCNCB	0		1	XCNSLODN	31C		3
ISTXCNCT	0		1	XCNSSFSM	138		3
XCNATTN	308		3	XCNSTATS	300		2
XCNBFDCK	0	20	3	XCNTICX1	1B8		3
XCNCB	0		3	XCNTICX2	1D0		3
XCNCCWA	200		2	XCNTICX3	1E8		3
XCNCCWCS	1A8		3	XCNTMOUT	13A	20	4
XCNCCWCT	1B0		3	XCNTQE	148		3
XCNCCWNE	1F8		3	XCNTQENA	13A	40	4
XCNCCWRS	1D8		3	XCNTRDLC	328		3
XCNCCWRT	1E0		3	XCNTRDLY	320		3
XCNCCWVC	1F0		3	XCNTRHPR	32C		3
XCNCCWWS	1C0		3	XCNTRQDL	324		3
XCNCCWWT	1C8		3	XCNURTRY	13B	40	5
XCNCHMWR	304		3	XCNWRCT	208		2
XCNCHNWR	300		3	XCNWRPTR	204		2
XCNDEVCA	1A8		2	XCNXBUFC	20C		2
XCNDISCR	13A	04	4	XCNXBUFM	210		2
XCNEND	300		2	XCNXBUFN	20E		2
XCNEQCHK	0	10	3	XCNXSIDE	13A	80	4
XCNGENCK	0	02	3	XCNYBUFC	214		2
XCNIBUFC	190		4	XCNYBUFF	212		2
XCNICTL	190		3	XCNYBUFM	218		2
XCNIERRF	192	40	5	XCNYBUFN	216		2
XCNIFMT	193		5	XCNYBUFS	21A		2
XCNIHDSZ	196		5	XCNYCN	0		2
XCNIMAXW	192	01	5				
XCNINDIS	0	01	3				
XCNINDP	13B	80	5				
XCNINTRQ	0	40	3				
XCNINUMR	196		4				
XCNINUMS	194		4				
XCNIPGCT	194		5				
XCNIPUI	310		3				
XCNISCB	139		3				
XCNISLOW	192	02	5				
XCNISTAT	192		4				
XCNIVTXT	1A4		3				
XCNIXIDF	192	80	5				
XCNMIH	13A	10	4				
XCNBUFC	198		4				
XCNBUFN	198		3				
XCNOCFL	19A	40	5				
XCNOCFL	19B		5				
XCNOCFL	19E		5				
XCNOMAXW	19A	01	5				
XCNONUMR	19E		4				
XCNONUMS	19C		4				
XCNOPGCT	19C		5				
XCNOPIU	314		3				
XCNOSLOW	19A	02	5				
XCNOSTAT	19A		4				
XCNVOTXT	1A0		3				
XCNOXIDF	19A	80	5				
XCNPACKB	13A	02	4				
XCNPACKF	13A	01	4				
XCNPIOP	13A	08	4				
XCNRDBUF	318		3				
XCNRDCT	20A		2				
XCNRLYTO	13E		3				
XCNSELCK	0	08	3				
XCNSENSE	0		1				
XCNSEQCK	0	04	3				
XCNSTOCK	140		3				

## Exchange Station ID (XID)

<b>Function:</b>	The XID maps the exchange station ID command, a data link control command by which two physical units exchange identification.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	Variable.
<b>Located in:</b>	Found in the APURU, KTDRU, and RQCRU RUs.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTXID	STATION I.D. EXCHANGE
0	(0)	BITSTRING	1	XIDSTID	BYTE 0 OF STATION ID
0	(0)	BITSTRING	1	XIDSTUFF	STATION ID
		1111 ....		XIDFORMAT	FORMAT INDICATOR
		.... 1111		XIDPUTYP	PU TYPE
1	(1)	UNSIGNED	1	XIDLENTH	XID INFORMATION LENGTH IF FORMAT=1
2	(2)	CHARACTER	4	XIDINFOF	XID INFORMATION FIELD
2	(2)	CHARACTER	4	XIDS2TO5	BLOCK NUMBER, ID NUMBER
2	(2)	BITSTRING	1	XIDBLKNM	BLOCK NUMBER
3	(3)	BITSTRING	2	XIDSIDNO	STATION ID NUMBER
6	(6)	CHARACTER	*	XIDEXTRA	EXTRA INFORMATION FOR EXTENDED XIDS

### XID DATA FOR XID FORMAT 1

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
6	(6)	STRUCTURE	46	XIDDATA1	XID FORMAT 1 INFORMATION
6	(6)	CHARACTER	2	*	RESERVED - NOT AVAILABLE
8	(8)	BITSTRING	1	XIDLINKF	LINK STATION AND CONNECTION PROTOCOL FLAG
		11.. ....		*	RESERVED - NOT AVAILABLE
		..1. ....		XIDLNKSE	ROLE OF XID SENDER
		...1 ....		*	RESERVED - NOT AVAILABLE
		.... 1111		XIDTRAN	LINK STATION TRANSMIT RECEIVE CAPABILITY
9	(9)	BITSTRING	1	XIDSEND	NODE OF XID SENDER
		11.. ....		*	RESERVED - NOT AVAILABLE
		..11 ....		XIDPCELE	NODES PC ELEMENT
		.... 11..		*	RESERVED - NOT AVAILABLE
		.... ..1.		XIDSHSI	SHORT HOLD STATUS INDICATOR
		.... ...1		XIDSHI	SHORT HOLD INDICATOR
10	(A)	BITSTRING	2	XIDLNGTH	MAX I FIELD LENGTH XID SENDER CAN RECEIVE
10	(A)	SIGNED	2	XIDMAXLN	MAXIMUM I FIELD LENGTH
12	(C)	BITSTRING	1	XIDCOMND	SDLC COMMAND/RESPONSE
		1111 ....		*	RESERVED - NOT AVAILABLE
		.... 1111		XIDCOMRS	PROFILE
13	(D)	BITSTRING	1	XIDMOD	MODE OPTION
		11.. ....		*	RESERVED - NOT AVAILABLE
		..1. ....		XIDINITM	SDLC INITIATION MODE
		...1 1111		*	RESERVED - NOT AVAILABLE
14	(E)	CHARACTER	2	*	RESERVED - NOT AVAILABLE
16	(10)	BITSTRING	1	XIDIFRAM	NUMBER OF I-FRAMES
		1... ....		*	RESERVED - NOT AVAILABLE
		.111 1111		XIDFRMR	I-FRAME CAN RECEIVED
17	(11)	CHARACTER	1	*	RESERVED - NOT AVAILABLE
18	(12)	BITSTRING	1	*	RESERVED - NOT AVAILABLE
18	(12)	BITSTRING	1	XIDSDLCL	SDLC ADDRESS TO ASSIGN
19	(13)	BITSTRING	1	XIDDIALN	NUMBER OF DIAL DIGITS
20	(14)	CHARACTER	32	XIDDIALD	DIAL DIGITS OF XID

### XID DATA FOR XID FORMAT 2

6	(6)	STRUCTURE	25	XIDDATA2	XID FORMAT 2 INFORMATION
6	(6)	UNSIGNED	1	XIDLEXCV	LENGTH OF XID EXCLUSIVE OF CONTROL VECTORS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
7	(7)	CHARACTER	1	*	RESERVED
8	(8)	CHARACTER	1	XIDFLG1	
		1... ..		XIDTGA	TRANSMISSION GROUP STATUS 0=TG INACTIVE 1=TG ACTIVE
		.1.. ..		XIDMULTL	MULTI-LINK TG SUPPORT 0=MULTI-LINK TG NOT SUPPORTED 1=MULTI-LINK TG SUPPORTED
		..11 ..		XIDSEGA	SEGMENT ASSEMBLY CAPABILITY
		.... 1111		*	RESERVED - NOT AVAILABLE
9	(9)	CHARACTER	1	XIDFIDS	FID TYPES SUPPORTED
		1... ..		XIDFID0	FID0 SUPPORTED
		.1.. ..		XIDFID1	FID1 SUPPORTED
		..11 ..		*	RESERVED - NOT AVAILABLE
		.... 1..		XIDFID4	FID4 SUPPORTED
		.... .111		*	RESERVED - NOT AVAILABLE
10	(A)	CHARACTER	1	*	RESERVED - NOT AVAILABLE
11	(B)	UNSIGNED	2	XIDMXPIU	LENGTH OF MAXIMUM PIU THAT THE XID SENDER CAN RECEIVE
13	(D)	UNSIGNED	1	XIDTGN	TRANSMISSION GROUP NUMBER
14	(E)	SIGNED	4	XIDSUBA	SUBAREA ADDRESS OF THE XID SENDER
18	(12)	CHARACTER	1	XIDFLG2	
		1... ..		*	RESERVED - NOT AVAILABLE
		.1.. ..		XIDXIDNG	1=CANNOT PROCEED WITH THE XID RECEIVED
		..1. ....		XIDTGAA	1=SINGLE-LINK TG IS ALREADY ACTIVE
		...1 ....		XIDTGND	1=TG IS NOT DEFINED
		.... 1..		XIDXIDP	1=INCOMPATIBLE PARAMETERS IN THE XID RECEIVED
		.... .1..		XIDCSVF	CALL SECURITY VERIFICATION 0=CALL SECURITY VERIFICATION SUCCESSFUL 1=CALL SECURITY VERIFICATION FAILED
		.... ..11		*	RESERVED - NOT AVAILABLE
19	(13)	UNSIGNED	1	XIDCTOPT	CONTACT OPTION
20	(14)	CHARACTER	8	XIDLNMAM	IPL LOAD MODULE NAME
28	(1C)	BITSTRING	1	XIDESACP	ESA CAPABILITIES
		1... ..		XIDESA	ESA SUPPORT INDICATOR
		.111 ..		*	RESERVED - NOT AVAILABLE
		.... 1111		XIDSALMT	ESA SUBAREA LIMIT
29	(1D)	CHARACTER	1	*	RESERVED - NOT AVAILABLE
30	(1E)	UNSIGNED	1	XIDDLCL	DATA LINK CONTROL TYPE
31	(1F)	CHARACTER	*	XIDDLCPM	DATA LINK CONTROL PARAMETERS

## XID2 SDLC-DLC DEPENDENT DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
31	(1F)	STRUCTURE	13	XIDDLCSO	DATA LINK CONTROL AREA FOR SDLC LINK
31	(1F)	BITSTRING	1	*	
		11.. ..		*	RESERVED
		..1. ....		XIDSEC	SENDER CAN BE SECONDARY
		...1 ....		XIDPRIM	SENDER CAN BE PRIMARY
		.... 11..		*	RESERVED - NOT AVAILABLE
		.... ..11		XIDTRCAP	LINK STATION TRANSMIT-RECEIVE CAPABILITY
32	(20)	UNSIGNED	2	XIDMAXIL	MAXIMUM I-FIELD LENGTH THAT THE XID SENDER CAN RECEIVE
34	(22)	BITSTRING	1	*	
		1111 ..		*	RESERVED
		.... 1111		XIDCRPRO	SDLC COMMAND/RESPONSE PROFILE
35	(23)	BITSTRING	1	*	
		11.. ..		*	RESERVED
		..11 ..		XIDIMOPT	INITIALIZATION MODE OPTIONS
		..1. ....		XIDSSRR	XID SENDER CAN SEND SIM AND RECEIVE RIM
		...1 ....		XIDRSSR	XID SENDER CAN RECEIVE SIM AND SEND RIM
		.... 1..		XID2EDSI	EXHO DEFEAT SUPPORT INDICATOR
		.... .1..		XID2SHSI	SHORT HOLD MODE STATUS INDICATOR
		.... ..1.		XID2SHI	SHORT HOLD MODE INDICATOR
		.... ...1		XID2PRE	PRE NEGOTIATION INDICATOR
36	(24)	CHARACTER	2	*	RESERVED
38	(26)	BITSTRING	1	*	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		1... .... .111 1111		XIDMXOUT	RESERVED MAXIMUM NUMBER OF I FRAMES THE XID SENDER CAN RECEIVE BEFORE AN ACKNOWLEDGEMENT IS SENT
		.111 1... .... .111		XIDINVLD XIDMXNUM	SHOULD BE ZERO NUMBER OF I FRAMES
39	(27)	CHARACTER	5	*	RESERVED
44	(2C)	CHARACTER		XIDSDVEC	CONTROL VECTORS

XID2 CHANNEL-DLC DEPENDENT DATA

31	(1F)	STRUCTURE	11	XIDDLPCPC	DLC AREA FOR SYSTEM/370
31	(1F)	UNSIGNED	1	XIDINBFS	NUMBER OF INITIAL BUFFERS TO BE ALLOCATED AT THE SECONDARY FOR DATA TRANSFER FROM PRIMARY TO SECONDARY
32	(20)	SIGNED	2	XIDMBFRU	NUMBER OF READ COMMANDS SECONDARY RECEIVES
34	(22)	SIGNED	2	XIDUNITS	NUMBER OF DATA BYTES ALLOCATED PER READ COMMAND AT PRIMARY
36	(24)	UNSIGNED	1	XIDBFRPD	NUMBER OF PAD CHARACTERS SECONDARY TRANSMITS TO PRIMARY IMMEDIATELY PRECEEDING EACH BTU TO BE SENT
37	(25)	CHARACTER	1	XIDFLG3 XIDSM	STATUS MODIFIER SUPPORT 0=SECONDARY DOES NOT USE STATUS MODIFIER OPTION FOR DATA TRANSFER TO PRIMARY 1=SECONDARY USES THE STATUS MODIFIER OPTION FOR DATA TRANSFER TO PRIMARY
		.1.. .... ..1. ....		*	RESERVED - NOT AVAILABLE
				XIDUNCND	CONTACT OPTION 0=DO NOT CONTACT IF THE TG IS ACTIVE ON ANOTHER CHANNEL 1=CONTACT EVEN IF THE TG IS ACTIVE ON ANOTHER CHANNEL
		...1 1111		*	RESERVED - NOT AVAILABLE
38	(26)	SIGNED	2	XIDDINT	THE INTERVAL THAT SECONDARY DELAYS BETWEEN THE TIME IT HAS DATA AVAILABLE FOR PRIMARY AND THE TIME IT PRESENTS AN ATTENTION SIGNAL TO PRIMARY
40	(28)	SIGNED	2	XIDWINT	THE INTERVAL THAT SECONDARY AWAITS A RESPONSE TO AN ATTENTION SIGNAL THAT HAS BEEN SENT TO PRIMARY BEFORE INITIATING INOPERATIVE PROCESSING

XID2 CTCA-DLC DEPENDENT DATA

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
31	(1F)	STRUCTURE	6	XIDDLCTC	DLC AREA FOR CHANNEL TO CHANNEL ADAPTER
31	(1F)	SIGNED	2	XIDCTCNR	NORMAL NUMBER OF READ BUFFERS TO BE USED FOR DATA TRANSFER
33	(21)	SIGNED	2	XIDCTCMR	MAXIMUM NUMBER OF READ BUFFERS TO BE USED FOR DATA TRANSFER
35	(23)	SIGNED	2	XIDCTCBS	I/O BUFFER SIZE TO BE USED FOR DATA TRANSFER

XID DATA FOR XID FORMAT 3

6	(6)	STRUCTURE	13	XIDDATA3	XID FORMAT-3 INFORMATION
6	(6)	CHARACTER	2	*	RESERVED - NOT AVAILABLE
8	(8)	CHARACTER	2	XID3NCHR	NODE CHARACTERISTICS (XID SENDER)
		1... ....		XID3INTS	INIT-SELF SUPPORT
		.1.. ....		XID3SABS	STANDALONE BIND SUPPORT 0 - SENDER SUPPORTS INDEPENDENT LUS 1 - SENDER DOES NOT SUPPORT INDEPENDENT LUS
		..1. ....		XID3PIUG	WHOLE-BIND-PIUS GENERATED INDICATOR
		...1 ....		XID3PIUR	WHOLE-BIND-PIUS REQUIRED INDICATOR
		.... 1111		XID3FIDT	FID TYPES NODE SUPPORTS
		1... ....		XID3ACPU	ACTPU SUPPRESSION INDICATOR 0 - SSCP-PU SESSION REQUESTED 1 - SSCP-PU SESSION NOT REQUESTED
		.11. ....		XID3CPST	CP STATUS

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 11..		XID3CPSU	CP-CP SESSION SUPPORT 0 - CP-CP SESSIONS NOT SUPPORTED 1 - CP-CP SESSIONS SUPPORTED
		.... 11..		XID3XIDS	XID EXCHANGE STATE
		.... 11..		XID3NAEX	NON-ACTIVATION EXCHANGE 0 - NON-ACTIVATION EXCHANGE INITIATED BY SECONDARY IS NOT SUPPORTED 1 - NON-ACTIVATION EXCHANGE INITIATED BY SECONDARY IS SUPPORTED
10	(A)	.... 11..	1	XID3BIND	RESERVED BIND PACING SUPPORT OF THE TG
		1... ..		*	RESERVED
		.1.. ..		*	RESERVED
		..11 1111		*	RESERVED
11	(B)	CHARACTER	4	*	RESERVED
15	(F)	CHARACTER	1	*	RESERVED
		1... ..		XID3TGS1	MULTIPLE TG SUPPORT IND 0 - MULTIPLE TGS ARE NOT SUPPORTED 1 - MULTIPLE TGS ARE SUPPORTED
		.111 1111		*	RESERVED - NOT AVAILABLE
16	(10)	CHARACTER	1	XID3TGNO	TRANSMISSION GROUP NUMBER
17	(11)	CHARACTER	1	XID3DLCT	DLC TYPE
18	(12)	UNSIGNED	1	XID3LEN	LENGTH OF DLC DEPENDENT SECTION
19	(13)	CHARACTER	*	XID3DLC	DLC DEPENDENT DATA

XID3 SDLC-DLC DEPENDENT DATA

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
19	(13)	STRUCTURE	10	XID3DLCS	SDLC-DLC DEPENDENT DATA
19	(13)	CHARACTER	1	XID3LSCP	LINK STATION AND CONNECTION FLAGS
		1... ..		*	RESERVED
		.1.. ..		*	RESERVED
		..11 ..		*	RESERVED
		.... 1...		*	RESERVED
		.... .1..		*	RESERVED
		.... ..11		*	RESERVED
20	(14)	CHARACTER	1	*	RESERVED
21	(15)	BITSTRING	2	XID3MBTU	MAXIMUM BTU LEN SENDER CAN RECEIVE
		1... ..		*	RESERVED
21	(15)	BITSTRING	1	*	RESERVED
23	(17)	CHARACTER	1	*	RESERVED
		1111 ..		*	RESERVED
		.... 1111		XID3PROF	SDLC COMMAND/RSP PROFILE
24	(18)	CHARACTER	1	*	RESERVED
		11.. ..		*	RESERVED
		..1. ....		XID3MODE	SDLC INITIALIZATION MODE OPTIONS
		...1 1111		*	RESERVED
25	(19)	CHARACTER	2	*	RESERVED
27	(1B)	CHARACTER	1	*	RESERVED
		1... ..		*	RESERVED
		.111 1111		XID3MXIF	MAXIMUM NUMBER OF I-FRAMES
28	(1C)	CHARACTER	1	*	RESERVED
29	(1D)	CHARACTER	*	XID3CTLV	CONTROL VECTORS

## Constants

Len	Type	Value	Name	Description
VALUES FOR FORMAT INDICATOR (XIDFORMT)				
0	BIT	0000	XIDFMT0	FORMAT 0
0	BIT	0001	XIDFMT1	FORMAT 1
0	BIT	0010	XIDFMT2	FORMAT 2
0	BIT	0011	XIDFMT3	FORMAT 3
VALUES FOR LENGTH FIELD (XIDLENTH)				
4	DECIMAL	0	XIDLEN00	TO CHECK LENGTH = 0
VALUES FOR PU TYPE (XIDPUTYP)				
0	BIT	0001	XIDPUT1	PU TYPE 1
0	BIT	0010	XIDPUT2	PU TYPE 2
0	BIT	0011	XIDPUT3	RESERVED
0	BIT	0100	XIDPUT4	PU TYPE 4
0	BIT	0100	XIDPUT5	PU TYPE 4 OR 5
0	BIT	0101	XIDTYP5	PU TYPE 5 (OTHER VALUES RESERVED)
VALUES FOR SEGMENT ASSEMBLY CAPABILITY (XIDSEGA)				
0	BIT	00	XIDSEGIG	SEGMENTS ARE IGNORED AND PASSED THROUGH
0	BIT	01	XIDSEGLS	SEGMENTS ARE ASSEMBLED ON A LINK-STATION BASIS
0	BIT	10	XIDSEGSE	SEGMENTS ARE ASSEMBLED ON A SESSION BASIS
0	BIT	11	XIDSEGNA	SEGMENTS ARE NOT ALLOWED
VALUES FOR CONTACT OPTION (XIDCTOPT)				
4	DECIMAL	0	XIDCTRCV	CONTACT HAS BEEN RECEIVED
4	DECIMAL	7	XIDCTAL	ALREADY LOADED
VALUES FOR DATA LINK CONTROL TYPE (XIDDLCL)/XID3DLCT				
4	DECIMAL	0	XIDDLCLN	NO DLC TYPE SPECIFIED
4	DECIMAL	1	XIDDLCS	SDLC
4	DECIMAL	2	XIDDLCC	SYSTEM/370 CHANNEL
4	DECIMAL	3	XIDDLCA	CHANNEL TO CHANNEL ADAPTER
VALUES FOR TRANSMIT RECEIVE CAPABILITY (XIDTRCAP)				
0	BIT	00	XID2WALT	TWO-WAY ALTERNATING
0	BIT	01	XID2WSIM	TWO-WAY SIMULTANEOUS
VALUES FOR SDLC COMMAND/RESPONSE PROFILE (XIDCRPRO)				
0	BIT	0000	XIDSNALP	SNA LINK PROFILE
VALUE FOR SDLC CADDRESS TO BE ASSIGN (XIDSDLCL)				
1	HEX	00	XIDSDLLN	LENGTH OF SDLC ADDRESS
0	BIT	0000111	XIDIFRM	NUMBER OF I FRAMES

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTXID	0		1	XIDDIALD	14		2
XIDBFRPD	24		2	XIDDIALN	13		2
XIDBLKNM	2		4	XIDDINT	26		2
XIDCOMND	C		2	XIDDLCL	1E		2
XIDCOMRS	C	08	3	XIDDLCPD	1F		1
XIDCRPRO	22	08	3	XIDDLCPM	1F		2
XIDCSVF	12	04	3	XIDDLCS	1F		1
XIDCTCBS	23		2	XIDDLCTC	1F		1
XIDCTCMR	21		2	XIDES	1C	80	3
XIDCTCNR	1F		2	XIDESACP	1C		2
XIDCTOPT	13		2	XIDEXTRA	6		2
XIDDATA1	6		1	XIDFIDS	9		2
XIDDATA2	6		1	XIDFID0	9	80	3
XIDDATA3	6		1	XIDFID1	9	40	3

Name	Hex Offset	Hex Value	Level
XIDFID4	9	08	3
XIDFLG1	8		2
XIDFLG2	12		2
XIDFLG3	25		2
XIDFORMT	0	80	4
XIDFRMR	10	40	3
XIDIFRAM	10		2
XIDIMOPT	23	20	3
XIDINBFS	1F		2
XIDINFOF	2		2
XIDINITM	D	20	3
XIDINVLD	26	40	4
XIDLENTH	1		2
XIDLEXCV	6		2
XIDLINKF	8		2
XIDLMNAM	14		2
XIDLNGTH	A		2
XIDLNKSE	8	20	3
XIDMAXIL	20		2
XIDMAXLN	A		3
XIDMBFRU	20		2
XIDMOD	D		2
XIDMULTL	8	40	3
XIDMXNUM	26	04	4
XIDMXOUT	26	40	3
XIDMXPIU	B		2
XIDPCELE	9	20	3
XIDPRIM	1F	10	3
XIDPUTYP	0	08	4
XIDRSSR	23	10	4
XIDSALMT	1C	08	3
XIDSDLCL	12		3
XIDSDVEC	2C		2
XIDSEC	1F	20	3
XIDSEGA	8	20	3
XIDSEND	9		2
XIDSHI	9	01	3
XIDSHSI	9	02	3
XIDSIDNO	3		4
XIDSM	25	80	3
XIDSSRR	23	20	4
XIDSTID	0		2
XIDSTUFF	0		3
XIDSUBA	E		2
XIDS2TO5	2		3
XIDTGA	8	80	3
XIDTGAA	12	20	3
XIDTGN	D		2
XIDTGND	12	10	3
XIDTRAN	8	08	3
XIDTRCAP	1F	02	3
XIDUNCND	25	20	3
XIDUNITS	22		2
XIDWINT	28		2
XIDXIDIP	12	08	3
XIDXIDNG	12	40	3
XID2EDSI	23	08	3
XID2PRE	23	01	3
XID2SHI	23	02	3
XID2SHSI	23	04	3
XID3ACPU	9	80	3
XID3BIND	A		2
XID3CPST	9	40	3
XID3CPSU	9	10	3
XID3CTLV	1D		2
XID3DLCD	13		2
XID3DLCS	13		1

Name	Hex Offset	Hex Value	Level
XID3DLCT	11		2
XID3FIDT	8	08	3
XID3INTS	8	80	3
XID3LEN	12		2
XID3LSCP	13		2
XID3MBTU	15		2
XID3MODE	18	20	3
XID3MXIF	1B	40	3
XID3NAEX	9	02	3
XID3NCHR	8		2
XID3PIUG	8	20	3
XID3PIUR	8	10	3
XID3PROF	17	08	3
XID3SABS	8	40	3
XID3TGNO	10		2
XID3TGS1	F	80	3
XID3XIDS	9	08	3

## Channel-To-Channel Node Control Block (YCNCB)

<b>Function:</b>	A YCNCB represents a channel attachment to an adjacent host. It is created when contact with the adjacent host has been established.  The YCNCB contains information needed to control I/O initialization and termination. This includes CCWs, and scheduling queues and parameters required to communicate with the I/O supervisor routines that perform the I/O operations.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	736 (X'2E0')
<b>Pointed to by:</b>	RPRNCBA (RPRE) HNTPTR (HNT) TSPNXNOD (TSPL) VIT entries: ERP (CIO Error Recovery) INT (CIO Interruption) SIO (CIO Start I/O) (See <i>VTAM Diagnosis</i> for more information on the VIT entries.)
<b>Included Blocks:</b>	CCW (YCNCWCWS, YCNCWWR, YCNCWRW), NCB (YCNCB), TQE (YCNTQE)
<b>Additional Notes:</b>	See <i>VTAM Diagnosis</i> for more information about related channel programs and a description of how the X-side and Y-side of the adapter are determined.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	736	ISTYCNCB	CHANNEL TO CHANNEL ADAPTER NODE CONTROL BLOCK
0	(0)	CHARACTER	424	YCNXCN	YCNCB/XCNCB COMMON FIELDS THESE FIELDS ARE COMMON BETWEEN THE XCNCB AND THE YCNCB, AND CANNOT BE MOVED IN ONE UNLESS THEY ARE MOVED IN THE OTHER
0	(0)	CHARACTER	312	YCNCB	COMMON NCB HEADER
312	(138)	UNSIGNED	1	YCNSSFMS	STATION STATE FINITE STATE MACHINE
313	(139)	CHARACTER	1	YCNISCB	INPUT AREA FOR COMMAND BYTE
314	(13A)	BITSTRING	1	*	YCNCB CONTROL FLAGS
		1... ....		YCNXSIDE	THIS SIDE OF THE ADAPTER ISSUES WRITES BEFORE READS
		.1.. ....		YCNTQENA	THE TIMER QUEUE ELEMENT IS NOT AVAILABLE FOR USE
		..1. ....		YCNTMOUT	TIMEOUT HAS OCCURRED
		...1 ....		YCNMIH	HANDLE TIMEOUT AS MISSING INTERRUPT
		.... 1...		YCNPIOP	PUS I/O PENDING
		.... .1..		*	NOT USED - AVAILABLE
		.... ..1.		*	RESERVED - (SEGMENT)
		.... ...1		YCNPACKF	PACKED FORMAT CHANNEL PROGRAM IS BEING USED
315	(13B)	CHARACTER	3	*	NOT USED - AVAILABLE
318	(13E)	SIGNED	2	YCNRLYTO	REPLY TIMEOUT VALUE (IN SECONDS)
320	(140)	CHARACTER	8	YCNSTOCK	START I/O CLOCK TIME
328	(148)	CHARACTER	72	YCNTQE	TIMER QUEUE ELEMENT
400	(190)	CHARACTER	8	YCNICTL	COPY OF INPUT CONTROL AREA
408	(198)	CHARACTER	8	YCNOUTL	COPY OF OUTPUT CONTROL AREA
416	(1A0)	CHARACTER	4	YCNVOTXT	OUTPUT VALIDITY TEST DATA
420	(1A4)	CHARACTER	4	YCNIVTXT	INPUT VALIDITY TEST DATA
424	(1A8)	CHARACTER	288	YCNDEVCA	DEVICE CONTROL AREA (THE FIRST AREA IN THIS SECTION MUST BE YCNCWCWS, WHICH OVERLAYS XCNCWCWS)
424	(1A8)	CHARACTER	8	YCNCCWCS	WRITE CONTROL OR SENSE COMMAND BYTE CCW. THIS CCW WILL BE A WRITE CONTROL CCW WHEN THIS SIDE OF THE ADAPTER IS INITIATING A DATA TRANSFER OPERATION, AND WILL BE A SENSE COMMAND BYTE CCW WHEN THIS SIDE OF THE ADAPTER IS RESPONDING TO AN ATTENTION.



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
432	(1B0)	CHARACTER	8	YCNCCWWR	WRITE/READ CCW - THIS CCW WILL BE USED TO WRITE DATA ON THE X-SIDE OF THE ADAPTER AND USED TO READ DATA ON THE Y-SIDE OF THE ADAPTER
440	(1B8)	CHARACTER	8	YCNCCWRW	READ/WRITE CCW - THIS CCW WILL BE USED TO READ DATA ON THE X-SIDE OF THE ADAPTER AND USED TO WRITE DATA ON THE Y-SIDE OF THE ADAPTER
448	(1C0)	ADDRESS	4	YCNRDIDA (33)	READ CCW INDIRECT DATA LIST
580	(244)	ADDRESS	4	YCNWRIDA (33)	WRITE CCW INDIRECT DATA LIST
712	(2C8)	ADDRESS	4	YCNobuf	POINTER TO OUTPUT BUFFER
716	(2CC)	SIGNED	4	YCNolen	LENGTH OF OUTPUT BUFFER
720	(2D0)	ADDRESS	4	YCNIBUF	POINTER TO INPUT BUFFER
724	(2D4)	SIGNED	4	YCNilen	LENGTH OF INPUT BUFFER
728	(2D8)	SIGNED	4	YCNouse	NUMBER OF BYTES IN THE OUTPUT BUFFER AREA THAT WOULD BE USED BY THE I/O BUFFERS QUEUED ON THE PENDING TRAFFIC QUEUE
732	(2DC)	CHARACTER	4	*	NOT USED - AVAILABLE
736	(2E0)	CHARACTER	4	*	END OF YCNCB

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	YCNBUF	INPUT/OUTPUT BUFFER FORMAT
0	(0)	CHARACTER	8	YCNCTL	CONTROL AREA
0	(0)	SIGNED	2	YCNcbufc	NUMBER OF BYTES TRANSMITTED IN LAST WRITE OPERATION (THE NUMBER OF BYTES WHICH WILL BE DEBLOCKED BY THE OTHER SIDE OF THE ADAPTER)
2	(2)	BITSTRING	2	YCNcstat	OUTPUT STATUS AREA - IF 0, NORMAL DATA TRANSFER WILL OCCUR
		1... ....		YCNcxidf	+ XID TRANSFER (IF YCNcerrf IS ALSO ON, DISCONTACTING)
		.1.. ....		YCNcerrf	+ ERROR RETRY OF LAST TRANSMISSION
		..11 11..		*	+ NOT USED - AVAILABLE
		.... ..1.		YCNcslow	+ SLOWDOWN - INPUT DATA HAS NOT BEEN RECEIVED
		.... ...1		YCNcsegf	+ SEGMENTING OPERATION IS IN PROGRESS
3	(3)	UNSIGNED	1	YCNcfmt	+ CONTROL FORMAT (VALID ONLY DURING XID EXCHANGE)
4	(4)	SIGNED	2	YCNcnums	INCREMENTAL COUNT OF NUMBER OF BYTES SENT (USED FOR DATA LINK CONTROL INTEGRITY)
6	(6)	SIGNED	2	YCNcnumr	INCREMENTAL COUNT OF NUMBER OF BYTES RECEIVED (USED FOR DATA LINK CONTROL INTEGRITY)
8	(8)	CHARACTER	*	YCNdata	INPUT/OUTPUT PACKED DATA

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTYCNB	0		1	YCNIBUF	2D0		2
YCNBUF	0		1	YCNICTL	190		3
YCNB	0		3	YCNILEN	2D4		2
YCNcbufc	0		3	YCNISCB	139		3
YCNCCWCS	1A8		3	YCNIVTXT	1A4		3
YCNCCWRW	1B8		3	YCNMIH	13A	10	4
YCNCCWWR	1B0		3	YCNobuf	2C8		2
YCNcerrf	2	40	4	YCNoctl	198		3
YCNcfmt	3		4	YCNolen	2CC		2
YCNcnumr	6		3	YCNouse	2D8		2
YCNcnums	4		3	YCNovtxt	1A0		3
YCNcsegf	2	01	4	YCNpackf	13A	01	4
YCNcslow	2	02	4	YCNpiop	13A	08	4
YCNcstat	2		3	YCNrdida	1C0		3
YCNCTL	0		2	YCNrlyto	13E		3
YCNcxidf	2	80	4	YCNsiock	140		3
YCNdata	8		2	YCNssfsm	138		3
YCNDEVCA	1A8		2	YCNtmout	13A	20	4

Name	Hex Offset	Hex Value	Level
YCNTQE	148		3
YCNTQENA	13A	40	4
YCNWRIDA	244		3
YCNXCN	0		2
YCNXSIDE	13A	80	4

## Zappable Constants Area (ZPCON)

<b>Function:</b>	ZPCON maps the replaceable constants area.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	108 (X'6C')
<b>Pointed to by:</b>	ATCRACON (ATCVT) - pointer to ISTRACON
<b>Included Blocks:</b>	IAB (ZPCVRIAB)
<b>Additional Notes:</b>	For more information about the replaceable constants area, see <i>VTAM Customization</i> .

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	108	ISTZPCON		
0	(0)	CHARACTER	1	ZPCCBID	CONTROL BLOCK ID	
1	(1)	CHARACTER	1	ZPCLNGTH	CONTROL BLOCK LENGTH	
2	(2)	UNSIGNED	2	ZPCBSNAP	SNAPHOT VALUE FOR BUFFER TRACE	
4	(4)	UNSIGNED	2	ZPCMCBPF	MAXIMUM RU SIZE FOR SSCP TO LU/PU/SSCP SESSIONS	
6	(6)	UNSIGNED	2	ZPCMLUBF	MAXIMUM RU SIZE FOR LU TO LU SESSIONS	
8	(8)	UNSIGNED	4	ZPCINOPT	INOP TIME OUT VALUE FOR BSC PU (UNIT=1.048576 SEC)	
12	(C)	CHARACTER	16	ZPCVRIAB	INTERVAL ANALYSIS BLOCK FOR VIRTUAL ROUTE SELECTION SUBTASK (LENGTH OF ISTIAB)	
28	(1C)	UNSIGNED	1	ZPCSSMSG	DEFINE WHETHER ADJACENT SSCP TABLE RELATED MESSAGES ARE ISSUED -- IST894I, IST895I, IST896I	
29	(1D)	CHARACTER	1	ZPCALIAS	ALIAS TRANSLATIONS	
		1.. ....		ZPCOLUAL	1 - DETERMINE ALIAS NAMES	
		.1.. ....		ZPCDLURL	1 - DETERMINE REAL NAMES	
		..1. ....		ZPCDLUOW	1 - DETERMINE OWNING SSCP	
		...1 ....		ZPCDLUCS	1 - DETERMINE COSNAMES	
		.... 1..		ZPCDLULG	1 - DETERMINE LOGMODES	
		.... .1..		*	RESERVED	
		.... ..11		*	NOT USED - AVAILABLE	
30	(1E)	UNSIGNED	2	ZPCSSDIO	SWITCHED SUBAREA AUTO DISCONNECT TIMEOUT VALUE IN SECONDS	
32	(20)	SIGNED	4	ZPCINNBL	MAXIMUM NUMBER OF BYTES THAT INN MAY USE FOR SLOWDOWN PROCESSING	
36	(24)	CHARACTER	1	ZPCPDBFS	NUMBER OF BUFFERS FOR PROBLEM TRACES	
37	(25)	UNSIGNED	1	ZPCVCNT	SSCP VISIT COUNT LIMIT FOR INIT REQUEST - SET BY FIRST GATEWAY SSCP AND THEN DECREMENTED AT EACH GATEWAY SSCP ON THE PATH	
38	(26)	UNSIGNED	2	ZPCHSRT	NUMBER OF ENTRIES IN HOST SRT DIRECTORY	
40	(28)	UNSIGNED	2	ZPCONSRT	NUMBER OF ENTRIES IN SRT DIRECTORIES FOR OTHER NETWORKS	
42	(2A)	BITSTRING	1	ZPCTRFLG	INTERNAL TRACE FLAGS	
		1.. ....		ZPCTRSRB	1 = INCLUDE SRB TRACES IN PSS OPTION	
		.1.. ....		ZPCTRIRB	1 = INCLUDE IRB TRACES IN PSS OPTION	
		..11 1111		*	NOT USED - AVAILABLE	
43	(2B)	CHARACTER	1	*	NOT USED - AVAILABLE	
44	(2C)	SIGNED	4	ZPCHNTSZ	SIZE OF HNT BLOCKS	
48	(30)	SIGNED	4	ZPCCITSZ	SIZE OF CIT BLOCKS	
52	(34)	SIGNED	4	ZPCEAS	# ESTIMATED APPLS	
56	(38)	SIGNED	4	ZPCSASUP	MAXIMUM SUPPORTED SUBAREAS	
60	(3C)	CHARACTER	2	ZPCPCPS (9)	CPS CODE TO RETRY FOR VSE X21 SHM ONLY	
78	(4E)	UNSIGNED	2	ZPCBFSZ	TEXT SIZE USED BY VTAM TO LOAD / DUMP REMOTE NCP	
80	(50)	SIGNED	4	ZPCMXXBUF	MAXIMUM NUMBER OF SAW BUFFERS ALLOWED	
84	(54)	SIGNED	4	ZPCMIHTM	MIH INOP TIME INTERVAL IN 10THS OF A SECOND	
88	(58)	UNSIGNED	2	ZPCLBFSZ	TOKEN RING LAN ADAPTER BUFFER SIZE	
90	(5A)	UNSIGNED	1	ZPCLTXXM	TOKEN RING LAN ADAPTER MAXIMUM TRANSMIT BUFFER COUNT	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
91	(5B)	UNSIGNED	1	ZPCLTXMN	TOKEN RING LAN ADAPTER MINIMUM TRANSMIT BUFFER COUNT	
92	(5C)	UNSIGNED	1	ZPCINOP	OPTION TO RECEIVE DUMPS FOR INOPS	
93	(5D)	UNSIGNED	1	*	RESERVED	
94	(5E)	CHARACTER	2	*	NOT USED - AVAILABLE	
96	(60)	SIGNED	4	ZPCNTWRE	DETERMINES WHEN THE SUMMARY IOPD MESSAGES WILL BE DISPLAYED. IF THE NUMBER OF WRES IS < = THIS NUMBER, THEN THE OLD MESSAGES WILL BE USED	
100	(64)	SIGNED	4	ZPCHXSRT	XA ONLY - NUMBER OF ENTRIES IN HOST SRT DIRECTORIES	
104	(68)	SIGNED	4	ZPCXNSRT	XA ONLY - NUMBER OF ENTRIES IN SRT DIRECTORIES FOR OTHER NETWORKS	
108	(6C)	CHARACTER		ZPCEND	END OF DSECT	

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR ZPCSSMSG				
1	HEX	00	ZPCNONE	DO NOT ISSUE ADJSSCP MESSAGES IN ANY SSCP
1	HEX	01	ZPCOLU	ISSUE ADJSSCP MESSAGES IN SSCP(OLU) ONLY (DEFAULT)
1	HEX	02	ZPCALL	ISSUE ADJSSCP MESSAGES IN ALL SSCP

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTZPCON	0		1	ZPCTRSRB	2A	80	3
ZPCALIAS	1D		2	ZPCVCNT	25		2
ZPCBSNAP	2		2	ZPCVRIAB	C		2
ZPCBUFSZ	4E		2	ZPCXNSRT	68		2
ZPCCBID	0		2				
ZPCCITSZ	30		2				
ZPCCPS	3C		2				
ZPCDLUCS	1D	10	3				
ZPCDLULG	1D	08	3				
ZPCDLUOW	1D	20	3				
ZPCDLURL	1D	40	3				
ZPCEAS	34		2				
ZPCEND	6C		2				
ZPCHNTSZ	2C		2				
ZPCHSRT	26		2				
ZPCHXSRT	64		2				
ZPCINNBL	20		2				
ZPCINOP	5C		2				
ZPCINOPT	8		2				
ZPCLBFSZ	58		2				
ZPCLNGTH	1		2				
ZPCLTXMN	5B		2				
ZPCLTXMX	5A		2				
ZPCMCPBF	4		2				
ZPCMIHTM	54		2				
ZPCMLUBF	6		2				
ZPCMXBUF	50		2				
ZPCNTWRE	60		2				
ZPCOLUAL	1D	80	3				
ZPCONSRT	28		2				
ZPCPDBFS	24		2				
ZPCSASUP	38		2				
ZPCSSDTO	1E		2				
ZPCSSMSG	1C		2				
ZPCTFLG	2A		2				
ZPCTRIRB	2A	40	3				

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## **Chapter 3. VSCS Data Areas**

## Accounting Block (ACCT)

<b>Function:</b>	DTIACCT maps the accounting data that is related to a logical unit, and the accounting data is sent to CCS at logoff or disconnect time.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	64 (X'40')
<b>Additional Information:</b>	DTIACCT maps the accounting portion of DTIPLB (PLBACCT).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	DTIACCT	
0	(0)	CHARACTER	36	ACCTPLB	PRESENTATION SERVICES ACCOUNTING DATA.
0	(0)	CHARACTER	4	ACCTAOVF	OVERFLOW WORD
0	(0)	UNSIGNED	1	ACCTAOIR	ACCTANIR OVERFLOW
1	(1)	UNSIGNED	1	ACCTAOIB	ACCTANIB OVERFLOW
2	(2)	UNSIGNED	1	ACCTAOR	ACCTANOR OVERFLOW
3	(3)	UNSIGNED	1	ACCTAOOB	ACCTANOB OVERFLOW
4	(4)	SIGNED	4	ACCTANIR	NUMBER RUS FOR INPUT
8	(8)	SIGNED	4	ACCTANIB	TOTAL NUMBER INPUT BYTES
12	(C)	SIGNED	4	ACCTANOR	NUMBER RUS FOR OUTPUT
16	(10)	SIGNED	4	ACCTANOB	TOTAL NUMBER OUTPUT BYTES
20	(14)	SIGNED	4	ACCTANOL	NUMBER OF CONSOLE OUTPUT LINES
24	(18)	SIGNED	4	ACCTCOPY	NUMBER OF COPY REQUESTS ISSUED BY THIS USER
28	(1C)	CHARACTER	8	ACCTLGNT	TIMESTAMP OF LOGON
36	(24)	CHARACTER	16	*	
36	(24)	CHARACTER	8	ACCTLGFT	TIMESTAMP OF LOGOFF
44	(2C)	CHARACTER	8	ACCTLUNM	LOGICAL UNIT NAME
52	(34)	CHARACTER	12	ACCTAVAL	NOT USED - AVAILABLE
64	(40)	CHARACTER		*	TO FORCE DOUBLEWORD MULTIPLE CONTROL BLOCK LENGTH.

## Cross Reference

Name	Hex Offset	Hex Value	Level
ACCTANIB	8		3
ACCTANIR	4		3
ACCTANOB	10		3
ACCTANOL	14		3
ACCTANOR	C		3
ACCTAOIB	1		4
ACCTAOIR	0		4
ACCTAOOB	3		4
ACCTAOR	2		4
ACCTAOVF	0		3
ACCTAVAL	34		2
ACCTCOPY	18		3
ACCTLGFT	24		3
ACCTLGNT	1C		3
ACCTLUNM	2C		3
ACCTPLB	0		2
DTIACCT	0		1

## Control Block Identifiers (CBI)

<b>Function:</b>	DTICBI identifies control blocks with element headers, identifies queue headers, and defines the DTIWEB types.
<b>Located in:</b>	The element tag identifiers are the first 2 bytes of the element header (see DTIEHDR). The queue tag identifiers are the first 2 bytes of the queue header (see DTIQHDR).

### Constants

Len	Type	Value	Name	Description
<b>STORAGE MANAGER RELATED IDENTIFIERS</b>				
2	CHARACTER	FB	CBIFBQ	FREE BLOCK QUEUE TAG (SDBFBQHR).
2	CHARACTER	PB	CBIPDB	POOL DESCRIPTOR BLOCK (DTIPDB) ELEMENT TAG. (PSPDB, VSPDB,VSPDB)
2	CHARACTER	SC	CBISCB	STORAGE CONTROL BLOCK (DTISCB) ELEMENT TAG.
2	CHARACTER	SM	CBISDB	SEGMENT DESCRIPTOR BLOCK (DTISDB) ELEMENT TAG.
2	CHARACTER	SQ	CBISDBQ	SEGMENT DESCRIPTOR BLOCK QUEUE TAG (PDBSDBQH).
2	CHARACTER	SD	CBISMPD	STORAGE MANAGER PREFIX TAG FOR DYNAMIC STORAGE.
2	CHARACTER	SS	CBISMPS	STORAGE MANAGER PREFIX TAG FOR STATIC STORAGE.
2	CHARACTER	ZZ	CBISMPZ	STORAGE MANAGER PREFIX TAG THAT INDICATES STORAGE BLOCK IS NOT REALLY A DTIWEB. NO ERROR RESULTS AND PROCESSING IS SKIPPED.
<b>DTISWB (SAVE AREA/WORK BLOCK) RELATED IDENTIFIERS</b>				
2	CHARACTER	AP	CBIAPWB	DTISWB ELEMENT TAG FOR PRESENTATION SERVICES ABEND PROCESSING (DTISPSB).
2	CHARACTER	AU	CBIAUWB	DTISWB ELEMENT TAG FOR UTILITY TASK ABEND PROCESSING (DTISUTB).
2	CHARACTER	AV	CBIAVWB	DTISWB ELEMENT TAG FOR VTAM SERVICES ABEND PROCESSING (DTISVSB).
2	CHARACTER	OC	CBIOCSWB	DTISWB ELEMENT TAG FOR OPERATOR COMMUNICATION EXIT (DTIOCSWB). (VSE/AF ONLY)
2	CHARACTER	PS	CBIPSWB	DTISWB ELEMENT TAG FOR PRESENTATION SERVICES (DTIPSWB)
2	CHARACTER	PX	CBIPXWB	DTISWB ELEMENT TAG FOR COMMUNICATION SERVICES (DTICXWB)
2	CHARACTER	TX	CBITXWB	DTISWB ELEMENT TAG FOR TIMER EXIT ROUTINES (DTITXWB)
2	CHARACTER	US	CBIOUSWB	DTISWB ELEMENT TAG FOR UTILITY SERVICES (DTIOUSWB)
2	CHARACTER	VS	CBIVSWB	DTISWB ELEMENT TAG FOR VTAM SERVICES. (DTIVSWB).
2	CHARACTER	VX	CBIVXWB	DTISWB ELEMENT TAG FOR VTAM SERVICES EXIT ROUTINE (DTIVXWB).
<b>GLOBAL CONTROL BLOCK RELATED IDENTIFIERS</b>				
2	CHARACTER	AQ	CBIVANC	VLB ANCHOR QUEUE TAG
2	CHARACTER	CI	CBICIA	COMMUNICATION SERVICES COMMUNICATIONS INTERFACE AREA ELEMENT TAG
2	CHARACTER	CG	CBICGB	COMMUNICATION SERVICES GLOBAL BLOCK (DTICGB) ELEMENT TAG.
2	CHARACTER	CM	CBICMDE	COMMUNICATION SERVICES COMMAND BUFFER AREA ELEMENT TAG
2	CHARACTER	CQ	CBICMDQ	COMMUNICATION SERVICES COMMAND QUEUE ELEMENT TAG
2	CHARACTER	GC	CBIGCMQ	GLOBAL CONNECT MESSAGE QUEUE TAG. (CGBGCMQ)
2	CHARACTER	MQ	CBIMSGQ	MESSAGE QUEUE TAG (UGBMSGQ)

Len	Type	Value	Name	Description
2	CHARACTER	PA	CBIPACT	PRINTER ACTIVE TABLE ELEMENT TAG (DTIPACT).
2	CHARACTER	PD	CBIPDSB	PRESENTATION SERVICES DTIDSB ELEMENT TAG. (DTIPSDSB)
2	CHARACTER	PG	CBIPGB	PRESENTATION SERVICES GLOBAL BLOCK (DTIPGB) ELEMENT TAG.
2	CHARACTER	QD	CBIDSBQ	DTIPIB QUEUE TAG. (DSBQHDR)
2	CHARACTER	SA	CBISABE	DTISAB ELEMENT TAG
2	CHARACTER	TD	CBIGTD	GLOBAL TIMER DATA BLOCK ELEMENT TAG. (DTIGTD)
2	CHARACTER	TQ	CBITABQ	DTITAB QUEUE HEADER TAG (SABTQHDR).
2	CHARACTER	RQ	CBITARQ	DTITAB RECOVERY QUEUE HEADER TAG (SABRQHDR).
2	CHARACTER	TR	CBITRACH	TRACE HEADER ELEMENT TAG (DTITHDR)
2	CHARACTER	UG	CBIUGB	UTILITY TASK GLOBAL BLOCK (DTIUGB) ELEMENT TAG.
2	CHARACTER	VD	CBIVDSB	VTAM SERVICES DTIDSB ELEMENT TAG (DTIVDSB).
2	CHARACTER	VG	CBIVGB	VTAM SERVICES GLOBAL BLOCK ELEMENT TAG (DTIVGB).

## LOCAL CONTROL BLOCK RELATED IDENTIFIERS

2	CHARACTER	1Q	CBI1PQ	DTICLB ONE WAY SEND PENDING QUEUE TAG (CLB1SPQ).
2	CHARACTER	2Q	CBI2PQ	DTICLB TWO WAY SEND PENDING QUEUE TAG (CLB2SPQ).
2	CHARACTER	CL	CBICLB	DTICLB ELEMENT TAG
2	CHARACTER	IR	CBII SRQ	IUCV SEND RETRY QUEUE TAG (CLBISRQ).
2	CHARACTER	PW	CBIPIBW	PRESENTATION SERVICES DTIPIB WORK ELEMENT QUEUE TAG. (PIBWQHDR).
2	CHARACTER	PL	CBIPLB	PRESENTATION SERVICES LOCAL BLOCK (DTIPLB) ELEMENT TAG.
2	CHARACTER	PP	CBIPPIB	PRESENTATION SERVICES DTIPIB ELEMENT TAG. NOTE: POINTER TO PRESENTATION SERVICES DTIPIB IS IN DTITAB (TABPPIB).
2	CHARACTER	PQ	CBIPQ	LOCAL BLOCK PENDING QUEUE TAG (LBCPQH).
2	CHARACTER	RR	CBIRRRQ	RESPONSE REQUIRED REQUEST QUEUE TAG (PLBRRRQ).
2	CHARACTER	SP	CBISIPPQ	SEND-IN-PROGRESS PENDING QUEUE HEADER TAG (PLBSIPPQ)
2	CHARACTER	TA	CBITABE	DTITAB ELEMENT TAG
2	CHARACTER	CQ	CBIVCHQ	VTAM SERVICES CHAINED DATA QUEUE TAG (VLBCQHR).
2	CHARACTER	VW	CBIVIBW	VTAM SERVICES DTIPIB WORK ELEMENT QUEUE TAG (PIBWQHDR).
2	CHARACTER	VL	CBIVLB	VTAM SERVICES LOCAL BLOCK (DTIVLB) ELEMENT TAG.
2	CHARACTER	VP	CBIVPIB	VTAM SERVICES DTIPIB ELEMENT TAG. NOTE: POINTER TO VTAM SERVICES DTIPIB IS IN DTITAB (TABVPIB).

## DTIWEB RELATED ELEMENT AND QUEUE TAGS

2	CHARACTER	IN	CBIINT	DTIWEB INTERNAL TYPE
2	CHARACTER	1R	CB11WRR	DTIWEB 1 WAY IRECEIVE REPLY
2	CHARACTER	2R	CB11WRS	DTIWEB 1 WAY IRECEIVE SEND
2	CHARACTER	1S	CB11WSR	DTIWEB 1 WAY ISEND REPLY
2	CHARACTER	2S	CB11WSS	DTIWEB 1 WAY ISEND SEND
2	CHARACTER	3R	CB12WRR	DTIWEB 2 WAY IRECEIVE REPLY
2	CHARACTER	4R	CB12WRS	DTIWEB 2 WAY IRECEIVE SEND
2	CHARACTER	3S	CB12WSR	DTIWEB 2 WAY ISEND REPLY
2	CHARACTER	4S	CB12WSS	DTIWEB 2 WAY ISEND SEND
2	CHARACTER	4I	CB12INT	DTIWEB 2 WAY INTERNAL SEND

## STORAGE AVAILABLE QUEUE TAGS

2	CHARACTER	Q1	CBIQUE1	STORAGE QUEUE 1 TAG
2	CHARACTER	Q2	CBIQUE2	STORAGE QUEUE 2 TAG
2	CHARACTER	Q3	CBIQUE3	STORAGE QUEUE 3 TAG

## TIMER REQUEST QUEUE QTAGS

2	CHARACTER	TN	CBITMNL	'NOT ACCEPTED' QUEUE TAG (GTDNEXPR(1))
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Len	Type	Value	Name	Description
2	CHARACTER	T1	CBITMM10	'MORE 10' QUEUE TAG (GTDNEXPR(2))
2	CHARACTER	T5	CBITMM50	'MORE 50' QUEUE TAG (GTDNEXPR(3))
2	CHARACTER	T6	CBITMF60	'FULL SCREEN 60 SECOND TIMER' QUEUE TAG (GTDNEXPR(4))
2	CHARACTER	TC	CBITMCPY	FOR PF COPY REQUESTS
2	CHARACTER	TP	CBITMPRT	FOR REQUESTS TO RELEASE A PRINTER PER RELREQ
2	CHARACTER	TK	CBITMKPA	TWX MULTIPLE ATTENTION INTERVAL
VIRTUAL EXTERNAL INTERRUPT BLOCK TAGS.				
2	CHARACTER	VE	CBIVEIB	DTIVEIB ELEMENT ETAG
2	CHARACTER	VQ	CBIVEIBQ	DTIVEIB QUEUE TAG (CGBVQH).

## Communication Services Global Block (CGB)

<b>Function:</b>	DTICGB contains global communication services information, which represents the VSCS to CCS IUCV connection.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	48 (X'30')
<b>Located in:</b>	DTIISDA1.

### Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	48	DTICGB	
0	(0)	CHARACTER	8	CGBEHDR	DTICGB ELEMENT HEADER
8	(8)	CHARACTER	8	CGBVQH	VEIB QUEUE HEADER
16	(10)	CHARACTER	8	CGBGCMQ	GLOBAL CONNECT MESSAGE QUEUE HEADER.
24	(18)	ADDRESS	4	CGBPIDIA	PATHID TABLE ADDRESS
28	(1C)	ADDRESS	4	*	NOT USED - AVAILABLE
32	(20)	SIGNED	4	CGBPITNE	NUMBER ENTRIES IN PATHID TABLE
36	(24)	BITSTRING	4	CGBGCECB	GLOBAL CONNECT ECB
40	(28)	SIGNED	2	CGBCPID	GLOBAL CONNECT PATHID
42	(2A)	SIGNED	2	CGBIEIBS	IUCV EIB SIZE
44	(2C)	CHARACTER	1	CGBVSID	VSCS RELEASE ID
45	(2D)	CHARACTER	3	*	NOT USED - AVAILABLE
48	(30)	CHARACTER	*	*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

### Cross Reference

Name	Hex Offset	Hex Value	Level
CGBCPID	28		2
CGBEHDR	0		2
CGBGCECB	24		2
CGBGCMQ	10		2
CGBIEIBS	2A		2
CGBPIDIA	18		2
CGBPITNE	20		2
CGBVQH	8		2
CGBVSID	2C		2
DTICGB	0		1

---

## Command Interface Area (CIA)

<b>Function:</b>	DTICIA contains the operator communication interface and queue used by utility services to process all VSCS operator commands.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	32 (X'20')
<b>Located in:</b>	DTISLCMD.
<b>Pointed to by:</b>	UGBCIA (DTIUGB)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	DTICIA	COMMAND INTERFACE AREA
0	(0)	CHARACTER	8	CIAEHDR	DTICIA ELEMENT HEADER
8	(8)	CHARACTER	8	CIAQHDR	COMMAND QUEUE
8	(8)	CHARACTER	4	CIATAG	QUEUE IDENTIFIER
12	(C)	ADDRESS	4	CIACMDQ	QUEUE HEADER
16	(10)	SIGNED	4	CIACECB	INITIALIZATION COMPLETE ECB
20	(14)	SIGNED	4	CIATECB	TERMINATION ECB
24	(18)	SIGNED	4	CIAWECB	WAKEUP ECB
28	(1C)	CHARACTER	4	CIAMTCB	VSCS MAIN TASKID

## Communication Services Local Block (CLB)

<b>Function:</b>	DTICLB contains communication services data relating to a logical unit.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	40 (X'28').
<b>Pointed to by:</b>	TABCLB in DTITAB

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	40	DTICLB	IUCV RELATED DATA
0	(0)	CHARACTER	8	CLBEHDR	DTICLB ELEMENT HEADER
8	(8)	CHARACTER	8	CLB1SPQ	1 WAY SEND PENDING QUEUE (1WSPQ)
16	(10)	CHARACTER	8	CLB2SPQ	2 WAY SEND PENDING QUEUE (2WSPQ)
24	(18)	CHARACTER	8	CLBISRQ	IUCV SEND RETRY QUEUE HEADER
32	(20)	ADDRESS	2	CLBPIUCV	PATHID FOR VM/VSCS REQUESTS.
34	(22)	BITSTRING	2	CLBPCP	PATHID CP USES FOR CP REQUESTS AND WE USE FOR TRACING.
36	(24)	SIGNED	2	CLBMSGL	IUCV MESSAGE LIMIT STORED AT CONNECT TIME.
38	(26)	SIGNED	2	*	NOT USED - AVAILABLE
40	(28)	CHARACTER		*	TO FORCE DOUBLEWORD MULTIPLE LENGTH OF CONTROL BLOCK.

### Cross Reference

Name	Hex Offset	Hex Value	Level
CLBEHDR	0		2
CLBISRQ	18		2
CLBMSGL	24		2
CLBPCP	22		2
CLBPIUCV	20		2
CLB1SPQ	8		2
CLB2SPQ	10		2
DTICLB	0		1

---

## Command Buffer Area (CMD)

<b>Function:</b>	DTICMD maps the command buffer area, which contains data entered by the operator.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	138 (X'8A')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	138	DTICMD	COMMAND BUFFER AREA
0	(0)	CHARACTER	8	CMDEHDR	DTICMD ELEMENT HEADER
8	(8)	CHARACTER	130	CMDBUF	COMMAND AREA

## Copied Transmit Buffer (CMT)

<b>Function:</b>	DTICMT contains information and data to be transmitted to a logical unit for SCHED=Y processing.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	56 (X'38')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	56	DTICMT	
0	(0)	CHARACTER	8	CMTWEB	DUMMY HEADER FOR DTIWEB
8	(8)	ADDRESS	4	CMTBUDA	XMIT BUFFER UNUSED ADDR (DOWN)
12	(C)	ADDRESS	4	CMTBUUA	XMIT BUFFER UNUSED ADDRESS (UP)
16	(10)	ADDRESS	4	CMTASLLC	ADDRESS OF THE START OF THE LOGICAL LINE CHAIN.
20	(14)	ADDRESS	4	CMTALLLC	ADDRESS OF LAST LINE IN LOGICAL LINE CHAIN.
24	(18)	SIGNED	4	CMTBL	XMIT BUFFER LENGTH
28	(1C)	SIGNED	4	CMTBULD	XMIT BUFFER UNUSED LENGTH (DOWN)
32	(20)	SIGNED	4	CMTBULU	XMIT BUFFER UNUSED LENGTH (UP)
36	(24)	ADDRESS	4	CMTVSRUA	RU STARTING ADDRESS FOR VTAM SERVICES.
40	(28)	SIGNED	4	CMTVSRUL	RU LENGTH FOR VTAM SERVICES
44	(2C)	CHARACTER	1	CMTTYPE	TYPE OF DTICMT BUFFER
45	(2D)	CHARACTER	1	CMTFLG1	
		1... ..		CMTCD	CHANGE DIRECTION (TURNAROUND) FOR START/STOP PROTOCOL - YES=1
		.1. ....		CMTRSHOW	REDISPLAY IN TRANSMIT BUFFER - YES = 1.
		..1. ....		CMTMSG	PRIORITY MESSAGE IN TRANSMIT BUFFER - YES = 1.
		...1 ....		CMTDIAG	CMS DIAGNOSE IN THE TRANSMIT BUFFER - YES = 1.
		.... 1..		CMTLRU	LOGO RU, ALLOW INTERVENTION REQUIRED FOR THIS SEND - YES = 1
		.... .1..		CMTATTN	ATTENTION WRITE IN THE TRANSMIT BUFFER - YES = 1.
		.... ..1.		CMTINPT	INPUT EXPECTED FOR THIS SEND - YES = 1.
		.... ...1		CMTPWMSK	PASSWORD MASK WRITE IS IN TRANSMIT BUFFER
46	(2E)	CHARACTER	1	CMTFLG2	SECOND FLAG BYTE
		1... ..		*	RESERVED
		.1. ....		CMTERCMT	DTIXMT IS JUST A COPY
		..1. ....		CMTERERR	ERROR RETRY NECESSARY
		...1 ....		CMTERPSL	PRESENTATION SPACE LOST
		.... 1..		CMTLMPEO	LMPEO SEND WAS ISSUED
		.... .111		*	RESERVED
47	(2F)	CHARACTER	1	CMTSTATE	PLB LBCSTATE WHEN BUILT
48	(30)	ADDRESS	4	CMTPAIRA	RESERVED - WEBPAIR ADDRESS FIELD
52	(34)	UNSIGNED	2	CMTSEQ1	FIRST OR ONLY SEQUENCE NUMBER
54	(36)	UNSIGNED	2	CMTSEQ2	LAST SEQUENCE NUMBER

## Constants

Len	Type	Value	Name	Description
1	CHARACTER	D	CMTCMS	DTICMT BUFFER TYPE = CMS (DIAGNOSE).
1	CHARACTER	C	CMTCONSL	DTICMT BUFFER TYPE = CONSOLE
1	CHARACTER	P	CMTCOPY	DTICMT BUFFER TYPE = COPY (PRINTER).
1	CHARACTER	L	CMTCPYLU	DTICMT BUFFER TYPE = COPY LUNAME
1	CHARACTER	F	CMTFSSM	DTICMT BUFFER TYPE = FULL SCREEN SUPPORT MODE.
1	CHARACTER	W	CMTWSF	DTICMT BUFFER TYPE = WRITE STRUCTURED FIELD
2	DECIMAL	64	CMTUPLEN	LENGTH OF XMIT BUFFER UNUSED UP BEFORE ANY CONTROL BYTES ADDED

## Cross Reference

Name	Hex Offset	Hex Value	Level
CMTALLC	14		2
CMTASLLC	10		2
CMTATTN	2D	04	3
CMTBL	18		2
CMTBUDA	8		2
CMTBULD	1C		2
CMTBULU	20		2
CMTBUUA	C		2
CMTCD	2D	80	3
CMTDIAG	2D	10	3
CMTERCMT	2E	40	3
CMTERERR	2E	20	3
CMTERPSL	2E	10	3
CMTFLG1	2D		2
CMTFLG2	2E		2
CMTINPT	2D	02	3
CMTLMPEO	2E	08	3
CMTLRU	2D	08	3
CMTPAIRA	30		2
CMPMSG	2D	20	3
CMPWMSK	2D	01	3
CMTRSHOW	2D	40	3
CMTSEQ1	34		2
CMTSEQ2	36		2
CMTSTATE	2F		2
CMTTYPE	2C		2
CMTVSRUA	24		2
CMTVSRUL	28		2
CMTWEB	0		2
DTICMT	0		1

## Global Constants (CODE)

**Function:** DTICODE provides consistent names for global values.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
STRUCTURE USED IN BUILDING A WRITE CONTROL CHARACTER					
0	(0)	STRUCTURE	8	DSOWCC	
		1... ....		DSOWNEON	OTHER BITS IN DSOWCC ON - YES=1.
		.111 1...		*	RESERVED
		.... .1..		DSOWRING	RING AUDIBLE ALARM - YES = 1.
		.... ..1.		DSOWUNLK	UNLOCK KEYBOARD - YES = 1.
		.... ...1		DSOWRMDT	RESET MODIFY DATA TAGS - YES=1.

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	1	DTYPEDSP	DEVICE TYPE = DISPLAY
1	DECIMAL	2	DTYPEKPK	DEVICE TYPE = KEYBOARD/PRINTER
1	DECIMAL	3	DTYPEPRT	DEVICE TYPE = PRINTER
FOLLOWING ARE DEVICE SUB-TYPES FOR KEYBOARD/PRINTERS				
1	DECIMAL	1	VDEV3767	SUB-TYPE = 3767
1	DECIMAL	2	VDEV2741	SUB-TYPE = 2741
1	DECIMAL	3	VDEVTWX	SUB-TYPE= TWX/TTY/3101
DUMP CONSTANTS				
4	DECIMAL	-99999999	DUMP	DUMP
4	DECIMAL	-88888888	NODUMP	DO NOT DUMP
TYPE OF DATA SENT TO INTERNAL TRACE ROUTINE				
4	CHARACTER	WEB	TYPEWEB	TYPE DATA = DTIWEB
4	CHARACTER	DATA	TYPEDATA	TYPE DATA = DATA
4	CHARACTER	DATA	TYPEVDAT	TYPE DATA = DATA
4	CHARACTER	DISP	TYPEDISP	TYPE DATA = DISPATCHER
4	CHARACTER	VXIT	TYPEVXIT	TYPE DATA = VTAM EXIT
4	CHARACTER	RROR	TYPERROR	TYPE DATA = ERROR REQUEST
4	CHARACTER	DATT	TYPEDAT	TYPE = I/O WEBDATA TRACE
4	CHARACTER	FREB	TYPEFRE	TYPE = DTISFREB TRACE
4	CHARACTER	GETB	TYPEGET	TYPE = DTISGETB TRACE
COPY MESSAGE TYPE				
1	DECIMAL	6	CTYPBUSY	PRINTER BUSY
1	DECIMAL	7	CTYPNTAV	PRINTER NOT AVAILABLE
1	DECIMAL	8	CTYPINTR	INTERVENTION REQUIRED
1	DECIMAL	0	CTYPNONE	NO COPY BEING DONE
TASK IDENTIFIERS				
2	CHARACTER	PS	TASKPS	PRESENTATION SERVICES
2	CHARACTER	VS	TASKVS	VTAM SERVICES
2	CHARACTER	UT	TASKUT	UTILITY TASK
4	DECIMAL	0	RCZERO	RETURN CODE 0 - SUCCESSFUL. SUCCESSFUL COMPLETION OF REQUESTED PROCESS.
4	DECIMAL	4	RCWARN4	RETURN CODE 4 - WARNING PROCESS MAY NOT HAVE BEEN DONE BUT NO ERROR CONDITION HAS RESULTED.
4	DECIMAL	8	RCERR8	RETURN CODE 8 - ERROR FUNCTION FAILED. CALLER DETERMINES RECOVERY.
4	DECIMAL	12	RCERR12	RETURN CODE 12 - ERROR. CONTROL BLOCK ERROR CAUSED FUNCTION TO FAIL. CALLER DETERMINES RECOVERY.



Len	Type	Value	Name	Description
4	DECIMAL	16	RCERR16	RETURN CODE 16 - ERROR OCCURRED. PURGE INITIATED. NO RECOVERY. CALLER RETURNS RETURN CODE TO CALLING MODULE DTIPSTAM PROCESSES REMAINING DTIWEB(S) FOR LU.
4	DECIMAL	16	RCPRGI	SAME AS RCERR16.
4	DECIMAL	20	RCPRGC	RETURN CODE 20 - ERROR OCCURRED. PURGE COMPLETED. NO RECOVERY. CALLER RETURNS RETURN CODE TO CALLING MODULE AND EVENTUALLY TO DTIPSTAM THEN THE DISPATCHER.
4	DECIMAL	24	RCTABF	RETURN CODE 24 - ERROR DTITAB FREED. NO RECOVERY. CALLER RETURNS RETURN CODE TO CALLING MODULE AND EVENTUALLY TO DTIPSTAM THEN THE DISPATCHER. PROCESS CONTINUES WITH NEXT DTIPIB ON DTIDSB DTIPIB QUEUE
4	DECIMAL	28	RCIQUIT	RETURN CODE 28 - ERROR DTIIQUIT ABNORMAL NO RECOVERY. CALLER RETURNS RETURN CODE TO CALLING MODULE AND EVENTUALLY TO DTIPSTAM THEN THE DISPATCHER, THEN DTISDST0. APPLICATION TERMINATES.

TIMER REQUEST CATEGORIES AND TIMER INTERVAL

4	DECIMAL	1	TIMERNAL	'NOT ACCEPTED'
4	DECIMAL	2	TIMERM10	'MORE 10'
4	DECIMAL	3	TIMERM50	'MORE 50'
4	DECIMAL	4	TIMERF60	FULL SCREEN 60 SECOND TIMER
4	DECIMAL	5	TIMERCPY	WAITING FOR SIMLOGON FOR A PRINTER NOT LOGGED ON
4	DECIMAL	5	TIMERSTR	TIME PERIOD TO WAIT BEFORE CHECKING THE DTIPDBS FOR EXTRA SEGMENTS
4	DECIMAL	6	TIMERPRT	TIME PERIOD TO WAIT FROM LAST COPY OPERATION BEFORE RELEASING THE PRINTER TO ANOTHER APPLICATION
4	DECIMAL	6	TIMERFRE	TIME PERIOD TO WAIT BEFORE FREEING EXTRA SEGMENTS
4	DECIMAL	7	TIMERKPA	KEYBOARD/PRINTER ATTENTION TIMER TO DISTINGUISH BETWEEN SINGLE AND DOUBLE ATTENTIONS

NOTE: TIMERMAX MUST EQUAL NUMBER OF TIMER REQUEST CATEGORIES.

4	DECIMAL	7	TIMERMAX	NUMBER OF TIMER REQUEST CATEGORIES
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VTAM RETURN CODES

4	DECIMAL	0	VRCZERO	SUCCESSFUL
4	DECIMAL	4	VRCRECY	RECOVERY POSSIBLE
4	DECIMAL	8	VRCTEMP	TEMPORARY ERROR
4	DECIMAL	12	VRCPERM	PERMANENT ERROR
4	DECIMAL	16	VRCNCON	NO CONNECTION
4	DECIMAL	20	VRCNAUT	NOT AUTHORIZED
4	DECIMAL	24	VRCLGIC	REQUEST INVALID
4	DECIMAL	30	VRCRTURN	

STORAGE REQUEST CATEGORIES

2	DECIMAL	1	PSRQST	PRESENTATION SERVICES REQUEST
2	DECIMAL	3	VSEXRQST	VTAM SERVICES EXIT REQUEST
2	DECIMAL	2	VSRQST	VTAM SERVICES REQUEST

NOTE: MAXNRQST MUST EQUAL NUMBER OF STORAGE REQUEST CATEGORIES.

2	DECIMAL	3	MAXNRQST	NUMBER OF STORAGE REQUEST CATEGORIES.
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ON/OFF AND YES/NO VALUES FOR SINGLE BIT VARIABLES

0	BIT	1	BITON	BIT VALUE = ON
0	BIT	0	BITOFF	BIT VALUE = OFF
0	BIT	1	BITYES	BIT VALUE = YES
0	BIT	0	BITNO	BIT VALUE = NO

ON/OFF AND YES/NO VALUES FOR SINGLE BYTE VARIABLES

1	CHARACTER	Y	BYTEYES	VALUE = YES
1	CHARACTER	N	BYTEN0	VALUE = NO

Len	Type	Value	Name	Description
4	CHARACTER	STRT	STRT	START HIGHLIGHTING
4	CHARACTER	END	HEND	END HIGHLIGHTING
4	CHARACTER	STEN	STEN	START AND END HIGHLIGHTING
<b>PRIORITY FLAGS</b>				
4	CHARACTER	PYES	PRIOYES	PRIORITY = YES
4	CHARACTER	PNO	PRIONO	PRIORITY = NO
<b>INTERRUPTS ENABLED/DISABLED</b>				
4	CHARACTER	ENAB	ENABLED	ENABLED FOR INTERRUPTS
4	CHARACTER	DISB	DISABLED	DISABLED FOR INTERRUPTS
1	HEX	02	VSCSLVL1	VSCS V3R11
1	HEX	03	VSCSLVL2	VSCS V3R12
1	HEX	04	VSCSLVL3	VSCS V3R2
1	HEX	05	VSCSLVL	VSCS V3R3
<b>DEQUEUE TYPES</b>				
4	CHARACTER	LIFO	LIFO	LIFO DEQUEUE
4	CHARACTER	FIFO	FIFO	FIFO DEQUEUE
4	CHARACTER	SPEC	SPECIFIC	SPECIFIC DEQUEUE
4	CHARACTER	TEST	TEST	TEST DEQUEUE
<b>3270 ORDER CODES</b>				
1	HEX	42	DSOCOLOR	COLOR
1	HEX	7D	DSOENTER	PHYSICAL AID FOR ENTER KEY
1	HEX	12	DSOEUA	ERASE UNPROTECTED TO ADDRESS
1	HEX	F5	DSOEW	ERASE/WRITE
1	HEX	7E	DSOEWA	ERASE/WRITE ALTERNATE
1	HEX	41	DSOHILI	HIGHLIGHTING
1	HEX	13	DSOIC	INSERT CURSOR
1	HEX	2C	DSOMF	MODIFY FIELD
1	HEX	E6	DSOMGCRD	PHYSICAL AID FOR MAGNETIC CARD
1	HEX	15	DSOHL	NEW LINE
1	HEX	3C	DSORA	REPEAT TO ADDRESS
1	HEX	F2	DSORDB	READ BUFFER
1	HEX	F6	DSORDM	READ MODIFIED
1	HEX	28	DSOSA	SET ATTRIBUTE
1	HEX	11	DSOSBA	SET BUFFER ADDRESS
1	HEX	1D	DSOSF	START FIELD
1	HEX	29	DSOSFE	START FIELD EXTENDED
1	HEX	F1	DSOWRITE	WRITE
1	HEX	F3	DSOWSF	WRITE STRUCTURED FIELD
1	HEX	81	DSOWSFRQ	WRITE STRUCTURED FIELD REPLY TO QUERY & USEABLE AREA
1	HEX	85	DSOWSPSS	WRITE STRUCTURED FIELD REPLY TO QUERY & PROGRAM SYMBOL SETS
1	HEX	86	DSOWSFRFC	WRITE STRUCTURED FIELD COLOR TYPE.
1	HEX	A6	DSOWSFIP	IMPLICIT PARTITION
1	HEX	01	DSOWSFSZ	IMPLICIT PARTITION SCREEN SIZE SELF DEFINING PARAMETER
1	HEX	87	DSOWSFRH	WRITE STRUCTURED FIELD HIGHLIGHT TYPE.
1	HEX	88	DSOWSFA	WRITE STRUCTURED FIELD
6	HEX	F3000501FF02	DSOWSFQY	WRITE STRUCTURED FIELD -- QUERY COMMAND
12	HEX	F300084000F1C2000501FF02	DSOWSFD	3270DS STRUCTURED FIELD CONTAINING A WRITE WITH KEYBOARD RESTORE AND A WSF READ QUERY COMMAND
6	HEX	00064000F1C2	DSOO37DS	OUTBOUND 3270DS STRUCTURED FIELD
3	HEX	0F0200	DSOWSFD0	WSF DESTINATION/ ORIGIN CMD TO ENABLE INPUT
2	HEX	0F1F	DSOWSF0M	WSF OEM DATA STRUCTURED FIELD
<b>KEYBOARD/PRINTER DEVICE ORDERS</b>				
2	HEX	0D25	DSOCRLF	
1	HEX	3C	DSOXOFF	XOFF
2	HEX	3C17	DSOXOFFR	XOFF,RUBOUT
1	HEX	0D	DSOCR	
1	HEX	25	DSOLF	
1	HEX	2F	DSOBELL	
1	HEX	37	DSOEOT	END OF TRANS

Len	Type	Value	Name	Description
1	HEX	16	DSOBS	BACKSPACE

ADVANTAGE II - CONSTANTS USED BY OR PASSED TO DTIPDMP TO  
 DETERMINE OUTPUT CHARACTERISTICS.

1	HEX	01	DMAPCPO	CP OUTPUT
1	HEX	02	DMAPVMO	VM OUTPUT
1	HEX	03	DMAPINR	INPUT REDISPLAY
1	HEX	04	DMAPINA	INPUT ACCEPTED
1	HEX	05	DMAPSTA	STATUS AREA
1	HEX	01	DMAPMIN	LOWER LIMIT
1	HEX	05	DMAPMAX	UPPER LIMIT
4	CHARACTER	FRST	FIRSTLNE	FIRST LINE OF WRITE
4	CHARACTER	NOTF	NOTFIRST	ANY LINE AFTER FIRST LINE OF WRITE, NOT LAST.
4	CHARACTER	LAST	LASTLNE	LAST LINE OF WRITE

CONSTANTS, SIMPLE

SIMPLE CONSTANTS ARE THOSE THAT NAME VALUES, I.E. ZERO, ONE, TWO, ETC., BUT DO NOT HAVE A PARTICULAR USE THE REST OF THE CONSTANTS DECLARED ABOVE HAVE.

NAMING CONVENTION FOR SIMPLE CONSTANTS:

1. CONSTANT NAME FOLLOWED BY:

2. TYPE INDICATOR, FOLLOWED BY:

TYPE INDICATORS ARE ONE OF THE FOLLOWING SINGLE CHARACTER CODES:

B BIT P POINTER

F FIXED C CHARACTER

3. LENGTH (AS SPECIFIED IN DECLARATION).

1	HEX	00	ZEROB8	ZERO
1	DECIMAL	0	ZEROF8	ZERO
2	DECIMAL	0	ZEROF15	ZERO
4	DECIMAL	0	ZEROF31	ZERO
4	DECIMAL	0	ZEROP31	ZERO
1	DECIMAL	1	ONEF8	ONE
1	DECIMAL	2	TWOF8	TWO

## Dump Formatter Control Block (DFC)

<b>Function:</b>	DTIDFC contains information obtained from the dump being processed and is used by all VSCS dump formatting modules.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	1520 (X'5F0')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1520	DTIDFC	COMMON FIELDS FOR DUMP FORMATTER
0	(0)	CHARACTER	8	DFCIDCB	DTIDFC ID DOUBLE WORD
8	(8)	ADDRESS	4	DFCBADDR	ADDRESS OF CONTROL BLOCK IN THE DUMP(VIRTUAL ADDRESS)
12	(C)	ADDRESS	4	DFCBLNGH	SIZE OF CONTROL BLOCK
16	(10)	ADDRESS	4	DFCPTRNA	ADDRESS OF CONTROL BLOCK PATTERN TO USE
20	(14)	ADDRESS	4	DFCEXOFF	WORK POINTER USED TO SEARCH FOR MODULE NAMES
24	(18)	ADDRESS	4	DFCBCUP	WORK POINTER FOR SEARCHING DTISWB'S
28	(1C)	ADDRESS	4	DFCBADAD	DUMP ADDRESS REQUESTED IF THE REQUEST FAILED
32	(20)	ADDRESS	4	DFCISTR	ADDRESS OF FIRST MODULE
36	(24)	ADDRESS	4	DFCIADDR	WORK POINTER FOR DATA CONVERSION
40	(28)	ADDRESS	4	DFCOADDR	WORK POINTER FOR DATA CONVERSION
44	(2C)	ADDRESS	4	DFCSWBRP	SAVE AREA FOR DTISWB REAL ADDRESS
48	(30)	ADDRESS	4	DFCSWBVP	SAVE AREA FOR DTISWB VIRTUAL ADDRESS
52	(34)	ADDRESS	4	DFCPMADR	ADDRESS OF DTIPRM ADDRESS
56	(38)	ADDRESS	4	DFCISDA2	ADDRESS OF DTIISDA2
60	(3C)	SIGNED	2	DFCLNCNT	CURRENT PAGE LINE COUNT
62	(3E)	UNSIGNED	2	DFCPGCNT	NEXT PAGE NUMBER
64	(40)	SIGNED	4	DFCGTCNT	NUMBER OF CALLS FOR STORAGE
68	(44)	SIGNED	4	DFCPTCNT	NUMBER OF PRINT REQUESTS
72	(48)	SIGNED	4	DFCMXCNT	MAXIMUM NUMBER OF LU'S LOGGED ON TO VSCS AT ANY ONE TIME
76	(4C)	SIGNED	4	DFCURCNT	CURRENT NUMBER OF LU'S LOGGED ON TO VSCS
80	(50)	SIGNED	2	DFCBLCNT	BLANK LINE COUNT
82	(52)	SIGNED	2	DFCISLEN	NUMBER OF CHARACTERS TO INSERT
<b>STORAGE MANAGER ADDRESSES</b>					
84	(54)	CHARACTER	20	DFCSTORE	STORAGE MANAGER ADDRESSES
84	(54)	ADDRESS	4	DFCVPTR	VIRTUAL ADDRESS IN CORE
88	(58)	ADDRESS	4	DFCVCUR	VIRTUAL WORK ADDRESS
92	(5C)	ADDRESS	4	DFCVPTRE	LAST VIRTUAL BYTE AVAILABLE
96	(60)	ADDRESS	4	DFCRPTR	LOCATION OF VIRTUAL STORAGE
100	(64)	ADDRESS	4	DFCRPTRE	LOCATION OF LAST BYTE
<b>VIRTUAL ADDRESSES FOR CONTROL BLOCKS IN THIS DUMP</b>					
104	(68)	CHARACTER	408	DFCPOINT	ADDRESSES FROM THE DUMP
104	(68)	ADDRESS	4	DFCSLTAB	SELECTIVE LU TAB
104	(68)	CHARACTER	1	*	RESERVED
105	(69)	ADDRESS	3	DFCSETAB	SELECT TAB ADDRESS
108	(6C)	ADDRESS	4	DFCVSRPL	VTAM RPL ADDRESS
108	(6C)	CHARACTER	1	*	RESERVED
109	(6D)	ADDRESS	3	DFCVERPL	SELECT RPL ADDRESS
112	(70)	ADDRESS	4	DFCPATHN	NUMBER OF PATHIDS
116	(74)	CHARACTER	4	DFCPTPAR	IUCV PATH ID PAIR
116	(74)	CHARACTER	2	DFCVSPID	VSCS PATHID
118	(76)	CHARACTER	2	DFCCPID	CP PATHID
120	(78)	CHARACTER	4	DFCVTCID	VTAM CID PAIR
124	(7C)	ADDRESS	4	DFCERPTR	VIRTUAL ADDRESS OF ERROR SAVEAREA ADDRESS
128	(80)	ADDRESS	4	DFCSCBPT	VIRTUAL ADDRESS OF DTISCB
132	(84)	ADDRESS	4	DFCGBPTR	VIRTUAL ADDRESS OF DTICGB
136	(88)	ADDRESS	4	DFCIAPTR	VIRTUAL ADDRESS OF DTICIA
140	(8C)	ADDRESS	4	DFCLBPTR	VIRTUAL ADDRESS OF DTICLB
144	(90)	ADDRESS	4	DFCMDPTR	VIRTUAL ADDRESS OF DTICMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
148	(94)	ADDRESS	4	DFCURSDB	VIRTUAL ADDRESS OF CURSDB
152	(98)	ADDRESS	4	DFCSBPTR	VIRTUAL ADDRESS OF DTIDSB
156	(9C)	ADDRESS	4	DFCTDPTR	VIRTUAL ADDRESS OF DTIGTD
160	(A0)	ADDRESS	4	DFCTEPT	VIRTUAL ADDRESS OF DTIPACTE
164	(A4)	ADDRESS	4	DFCCTNUM	NUMBER OF PACT ENTRIES
168	(A8)	ADDRESS	4	DFCCTPTR	VIRTUAL ADDRESS OF DTIPACT
172	(AC)	ADDRESS	4	DFCPDBPT	VIRTUAL ADDRESS OF DTIPDB
176	(B0)	ADDRESS	4	DFCPGBPT	VIRTUAL ADDRESS OF DTIPGB
180	(B4)	ADDRESS	4	DFCPIBPT	VIRTUAL ADDRESS OF DTIPIB
184	(B8)	ADDRESS	4	DFCPLBPT	VIRTUAL ADDRESS OF DTIPLB
188	(BC)	ADDRESS	4	DFCPTHPT	VIRTUAL ADDRESS OF PATH TAB
192	(C0)	ADDRESS	4	DFCRPLPT	VIRTUAL ADDRESS OF RPL
196	(C4)	ADDRESS	4	DFCSABPT	VIRTUAL ADDRESS OF DTISAB
200	(C8)	ADDRESS	4	DFCSAQPT	DTISAB TAB QUEUE HEADER
204	(CC)	ADDRESS	4	DFCSARPT	DTISAB TAB RECOVERY QUEUE
208	(D0)	ADDRESS	4	DFCVTAPT	VSCS OPERATOR DTITAB
212	(D4)	ADDRESS	4	DFCSDBPT	VIRTUAL ADDRESS OF DTISDB
216	(D8)	ADDRESS	4	DFCSWBPT	VIRTUAL ADDRESS OF DTISWB
220	(DC)	ADDRESS	4	DFCTBPTR	VIRTUAL ADDRESS OF DTITAB
224	(E0)	ADDRESS	4	DFCTHPTR	VSCS TRACE TABLE ADDRESS
228	(E4)	ADDRESS	4	DFCTCPTR	VSCS CURRENT TRACE POINTER
232	(E8)	ADDRESS	4	DFCTSPT	VSCS FIRST TRACE ENTRY
236	(EC)	ADDRESS	4	DFCTLPTR	VSCS LAST TRACE ENTRY
240	(F0)	ADDRESS	4	DFCUGBPT	VIRTUAL ADDRESS OF DTIUGB
244	(F4)	ADDRESS	4	DFCVGBPT	VIRTUAL ADDRESS OF DTIVGB
248	(F8)	ADDRESS	4	DFCVLBPT	VIRTUAL ADDRESS OF DTIVLB
252	(FC)	ADDRESS	4	DFCWAPTR	VIRTUAL ADDRESS OF VTAM WA
256	(100)	SIGNED	2	DFCVWALN	LENGTH OF VTAM WORK AREA
258	(102)	SIGNED	2	*	RESERVED
260	(104)	ADDRESS	4	DFCARPLN	NUMBER OF VTAM RECEIVE RPLS
264	(108)	ADDRESS	4	DFCWAACB	ADDRESS OF THE VTAM ACB
268	(10C)	ADDRESS	4	DFCALRPL	ADDRESS OF THE LOGON RPL
272	(110)	ADDRESS	4	DFCASRPL	ADDRESS OF THE SKELETON RPL
276	(114)	ADDRESS	4	DFCWARPL (16)	ADDRESS OF RPL
340	(154)	ADDRESS	4	DFCEBPTR	VIRTUAL ADDRESS OF DTIWEB
344	(158)	ADDRESS	4	*	RESERVED
348	(15C)	ADDRESS	4	*	RESERVED
352	(160)	ADDRESS	4	*	RESERVED

VIRTUAL ADDRESSES FOR LU WORK ELEMENTS IN THIS DUMP

356	(164)	CHARACTER	156	DFCARRY	ARRAY OF DTIWEB, DTIXMT AND DTIVEIB ADDRESSES
356	(164)	ADDRESS	4	DFCTXRYD	TABQRYD WORK ELEMENT ADDRESS
360	(168)	ADDRESS	4	DFCTXGDA	TABLGDA WORK ELEMENT ADDRESS
364	(16C)	ADDRESS	4	DFCTTMR1	TABTMNAL WORK ELEMENT ADDRESS
368	(170)	ADDRESS	4	DFCTTMR2	TABTMM10 WORK ELEMENT ADDRESS
372	(174)	ADDRESS	4	DFCTTMR3	TABTMM50 WORK ELEMENT ADDRESS
376	(178)	ADDRESS	4	DFCTTMR4	TABTMM60 WORK ELEMENT ADDRESS
380	(17C)	ADDRESS	4	DFCTTMR5	TABTMCPY WORK ELEMENT ADDRESS
384	(180)	ADDRESS	4	DFCTTMR6	TABTMPRT WORK ELEMENT ADDRESS
388	(184)	ADDRESS	4	DFCTTMR7	TABTMKPA WORK ELEMENT ADDRESS
392	(188)	ADDRESS	4	DFCPQHDR	PS WORK QUEUE ELEMENT ADDRESS
396	(18C)	ADDRESS	4	DFCVQHDR	VS WORK QUEUE ELEMENT ADDRESS
400	(190)	ADDRESS	4	DFCPCPQH	PS LBCPQH WORK ELEMENT
404	(194)	ADDRESS	4	DFCPXRRQ	PLBRRRQ QUEUE WORK ELEMENT
408	(198)	ADDRESS	4	DFCBXPPQ	PLBSIPPQ WORK ELEMENT
412	(19C)	ADDRESS	4	DFCBXXBA	PLBXBA WORK ELEMENT ADDRESS
416	(1A0)	ADDRESS	4	DFCBXSND	PLBVSND WORK ELEMENT ADDRESS
420	(1A4)	ADDRESS	4	DFCXCTAB	PLBOCTAB WORK ELEMENT ADDRESS
424	(1A8)	ADDRESS	4	DFCBXRPW	PLBRDPW WORK ELEMENT ADDRESS
424	(1A8)	CHARACTER	4	DFCBXRP	PLBRDPW FIELD
428	(1AC)	ADDRESS	4	DFCBYRPW	PLBRDPW2 WORK ELEMENT ADDRESS
432	(1B0)	ADDRESS	4	DFCXATTI	PLBIATTI WORK ELEMENT ADDRESS
436	(1B4)	ADDRESS	4	DFCXFRPW	PLBIFRPW WORK ELEMENT ADDRESS
440	(1B8)	ADDRESS	4	DFCXFSIW	PLBIFSIW WORK ELEMENT ADDRESS
444	(1BC)	ADDRESS	4	DFCXFSBW	PLBIFSBW WORK ELEMENT ADDRESS
448	(1C0)	ADDRESS	4	DFCB1XPQ	CLB1SPQ WORK ELEMENT ADDRESS
452	(1C4)	ADDRESS	4	DFCB2XPQ	CLB2SPQ WORK ELEMENT ADDRESS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
456	(1C8)	ADDRESS	4	DFCBXRQ	CLBISRQ WORK ELEMENT ADDRESS
460	(1CC)	ADDRESS	4	DFCVCPQH	VS LBCPQH WORK ELEMENT ADDRESS
464	(1D0)	ADDRESS	4	DFCBXQHR	VLBCQHR WORK ELEMENT ADDRESS
468	(1D4)	ADDRESS	4	DFCBXWEB	VLBSWEB WORK ELEMENT ADDRESS
472	(1D8)	ADDRESS	4	DFCVLBQU	VLBERQUE WORK ELEMENT ADDRESS
476	(1DC)	CHARACTER	36	*	NOT USED - AVAILABLE
OTHER AREA ADDRESSES					
512	(200)	CHARACTER	168	DFCBFMTS	FORMAT PATTERNS
512	(200)	ADDRESS	4	DFCBSAB	DTISAB PATTERN
516	(204)	ADDRESS	4	DFCBCGB	DTICGB PATTERN
520	(208)	ADDRESS	4	DFCPGB	DTIPGB PATTERN
524	(20C)	ADDRESS	4	DFCVGB	DTIVGB PATTERN
528	(210)	ADDRESS	4	DFCGTD	DTIGTD PATTERN
532	(214)	ADDRESS	4	DFCUGB	DTIUGB PATTERN
536	(218)	ADDRESS	4	DFCCIA	DTICIA PATTERN
540	(21C)	ADDRESS	4	DFCCMD	DTICMD PATTERN
544	(220)	ADDRESS	4	DFCPDB	DTIPDB PATTERN
548	(224)	ADDRESS	4	DFCSDB	DTISDB PATTERN
552	(228)	ADDRESS	4	DFCSWB	DTISWB PATTERN
556	(22C)	ADDRESS	4	DFCBPTB	PATH TABLE PATTERN
560	(230)	ADDRESS	4	DFCPACT	DTIPACT PATTERN
564	(234)	ADDRESS	4	DFCACB	IFBACB PATTERN
568	(238)	ADDRESS	4	DFCRPL	IFGRPL PATTERN
572	(23C)	ADDRESS	4	DFCPACTE	DTIPACT ENTRY PATTERN
576	(240)	ADDRESS	4	DFCDSB	DTIDSB PATTERN
580	(244)	ADDRESS	4	DFCTAB	DTITAB PATTERN
584	(248)	ADDRESS	4	DFCPIB	DTIPIB PATTERN
588	(24C)	ADDRESS	4	DFCPLB	DTIPLB PATTERN
592	(250)	ADDRESS	4	DFCCLB	DTICLB PATTERN
596	(254)	ADDRESS	4	DFCVLB	DTIVLB PATTERN
600	(258)	ADDRESS	4	DFCWEB	DTIWEB PATTERN
604	(25C)	ADDRESS	4	DFCTRQ	DTITRQ PATTERN
608	(260)	ADDRESS	4	DFCVEIB	DTIVEIB PATTERN
612	(264)	ADDRESS	4	DFCXMT	DTIXMT PATTERN
616	(268)	ADDRESS	4	DFCTRDR	TRACE HEADER PATTERN
620	(26C)	ADDRESS	4	DFCENTR	LU SUMMARY PATTERN
624	(270)	ADDRESS	4	DFCLST	MODULE NAME SUMMARY
628	(274)	ADDRESS	4	DFCSTSM	STORAGE SUMMARY
632	(278)	ADDRESS	4	DFCSTS1	STORAGE SUMMARY 2
636	(27C)	ADDRESS	4	DFCSCB	DTISCB PATTERN
640	(280)	ADDRESS	4	DFCPRM	DTIPRM PATTERN
644	(284)	ADDRESS	4	DFCERSA	ERROR SAVEAREA PATTERN
648	(288)	ADDRESS	4	DFCCMT	DTICMT FORMAT PATTERN
652	(28C)	ADDRESS	4	*	RESERVED
656	(290)	ADDRESS	4	*	RESERVED
660	(294)	CHARACTER	16	*	AVAILABLE - NOT USED
676	(2A4)	ADDRESS	4	DFCINVBK	INVALID CONTROL BLOCK
680	(2A8)	ADDRESS	4	DFCTAB1	
WORK AREAS					
688	(2B0)	CHARACTER	20	DFCNPKIG	WORK AREA FOR UNPACKING
688	(2B0)	CHARACTER	8	DFCNAREA	UNPACK INPUT AREA
696	(2B8)	CHARACTER	12	DFCOAREA	UNPACK OUTPUT AREA
708	(2C4)	ADDRESS	4	DFCABTAB	BEGINNING OF BUFFER AREA
712	(2C8)	ADDRESS	4	DFCEXENT	NEXT AVAILABLE SLOT IN TABLE
716	(2CC)	SIGNED	2	DFCAXNUM	NUMBER OF LU'S THE TABLE CAN HOLD
718	(2CE)	SIGNED	2	DFCABCNT	NUMBER OF DTITABS PROCESSED
720	(2D0)	CHARACTER	4	DFCPNUMX	USED FOR PAGE NUMBER CONVERSION
PARAMETER LISTS					
724	(2D4)	CHARACTER	16	DFCTPARM	PARAMETER LIST FOR WRTERM
724	(2D4)	CHARACTER	8	*	REQUEST WRITE FUNCTION
732	(2DC)	CHARACTER	1	DFCWFLG	WRITE FLAG
733	(2DD)	UNSIGNED	3	DFCRTMSG	ADDRESS OF MESSAGE
736	(2E0)	CHARACTER	2	*	PART OF WRITE PARAMETER LIST
738	(2E2)	UNSIGNED	2	DFCRTLEN	MESSAGE LENGTH

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
740	(2E4)	CHARACTER	8	DFCWPARAM	PARAMETER LIST FOR WAITT
740	(2E4)	CHARACTER	8	*	REQUEST WAITT FUNCTION
748	(2EC)	CHARACTER	16	DFCDPARAM	READ PARAMETER LIST
748	(2EC)	CHARACTER	8	*	REQUEST READ FUNCTION
756	(2F4)	CHARACTER	1	DFCRFLG	WRITE FLAG
757	(2F5)	UNSIGNED	3	DFCDBUF	READ BUFFER ADDRESS
760	(2F8)	CHARACTER	2	*	PART OF READ PARAMETER LIST
762	(2FA)	UNSIGNED	2	DFCRLEN	LENGTH OF DATA READ
764	(2FC)	CHARACTER	12	DFCSPL1	LOCATE/PRNT PLIST
764	(2FC)	UNSIGNED	1	*	RESERVED
765	(2FD)	ADDRESS	3	DFCLACE1	DATA ITEM TO BE REF
768	(300)	SIGNED	2	DFCCODE1	SVC 199 SUBCODE
770	(302)	SIGNED	2	DFCENGTH	BYTE COUNT/LINE PRINT
772	(304)	SIGNED	4	DFCUTLOC	ADDR OF THE REQUESTED DATA
776	(308)	CHARACTER	8	DFCSPL2	GET/FREE BUFFERS
776	(308)	ADDRESS	4	DFCUFADR	STARTING ADDRESS OF BUFFER
780	(30C)	SIGNED	2	DFCCODE2	REQUEST CODE
782	(30E)	SIGNED	2	DFCUBNUM	NUMBER OF 4K BUFFERS REQUESTED
<b>BUFFER AREAS</b>					
784	(310)	CHARACTER	120	*	RESERVED
904	(388)	SIGNED	2	*	RESERVED
906	(38A)	CHARACTER	133	DFCPUT	PRINT BUFFER FOR SVC
906	(38A)	CHARACTER	1	DFCCC	FOR CARRIAGE CONTROL
907	(38B)	CHARACTER	120	DFCFER	ACTUAL OUTPUT CONTENT
1027	(403)	CHARACTER	5	DFCEAREA	AREA USED FOR HEADERS
1032	(408)	CHARACTER	3	DFCENUM	AREA FOR PAGE NUMBER
1035	(40B)	CHARACTER	4	*	PAD ZONE FOR OUTPUT BUFFER
1039	(40F)	CHARACTER	133	DFCNKS	BLANK LINE
1172	(494)	CHARACTER	131	DFCDBUFF	INPUT AREA
1303	(517)	CHARACTER	2	*	NOT USED - AVAILABLE
1305	(519)	UNSIGNED	1	DFCBUFNM	BUFFER COUNT ALLOCATED
1308	(51C)	CHARACTER	32	DFCMYHDR	DUMMY TRACE HEADER FOR CALLS TO CSIYXF5
1308	(51C)	BITSTRING	16	DFCPART1	DUMMY HEADER PART ONE
1324	(52C)	BITSTRING	16	DFCPART2	DUMMY HEADER PART TWO
1340	(53C)	CHARACTER	16	DFCEXTAB	HEX TRANSLATE TABLE
1356	(54C)	BITSTRING	12	DFCATERN	EDIT PATTERN
1368	(558)	CHARACTER	120	*	DATA BUFFER
1488	(5D0)	CHARACTER	9	*	WORKAREA
<b>FLAG CHARACTERS</b>					
1497	(5D9)	CHARACTER	1	DFCSEL	FUNCTION SELECTED TO PROCESS
1498	(5DA)	CHARACTER	1	DFCTRC	VSCS TRACE FORMAT OPTION
1499	(5DB)	CHARACTER	8	DFCLU	SELECTED LU TO PROCESS
1507	(5E3)	CHARACTER	1	*	RESERVED
		1... ....		*	RESERVED
		.1.. ....		*	RESERVED
		..1. ....		*	RESERVED
		...1 ....		*	RESERVED
		.... 1...		*	RESERVED
		.... .1..		*	RESERVED
		.... ..1.		*	RESERVED
		.... ...1		*	RESERVED
1508	(5E4)	CHARACTER	1	DFCTINUE	LOOP CONTROL
1509	(5E5)	CHARACTER	1	DFCEX	INDICATE NO HEX FORMAT
1510	(5E6)	CHARACTER	1	DFCIT	INDICATE IF BUFFERS OBTAINED
1511	(5E7)	CHARACTER	1	DFCTAG	MESSAGE TAG TO INDICATE IF A STORAGE ERROR OCCURRED
1512	(5E8)	CHARACTER	1	*	RESERVED
1513	(5E9)	CHARACTER	1	DFCFLGS1	FLAG BYTE
		1... ....		DFCENDFG	END FLAG IN FORMAT
		.1.. ....		DFCSELTR	SELECTIVE LU TRACE
		..1. ....		DFCSSONY	STORAGE SUMMARY ONLY
		...1 ....		DFCHDRPD	PRINT HEADER PENDING
		.... 1...		DFCPRTHD	PRINT HEADER
		.... .1..		DFCSPECF	RECEIVE SPECIFIC ACTIVE
		.... ..1.		DFCSCHED	EXCEPTION RESPONSE ACTIVE

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ...1		*	RESERVED
1514	(5EA)	CHARACTER	1	*	RESERVED
		1... ....		*	RESERVED
		.111 1111		*	NOT USED - AVAILABLE
1515	(5EB)	CHARACTER	3	*	NOT USED - AVAILABLE
1520	(5F0)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

## Constants

Len	Type	Value	Name	Description
1	CHARACTER	1	DFCGBSEL	OPTION 1 FORMAT GLOBAL CONTROL BLOCKS, TRACE TABLE AND ALL LU CONTROL BLOCKS
1	CHARACTER	2	DFCSTSEL	OPTION 2 FORMAT VSCS STORAGE CONTROL BLOCKS
1	CHARACTER	3	DFCSPSEL	OPTION 3 FORMAT A SPECIFIC LU'S CONTROL BLOCKS
1	CHARACTER	4	DFCTTSEL	OPTION 4 FORMAT ONLY THE VSCS INTERNAL TRACE TABLE
1	CHARACTER	5	DFCMDSEL	OPTION 5 MODULE CHART
1	CHARACTER	P	DFCPTSEL	OPTION P PRINT ENTIRE DUMP
1	CHARACTER	Q	DFCQTSEL	OPTION Q EXIT FORMATTER
2	DECIMAL	58	MAXPAGE	MAXIMUM PAGE SIZE

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DFCABCNT	2CE		2	DFCCPID	76		4
DFCABTAB	2C4		2	DFCCTNUM	A4		3
DFCACB	234		3	DFCCTPTR	A8		3
DFCALRPL	10C		3	DFCDBUF	2F5		3
DFCARPLN	104		3	DFCDBUFF	494		2
DFCARRY	164		3	DFCDPARM	2EC		2
DFCASRPL	110		3	DFCDSB	240		3
DFCATERN	54C		2	DFCEAREA	403		3
DFCAXNUM	2CC		2	DFCEBPTR	154		3
DFCBADAD	1C		2	DFCENDFG	5E9	80	3
DFCBADDR	8		2	DFCENGTH	302		3
DFCBCGB	204		3	DFCENTR	26C		3
DFCBCKUP	18		2	DFCENUM	408		3
DFCBFMTS	200		2	DFCERPTR	7C		3
DFCBIXRQ	1C8		4	DFCERSA	284		3
DFCBLCNT	50		2	DFCEX	5E5		2
DFCBLNGH	C		2	DFCEXENT	2C8		2
DFCBPTB	22C		3	DFCEXOFF	14		2
DFCBSAB	200		3	DFCEXTAB	53C		2
DFCBUFNM	519		2	DFCFER	38B		3
DFCBXPPQ	198		4	DFCFLGS1	5E9		2
DFCBXQHR	1D0		4	DFCGBPTR	84		3
DFCBXRP	1A8		5	DFCGTCNT	40		2
DFCBXRPW	1A8		4	DFCGTD	210		3
DFCBXSND	1A0		4	DFCHDRPD	5E9	10	3
DFCBXWEB	1D4		4	DFCIADDR	24		2
DFCBXXBA	19C		4	DFCIAPTR	88		3
DFCBYRPW	1AC		4	DFCIDCB	0		2
DFCB1XPQ	1C0		4	DFCINVBK	2A4		3
DFCB2XPQ	1C4		4	DFCISDA2	38		2
DFCCC	38A		3	DFCISLEN	52		2
DFCCIA	218		3	DFCISTR	20		2
DFCCLB	250		3	DFCIT	5E6		2
DFCCMD	21C		3	DFCLACE1	2FD		3
DFCCMT	288		3	DFCLBPTR	8C		3
DFCCODE1	300		3	DFCLNCNT	3C		2
DFCCODE2	30C		3	DFCLST	270		3



Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DFCLU	5DB		2	DFCSWBVP	30		2
DFCMDPTR	90		3	DFCTAB	244		3
DFCMXCNT	48		2	DFCTAB1	2A8		2
DFCMYHDR	51C		2	DFCTAG	5E7		2
DFCNAREA	2B0		3	DFCTBPTR	DC		3
DFCNKS	40F		2	DFCTCPTR	E4		3
DFCNPKIG	2B0		2	DFCTDPTR	9C		3
DFCOADDR	28		2	DFCTEPTR	A0		3
DFCOAREA	2B8		3	DFCTHPTR	E0		3
DFCPACT	230		3	DFCTINUE	5E4		2
DFCPACTE	23C		3	DFCTLPTR	EC		3
DFCPART1	51C		3	DFCTPARM	2D4		2
DFCPART2	52C		3	DFCTRC	5DA		2
DFCPATHN	70		3	DFCTRDR	268		3
DFCPCPQH	190		4	DFCTRQ	25C		3
DFCPDB	220		3	DFCTSPTR	E8		3
DFCPDBPT	AC		3	DFCTTMR1	16C		4
DFCPGB	208		3	DFCTTMR2	170		4
DFCPGBPT	B0		3	DFCTTMR3	174		4
DFCPGCNT	3E		2	DFCTTMR4	178		4
DFCPIB	248		3	DFCTTMR5	17C		4
DFCPIBPT	B4		3	DFCTTMR6	180		4
DFCPLB	24C		3	DFCTTMR7	184		4
DFCPLBPT	B8		3	DFCTXGDA	168		4
DFCPMADR	34		2	DFCTXRYD	164		4
DFCPNUMX	2D0		2	DFCUBNUM	30E		3
DFCPOINT	68		2	DFCUFADR	308		3
DFCPQHDR	188		4	DFCUGB	214		3
DFCPRM	280		3	DFCUGBPT	F0		3
DFCPRTHD	5E9	08	3	DFCURCNT	4C		2
DFCPTCNT	44		2	DFCURSDB	94		3
DFCPTHPT	BC		3	DFCUTLOC	304		3
DFCPTPAR	74		3	DFCVCPQH	1CC		4
DFCPTRNA	10		2	DFCVCUR	58		3
DFCPUT	38A		2	DFCVEIB	260		3
DFCPXRRQ	194		4	DFCVERPL	6D		4
DFCRFLG	2F4		3	DFCVGB	20C		3
DFCRLEN	2FA		3	DFCVGBPT	F4		3
DFCRPL	238		3	DFCVLB	254		3
DFCRPLPT	C0		3	DFCVLBPT	F8		3
DFCRPTR	60		3	DFCVLBQU	1D8		4
DFCRPTRE	64		3	DFCVPTR	54		3
DFCRTLEN	2E2		3	DFCVPTRE	5C		3
DFCRTMSG	2DD		3	DFCVQHDR	18C		4
DFCSABPT	C4		3	DFCVSPID	74		4
DFCSAQPT	C8		3	DFCVSRPL	6C		3
DFCSARPT	CC		3	DFCVTAPT	D0		3
DFCSBPTR	98		3	DFCVTCID	78		3
DFCSCB	27C		3	DFCVWALN	100		3
DFCSCBPT	80		3	DFCWAACB	108		3
DFCSCHED	5E9	02	3	DFCWAPTR	FC		3
DFCSDB	224		3	DFCWARPL	114		3
DFCSDBPT	D4		3	DFCWEB	258		3
DFCSEL	5D9		2	DFCWFLG	2DC		3
DFCSELTR	5E9	40	3	DFCWPARM	2E4		2
DFCSETAB	69		4	DFCXATTI	1B0		4
DFCSLTAB	68		3	DFCXCTAB	1A4		4
DFCSPECF	5E9	04	3	DFCXFRPW	1B4		4
DFCSPL1	2FC		2	DFCXFSBW	1BC		4
DFCSPL2	308		2	DFCXFSIW	1B8		4
DFCSSONY	5E9	20	3	DFCXMT	264		3
DFCSTORE	54		2	DTIDFC	0		1
DFCSTSM	274		3				
DFCSTS1	278		3				
DFCSWB	228		3				
DFCSWBPT	D8		3				
DFCSWBRP	2C		2				

## Dispatcher Schedule Block (DSB)

<b>Function:</b>	DTIDSB is the anchor point for all work associated with the presentation services and VTAM services tasks.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	40 (X'28')
<b>Located in:</b>	DTIISDA1.
<b>Additional Notes:</b>	This control block maps the presentation services and VTAM services DTIDSB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	40	DTIDSB	
0	(0)	CHARACTER	8	DSBEHDR	DTIDSB ELEMENT HEADER
8	(8)	BITSTRING	4	DSBTECB	DTIDSB TERMINATE ECB
12	(C)	CHARACTER	8	DSBQHDR	QUEUE HEADER FOR DTIPIB CHAIN
20	(14)	BITSTRING	4	DSBWUECB	DTIDSB WAKE-UP ECB
24	(18)	ADDRESS	4	DSBPIB	POINTER TO CURRENT DTIPIB
28	(1C)	ADDRESS	4	DSBTAB	POINTER TO CURRENT DTITAB
32	(20)	SIGNED	4	DSBRTYCT	TASK RETRY COUNT
36	(24)	BITSTRING	1	DSBFLG1	DTIDSB FLAGS
		1... ....		DSBPOST	TASK TO BE POSTED YES=1
		.111 1111		DSBRSV1	RESERVED
37	(25)	CHARACTER	3	*	UNUSED AVAILABLE
40	(28)	CHARACTER		*	TO FORCE A DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

### Cross Reference

Name	Hex Offset	Hex Value	Level
DSBEHDR	0		2
DSBFLG1	24		2
DSBPIB	18		2
DSBPOST	24	80	3
DSBQHDR	C		2
DSBRSV1	24	40	3
DSBRTYCT	20		2
DSBTAB	1C		2
DSBTECB	8		2
DSBWUECB	14		2
DTIDSB	0		1

## Event Control Block (ECB)

**Function:** DTIECB maps the system event control block used by the system wait logic.  
**Boundary:** Fullword.  
**Size in bytes:** 4

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	DTIECB	
0	(0)	CHARACTER	1	ECBVS1CB	VS/1 COMPLETION BYTE
0	(0)	BITSTRING	1	ECBDEOL	DOS END OF LIST BYTE - END OF LIST INDICATED BY NON-ZERO BYTE.
		1... ....		ECBVWAIT	VS/1 WAIT BIT
		.1.. ....		ECBVPOST	VS/1 POST BIT
		..11 1111		*	RESERVED
1	(1)	UNSIGNED	3	ECBCOMPC	VS/1 COMPLETION CODE
1	(1)	CHARACTER	1	*	RESERVED
2	(2)	BITSTRING	1	ECBDOSCB	DOS COMPLETION BYTE
		1... ....		ECBDPOST	DOS POST BIT
		.111 1111		*	RESERVED
3	(3)	CHARACTER	1	*	RESERVED

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTIECB	0		1
ECBCOMPC	1		2
ECBDEOL	0		3
ECBDOSCB	2		3
ECBDPOST	2	80	4
ECBVPOST	0	40	4
ECBVS1CB	0		2
ECBVWAIT	0	80	4

**VSCS Element Header (EHDR)**

<b>Function:</b>	DTIEHDR identifies the control block and defines its length. For queued blocks, the element header also specifies the priority of the control block and contains the address of the next block on the chain (or 0 if it is the last block on the chain).
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	8
<b>Additional Notes:</b>	Most VSCS control blocks include the element header (EHDR). See DTICBI for the element tags. In DTITHDR, the EHDRLEN field contains the number of trace table entries.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	DTIEHDR	
0	(0)	CHARACTER	4	*	
0	(0)	CHARACTER	2	EHDRETAG	ELEMENT TAG. NOTE-DTICBI CONTAINS ALL THE TAGS AND WHAT CONTROL BLOCKS USE THEM.
2	(2)	SIGNED 1... ..	2	EHDRLEN EHDRPRTY	CONTROL BLOCK LENGTH, IN DOUBLEWORDS. PRIORITY FLAG - PRIORITY = 1, NO PRIORITY = 0.
2	(2)	BITSTRING	1	*	CONTROL BLOCK LENGTH, IN DOUBLEWORDS.
4	(4)	ADDRESS	4	EHDRCPTR	POINTER TO NEXT CONTROL BLOCK IN THE CHAIN.

## Global Timer Data Block (GTD)

<b>Function:</b>	DTIGTD contains all timer-related information, including all timer queues, that is used after VSCS initialization.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	112 (X'70')
<b>Located in:</b>	DTIISDA1.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	112	DTIGTD	
0	(0)	CHARACTER	8	GTDEHDR	DTIGTD ELEMENT HEADER
8	(8)	CHARACTER	8	GTDMRQH (7)	TIMER DTIWEB QUEUE
64	(40)	ADDRESS	4	GTDNEXPR (7)	POINTER TO 'NEXT TO EXPIRE' TIMER DTIWEB.
92	(5C)	CHARACTER	4	GTDFLGS	DTIGTD FLAGS
92	(5C)	CHARACTER	1	*	INDICATOR FLAGS
		1... ....		GTDTIPND	TIMER INTERVAL PENDING
		.111 1111		*	NOT USED - AVAILABLE
93	(5D)	CHARACTER	3	*	NOT USED - AVAILABLE
96	(60)	SIGNED	4	GTDTTYPE	TYPE OF TIMER CURRENTLY SET
100	(64)	CHARACTER	8	GTDEXPIR	TIME OF NEXT EXPIRATION
112	(70)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

### Constants

Len	Type	Value	Name	Description
4	DECIMAL	50	GTDTIINT	TIMER INTERVAL IN HUNDRETHS OF A SECOND. 1/2 SECOND.
4	DECIMAL	204800000	GTDDIFF	50 MILLISECOND TIME DIFFERENTIAL
4	DECIMAL	40960000	GTDHUND	10 MILLISECOND TIME VALUE, SMALLEST INTERVAL POSSIBLE

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTIGTD	0		1
GTDEHDR	0		2
GTDEXPIR	64		2
GTDFLGS	5C		2
GTDMRQH	8		2
GTDNEXPR	40		2
GTDTIPND	5C	80	4
GTDTTYPE	60		2

## IUCV Parameter List (IP)

<b>Function:</b>	DTIIP maps the IUCV parameter list and the external interrupt block.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	40 (X'28')
<b>Additional Notes:</b>	DTIIP maps WEBIP in DTIWEB and VEIBIE in DTIVEIB. This block must match the IUCV IPARML control block.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	40	DTIIP	
0	(0)	CHARACTER	16	*	
0	(0)	CHARACTER	8	*	
0	(0)	BITSTRING	2	IPPATHID	PATHID
0	(0)	BITSTRING	1	IPMASK	ENABLE MASK
1	(1)	BITSTRING	1	IPRSV1	RESERVED
2	(2)	BITSTRING	2	*	
2	(2)	BITSTRING	1	IPFLAGS1	
		1... ....		IPALL	QUIESCE, RESUME, SEVER ALL
		.1.. ....		IPQUSCE	CONNECT IN QUIESCE MODE
		..1. ....		IPPRTY	PRIORITY MESSAGE, REPLY
		...1 ....		IPNORPY	ONE WAY PROTOCOL
		.... 1..		IPCPEITY	ENTRY FROM CP
		.... .1..		IPFGMID	MESSAGE ID SPECIFIED
		.... ..1.		IPFGPID	PATH ID SPECIFIED
		.... ...1		IPFGMCL	MESSAGE CLASS SPECIFIED
3	(3)	UNSIGNED	1	IPRCODE	RETURN CODE
3	(3)	UNSIGNED	1	IPTYPE	EXTERNAL INTERRUPT CODE
4	(4)	SIGNED	4	IPMSGID	MESSAGE IDENTIFIER
4	(4)	SIGNED	2	IPMSGLIM	MESSAGE LIMIT
6	(6)	CHARACTER	2	*	
6	(6)	UNSIGNED	1	IPFCNCD	FUNCTION CODE
7	(7)	CHARACTER	1	*	
8	(8)	CHARACTER	8	IPVMID	TARGET VIRTUAL MACHINE ID
8	(8)	SIGNED	4	IPTRGCLS	TARGET CLASS
8	(8)	CHARACTER	2	IPAUDIT	AUDIT TRAIL
8	(8)	CHARACTER	1	IPAUDIT1	AUDIT TRAIL BYTE 1
		1... ....		IPADRPLE	REPLY TOO LONG FOR BUFFER
		.1.. ....		IPADSNPX	PROTECTION EXCEPTION ON SEND BUFFER.
		..1. ....		IPADSNAX	ADDRESSING EXCEPTION ON SEND BUFFER.
		...1 ....		IPADANPX	PROTECTION EXCEPTION ON ANSWER BUFFER.
		.... 1..		IPADANAX	ADDRESSING EXCEPTION ON ANSWER BUFFER.
		.... .1..		IPADRJCT	MESSAGE WAS REJECTED
		.... ..1.		IPRSV3	RESERVED
		.... ...1		IPRSV4	RESERVED
9	(9)	CHARACTER	1	IPAUDIT2	AUDIT TRAIL BYTE 2
		1... ....		IPADRCPX	PROTECTION EXCEPTION ON RECEIVE BUFFER.
		.1.. ....		IPADRCAX	ADDRESSING EXCEPTION ON RECEIVE BUFFER.
		..1. ....		IPADRPPX	PROTECTION EXCEPTION ON REPLY BUFFER.
		...1 ....		IPADRPAAX	ADDRESSING EXCEPTION ON REPLY BUFFER.
		.... 1..		IPADSVRD	PATH WAS SEVERED
		.... .1..		IPRSV5	RESERVED
		.... ..1.		IPRSV6	RESERVED
		.... ...1		IPRSV7	RESERVED
10	(A)	CHARACTER	2	*	RESERVED
12	(C)	ADDRESS	4	IPBFADR1	ADDRESS OF BUFFER 1
16	(10)	CHARACTER	16	IPUSER	USER DATA
16	(10)	CHARACTER	8	*	
16	(10)	CHARACTER	4	*	
16	(10)	CHARACTER	2	IPRSV8	RESERVED
18	(12)	UNSIGNED	2	IPBFLN1	LENGTH OF BUFFER 1
20	(14)	SIGNED	4	IPSRCCLS	SOURCE CLASS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
24	(18)	CHARACTER	8	*	
24	(18)	ADDRESS	4	IPMSGTAG	MESSAGE TAG
28	(1C)	ADDRESS	4	IPBFADR2	ADDRESS OF BUFFER 2
32	(20)	CHARACTER	8	*	
32	(20)	CHARACTER	4	*	
32	(20)	CHARACTER	2	*	
34	(22)	UNSIGNED	2	IPBFLN2	LENGTH OF BUFFER 2
36	(24)	ADDRESS	4	IPNEXT	POINTER TO NEXT PENDING EXTERNAL INTERRUPT
36	(24)	UNSIGNED	1	IPCCODE	CONDITION CODE FOR CP ENTRY
40	(28)	CHARACTER	1	IPVIL	BASING VARIABLE FOR VSIUCVPL CONTROL BLOCK.

### Constants

Len	Type	Value	Name	Description
DECLARATION OF ERROR RETURN CODES FOR IUCV				
THE FOLLOWING CONVENTIONS ARE FOLLOWED:				
1. THE FIRST FOUR CHARACTERS WILL BE IPX.				
2. THE COMMENT FIELDS WILL DESCRIBE THE MEANING OF THE RETURN CODE FOR THE IUCV FUNCTIONS THAT RETURN IT.				
RETURN CODES FOR THE FOLLOWING FUNCTIONS ARE DEFINED:				
ACCEPT CONNECT DECLARE				
PURGE QUIESCE RECEIVE				
REJECT REPLY RESUME				
SEND SEVER TEST				
1	DECIMAL	1	IPXPATH	INVALID PATHID ACCEPT PURGE QUIESCE RECEIVE REJECT REPLY RESUME SEND SEVER TEST
1	DECIMAL	1	IPXTLOG	TARGET COMMUNICATOR NOT LOGGED ON. CONNECT
1	DECIMAL	1	IPXBDCL	BUFFER PREVIOUSLY DECLARED. DECLARE
1	DECIMAL	2	IPXCSVR	CONNECTION SEVERED BY ORIGINATOR ACCEPT
1	DECIMAL	2	IPXTB	TARGET HAS NOT DECLARED BUFFER. CONNECT
1	DECIMAL	2	IPXPQSC	PATH QUIESCED. SEND
1	DECIMAL	3	IPXSCON	MAXIMUM NUMBER CONNECTIONS FOR THIS COMMUNICATOR EXCEEDED. CONNECT
1	DECIMAL	3	IPXEMSG	MESSAGE LIMIT EXCEEDED. THIS COMMUNICATOR EXCEEDED. SEND
1	DECIMAL	4	IPXNAUT	NO AUTHORIZATION FOR CONNECTION. CONNECT
1	DECIMAL	4	IPXPMSG	PRIORITY MESSAGE NOT ALLOWED. SEND
1	DECIMAL	5	IPXTCON	MAXIMUM NUMBER CONNECTIONS FOR TARGET EXCEEDED. CONNECT
1	DECIMAL	5	IPXTRBS	RECEIVE BUFFER TOO SHORT. RECEIVE
1	DECIMAL	5	IPXTABS	ANSWER BUFFER TOO SHORT. REPLY
1	DECIMAL	6	IPXCPSN	INVALID CP SERVICE NAME. CONNECT
1	DECIMAL	6	IPXPXS	FETCH PROTECTION EXCEPTION ON SEND BUFFER. RECEIVE
1	DECIMAL	6	IPXPXA	STORAGE PROTECTION EXCEPTION ON ANSWER BUFFER. REPLY
1	DECIMAL	7	IPXFUN	INVALID FUNCTION CODE. CONNECT
1	DECIMAL	7	IPXAXS	ADDRESSING EXCEPTION ON SEND BUFFER. RECEIVE
1	DECIMAL	7	IPXAXA	ADDRESSING EXCEPTION ON ANSWER BUFFER. REPLY
1	DECIMAL	8	IPXMLIM	VALUE IN MSGLIM > 255. CONNECT
1	DECIMAL	8	IPXCLAS	MESSAGE ID FOUND BUT MESSAGE CLASS BAD. PURGE
1	DECIMAL	8	IPXCBPB	MESSAGE ID FOUND BUT MESSAGE CLASS OR PATHID BAD. RECEIVE REJECT REPLY
1	DECIMAL	9	IPXMPRG	MESSAGE PURGED. RECEIVE REPLY
BITS DEFINED IN IPTYPE - EXTERNAL INTERRUPT TYPES				
1	DECIMAL	1	IPTYPPC	PENDING CONNECTION
1	DECIMAL	2	IPTYPC	CONNECTION COMPLETE
1	DECIMAL	3	IPTYPSV	SEVERED CONNECTION
1	DECIMAL	4	IPTY PQS	QUIESCED CONNECTION
1	DECIMAL	5	IPTYPRS	RESUMED CONNECTION

Len	Type	Value	Name	Description
1	DECIMAL	6	IPTYPRP	INCOMING PRIORITY REPLY
1	DECIMAL	7	IPTYPRNP	INCOMING REPLY
1	DECIMAL	8	IPTYMP	INCOMING PRIORITY MESSAGE
1	DECIMAL	9	IPTYMNP	INCOMING MESSAGE

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTIIP	0		1
IPADANAX	8	08	7
IPADANPX	8	10	7
IPADRCAX	9	40	7
IPADRPCX	9	80	7
IPADRJCT	8	04	7
IPADRPAX	9	10	7
IPADRPLE	8	80	7
IPADRPPX	9	20	7
IPADSNAX	8	20	7
IPADSNPX	8	40	7
IPADSVRD	9	08	7
IPALL	2	80	6
IPAUDIT	8		5
IPAUDIT1	8		6
IPAUDIT2	9		6
IPBFADR1	C		4
IPBFADR2	1C		4
IPBFLN1	12		5
IPBFLN2	22		4
IPCCODE	24		4
IPCPENTY	2	08	6
IPFCNCD	6		6
IPFGMCL	2	01	6
IPFGMID	2	04	6
IPFGPID	2	02	6
IPFLAGS1	2		5
IPMASK	0		5
IPMSGID	4		4
IPMSGLIM	4		5
IPMSGTAG	18		4
IPNEXT	24		3
IPNORPY	2	10	6
IPPATHID	0		4
IPPRTY	2	20	6
IPQUSCE	2	40	6
IPRCODE	3		5
IPRSV1	1		5
IPRSV3	8	02	7
IPRSV4	8	01	7
IPRSV5	9	04	7
IPRSV6	9	02	7
IPRSV7	9	01	7
IPRSV8	10		5
IPSRCLS	14		4
IPTRGCLS	8		4
IPTYPE	3		6
IPUSER	10		2
IPVIL	28		2
IPVMID	8		3



## Local Block Common (LBC)

<b>Function:</b>	DTILBC describes the current state and pending work related to a logical unit.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	24 (X'18')
<b>Additional Notes:</b>	DTILBC maps common portions of DTIPLB and DTIVLB (PLBLCOM and VLBLCOM).

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	24	DTILBC	MAP THE PLBLCOM AND VLBLCOM FIELDS.	
0	(0)	CHARACTER	8	LBCEHDR	DTILBC ELEMENT HEADER	
8	(8)	CHARACTER	8	LBCPQH	PENDING QUEUE HEADER	
16	(10)	UNSIGNED	2	LBCSTTUS	STATE AND MODE BITS	
16	(10)	UNSIGNED	1	LBCBUSY	STATE FOR INPUT/STATE TABLE	
		1111 111.		*	RESERVED	
		.... ...1		LBCSIP	LU BUSY BIT - BUSY = 1	
17	(11)	UNSIGNED	1	LBCSTATE	LU STATE - USED TO INDEX STATE MANAGER MATRICES. CONSTANTS USED IN SETTING LBCSTATE ARE IN THE DTIPLB.	
		1... ....		LBCINT	INTERNAL MODE - ON = 1	
		.11. ....		LBCFSSMF	FULL SCREEN SERVICE MODE FLAGS	
		.1. ....		LBCFSAV	SCREEN AVAILABLE	
		..1. ....		LBCFSII	FULL SCREEN INPUT INHIBITED '00'B - CP (CONSOLE) MODE. '01'B - VIRTUAL MACHINE MODE, STATE BETWEEN AN ATTN AND A READ (QUEUE CP MESSAGES). '10'B - VIRTUAL MACHINE MODE (QUEUE CP MESSAGES). '11'B - VIRTUAL MACHINE MODE (SCREEN AVAILABLE FOR MODE SWITCHING).	
		...1 ....		LBCCOPY	COPY MODE - YES = 1	
		.... 1...		LBCNAL	NAL FLAG - ON = 1	
		.... .11.		LBCHOLD	HOLDING FLAG - ON = 11 NOTE THAT IF LBCM10 AND LBCM50 ARE BOTH ON, THE STATE IS HOLD.	
		.... .1..		LBCM10	MORE 10 FLAG - ON = 1	
		.... ..1.		LBCM50	MORE 50 FLAG - ON 50 = 1	
		.... ...1		LBCCMSD	SCREEN WRITTEN WITH A CMS DIAGNOSE INSTRUCTION - ON = 1.	
		.... ...1		LBCVSST	VTAM SERVICES STATE - NORMAL=0, TERMINATION = 1. NOTE-THIS IS THE ONLY BIT IN THE LBCSTATE USED BY VTAM SERVICES.	
18	(12)	CHARACTER	6	*	NOT USED - AVAILABLE	
24	(18)	CHARACTER		*	TO FORCE A DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.	

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DTILBC	0		1	LBCSIP	10	01	4
LBCBUSY	10		3	LBCSTATE	11		3
LBCCMSD	11	01	4	LBCSTTUS	10		2
LBCCOPY	11	10	4	LBCVSST	11	01	5
LBCEHDR	0		2				
LBCFSAV	11	40	5				
LBCFSII	11	20	5				
LBCFSSMF	11	40	4				
LBCHOLD	11	04	4				
LBCINT	11	80	4				
LBCM10	11	04	5				
LBCM50	11	02	5				
LBCNAL	11	08	4				
LBCPQH	8		2				

## Printer Active Table (PACT)

<b>Function:</b>	DTIPACT maps the printer LU name table.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	PGBPLUNA in DTIPGB.
<b>Additional Notes:</b>	An entry exists in this table for each printer logged on to VSCS. The DTIGEN initialization parameter, PRNTNUM, determines the size of this table.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	DTIPACT	PRINTER ACTIVE TABLE	
0	(0)	CHARACTER	8	PACTEHDR	DTIPACT ELEMENT HEADER	
8	(8)	CHARACTER	32	PACTNTRY (*)	ENTRIES FOR LUNAME TABLE	
8	(8)	CHARACTER	8	PACTLUNM	PRINTER LUNAME	
16	(10)	CHARACTER	8	PACTTUSE	TIME LAST USED	
16	(10)	UNSIGNED	4	PACTTHI	HI-ORDER WORD OF TIME	
20	(14)	UNSIGNED	4	PACTTLOW	LOW-ORDER WORD OF TIME	
24	(18)	ADDRESS	4	PACTTAB	PRINTER DTITAB ADDRESS	
28	(1C)	ADDRESS	4	PACTDPLB	POINTER TO PLB OF THE TERMINAL WAITING FOR A PF COPY REQUEST (SIMLOGON ISSUED)	
32	(20)	CHARACTER	4	PACTFLGS	PRINTER CONTROL FLAGS	
32	(20)	CHARACTER	1	PACTFLG1	FLAG 1	
		1... ....		PACTBUSY	PRINTER BUSY	
		.1.. ....		PACTLOGN	LOGON REQUEST FOR PRINTER IN PROGRESS	
		..1. ....		PACTRLQW	INDICATES RELREQ DRIVEN AND 2 MINUTE TIMER SET	
		...1 ....		PACTDEF	1= PRINTER WAS DEFINED BY OPERATOR COMMAND NOT LOGON	
		.... 1...		PACTPURG	1= PRINTER IS BEING FORCED OFF BY OPERATOR FORCE COMMAND	
		.... .111		*	NOT USED - AVAILABLE	
33	(21)	CHARACTER	3	*	NOT USED - AVAILABLE	
36	(24)	ADDRESS	4	*	NOT USED - AVAILABLE	
40	(28)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.	

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTIPACT	0		1
PACTBUSY	20	80	5
PACTDEF	20	10	5
PACTDPLB	1C		3
PACTEHDR	0		2
PACTFLGS	20		3
PACTFLG1	20		4
PACTLOGN	20	40	5
PACTLUNM	8		3
PACTNTRY	8		2
PACTPURG	20	08	5
PACTRLQW	20	20	5
PACTTAB	18		3
PACTTHI	10		4
PACTTLOW	14		4
PACTTUSE	10		3

## Pool Descriptor Block (PDB)

<b>Function:</b>	DTIPDB maps the size of each dynamic storage block used by VSCS.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	56 (X'38')
<b>Pointed to by:</b>	SDBPDBPT in DTISDB.
<b>Located in:</b>	DTIISDA1.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	56	DTIPDB	
0	(0)	CHARACTER	8	PDBEHDR	PDB ELEMENT HEADER
8	(8)	ADDRESS	4	PDBCRSDB	CURRENT SDB
12	(C)	CHARACTER	8	PDBSDBQH	SDB QUEUE HEADER
20	(14)	SIGNED	4	PDBSEGSZ	NUMBER BYTES IN A SEGMENT
24	(18)	SIGNED	4	PDBFBCAP	NUMBER BLOCKS IN A SEGMENT
28	(1C)	SIGNED	4	PDBBLKSZ	NUMBER OF BYTES IN A BLOCK
32	(20)	SIGNED	4	PDBPSCNT	PREVIOUS SEGMENT COUNT
36	(24)	SIGNED	4	PDBUSCNT	USABLE SEGMENT COUNT
40	(28)	CHARACTER	1	PDBFLG1	PDB FLAGS
		1.. ....		PDBCEND	END OF PDB CHAIN INDICATOR
		.1.. ....		PDBGMFLG	GETMAIN FAILED INDICATOR
		..1. ....		PDBSSFLG	STORAGE SHORTAGE INDICATOR
		...1 1111		*	RESERVED
41	(29)	CHARACTER	3	*	NOT USED - AVAILABLE
44	(2C)	SIGNED	4	PDBALLOC	NUMBER OF SEGMENTS ALLOCATED
48	(30)	SIGNED	4	PDBAVAIL	NUMBER OF SEGMENTS ALLOCATED AND NOT IN USE
52	(34)	CHARACTER	4	*	NOT USED - AVAILABLE
56	(38)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTIPDB	0		1
PDBALLOC	2C		2
PDBAVAIL	30		2
PDBBLKSZ	1C		2
PDBCEND	28	80	3
PDBCRSDB	8		2
PDBEHDR	0		2
PDBFBCAP	18		2
PDBFLG1	28		2
PDBGMFLG	28	40	3
PDBPSCNT	20		2
PDBSDBQH	C		2
PDBSEGSZ	14		2
PDBSSFLG	28	20	3
PDBUSCNT	24		2

## Presentation Services Global Block (PGB)

<b>Function:</b>	DTIPGB contains information about presentation services data areas.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	64 (X'40')
<b>Located in:</b>	DTIISDA1.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	64	DTIPGB		
0	(0)	CHARACTER	8	PGBEHDR	ELEMENT HEADER	
8	(8)	ADDRESS	4	PGBLGOD	ADDRESS OF LOGO FOR DISPLAYS	
12	(C)	SIGNED	2	PGBLGOLS	BYTES PER LINE OF DISPLAY LOGO	
14	(E)	SIGNED	2	PGBLGONL	NUMBER OF LINES IN DISPLAY LOGO	
16	(10)	ADDRESS	4	PGBCMDLN	ADDRESS OF COMMAND LINES FOR DISPLAYS	
20	(14)	SIGNED	2	PGBCMDLS	BYTES PER LINE OF COMMAND LINE FOR DISPLAYS	
22	(16)	SIGNED	2	PGBCMDNL	NUMBER OF LINES IN COMMAND LINE FOR DISPLAYS	
24	(18)	ADDRESS	4	PGBALGOD	ADDRESS OF ALTERNATE LOGO FOR DISPLAYS	
28	(1C)	SIGNED	2	PGBALGOB	LINESIZE OF ALTERNATE DISPLAY LOGO (BYTES PER/LINE)	
30	(1E)	SIGNED	2	PGBALGOL	NUMBER OF LINES IN ALTERNATE DISPLAY LOGO	
32	(20)	ADDRESS	4	PGBOLGO	ADDRESS OF DISPLAY ONLINE MESSAGE	
36	(24)	SIGNED	2	PGBOLGOB	LINESIZE OF DISPLAY ONLINE MESSAGE	
38	(26)	SIGNED	2	PGBOTWXB	LINESIZE LINE OF TWX ONLINE MESSAGE	
40	(28)	ADDRESS	4	PGBOTWX	ADDRESS OF TWX ONLINE MESSAGE	
44	(2C)	ADDRESS	4	PGBOKP	ADDRESS OF NON-TWX NON-DISPLAY ONLINE MESSAGE	
48	(30)	ADDRESS	4	PGBABDSA	ADDRESS OF DTISTATE SAVE AREA	
52	(34)	SIGNED	2	PGBOKPB	LENGTH NON-TWX NON-DISPLAY ONLINE MESSAGE	
54	(36)	SIGNED	2	PGBCLIC	COMMAND LINE THAT INSERT CURSOR FOUND ON	
56	(38)	CHARACTER	6	PGBPRNT	PRINTER SUPPORT	
56	(38)	ADDRESS	4	PGBPLUNA	ADDRESS PRINTER LUNAME TABLE	
60	(3C)	SIGNED	2	PGBPNOTL	TOTAL NUMBER ENTRIES IN PRINTER LUNAME TABLE.	
62	(3E)	CHARACTER	1	*	RESERVED	
		1... ....		*	RESERVED	
		.111 1111		*	UNUSED AVAILABLE	
63	(3F)	CHARACTER	1	*	UNUSED AVAILABLE	
64	(40)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.	

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DTIPGB	0		1	PGBOTWX	28		2
PGBABDSA	30		2	PGBOTWXB	26		2
PGBALGOB	1C		2	PGBPLUNA	38		3
PGBALGOD	18		2	PGBPNOTL	3C		3
PGBALGOL	1E		2	PGBPRNT	38		2
PGBCLIC	36		2				
PGBCMDLN	10		2				
PGBCMDLS	14		2				
PGBCMDNL	16		2				
PGBEHDR	0		2				
PGBLGOD	8		2				
PGBLGOLS	C		2				
PGBLGONL	E		2				
PGBOKP	2C		2				
PGBOKPB	34		2				
PGBOLGO	20		2				
PGBOLGOB	24		2				

## Process Information Block (PIB)

<b>Function:</b>	DTIPIB contains dispatcher control information for an LU and is scheduled for a process when work elements are queued on it.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	24 (X'18')
<b>Pointed to by:</b>	DSBPIB in DTIDSB TABPPIB in DTITAB - presentation services TABVPIB in DTITAB - VTAM services
<b>Additional Notes:</b>	There are two DTIPIBs (presentation services and VTAM services) for each logical unit.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	DTIPIB	
0	(0)	CHARACTER	8	PIBEHDR	DTIPIB ELEMENT HEADER
8	(8)	ADDRESS	4	PIBTAB	DTITAB ADDRESS FOR THIS LU
12	(C)	CHARACTER	8	PIBWQHDR	WORK ELEMENT QUEUE HEADER CONTAINS FIRST HALF OF COMPARE DOUBLE AND SWAP (CDS) OPERAND.
20	(14)	CHARACTER	4	PIBSTAT	DTIPIB STATUS FLAG - SECOND HALF OF COMPARE DOUBLE AND SWAP OPERAND.
24	(18)	CHARACTER	*		TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

### Constants

Len	Type	Value	Name	Description
4	CHARACTER	SCED	PIBSCHED	DTIPIB STATUS IS SCHEDULED
4	CHARACTER	RUNG	PIBRUN	DTIPIB STATUS IS RUNNING
4	CHARACTER	INAC	PIBINACT	DTIPIB STATUS IS INACTIVE
4	CHARACTER	ABND	PIBABEND	DTIPIB STATUS IS ABEND
4	CHARACTER	PURG	PIBPURGE	DTIPIB STATUS IS PURGE

## Presentation Services Local Block (PLB)

<b>Function:</b>	DTIPLB maps data related to presentation services processing for a logical unit.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	176 (X'B0')
<b>Pointed to by:</b>	TABPLB in DTITAB.
<b>Included Blocks:</b>	DTILBC and the ACCTPLB portion of DTIACCT.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	176	DTIPLB	
0	(0)	CHARACTER	24	PLBLCOM	LU COMMON DATA STRUCTURE. NOTE-THE DTILBC CONTROL BLOCK MAPS THIS AREA.
24	(18)	CHARACTER	4	PLBSM	STATE MANAGER RELATED DATA
24	(18)	CHARACTER	1	PLBFSSMF	FULL SCREEN SUPPORT MODE FLAGS
		1.. ....		PLBFPA1	PA1 KEY RECEIVED, SWITCH MODE
		..1. ....		PLBFSRFC	MODE SWITCH REQUIRED: FSSM TO CONSOLE.
		...1 ....		PLBFSAFC	SWITCH AVAILABLE: FSSM TO CONSOLE
		.... 1..		PLBFCNMP	CONSOLE MESSAGE PENDING
		.... ..1.		PLBFVSIP	VTAM SERVICES SEND-IN-PROGRESS
		.... ..1.		PLBFCLGF	CONDITIONAL LOGOFF RECEIVED
		.... ..1.		PLBFCMRR	CP WRITE RESP REQUIRED PENDING
		.... ...1		PLBCMSEW	CMS SCREEN JUST ERASED
25	(19)	CHARACTER	1	PLBLFLG1	VTAM SERVICES LOGOFF FLAGS FOR PRESENTATION SERVICES.
		1.. ....		PLBLVS	VTAM SERVICES LOGOFF RECEIVED, BYPASS LOGO MODE AT LOGOFF.
		..1. ....		PLBLGFC	WEBINLGF SENT TO CCS FOR CONDITIONAL LOGOFF.
		..1. ....		PLBLGFU	WEBINLGF SENT TO CCS FOR UNCONDITIONAL LOGOFF.
		...1 ....		PLBLERR	WEBINERR SENT TO CCS FOR HARD ERROR.
		.... 1..		PLBLERR	WEBINLR SENT TO CCS FOR INTERFACE ERROR.
		.... ..1.		PLBLVERR	WEBINVR SENT TO CCS FOR INTERNAL LOGIC ERROR.
		.... ..1.		PLBLSEVR	CP CCS SEVER RECEIVED, VSCS MUST SEVER.
		.... ...1		PLBLNSTR	NO STORAGE INDICATOR IN LOGOFF NO STORAGE = 1.
26	(1A)	CHARACTER	1	PLBFLG1	DTIPLB FLAGS
		1.. ....		PLBLGO	LOGO/NO LOGO MODE - LOGO = 1
		..1. ....		PLBINAR	APL/TEXT STARTING IN INPUT AREA - YES = 1.
		...1 ....		PLBLFLNP	LOGON FROM LOGO NOT PERMITTED FOR THIS LU
		.... 1..		PLBCONCT	CURRENT COUNT INCREMENTED
		.... ..1.		PLBCNCTI	IUCV CONNECT ISSUED
		.... ..1.		PLBINREC	INPUT RECEIVED DURING PURGE
		.... ..1.		PLBPRMPT	USABILITY PROMPT MESSAGE FLAG 1= FOR DISPLAYS, VSCS RECEIVED CP WRITE BUT HAS NOT YET SENT MESSAGE, FOR KEYBOARD/PRINTERS 1= VSCS HAS SENT USABILITY MESSAGE TO DEVICE
		.... ...1		PLBSDIAL	SNA DIALED LU
27	(1B)	UNSIGNED	1	PLBPRLBC	PREVIOUS LU LBCSTATE
28	(1C)	CHARACTER	44	PLBOM	OUTPUT MANAGER RELATED DATA
28	(1C)	ADDRESS	4	PLBVSND	ADDRESS OF VSEND WEB - (CONSOLE, CMS, OR FSSM)
32	(20)	CHARACTER	8	PLBRRRQ	RESPONSE REQUIRED REQUEST QUEUE HEADER.
40	(28)	CHARACTER	8	PLBSIPPQ	SEND IN PROGRESS (SIP) PENDING QUEUE HEADER.
48	(30)	ADDRESS	4	PLBXBA	XMIT BUFFER ADDRESS OR ZERO
52	(34)	SIGNED	4	PLBNLXB	NUMBER LOGICAL LINES IN XMIT BUFFER.
56	(38)	SIGNED	2	PLBCL	CURRENT LINE ON SCREEN
58	(3A)	SIGNED	2	PLBPACE	PACE VALUE
60	(3C)	CHARACTER	6	PLBOCPY	OUTPUT MANAGER COPY SUPPORT
60	(3C)	ADDRESS	4	PLBOCTAB	ADDRESS OF COPY DTITAB OR IF PLBOCSLN AND PLBOCRBF ARE ON THEN THE WEB ADDRESS FOR THE READ BUFFER DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
60	(3C)	ADDRESS	4	PLBPRMTW	ADDRESS OF DTIWEB CONTAINING WRITE OF USABILITY PROMPT FOR DISPLAYS WHILE IN INLOG-IN-PROGRESS STATE
64	(40)	UNSIGNED	1	PLBOCTYP	COPY MESSAGE TYPE
65	(41)	CHARACTER	1	PLBOCFLG	COPY FLAGS
		1.. ....		PLBOCLUN	COPY COMMAND ISSUED WITH LUNAME - YES = 1.
		.1.. ....		PLBOCRBF	'READ BUFFER' DATA RECEIVED - YES = 1.
		..1. ....		PLBOCLGF	PRINTER LOGOFF IN PROGRESS - YES = 1.
		...1 ....		PLBOCSLN	WHEN = 1 INDICATES A SIMLOGON IS IN PROGRESS FOR THE COPY REQUEST ISSUED BY THIS DISPLAY
		.... 1111		*	NOT USED - AVAILABLE
66	(42)	BITSTRING	1	PLBOFSCE	FULL SCREEN COMMAND EXECUTING
67	(43)	CHARACTER	2	PLBNOM	NOTIFY OUTPUT MANAGER (NOM) FLAGS
67	(43)	CHARACTER	1	PLBNFLG1	NOM FLAGS
		1.. ....		PLBCEND	COMMAND END (READ) - YES = 1
		.1.. ....		PLBRDTX	REDISPLAY TIMER EXPIRED - YES = 1.
		..1. ....		PLBSAC	STATUS AREA CHANGE REQUIRED - YES = 1.
		...1 ....		PLBCLROA	CLEAR OUTPUT AREA - YES = 1
		.... 1...		PLBCLRIA	CLEAR INPUT AREA - YES = 1
		.... .1..		PLBRING	RING THE AUDIBLE ALARM - YES = 1
		.... ..1.		*	NOT USED - AVAILABLE
		.... ...1		PLBUNLK	UNLOCK THE KEYBOARD - YES = 1
68	(44)	CHARACTER	1	PLBNFLG2	NOM FLAGS
		1.. ....		PLBRDPND	REDISPLAY PENDING - YES = 1
		.111 1111		*	NOT USED - AVAILABLE
69	(45)	BITSTRING	1	PLBOFLG1	OUTPUT MANAGER FLAGS
		1.. ....		PLBSDIAG	CMS DIAGNOSE ON SCREEN - YES = 1
		.1.. ....		PLBPSMSG	PRIORITY MESSAGE ON SCREEN
		..1. ....		PLBOSRIP	SEND RETRY IN PROGRESS
		...1 ....		PLBOKLOK	KEYBOARD LOCKED
		.... 1...		PLBOKPMI	KEYBOARD PRINTER MASK INPUT AREA SENT.
		.... .1..		PLBOSWRT	CMS WRITE ACTIVE (NO INPUT RECEIVED).
FOLLOWING TWO BITS FOR K/P					
		.... ..1.		PLBOCRRQ	CARRAGE RETURN REQUIRED - YES = 1. BEFORE NEXT SEND
		.... ...1		PLBOEXRQ	'!' REQUIRED BEFORE SEND
70	(46)	SIGNED	2	PLBPRCL	PREVIOUS CURRENT LINE
72	(48)	CHARACTER	20	PLBIM	INPUT MANAGER RELATED DATA
72	(48)	ADDRESS	4	PLBRDPW	ADDRESS OF READ PENDING WEB OR ZERO.
76	(4C)	ADDRESS	4	PLBIATTI	ADDRESS OF INPUT DTIWEB FROM SINGLE ATTENTION.
80	(50)	ADDRESS	4	PLBIFRPW	ADDRESS OF FSSM READ PENDING DTIWEB OR ZERO.
84	(54)	ADDRESS	4	PLBIFSIW	ADDRESS OF FSSM INPUT DTIWEB OR ZERO.
88	(58)	CHARACTER	2	PLBENVN	ENVIRONMENT DEFINITION
88	(58)	BITSTRING	1	PLBCHAR	CHARACTER SET
89	(59)	BITSTRING	1	PLBEDIT	EDITING CHARACTERISTICS
		1.. ....		PLBNCONV	USER TRANSLATED DATA
		.111 ....		*	NOT USED - AVAILABLE
		.... 1...		PLBHIEKO	HIGHLIGHT INPUT REDISPLAY
		.... .1..		PLBEDPTI	INHIBIT PRINTING OR NON-DISPLAY
		.... ..1.		PLBNOEKO	DO NOT REDISPLAY INPUT ON NEXT OUTPUT LINE.
		.... ...1		PLBEDCUP	CONVERT TO UPPER CASE
90	(5A)	CHARACTER	1	PLBIATTN	INPUT MANAGER ATTENTION HANDLING
90	(5A)	CHARACTER	1	PLBIAFLG	INPUT MANAGER ATTENTION HANDLING FLAGS.
		1.. ....		PLBMATTN	MULTIPLE ATTENTION RECEIVED - YES = 1.
		.1.. ....		PLBSATTN	SINGLE ATTENTION RECEIVED - YES = 1.
		..1. ....		PLBIPA1	ATTENTION RECEIVED IN MORE... - YES = 1.
		...1 ....		PLBBRKNN	CP TERMINAL BRKKEY NONE IS IN AFFECT, YES = 1
		.... 1...		*	RESERVED
		.... ..111		*	NOT USED - AVAILABLE
91	(5B)	BITSTRING	1	PLBFSSM1	FULL SCREEN FLAGS
		1.. ....		PLBFSLR	CMS CLEAR WHILE IN FSSM STATE
		.1.. ....		PLBFSRBI	FULLSCREEN READ BUFFER ISSUED
		..1. ....		PLBPASPA	PASS PA1 AS DATA (FSSM)
		...1 ....		PLBWSFRO	WSF QUERY ISSUED
		.... 1...		PLBCONMD	CONMODE 3270 REQUEST
		.... .1..		PLBFSRBS	FULLSCREEN READ BUFFER SEND IN PROGRESS

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ..1.		PLBBEEP	FULLSCREEN BREAKIN BEEP IN PROGRESS
		.... ..1		PLBFSFND	FULL SCREEN REQUEST COULD NOT BE PROCESSED AND IS ON THE PENDING QUEUE.
92	(5C)	CHARACTER	26	PLBDEVN	DEVICE MANAGER RELATED DATA
92	(5C)	ADDRESS	2	PLBDCBRP	CURSOR BACK ONE RELATIVE POSITION.
94	(5E)	BITSTRING	2	PLBDCBBA	CURSOR BACK ONE BUFFER ADDRESS
96	(60)	ADDRESS	2	PLBDIARP	INPUT AREA RELATIVE POSITION
98	(62)	BITSTRING	2	PLBDIABA	INPUT AREA BUFFER ADDRESS
100	(64)	ADDRESS	2	PLBDSARP	STATUS AREA RELATIVE POSITION
102	(66)	BITSTRING	2	PLBDSABA	STATUS AREA BUFFER ADDRESS
104	(68)	SIGNED	2	PLBDSW	SCREEN WIDTH
106	(6A)	SIGNED	2	PLBDS	SCREEN DEPTH
108	(6C)	BITSTRING	1	PLBEWCM	ERASE/WRITE COMMAND
109	(6D)	UNSIGNED	1	PLBDTYPE	DEVICE TYPE: DISPLAY, KEYBOARD/PRINTER, PRINTER.
110	(6E)	UNSIGNED	1	PLBDSUBT	DEVICE SUB-TYPE FOR K/P
111	(6F)	CHARACTER	1	PLBDFLG1	DEVICE MANAGER FLAGS
		1... ....		PLBDASS	DISPLAY HAS ALTERNATE SIZE - YES = 1.
		.1.. ....		PLBDNEW	DISPLAY HAS NEW APL/TEXT - NEW = 1.
		..1. ....		PLBNOVCK	DO NOT VALIDITY CHECK DATA
		...1 11..		PLBDCH	DISPLAY HAS NEW COLOR/HIGHLIGHT FUNCTIONS - NO = '000'B - YES = '000'B
		...1 ....		PLBDXTDS	EXTENDED DATA STREAM AVAILABLE - YES = 1.
		.... 1..		PLBDXCLR	EXTENDED COLOR AVAILABLE - YES = 1.
		.... .1.		PLBDXHLI	EXTENDED HIGHLIGHT AVAILABLE - YES = 1.
		.... ..1.		PLBDATTN	PRINTER ATTENTION - ON = 1
		.... ...1		PLBDMASK	PASSWORD MASK - ON = 1
112	(70)	CHARACTER	6	PLBCHMAP	COLOR/HIGHLIGHT FLAGS
112	(70)	CHARACTER	1	PLBCHCPO	CP OUTPUT EXTENDED COLOR & HIGHLIGHT.
113	(71)	CHARACTER	1	PLBCHVMO	VIRTUAL MACHINE OUTPUT
114	(72)	CHARACTER	1	PLBCHINR	INPUT REDISPLAY EXTENDED COLOR & HIGHLIGHT.
115	(73)	CHARACTER	1	PLBCHINA	INPUT AREA
116	(74)	CHARACTER	1	PLBCHSTA	STATUS AREA
117	(75)	CHARACTER	1	*	NOT USED - AVAILABLE
118	(76)	CHARACTER	2	PLBFSSBA	WRITE FOR POSITION START BUFFER ADDRESS
120	(78)	ADDRESS	4	PLBIFSBW	ADDRESS OF FSSM READ BUFFER DATA OR ZERO.
124	(7C)	CHARACTER	1	PLBCNTS	RETRY COUNTS
124	(7C)	UNSIGNED	1	PLBWRTRY	WAIT RETRY COUNT FOR AN LU IN PLBINLGF OR PLBINCLF STATE AND NO BREAK REQUEST RECEIVED FROM CP. LU IS PURGED WHEN THE COUNT IS EQUAL TO OR GREATER THAN LU RETRY COUNT.
125	(7D)	CHARACTER	1	PLBFLG2	CLEANUP FLAGS
		1... ....		*	AVAILABLE - NOT USED
		.1.. ....		PLBUSRID	LOGON FROM LOGO - USERID PROVIDED
		..1. ....		PLBPSWDD	LOGON FROM LOGO - PASSWORD PROVIDED
		...1 ....		PLBCMDDD	LOGON FROM LOGO - COMMAND PROVIDED
		.... 1111		*	AVAILABLE - NOT USED
126	(7E)	CHARACTER	6	PLBDSPLG	LOGO INPUT SCREEN START BUFFER ADDRESSES
126	(7E)	CHARACTER	2	PLBUSRFD	LOGO USER ID START BUFFER ADDRESS
128	(80)	CHARACTER	2	PLBCMDFD	LOGO COMMAND START BUFFER ADDRESS
130	(82)	CHARACTER	2	*	NOT USED - AVAILABLE
132	(84)	CHARACTER	36	PLBACCT	PRESENTATION SERVICES ACCOUNTING DATA.
132	(84)	CHARACTER	4	PLBAOVF	OVERFLOW WORD
132	(84)	UNSIGNED	1	PLBAOIR	PLBANIR OVERFLOW
133	(85)	UNSIGNED	1	PLBAOIB	PLBANIB OVERFLOW
134	(86)	UNSIGNED	1	PLBAOOR	PLBANOR OVERFLOW
135	(87)	UNSIGNED	1	PLBAOOB	PLBANOB OVERFLOW
136	(88)	SIGNED	4	PLBANIR	NUMBER RUS FOR INPUT
140	(8C)	SIGNED	4	PLBANIB	TOTAL NUMBER INPUT BYTES
144	(90)	SIGNED	4	PLBANOR	NUMBER RUS FOR OUTPUT
148	(94)	SIGNED	4	PLBANOB	TOTAL NUMBER OUTPUT BYTES
152	(98)	SIGNED	4	PLBANOL	NUMBER OF CONSOLE OUTPUT LINES NOTE THIS DOES NOT APPLY FOR KEYBOARD/PRINTERS SINCE VM CONTROLS LINESIZE
156	(9C)	SIGNED	4	PLBACOPY	NUMBER OF COPY REQUESTS ISSUED BY THIS USER.
160	(A0)	CHARACTER	8	PLBALGNT	TIMESTAMP OF LOGON
168	(A8)	ADDRESS	4	PLBRDPW2	SECOND READ FOR LU
172	(AC)	UNSIGNED	2	PLBLSIZE	DISPLAY LOGICAL LINESIZE



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
174	(AE)	CHARACTER	2	*	NOT USED - AVAILABLE
176	(B0)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

**Constants**

Len	Type	Value	Name	Description
THE FOLLOWING IS THE CONSTANTS SECTION FOR THE DTIPLB				
0	BIT	00	PLBSMCP	SCREEN MODE - CP (CONSOLE) MODE
0	BIT	01	PLBSMMAR	SCREEN MODE - VIRTUAL MACHINE MODE STATE BETWEEN AN ATTN AND A READ, QUEUE CP MESSAGES.
0	BIT	10	PLBSMVQM	SCREEN MODE - VIRTUAL MACHINE MODE, QUEUE CP MESSAGES.
0	BIT	11	PLBSMVSA	SCREEN MODE - VIRTUAL MACHINE MODE, SCREEN AVAILABLE FOR MODE SWITCHING.

FULLSCREEN CONSTANTS

NOTE - SHOULD BE SAME AS THE FULL SCREEN SUPPORT MODE (FSSM)  
 CONSTANTS FOR THE WEBFUN FIELD IN THE DTIWEB.

1	HEX	00	PLBFSWRT	FSSM WRITE
1	HEX	01	PLBFSEWT	FSSM ERASE/WRITE
1	HEX	02	PLBFSEWA	FSSM ERASE/WRITE ALTERNATE
1	HEX	03	PLBFSRDM	FSSM READ MODIFIED
1	HEX	04	PLBFSRDB	FSSM READ BUFFER
1	HEX	05	PLBFSWSF	FSSM WRITE STRUCTURED FIELD
1	HEX	06	PLBFSEAU	FSSM ERASE ALL UNPROTECTED
1	HEX	07	PLBFSRBP	FSSM READ BUFFER
1	HEX	08	PLBFSRMP	FSSM READ MODIFIED

CONSTANT USED TO SEE IF THE ONLY PLBNOM FLAG ON IS THE REDISPLAY FLAG.

NOTE - DEPENDENT UPON POSITION OF PLBRDPND

2	HEX	0080	PLBNRDPD	
1	HEX	00	PLBCHF0	EBCDIC
1	HEX	01	PLBCHAPL	APL
1	HEX	02	PLBCHTN	TEXT

DESCRIPTION: NAMES OF DTIPSTAM STATES

FUNCTION: TO IDENTIFY THE LBCSTATE THAT A LOGICAL UNIT IS IN FOR THE PRESENTATION SERVICES COMPONENT (THESE CONSTANTS ARE NOT USED FOR THE VTAM SERVICES COMPONENT). THE LBCSTATE AND THE WEBFUN OF THE INPUT DTIWEB ARE USED TO INDEX THE STATE MANAGER MATRICES TO DETERMINE WHAT MODULE IS TO GET CONTROL TO PERFORM PROCESSING ON BEHALF OF THE LOGICAL UNIT.

NOTES:

1. THE NAMING CONVENTION IS AS FOLLOWS:

THE CHARACTERS PLB FOLLOWED BY ONE OF THE FOLLOWING:

IN (INTERNAL MODE) CM (CMS MODE)

FS (FULL SCREEN SUPPORT MODE) CN (CONSOLE MODE)

FOLLOWED BY A ONE, TWO OR THREE LETTER STATE INDICATING THE PARTICULAR SUBSET OF THAT MODE.

2. THE DTILBC MAPS THE PLBLCOM PORTION OF THE DTIPLB.

INTERNAL MODE STATES - P L B I N \_ \_ \_ \_

1	HEX	80	PLBINLIP	LOGON IN PROGRESS
1	HEX	81	PLBINLUP	LOGO UP
1	HEX	82	PLBINICIP	CONNECT IN PROGRESS
1	HEX	83	PLBINIIP	INLOG IN PROGRESS
1	HEX	84	PLBINAWL	ATTENTION WAIT BEFORE LOGO
1	HEX	85	PLBINLGF	LOGOFF
1	HEX	86	PLBINCLF	CONDITIONAL LOGOFF
1	HEX	87	PLBINSVR	SEVER REQUIRED
1	HEX	88	PLBINPRG	PURGE IN PROGRESS

CONSOLE MODE STATES - P L B C N \_ \_ \_ \_

Len	Type	Value	Name	Description
1	HEX	00	PLBCNNMH	NO MORE/HOLDING
CMS MODE STATES - P L B C M _ _ _				
1	HEX	01	PLBCMMS	CMS MODE
ADVANTAGE II HIGHLIGHTING CONSTANTS				
1	HEX	00	PLBHINRM	DEFAULT (NORMAL)
1	HEX	10	PLBHIBLK	BLINK
1	HEX	20	PLBHIREV	REVERSE/VIDEO
1	HEX	30	PLBHIUND	UNDERLINE
ADVANTAGE II COLOR CONSTANTS				
1	HEX	00	PLBCLNRM	DEFAULT NORMAL (MONOCHROME)
1	HEX	01	PLBCLBLU	BLUE
1	HEX	02	PLBCLRED	RED
1	HEX	03	PLBCLPNK	PINK
1	HEX	04	PLBCLGRE	GREEN
1	HEX	05	PLBCLTRQ	TURQUOISE
1	HEX	06	PLBCLYEL	YELLOW
1	HEX	07	PLBCLWHT	NEUTRAL (WHITE)

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DTIPLB	0		1	PLBDIARP	60		3
PLBACCT	84		2	PLBDMASK	6F	01	4
PLBACOPY	9C		3	PLBDNEW	6F	40	4
PLBALGNT	A0		3	PLBDSABA	66		3
PLBANIB	8C		3	PLBDSARP	64		3
PLBANIR	88		3	PLBDSB	6A		3
PLBANOB	94		3	PLBDSPLG	7E		2
PLBANOL	98		3	PLBDSUBT	6E		3
PLBANOR	90		3	PLBDSW	68		3
PLBAOIB	85		4	PLBDTYPE	6D		3
PLBAOIR	84		4	PLBDXCLR	6F	08	5
PLBAOOB	87		4	PLBDXHLI	6F	04	5
PLBAOOR	86		4	PLBDXTDS	6F	10	5
PLBAOVF	84		3	PLBEDCUP	59	01	5
PLBBEEP	5B	02	4	PLBEDIT	59		4
PLBBRKNN	5A	10	5	PLBEDPTI	59	04	5
PLBCEND	43	80	5	PLBENVR	58		3
PLBCHAR	58		4	PLBEWCM	6C		3
PLBCHCPO	70		4	PLBFCLGF	18	04	4
PLBCHINA	73		4	PLBFMRR	18	02	4
PLBCHINR	72		4	PLBFCNMP	18	10	4
PLBCHMAP	70		3	PLBFLG1	1A		3
PLBCHSTA	74		4	PLBFLG2	7D		2
PLBCHVMO	71		4	PLBFPA1	18	80	4
PLBCL	38		3	PLBFSAFC	18	20	4
PLBCLRIA	43	08	5	PLBFSCLR	5B	80	4
PLBCLROA	43	10	5	PLBFSPND	5B	01	4
PLBCMDDD	7D	10	3	PLBFSRBI	5B	40	4
PLBCMDFD	80		3	PLBFSRBS	5B	04	4
PLBCMSEW	18	01	4	PLBFSRFC	18	40	4
PLBCNCTI	1A	08	4	PLBFSSBA	76		2
PLBCNTS	7C		2	PLBFSSMF	18		3
PLBCONCT	1A	10	4	PLBFSSM1	5B		3
PLBCONMD	5B	08	4	PLBFVSIP	18	08	4
PLBDASS	6F	80	4	PLBHIEKO	59	08	5
PLBDATTN	6F	02	4	PLBIAFLG	5A		4
PLBDCBBA	5E		3	PLBIATTI	4C		3
PLBDCBRP	5C		3	PLBIATTN	5A		3
PLBDCH	6F	10	4	PLBIFRPW	50		3
PLBDEV	5C		2	PLBIFSBW	78		2
PLBDFLG1	6F		3	PLBIFSIW	54		3
PLBDIABA	62		3	PLBIM	48		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
PLBINAR	1A	40	4	PLBXBA	30		3
PLBINREC	1A	04	4				
PLBIPA1	5A	20	5				
PLBLCOM	0		2				
PLBLERR	19	10	4				
PLBLFLG1	19		3				
PLBLFLNP	1A	20	4				
PLBLGFC	19	40	4				
PLBLGFU	19	20	4				
PLBLGO	1A	80	4				
PLBLLERR	19	08	4				
PLBLNSTR	19	01	4				
PLBLSEVR	19	02	4				
PLBLSIZE	AC		2				
PLBLVERR	19	04	4				
PLBLVS	19	80	4				
PLBMATTN	5A	80	5				
PLBNCONV	59	80	5				
PLBNFLG1	43		4				
PLBNFLG2	44		4				
PLBNLXB	34		3				
PLBNOEKO	59	02	5				
PLBNOM	43		3				
PLBNOVCK	6F	20	4				
PLBOCFLG	41		4				
PLBOCLGF	41	20	5				
PLBOCLUN	41	80	5				
PLBOCPY	3C		3				
PLBOCRBF	41	40	5				
PLBOCRRQ	45	02	4				
PLBOCSLN	41	10	5				
PLBOCTAB	3C		4				
PLBOCTYP	40		4				
PLBOEXRQ	45	01	4				
PLBOFLG1	45		3				
PLBOFSCE	42		3				
PLBOKLOK	45	10	4				
PLBOKPMI	45	08	4				
PLBOM	1C		2				
PLBOSRIP	45	20	4				
PLBOSWRT	45	04	4				
PLBPACE	3A		3				
PLBPASPA	5B	20	4				
PLBPRCL	46		3				
PLBPRLBC	1B		3				
PLBPRMPT	1A	02	4				
PLBPRMTW	3C		5				
PLBPSMSG	45	40	4				
PLBPSWDD	7D	20	3				
PLBRDPND	44	80	5				
PLBRDPW	48		3				
PLBRDPW2	A8		2				
PLBRDTX	43	40	5				
PLBRING	43	04	5				
PLBRRRQ	20		3				
PLBSAC	43	20	5				
PLBSATTN	5A	40	5				
PLBSDIAG	45	80	4				
PLBSDIAL	1A	01	4				
PLBSIPPQ	28		3				
PLBSM	18		2				
PLBUNLK	43	01	5				
PLBUSRFD	7E		3				
PLBUSRID	7D	40	3				
PLBVSND	1C		3				
PLBWRTRY	7C		3				
PLBWSFRO	5B	10	4				

## VSCS Initialization Parameters (PRM)

<b>Function:</b>	DTIPRM contains initialization parameters and start options used by VSCS.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	656 (X'290')
<b>Located in:</b>	DTIIPARM.
<b>Additional Notes:</b>	DTIPRM maps the VSCS initialization parameters and start options. You may change these parameters by coding the DTIGEN macroinstruction, or some may be altered by the CHANGE command after VSCS initialization completes.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	656	DTIPRM	
0	(0)	CHARACTER	16	PRMPRMID	MODULE TAG FOR DTIIPARM
0	(0)	UNSIGNED	1	*	LENGTH OF MODULE TAG
1	(1)	CHARACTER	8	PRMNAME	MODULE NAME
9	(9)	CHARACTER	1	*	RESERVED
10	(A)	CHARACTER	1	*	SPACE
11	(B)	CHARACTER	5	PRMDATE	DATE COMPILED
16	(10)	SIGNED	4	PRMRECBL	RECEIVE BUFFER LENGTH
20	(14)	SIGNED	4	PRMTTS	NUMBER ENTRIES IN TRACE TABLE
24	(18)	SIGNED	2	PRMKPACE	PACE VALUE FOR KEYBOARD PRINTERS
26	(1A)	SIGNED	2	PRMDPACE	PACE VALUE FOR DISPLAYS
28	(1C)	SIGNED	2	PRMVSAML	VSCS MESSAGE LIMIT
30	(1E)	SIGNED	2	PRMTSKRC	TASK RETRY COUNT
32	(20)	SIGNED	2	PRMTABRC	RETRY COUNT FOR VTAM MACROS TO AN LU
34	(22)	SIGNED	2	PRMPRTN	MAXIMUM NUMBER PRINTER LU(S)
36	(24)	SIGNED	4	PRMXTDSP	TRANSMIT (XMIT) BUFFER SIZE FOR DISPLAYS.
40	(28)	SIGNED	4	PRMXTKP	TRANSMIT (XMIT) BUFFER SIZE FOR KEYBOARD/PRINTER.
44	(2C)	SIGNED	4	PRMCPYW	TIMER VALUE, IN SECONDS TO WAIT TO OBTAIN A PRINTER THAT IS NOT LOGGED ON
48	(30)	SIGNED	4	PRMPRTW	TIMER VALUE IN SECONDS FOR A PRINTER TO BE FREE BEFORE RELEASING IT TO ANOTHER APPLICATION
52	(34)	CHARACTER	1	*	RESERVED
53	(35)	CHARACTER	1	PRMPPTSHR	ENABLE PRINTER SHARING, DEFAULT IS ENABLED
54	(36)	SIGNED	2	PRMRTIMV	REDISPLAY TIMER VALUES FOR CCS IN SIXTEENTHS OF A SECOND.
56	(38)	UNSIGNED	1	PRMNRPL	NUMBER OF RPLS
57	(39)	CHARACTER	1	PRMCONF	CONFIDENTIAL TEXT
58	(3A)	UNSIGNED	1	PRMTWXW	LINELENGTH FOR TWX KEYBOARD PRINTERS
59	(3B)	CHARACTER	9	PRMAILAI	APPLICATION ID LENGTH AND APPLICATION IDENTIFIER.
59	(3B)	UNSIGNED	1	PRMAPIDL	APPLICATION IDENTIFIER LENGTH
60	(3C)	CHARACTER	8	PRMAPID	APPLICATION IDENTIFIER
60	(3C)	CHARACTER	8	PRMVSAE	VSCS SOURCE ID
68	(44)	CHARACTER	9	PRMAPLAP	APPLICATION PASSWORD LENGTH AND APPLICATION PASSWORD.
68	(44)	UNSIGNED	1	PRMPWRDL	APPLICATION PASSWORD LENGTH
69	(45)	CHARACTER	8	PRMPWRD	APPLICATION PASSWORD
77	(4D)	CHARACTER	9	PRMFLGS	DTIIPARM PARAMETER FLAGS
77	(4D)	CHARACTER	1	PRMGTRAC	GET BLOCK TRACING
78	(4E)	CHARACTER	1	PRMCTRAC	CCS TRACE FLAG
79	(4F)	CHARACTER	1	PRMETRAC	EXTERNAL TRACING
80	(50)	CHARACTER	1	PRMDTRAC	DISPATCHER TRACE
81	(51)	CHARACTER	1	PRMVTRAC	VTAM TRACE FLAG
82	(52)	CHARACTER	1	PRMFTRAC	FREE BLOCK TRACE
83	(53)	CHARACTER	1	PRMDEXIT	ACTIVATE DISPLAY EXITS
84	(54)	CHARACTER	1	PRMBUFDQ	DTISGETB DEQUEUE TYPE - DEQUEUE FIFO = 'Y', LIFO = 'N'.
85	(55)	CHARACTER	1	PRMKEXIT	ACTIVATE K/P EXITS
86	(56)	CHARACTER	1	PRMSCHED	EXCEPTION RESPONSE MODE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
87	(57)	CHARACTER	1	PRMSPECF	RECEIVE SPECIFIC
88	(58)	SIGNED	2	PRMSCIPC	SCIP EXIT COUNT
90	(5A)	CHARACTER	24	PRMUSER	USER FIELD - NOT RESERVED
114	(72)	UNSIGNED	1	PRMBMULT	BLOCK MULTIPLIER
115	(73)	UNSIGNED	1	PRM3767W	LINELENGTH FOR 3767/3777 KEYBOARD PRINTERS
116	(74)	UNSIGNED	1	PRM2741W	LINELENGTH FOR 2741 KEYBOARD PRINTERS
117	(75)	CHARACTER	1	PRMFSRDB	FULL SCREEN READ
118	(76)	SIGNED	2	PRMALOOP	NUMBER OF RETRIES FOR ACB LOOP
120	(78)	SIGNED	4	PRMCHKTM	STORAGE CHECK TIME
124	(7C)	SIGNED	4	PRMRELTM	STORAGE RELEASE TIME
128	(80)	SIGNED	4	*	RESERVED
132	(84)	SIGNED	4	*	RESERVED
136	(88)	UNSIGNED	1	*	RESERVED
137	(89)	UNSIGNED	1	*	RESERVED
138	(8A)	SIGNED	2	*	RESERVED
140	(8C)	SIGNED	2	*	RESERVED
142	(8E)	SIGNED	2	PRMLTL	NUMBER ENTRIES IN PRMLGNT
144	(90)	CHARACTER	8	PRMLGNT (64)	PRE-LOGON COMMAND TABLE -

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DTIPRM	0		1	PRMUSER	5A		2
PRMAILAI	3B		2	PRMVSAE	3C		4
PRMALOOP	76		2	PRMVSAML	1C		2
PRMAPID	3C		3	PRMVTRAC	51		3
PRMAPIDL	3B		3	PRMXTDSP	24		2
PRMAPLAP	44		2	PRMXTKP	28		2
PRMBMULT	72		2	PRM2741W	74		2
PRMBUFDQ	54		3	PRM3767W	73		2
PRMCHKTM	78		2				
PRMCONFT	39		2				
PRMCPYW	2C		2				
PRMCTRAC	4E		3				
PRMDATE	B		3				
PRMDEXIT	53		3				
PRMDPACE	1A		2				
PRMDTRAC	50		3				
PRMETRAC	4F		3				
PRMFLGS	4D		2				
PRMFSRDB	75		2				
PRMFTRAC	52		3				
PRMGTRAC	4D		3				
PRMKEXIT	55		3				
PRMKPACE	18		2				
PRMLGNT	90		2				
PRMLTL	8E		2				
PRMNAME	1		3				
PRMNRPL	38		2				
PRMPRMID	0		2				
PRMPRTN	22		2				
PRMPRTW	30		2				
PRMPTSHR	35		2				
PRMPWRD	45		3				
PRMPWRDL	44		3				
PRMRECB	10		2				
PRMRELTM	7C		2				
PRMRTIMV	36		2				
PRMSCHED	56		2				
PRMSCIPC	58		2				
PRMSPECF	57		2				
PRMTABRC	20		2				
PRMTSKRC	1E		2				
PRMTTS	14		2				
PRMTWXW	3A		2				

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## VSCS Queue Header (QHDR)

<b>Function:</b>	DTIQHDR identifies the queue and serves as an anchor for the queue by pointing to the last element in the queue.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	8
<b>Additional Notes:</b>	See DTICBI for queue tag identifiers.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	DTIQHDR	
0	(0)	CHARACTER	4	*	
0	(0)	CHARACTER	2	QHDRQTAG	QUEUE TAG. NOTE-DTICBI CONTAINS ALL THE TAGS AND WHAT CONTROL BLOCK FIELDS USE THEM.
2	(2)	BITSTRING	1	QHRRSV1	RESERVED - NULL
3	(3)	BITSTRING	1	QHRRSV2	RESERVED - NULL
4	(4)	ADDRESS	4	QHDRTPTR	POINTER TO TAIL OF THE QUEUE

## Service Application Block (SAB)

<b>Function:</b>	DTISAB contains status and other information about all VSCS tasks and components. It includes anchor points for the DTITAB chain and DTITAB recovery chain.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	360 (X'168')
<b>Located in:</b>	DTIISDA1.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	360	DTISAB	
0	(0)	CHARACTER	8	SABEHDR	DTISAB ELEMENT HEADER
8	(8)	CHARACTER	8	SABTQHDR	QUEUE HEADER FOR DTITAB CHAIN
16	(10)	CHARACTER	8	SABSCHDR	QUEUE HEADER FOR DTITAB CHAIN IN SCIP EXIT RECOVERY
24	(18)	SIGNED	4	SABVSTAB	ADDRESS OF DTITAB FOR OPERATOR COMMANDS
28	(1C)	SIGNED	4	SABVTCB	THE VTAM SUBTASK TASK ID
32	(20)	SIGNED	4	SABPTCB	THE PRESENTATION SERVICES TASK ID
36	(24)	SIGNED	4	SABUTCB	THE UTILITY SUBTASK TASK ID
40	(28)	ADDRESS	4	SABTRHDR	ADDRESS OF TRACE TABLE HEADER
44	(2C)	ADDRESS	4	SABVTERM	ECB TO NOTIFY VTAM SERVICES THAT PRESENTATION SERVICES HAS ENDED AND THAT VTAM SERVICES CAN NOW TERMINATE.
48	(30)	ADDRESS	4	SABVEOT	END OF TASK ECB FOR VTAM SERVICES.
52	(34)	ADDRESS	4	SABUEOT	END OF TASK ECB FOR UTILITY TASK.
56	(38)	BITSTRING	4	SABIQECB	POSTED IF ERROR OCCURS WHILE DISABLED.
60	(3C)	CHARACTER	4	SABFLGS1	
60	(3C)	CHARACTER	1	SABFLG1	FIRST SET OF DTISAB FLAGS
		1... ..		*	NOT USED AVAILABLE
		.1. ....		SABVSCSV	VSCS RUNNING IN VTAM MACHINE YES='1'
		..1. ....		SABDUIP	DUMP IN PROGRESS - YES = 1.
		...1 ....		SABCSOPN	IUCVINI SET DONE = 1.
		.... 1..		SABBUFDQ	DTISGETB DEQUEUE TYPE - FIFO = ON, LIFO = OFF.
		.... .1..		SABGETFL	GETMAIN FAILED - YES = 1
		.... ..1.		SABNEWLG	NEW LOGO FORMAT ALLOWED
		.... ...1		SABVEIBS	VEIB SHORTAGE HAS OCCURRED
61	(3D)	CHARACTER	1	SABABIPF	ABEND IN PROGRESS FLAGS
		1... ..		SABVABIP	VTAM SERVICES ABEND IN PROGRESS
		.1. ....		SABPABIP	PRESENTATION SERVICES ABEND IN PROGRESS
		..1. ....		SABUABIP	UTILITY SERVICES ABEND IN PROGRESS
		...1 1111		*	RESERVED
62	(3E)	CHARACTER	1	SABTFLG1	GLOBAL TERMINATION FLAGS
		1... ..		SABTETPE	TPEND IN PROGRESS - YES = 1.
		.1. ....		SABTESIQ	TERMINATION SCHEDULED BY IQUIT - YES = 1.
		..1. ....		SABTETIP	TERMINATION IN PROGRESS - YES = 1.
		...1 ....		SABTEATP	ABNORMAL TERMINATION IN PROGRESS - YES = 1.
		.... 1111		*	RESERVED
63	(3F)	CHARACTER	1	SABRFLG1	GLOBAL RECOVERY FLAGS
		1... ..		SABVSCTL	VS TASK IN CONTROL - YES = 1.
		.1. ....		SABPSCTL	PS TASK IN CONTROL - YES = 1.
		..1. ....		SABTICTL	TIMER EXIT IN CONTROL - YES = 1
		...1 ....		SABCXCTL	COMMUNICATION SERVICES EXIT IN CONTROL - YES = 1.
		.... 1111		*	RESERVED
64	(40)	CHARACTER	8	SABCCNTS	
64	(40)	SIGNED	4	SABCURCT	CURRENT NUMBER OF CP CONNECTIONS
68	(44)	SIGNED	4	SABMAXCT	MAXIMUM NUMBER OF CP CONNECTIONS ACTIVE AT ONE TIME
72	(48)	CHARACTER	8	SABSLUTT (32)	THE LUNAMES OF THE LOGICAL UNITS BEING SELECTIVELY TRACED.
328	(148)	SIGNED	2	SABTRLCT	COUNT FOR NUMBER LU(S) BEING SELECTIVELY TRACED

Offsets								
Dec	Hex	Type	Len	Name (Dim)	Description			
330	(14A)	CHARACTER	1	SABTRFLG	TRACE FLAGS			
		1... ....		SABTREXT	EXTERNAL TRACE			
		.1.. ....		SABTRLUN	TRACE LU(S) SELECTIVELY=1 NON-SELECTIVE=0			
		..1. ....		SABTRDIS	DTIPSTAM DISPATCHER TRACE FLAG ACTIVE			
		...1 ....		SABTRCCS	CCS TRACE ACTIVE			
		.... 1..		SABTRVTM	VTAM TRACE ACTIVE			
		.... .1..		SABTRDAT	DATA TRACE ACTIVE			
		.... ..1.		SABTRGET	GET TRACE ACTIVE			
		.... ...1		SABTRFRE	FREE TRACE ACTIVE			
		331		(14B)	CHARACTER	1	SABATTCH	TASK ATTACH BITS
		1... ....			SABATTUS		UTILITY TASK ATTACHED	
.1.. ....	SABATTVS	VTAM SERVICES ATTACHED						
..11 ....	*	NOT USED - AVAILABLE						
.... 1..	SABTECHK	STORAGE CHECK TIME HAS EXPIRED						
.... .1..	SABTEREL	STORAGE RELEASE TIME HAS EXPIRED						
.... ..1.	SABINVQT	INVALID TERMINATION REQUEST DETECTED - YES = 1.						
.... ...1	*	NOT USED - AVAILABLE						
332	(14C)	UNSIGNED	1	SABDUIDC	DUMP ID COUNT			
333	(14D)	UNSIGNED	1	SABTGTCT	DTISGETM FAILURE COUNT FOR TRACE TABLE.			
334	(14E)	UNSIGNED	2	SABKEY	VSCS PSW KEY			
336	(150)	ADDRESS	4	SABISDA2	ADDRESS OF DTIISDA2			
340	(154)	ADDRESS	4	SABISTR	ADDRESS OF DTIISTR			
344	(158)	SIGNED	4	SABNVEIB	NUMBER OF VEIBS ALLOCATED			
348	(15C)	UNSIGNED	2	*	RESERVED			
350	(15E)	CHARACTER	1	*	RESERVED			
		1... ....		*	RESERVED			
		.1.. ....		*	RESERVED			
		..11 1111		*	NOT USED - AVAILABLE			
		351		(15F)	CHARACTER	1	*	RESERVED
1... ....	*	RESERVED						
.1.. ....	*	RESERVED						
..1. ....	*	RESERVED						
.... ..1.	*	NOT USED - AVAILABLE						
.... ...1	*	NOT USED - AVAILABLE						
352	(160)	CHARACTER	8	*	RESERVED			
360	(168)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.			

**Constants**

Len	Type	Value	Name	Description
1	DECIMAL	10	SABTGMX	MAXIMUM NUMBER DTISGETM FAILURES ALLOWED FOR ALLOCATING TRACE TABLE
4	HEX	20000000	SABDUIPT	CONSTANT USED TO DETERMINE IF DUMP FILE IS IN USE.
4	HEX	00002000	SABTETIM	CONSTANT USED TO DETERMINE IF TERMINATION IN PROGRESS
4	HEX	00004000	SABTESIM	CONSTANT USED TO DETERMINE IF TERMINATION SCHEDULED BY DTIIQUIT.



## Cross Reference

Name	Hex Offset	Hex Value	Level
DTISAB	0		1
SABABIPF	3D		3
SABATTCH	14B		2
SABATTUS	14B	80	3
SABATTVS	14B	40	3
SABBUFDQ	3C	08	4
SABCCNTS	40		2
SABCSOPN	3C	10	4
SABCURCT	40		3
SABCXCTL	3F	10	4
SABDUIDC	14C		2
SABDUIP	3C	20	4
SABEHDR	0		2
SABFLGS1	3C		2
SABFLG1	3C		3
SABGETFL	3C	04	4
SABINVQT	14B	02	3
SABIQECB	38		2
SABISDA2	150		2
SABISTR	154		2
SABKEY	14E		2
SABMAXCT	44		3
SABNEWLG	3C	02	4
SABNVEIB	158		2
SABPABIP	3D	40	4
SABPSCTL	3F	40	4
SABPTCB	20		2
SABRFLG1	3F		3
SABSCHDR	10		2
SABSLUTT	48		2
SABTEATP	3E	10	4
SABTECHK	14B	08	3
SABTEREL	14B	04	3
SABTESIQ	3E	40	4
SABTETIP	3E	20	4
SABTETPE	3E	80	4
SABTFLG1	3E		3
SABTGTCT	14D		2
SABTICTL	3F	20	4
SABTQHDR	8		2
SABTRCCS	14A	10	3
SABTRDAT	14A	04	3
SABTRDIS	14A	20	3
SABTREXT	14A	80	3
SABTRFLG	14A		2
SABTRFRE	14A	01	3
SABTRGET	14A	02	3
SABTRHDR	28		2
SABTRLCT	148		2
SABTRLUN	14A	40	3
SABTRVTM	14A	08	3
SABUABIP	3D	20	4
SABUEOT	34		2
SABUTCB	24		2
SABVABIP	3D	80	4
SABVEIBS	3C	01	4
SABVEOT	30		2
SABVSCSV	3C	40	4
SABVSCTL	3F	80	4
SABVSTAB	18		2
SABVTCB	1C		2
SABVTERM	2C		2

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## Segment Descriptor Block (SDB)

<b>Function:</b>	DTISDB contains information about each dynamic storage segment obtained.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	24 (X'18')
<b>Pointed to by:</b>	PDBCRSDB in DTIPDB
<b>Additional Notes:</b>	DTISDB maps the beginning of each dynamic storage segment.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	24	DTISDB	
0	(0)	CHARACTER	8	SDBEHDR	SDB ELEMENT HEADER
8	(8)	CHARACTER	8	SDBFBQHR	SDB FREE BLOCK QUEUE HEADER
16	(10)	ADDRESS	4	SDBPDBPT	PDB POINTER (BACK POINTER)
20	(14)	SIGNED	4	SDBFBCNT	FREE BLOCK COUNT
24	(18)	CHARACTER	*		TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

## Storage Manager Prefix (SMP)

<b>Function:</b>	DTISMP is the prefix to VSCS control blocks in dynamic storage or the prefix of a static storage segment.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	8
<b>Pointed to by:</b>	DTISDB free queue, if available (only for dynamic storage).

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	DTISMP		
0	(0)	CHARACTER	8	SMPEHDR	SMP, ELEMENT HEADER	
0	(0)	CHARACTER	2	SMPRETAG	ELEMENT REQUEST TAG. SEE DTICBI CONTROL BLOCK FOR FIELD VALUES	
2	(2)	BITSTRING	2	*	NOT USED - AVAILABLE	
4	(4)	ADDRESS	4	SMPCPTR	WHEN BLOCK IS ALLOCATED: POINTER TO THE ASSOCIATED SEGMENT DESCRIPTOR BLOCK. WHEN BLOCK IS AVAILABLE: CHAIN POINTER FOR AVAILABLE STORAGE. (QUEUED FROM THE SEGMENT DESCRIPTOR BLOCK.	
4	(4)	SIGNED	4	SMPLNGTH	IF SMPRETAG=CBISMP, THIS CONTAINS THE LENGTH OF THIS STORAGE AREA (IN DOUBLEWORDS)	

## Message Status Table (STATS)

<b>Function:</b>	DTISTATS maps the display status area table, which contains all possible display status area states and the system ID.
<b>Boundary:</b>	Byte.
<b>Size in bytes:</b>	171 (X'AB')
<b>Located in:</b>	DTIISDA1

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	171	DTISTATS	
0	(0)	CHARACTER	19	STATES (9)	

### Constants

Len	Type	Value	Name	Description
4	DECIMAL	2	STULOWER	LOWER BOUND FOR SYSTEM ID INSERTION
4	DECIMAL	6	STUUPPER	UPPER BOUND FOR SYSTEM ID INSERTION

## Save/Work Block (SWB)

<b>Function:</b>	DTISWB enables modules to be re-entrant by providing a standard register save area, a variable work area, and storage for a parameter list.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	72 (X'48')
<b>Located in:</b>	DTIISDA1 and DTIISDA2.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	72	DTISWB	
0	(0)	CHARACTER	4	SWBFIRST	FIRST WORD OF SAVE AREA
0	(0)	CHARACTER	4	SWBMID	MODULE ID (SET BY DTINTRY MACRO (NOT CHANGED BY DTIEXIT)
0	(0)	CHARACTER	3	*	
3	(3)	UNSIGNED	1	SWBXRC	EXIT RETURN CODE (SET BY DTIEXIT MACRO)
4	(4)	ADDRESS	4	SWBPSWB	POINTER TO PREVIOUS SAVE AREA
8	(8)	ADDRESS	4	SWBNSWB	POINTER TO NEXT SAVE AREA
12	(C)	CHARACTER	60	SWBSAVE	REGISTER SAVE AREA
12	(C)	ADDRESS	4	SWBREGS (15)	REGISTERS 14-12

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	SWBWORKS	FORCE DOUBLEWORD BOUNDARY FOR THE WORK AREA.
0	(0)	SIGNED	4	SWBWORK (8)	THE 32 BYTE WORK AREA.

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTISWB	0		1
SWBFIRST	0		2
SWBMID	0		3
SWBNSWB	8		2
SWBPSWB	4		2
SWBREGS	C		3
SWBSAVE	C		2
SWBWORK	0		2
SWBWORKS	0		1
SWBXRC	3		4

## Terminal Anchor Block (TAB)

<b>Function:</b>	DTITAB contains data pertaining to an individual logical unit, and points to all other logical unit-related control blocks (DTIPIB, DTIPLB, DTICLB, and DTIVLB) for this logical unit.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	88 (X'58')
<b>Pointed to by:</b>	DSBTAB in DTIDSB - current TAB PACTTAB in DTIPACT - printer address PIBTAB in DTIPIB - logical unit PLBOCTAB in DTIPLB - copy TAB RPLUSFLD in IFGRPL SABTQHDR in DTISAB - queue header SABSCHDR in DTISAB - queue header in SCIP exit recovery DTITREC TRQTAB in DTITRQ

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	88	DTITAB	
0	(0)	CHARACTER	8	TABEHDR	DTITAB ELEMENT HEADER
8	(8)	ADDRESS	4	TABPLB	POINTER TO DTIPLB
12	(C)	ADDRESS	4	TABVLB	POINTER TO DTIVLB
16	(10)	ADDRESS	4	TABCLB	POINTER TO DTICLB
20	(14)	ADDRESS	4	TABPPIB	POINTER TO PRESENTATION SERVICES DTIPIB.
24	(18)	ADDRESS	4	TABVPIB	POINTER TO VTAM SERVICES DTIPIB
28	(1C)	ADDRESS	4	TABTIMER (7)	ARRAY OF PENDING TIMER WEB ADDRESSES: TABTMNAL, TABTMM10, TABTMM50, TABTMF60, TABTMCPY TABTMPRT AND TABTMKPA
56	(38)	ADDRESS	4	TABLGDA	ADDRESS OF LOGON DATA
60	(3C)	CHARACTER	21	TABDEVCH	DEVICE CHARACTERISTICS
60	(3C)	SIGNED	4	TABMXRU	MAXIMUM RU SIZE
64	(40)	CHARACTER	8	TABLUNM	LUNAME
72	(48)	UNSIGNED	1	TABDTYPE	DEVICE TYPE: DISPLAY, KEYBOARD/PRINTER, OR PRINTER.
73	(49)	UNSIGNED	1	TABDSUBT	DEVICE SUB-TYPE FOR K/P
74	(4A)	UNSIGNED	1	TABALTSW	ALTERNATE SCREEN WIDTH
75	(4B)	UNSIGNED	1	TABALTSW	ALTERNATE SCREEN DEPTH
76	(4C)	UNSIGNED	1	TABDEFSW	DEFAULT SCREEN WIDTH
77	(4D)	UNSIGNED	1	TABDEFSD	DEFAULT SCREEN DEPTH
78	(4E)	UNSIGNED	1	TABPSPFL	LU TYPE (PRESENTATION SPACE PROFILE).
79	(4F)	CHARACTER	1	TABDCNEW	VALUE DEPENDS ON CONFIRMATION OF VALUE IN TABDNEW: DEVICE TYPE CONFIRMED NEW - YES = '08'X, DEVICE TYPE CONFIRMED OLD - YES = '1D'X, DEVICE TYPE UNCONFIRMED - YES = '00'X.
80	(50)	CHARACTER	1	TABDFLG1	DTITAB FLAGS
		1... ....		TABDNEW	FOR DISPLAYS- NEW/OLD INDICATOR FOR APL AND TEXT DEVICES - NEW = 1, OLD = 0. FOR KEYBOARD/PRINTERS- CORRESPONDENCE=1, EBCD=0.
		.1.. ....		TABALTSS	DEVICE HAS ALTERNATE SCREEN SIZE
		..1. ....		TABDXTDS	EXTENDED DATA STREAM AVAILABLE
		...1 ....		TABPSS	DEVICE ALLOWS PROGRAM SYMBOL SETS
		.... 1...		TAB3278	DEVICE TYPE FOR DISPLAYS. 0=3277 1=3278
		.... .1..		TABAPL2	APL2 AVAILABLE
		.... ..1.		TABDLOGO	TABLGDA CONTAINS A POINTER TO DATA FROM LOGO
		.... ...1		TABNWSFQ	WSFQ 3270 DS NOT ALLOWED
81	(51)	UNSIGNED	1	TABRTYCT	DTITAB RETRY COUNT
82	(52)	SIGNED	2	TABLDLN	LOGON DATA LENGTH
84	(54)	ADDRESS	4	TABQRYD	ADDRESS OF THE WEB THAT CONTAINS THE WSF Q REPLY OR ZERO IF NO WSF Q REPLY
88	(58)	CHARACTER	*		TO FORCE DOUBLEWORD-MULTIPLE

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	4	TABRTYTH	DTITAB RETRY COUNT THRESHOLD.

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTITAB	0		1
TABALTS	4B		3
TABALTS	50	40	4
TABALTS	4A		3
TABAPL2	50	04	4
TABCLB	10		2
TABDCNEW	4F		3
TABDEFS	4D		3
TABDEFS	4C		3
TABDEVCH	3C		2
TABDFLG1	50		3
TABDLOGO	50	02	4
TABDNEW	50	80	4
TABDSUBT	49		3
TABDTYPE	48		3
TABDXTDS	50	20	4
TABEHDR	0		2
TABLDLN	52		2
TABLGDA	38		2
TABLUNM	40		3
TABMXRU	3C		3
TABNWSFQ	50	01	4
TABPLB	8		2
TABPPIB	14		2
TABPSPFL	4E		3
TABPSS	50	10	4
TABQRYD	54		2
TABRTYCT	51		2
TABTIMER	1C		2
TABVLB	C		2
TABVPIB	18		2
TAB3278	50	08	4

## Trace Table Header (THDR)

<b>Function:</b>	DTITHDR serves as a header for the internal trace table.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	64 (X'40')
<b>Pointed to by:</b>	SABTRHDR in DTISAB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	64	DTITHDR	
0	(0)	CHARACTER	8	THDREHDR	DTITHDR ELEMENT HEADER
0	(0)	CHARACTER	2	*	
2	(2)	SIGNED	2	*	NUMBER OF ENTRIES IN TABLE
4	(4)	CHARACTER	4	*	
8	(8)	ADDRESS	4	THDRCURR	POINTER TO CURRENT ENTRY IN TABLE.
12	(C)	ADDRESS	4	THDRFRST	POINTER TO FIRST ENTRY IN TABLE
16	(10)	ADDRESS	4	THDRLAST	POINTER TO LAST ENTRY IN TABLE
20	(14)	ADDRESS	4	THDRGETA	GETMAINED ADDRESS TO BE USED IN FREEING THE TRACE TABLE STORAGE.
24	(18)	CHARACTER	8	THDRRSV1	RESERVED
32	(20)	ADDRESS	4	THDRSDA1	ADDRESS OF DTIISDA1
36	(24)	ADDRESS	4	THDRSDA2	ADDRESS OF DTIISDA2
40	(28)	ADDRESS	4	THDRSTRT	ADDRESS OF DTIISTR
44	(2C)	ADDRESS	4	THDRATCH	ADDRESS OF DTIPATCH
48	(30)	ADDRESS	4	THDRPARG	ADDRESS OF DTIIPARG
52	(34)	CHARACTER	12	THDRRSV2	RESERVED

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTITHDR	0		1
THDRATCH	2C		2
THDRCURR	8		2
THDREHDR	0		2
THDRFRST	C		2
THDRGETA	14		2
THDRLAST	10		2
THDRPARG	30		2
THDRRSV1	18		2
THDRRSV2	34		2
THDRSDA1	20		2
THDRSDA2	24		2
THDRSTRT	28		2



## Trace Record Block (TREC)

<b>Function:</b>	DTITREC serves as a map for trace records built by the trace module.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	32 (X'20') (internal tracing) Variable (external tracing)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	DTITREC	
0	(0)	ADDRESS	4	TRECHDR	TRACE RECORD HEADER
		1... ....		TRECFMT	FORMAT OF TRACE RECORD: IF BIT ON, DATA FORMAT ELSE DTIWEB FORMAT
4	(4)	CHARACTER	28	TRECDATA	TRACE RECORD DATA
4	(4)	CHARACTER	4	TRECPID	IUCV PATH IDS
4	(4)	ADDRESS	2	TRECVSA	PATHID FOR VSCS DTIUCV REQUESTS
6	(6)	BITSTRING	2	TRECVCS	PATHID CP USED FOR CP REQUESTS
8	(8)	BITSTRING	4	TRECCID	VTAM CID FOR THIS LOGICAL UNIT
12	(C)	CHARACTER	1	TRECTYP	TYPE FIELD - FIRST BYTE OF FLOW INDICATOR
13	(D)	CHARACTER	15	TRECCT15	BYTES 2 TO 16 OF DTIWEB CONTROL AREA
13	(D)	CHARACTER	1	TRECSTAT	LBCSTATE
14	(E)	CHARACTER	14	TRECWCT	BYTES 3 TO 16 OF DTIWEB CONTROL AREA
28	(1C)	CHARACTER	4	TRECDTA	FIRST 4 BYTES OF WEB DATA AREA

### TRACE RECORD DECLARE FOR DAT TRACE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	255	TRECDAT	DATA TRACE RECORD
0	(0)	CHARACTER	1	TREDAHDR	HEADER FOR DAT TRACE - 'I' FOR INPUT, 'O' FOR OUTPUT
1	(1)	ADDRESS	3	TREDDATAB	TAB ADDRESS
4	(4)	ADDRESS	4	TREDAWEB	WEB ADDRESS
8	(8)	CHARACTER	1	TREDAFUN	WEBFUN VALUE
9	(9)	CHARACTER	1	TREDAMOD	WEBMOD VALUE
10	(A)	CHARACTER	2	TREDACNT	WEBCOUNT VALUE
12	(C)	CHARACTER	243	TREDADAT	DEFINES MAXIMUM OF 243 BYTES OF DATA USED WHEN EXTERNAL TRACING IS ACTIVE
12	(C)	CHARACTER	20	TREDATIN	DEFINES FIRST 20 BYTES OF DATA FOR INTERNAL TRACING

### TRACE RECORD DECLARE FOR FRE TRACE

0	(0)	STRUCTURE	32	TRECFRE	FREE BLOCK TRACE RECORD
0	(0)	CHARACTER	4	TREFRHDR	HEADER FOR FRE TRACE - 'FREB'
4	(4)	ADDRESS	4	TREFRPDB	DTIPDB ADDRESS
8	(8)	ADDRESS	4	TREFADDR	STORAGE BLOCK ADDRESS
12	(C)	CHARACTER	2	TREFRBID	STORAGE BLOCK ID
14	(E)	CHARACTER	2	TREFRHID	STORAGE HEADER ID
16	(10)	CHARACTER	4	*	ADDITIONAL TRACE DATA
16	(10)	CHARACTER	1	TREFPOOL	STORAGE POOL BYTE
17	(11)	CHARACTER	3	*	RESERVED
20	(14)	ADDRESS	4	TREFRTN1	RET1ADDR FIELD
24	(18)	ADDRESS	4	TREFRTN2	RET2ADDR FIELD
28	(1C)	CHARACTER	4	*	RESERVED

### TRACE RECORD DECLARE FOR GET TRACE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	TRECGET	GET BLOCK TRACE RECORD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	CHARACTER	4	TREGEHDR	HEADER FOR GET TRACE - 'GETB'
4	(4)	ADDRESS	4	TREGEPDB	DTIPDB ADDRESS
8	(8)	ADDRESS	4	TREGADDR	STORAGE BLOCK ADDRESS
12	(C)	SIGNED	2	TRETSIZE	REQUESTED SIZE
14	(E)	SIGNED	2	TRECSIZE	CLEARING SIZE
16	(10)	CHARACTER	4	*	ADDITIONAL TRACE DATA
16	(10)	CHARACTER	1	TREGPOOL	STORAGE POOL BYTE
17	(11)	CHARACTER	3	*	RESERVED
20	(14)	ADDRESS	4	TREGRTN1	RET1ADDR FIELD
24	(18)	ADDRESS	4	TREGRTN2	RET2ADDR FIELD
28	(1C)	CHARACTER	4	TREGFLAG	CHARACTERS 'ENAB' OR 'DISA'

## TRACE RECORD DECLARE FOR PSTAM DISPATCHER TRACE

0	(0)	STRUCTURE	32	TREDREC	PSTAM DISPATCHER TRACE RECORD
0	(0)	CHARACTER	1	TREDHDR	HEADER FOR DISPATCHER
1	(1)	CHARACTER	1	TREDTB	TASK AND BUSY BITS
		1... ....		TREDBSY	BUSY BIT FROM LBCSTTUS
		.11. ....		*	NOT USED - AVAILABLE
		...1 ....		TREDDGLOB	INDICATOR FOR PATH BEING TRACED (1 = GLOBAL PATH)
		.... 1111		TREDTSK	TASK RUNNING INDICATOR
2	(2)	CHARACTER	30	TREDTAB	FIELDS FOR RECORD WHEN TERMINAL ANCHOR BLOCK DTITAB IS PASSED ON CALL TO TRACE
2	(2)	BITSTRING	1	TREDFUN	FUNCTION CODE FROM DTIWEB
3	(3)	BITSTRING	1	TREDMOD	MODE FROM DTIWEB
4	(4)	ADDRESS	4	TREDTABA	DTITAB ADDRESS
4	(4)	BITSTRING	1	TREDVSRP	VTAM SERVICES RESPONSE FROM PRESENTATION SERVICES TAKEN FROM DTIWEB
8	(8)	ADDRESS	4	TREDWEBA	DTIWEB ADDRESS
8	(8)	CHARACTER	1	TREDPDF1	DEVICE MANAGER FLAGS FROM DTIPLB
12	(C)	UNSIGNED	1	TREDPSTA	LOGICAL UNIT STATE FROM DTIPLB
13	(D)	CHARACTER	1	TREDPFSS	FULL SCREEN SUPPORT MODE FLAGS FROM DTIPLB
14	(E)	CHARACTER	1	TREDPLF1	VTAM SERVICES LOGOFF FLAGS FROM DTIPLB
15	(F)	CHARACTER	1	TREDPF1	DTIPLB FLAGS
16	(10)	CHARACTER	1	TREDPLBC	PREVIOUS LBCSTATE FROM PLB
17	(11)	BITSTRING	1	TREDPOF1	OUTPUT MANAGER FLAGS FROM DTIPLB
18	(12)	CHARACTER	2	TREDPNOM	NOTIFY OUTPUT MANAGER FLAGS FROM DTIPLB
20	(14)	BITSTRING	1	TREDPEDT	EDITTING CHARACTERISTICS FROM DTIPLB
21	(15)	CHARACTER	1	TREDPIAF	INPUT MANAGER ATTENTION HANDLING FLAGS FROM DTIPLB
22	(16)	UNSIGNED	1	TREDVSTA	LOGICAL UNIT STATE FROM DTIVLB
23	(17)	CHARACTER	4	TREDVFS1	FLAGS FOR COMPARE AND SWAP INSTRUCTION FROM DTIVLB
27	(1B)	CHARACTER	1	TREDVLRC	LOGOFF REASON CODES FROM DTIVLB
28	(1C)	CHARACTER	4	TREDPMOD	NAME OF MODULE TO BE CALLED BY DISPATCHER
28	(1C)	ADDRESS	4	TREDPMAD	OR MODULE ADDRESS IF NAME IS NOT AVAILABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	28	TREDSAB	FIELDS FOR DISPATCHER TRACE RECORD WHEN SERVICE APPLICATION BLOCK DTISAB IS PASSED ON CALL TO TRACE
0	(0)	CHARACTER	2	*	FIRST TWO CHARACTERS ARE THE SAME AS FOR TREDREC
2	(2)	BITSTRING	2	TREDIQEC	FIRST TWO BYTES FROM SABIQECB INDICATING WHETHER THE DISABLED ERROR ECB WAS POSTED
4	(4)	ADDRESS	4	TREDSABA	ADDRESS PASSED TO TRACE MODULE AS DTITAB (INVALID TAB)
8	(8)	ADDRESS	4	TREDSWEB	ADDRESS OF THE DTIWEB
12	(C)	CHARACTER	4	TREDSFS1	FLAGS FROM DTISAB (SABFLGS1)
16	(10)	CHARACTER	12	TREDWEBD	THREE WORDS OF DATA FROM THE DTIWEB STARTING AT THE WEBFUN FIELD
16	(10)	BITSTRING	1	TREDSWEF	FUNCTION CODE FROM THE DTIWEB
17	(11)	CHARACTER	5	TREDWENV	ENVIRONMENT DEFINITION FROM DTIWEB
22	(16)	SIGNED	2	TREDWEBL	LINE NUMBER FOR CMS WEBCMVRT
24	(18)	SIGNED	2	TREDWEBC	CURSER POSITION FROM DTIWEB

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
26	(1A)	CHARACTER	1	TREDWEBT	TAB CHARACTER FROM DTIWEB (NOT DTITAB)
27	(1B)	BITSTRING	1	TREDWEBR	VSCS START FLAGS FOR CCS
<hr/>					
TRACE RECORD DECLARE FOR VTAM EXIT TRACE					
0	(0)	STRUCTURE	32	TREVREC	VTAM EXIT TRACE RECORD
0	(0)	CHARACTER	4	TRECVHDR	EXIT TRACE RECORD HEADER - "V" + BYTES 5-7 OF VTAM EXIT MOD NAME
4	(4)	CHARACTER	1	TRECRNRC	RETURN CODE (RCODEREG)
5	(5)	ADDRESS	3	TRECVTAB	DTITAB ADDRESS
8	(8)	CHARACTER	1	TRECRPLC	RPLREQ FIELD AT ENTRY
9	(9)	ADDRESS	3	TRECVRPL	RPL ADDRESS
12	(C)	CHARACTER	4	TRECRPLS	RPL FEEDBACK AND SENSE
12	(C)	CHARACTER	2	TRECRPLF	RPL FEEDBACK
12	(C)	CHARACTER	1	TRECRPLA	RPL RETURN CODE
13	(D)	CHARACTER	1	TRECRPLB	RPL FEEDBACK 2
14	(E)	CHARACTER	2	TRECSENS	RPL SYSTEM OR USER SENSE
16	(10)	CHARACTER	2	TRECNETA	NETWORK ADDRESS (RPLSAF)
18	(12)	CHARACTER	1	TRECPLBS	PLB LBCSTATE
19	(13)	CHARACTER	1	TRECPLBF	PLB PLBFSSMF
20	(14)	CHARACTER	1	TRECPLBL	PLB PLBLFLG1
21	(15)	CHARACTER	1	TRECPLBN	PLB PLBNFLG1
22	(16)	CHARACTER	1	TRECPLBO	PLB PLBOFLG1
23	(17)	CHARACTER	1	TRECVLBS	VLB LBCSTATE
24	(18)	CHARACTER	4	TRECVSWP	VLBSWAP
28	(1C)	CHARACTER	1	TRECVLBR	VLB VLBLRCD
29	(1D)	CHARACTER	3	TRECMDAT	VARIABLE MODULE DEPENDENT DATA
<hr/>					
TRACE RECORD DECLARE FOR CLEANUP ERROR TRACE					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	TREEREC	CLEANUP ERROR TRACE RECORD
0	(0)	CHARACTER	4	TRECEHDR	CLEANUP ERROR RECORD MODULE NAME
4	(4)	CHARACTER	1	TRECEWEB	WEBFUN OR ZEROS
5	(5)	ADDRESS	3	TRECETAB	DTITAB ADDRESS
8	(8)	CHARACTER	1	TRECEPLC	RPLREQ FIELD OR ZEROS
9	(9)	CHARACTER	1	TRECEPST	PLB LBCSTATE
10	(A)	CHARACTER	1	TRECELBF	PLB PLBFSSMF
11	(B)	CHARACTER	1	TRECELF1	PLB PLBLFLG1
12	(C)	CHARACTER	1	TRECELF2	PLB PLBFLG1
13	(D)	CHARACTER	2	TRECENOM	PLB PLBNOM
15	(F)	CHARACTER	1	TRECELBO	PLB PLBOFLG1
16	(10)	CHARACTER	1	TRECEVST	VLB LBCSTATE
17	(11)	CHARACTER	1	TRECELBR	VLB VLBLRCD
18	(12)	CHARACTER	2	TRECERSD	RESERVED
20	(14)	CHARACTER	4	TRECESWP	VLBSWAP
24	(18)	CHARACTER	4	TRECVCID	VLBCID
28	(1C)	CHARACTER	4	TRECEDAT	VARIABLE MODULE DEPENDENT DATA
28	(1C)	CHARACTER	1	TRECEFLW	FLOW INDICATOR
29	(1D)	CHARACTER	3	TRECERPL	DTIWEB OR RPL OR ZEROS

## Constants

Len	Type	Value	Name	Description
FLOW INDICATORS FOR DTIWEB(S) NOTE - FIRST CHARACTER PUT IN TRECTYP.				
4	CHARACTER	2WEB	TREC2WEB	2 WAY SEND
4	CHARACTER	1WEB	TREC1WEB	1 WAY SEND
4	CHARACTER	RWEB	TRECRWEB	RECEIVE
4	CHARACTER	YWEB	TRECYWEB	REPLY
4	CHARACTER	TWEB	TRECTWEB	REJECT
4	CHARACTER	CWEB	TRECCWEB	2 WAY SEND COMPLETION
FLOW INDICATORS FOR DATA NOTE - ALL FOUR CHARACTERS PUT INTO TRECHDR				
4	CHARACTER	FORC	TRECFORC	FORCE COMMAND
4	CHARACTER	RESU	TRECRESU	RESUME
4	CHARACTER	QUIE	TRECQUIE	QUIESCE
4	CHARACTER	PURG	TRECPURG	PURGE
4	CHARACTER	SEVR	TRECSEVR	SEVER
4	CHARACTER	CNCT	TRECCNCT	CONNECT
4	CHARACTER	ACNT	TRECACNT	ACCEPT CONNECTION
4	CHARACTER	SCNT	TRECSCNT	SEVER CONNECTION
4	CHARACTER	MSG	TRECCMSG	1 WAY SEND COMPLETION
4	CHARACTER	LIER	TRECLIER	LOGICAL INTERFACE ERROR - ENTRY MADE BY DTIPSLER
CONSTANT VALUES FOR DAT TRACE				
4	CHARACTER	I	TREINPUT	HEADER FOR INPUT DATA TRACE RECORD
4	CHARACTER	O	TREOUTPUT	HEADER FOR OUTPUT DATA TRACE RECORD
CONSTANT VALUES FOR FRE TRACE				
4	CHARACTER	FREB	TRECFREB	HEADER FOR FREB TRACE RECORD
CONSTANT VALUES FOR FRE TRACE				
4	CHARACTER	GETB	TRECGETB	HEADER FOR GETB TRACE RECORD
CONSTANT VALUES FOR DISPATCHER TRACE				
1	HEX	02	TREDTSKP	INDICATOR FOR PRESENTATION SERVICES TASK RUNNING
1	HEX	03	TREDTSKV	INDICATOR FOR VTAM SERVICES TASK RUNNING
1	HEX	04	TREDTSKU	INDICATOR FOR UNKNOWN TASK RUNNING
1	CHARACTER	D	TREDHCON	HEADER FOR DISPATCHER RECORD
CONSTANT VALUES FOR VTAM EXIT TRACE				
4	CHARACTER	VCLS	TRECVCLS	DTIVCLSX
4	CHARACTER	VDFA	TRECVDFA	DTIVDFAX
4	CHARACTER	VLOG	TRECVLOG	DTIVLOGX
4	CHARACTER	VLOS	TRECVLOS	DTIVLOSX
4	CHARACTER	VNSE	TRECVNSE	DTIVNSEX
4	CHARACTER	VOPN	TRECVOPN	DTIVOPNX
4	CHARACTER	VPUR	TRECVPUR	DTIVPURG
4	CHARACTER	VREC	TRECVREC	DTIVRECX
4	CHARACTER	VRLQ	TRECVRLQ	DTIVRLQX
4	CHARACTER	VSCI	TRECVSCI	DTIVSCIX
4	CHARACTER	VSND	TRECVSND	DTIVSNDX
4	CHARACTER	VTPN	TRECVTPN	DTIVTPNX
4	CHARACTER	VSIM	TRECVSIM	DTIVSIMX
4	CHARACTER	VSEN	TRECVSEN	DTIVSEND
4	CHARACTER	VRES	TRECVRES	DTIVRESX
CONSTANT VALUES FOR CLEANUP ERROR TRACE				
4	CHARACTER	VPUR	TREEVPUR	DTIVPURG
4	CHARACTER	PRBK	TREEPRBK	DTIPRBRK

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DTITREC	0		1	TREDFUN	2		3
TRECCID	8		3	TREDGLOB	1	10	3
TRECCT15	D		3	TREDHDR	0		2
TRECDAT	0		1	TREDIQEC	2		2
TRECDATA	4		2	TREDMOD	3		3
TRECDTA	1C		3	TREDPDF1	8		4
TRECEDAT	1C		2	TREDPEDT	14		3
TRECEFLW	1C		3	TREDPFSS	D		3
TRECEHDR	0		2	TREDPF1	F		3
TRECELBF	A		2	TREDPIAF	15		3
TRECELBO	F		2	TREDPLBC	10		3
TRECELBR	11		2	TREDPLF1	E		3
TRECELF1	B		2	TREDPMAD	1C		4
TRECELF2	C		2	TREDPMOD	1C		3
TRECENOM	D		2	TREDPNOM	12		3
TRECEPLC	8		2	TREDPOF1	11		3
TRECEPST	9		2	TREDPSTA	C		3
TRECERPL	1D		3	TREDREC	0		1
TRECERSD	12		2	TREDSAB	0		1
TRECESWP	14		2	TREDSABA	4		2
TRECETAB	5		2	TREDSFS1	C		2
TRECEVST	10		2	TREDSWEB	8		2
TRECEWEB	4		2	TREDSWEF	10		3
TRECFMT	0	80	3	TREDTAB	2		2
TRECFRE	0		1	TREDTABA	4		3
TRECGET	0		1	TREDTB	1		2
TRECHDR	0		2	TREDTSK	1	08	3
TRECMDAT	1D		2	TREDVFS1	17		3
TRECNETA	10		2	TREDVLC	1B		3
TRECPID	4		3	TREDVSRP	4		4
TRECPLBF	13		2	TREDVSTA	16		3
TRECPLBL	14		2	TREDWEBA	8		3
TRECPLBN	15		2	TREDWEBC	18		3
TRECPLBO	16		2	TREDWEBD	10		2
TRECPLBS	12		2	TREDWEBL	16		3
TRECRPLA	C		4	TREDWEBR	1B		3
TRECRPLB	D		4	TREDWEBT	1A		3
TRECRPLC	8		2	TREDWENV	11		3
TRECRPLF	C		3	TREEREC	0		1
TRECRPLS	C		2	TREFADDR	8		2
TRECRPLT	4		2	TREFPOOL	10		3
TRECRPLU	E		3	TREFRBLD	C		2
TRECRPLV	E		2	TREFRHDR	0		2
TRECRPLW	D		4	TREFRHID	E		2
TRECRPLX	C		3	TREFRPDB	4		2
TRECRPLS	C		2	TREFRTN1	14		2
TRECRPLT	4		2	TREFRTN2	18		2
TRECRPLU	E		3	TREGADDR	8		2
TRECRPLV	E		2	TREGHDR	0		2
TRECRPLW	D		4	TREGEPDB	4		2
TRECRPLX	C		3	TREGFLAG	1C		2
TRECVCS	6		4	TREGPOOL	10		3
TRECVHDR	0		2	TREGRTN1	14		2
TRECVLBR	1C		2	TREGRTN2	18		2
TRECVLBS	17		2	TRETSIZE	C		2
TRECVRPL	9		2	TREVREC	0		1
TRECVSA	4		4				
TRECVSWP	18		2				
TRECVTAB	5		2				
TRECVTCT	E		4				
TREDACNT	A		2				
TREDADAT	C		2				
TREDAFUN	8		2				
TREDAHDR	0		2				
TREDAMOD	9		2				
TREDATAB	1		2				
TREDATIN	C		3				
TREDAWEB	4		2				
TREDBSY	1	80	3				

## Timer Request (TRQ)

<b>Function:</b>	DTITRQ maps an individual timer request element.
<b>Boundary:</b>	Fullword.
<b>Size in bytes:</b>	13 (X'D')
<b>Additional Notes:</b>	DTITRQ maps WEBTRQ in DTIWEB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	13	DTITRQ	
0	(0)	ADDRESS	4	TRQTAB	DTITAB ADDRESS FOR THIS REQUEST
4	(4)	CHARACTER	8	TRQTD	DATE AND TIME
4	(4)	BITSTRING	4	TRQDATE	DATE
8	(8)	BITSTRING	4	TRQTIME	TIME
12	(C)	CHARACTER	1	TRQFLGS	TIMER REQUEST FLAGS
		1... ....		TRQCANCL	CANCEL TIMER REQUEST - YES = 1.
		.1. ....		TRQCHKTM	CHECK STORAGE QUEUES REQUEST
		..1. ....		TRQRELTM	RELEASE STORAGE REQUEST
		...1 ....		*	RESERVED
		.... 1111		*	NOT USED - AVAILABLE

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTITRQ	0		1
TRQCANCL	C	80	3
TRQCHKTM	C	40	3
TRQDATE	4		3
TRQFLGS	C		2
TRQRELTM	C	20	3
TRQTAB	0		2
TRQTD	4		2
TRQTIME	8		3

## Utility Task Global Block (UGB)

<b>Function:</b>	DTIUGB contains data used by the utility services for processing operator commands and global IUCV traffic.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	176 (X'B0')
<b>Located in:</b>	DTIISDA2.
<b>Additional Notes:</b>	The value for UGBOCMDL must be the length of UGBOCMDDB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	176	DTIUGB	
0	(0)	CHARACTER	8	UGBEHDR	DTIUGB ELEMENT HEADER
8	(8)	BITSTRING	4	UGBSTECB	START/TERMINATE TASK ECB (VSCS)
12	(C)	BITSTRING	4	UGBTECB	TASK TERMINATE ECB (SYSTEM)
16	(10)	CHARACTER	24	UGBECBS	LIST OF ADDRESSES DTISUTSK WAITS ON.
16	(10)	ADDRESS	4	UGBSECB	START/TERMINATE ECB ADDRESS
20	(14)	ADDRESS	4	UGBOCECB	OPERATOR COMMUNICATION ECB ADDRESS
24	(18)	ADDRESS	4	UGBMSECB	OPERATOR MESSAGE ECB ADDRESS
28	(1C)	ADDRESS	4	UGBGCECB	GLOBAL CONNECT ECB ADDRESS
32	(20)	ADDRESS	4	UGBIQECB	DISABLED ERROR ECB ADDRESS
36	(24)	ADDRESS	4	UGBNLECB	NULL ECB
40	(28)	ADDRESS	4	UGBMSG	MESSAGE ECB
44	(2C)	ADDRESS	4	UGBCIA	POINTER TO DTICIA
48	(30)	CHARACTER	123	UGBOPCOM	OPERATOR COMMUNICATION PORTION
48	(30)	ADDRESS	4	UGBOECB	OPERATOR COMMUNICATION ECB
52	(34)	CHARACTER	119	UGBOCMDDB	INPUT COMMAND BUFFER
171	(AB)	CHARACTER	5	*	NOT USED - AVAILABLE
176	(B0)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

### Constants

Len	Type	Value	Name	Description
1	DECIMAL	119	UGBOCMDL	COMMAND BUFFER LENGTH

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTIUGB	0		1
UGBCIA	2C		2
UGBECBS	10		2
UGBEHDR	0		2
UGBGCECB	1C		3
UGBIQECB	20		3
UGBMSECB	18		3
UGBMSG	28		2
UGBNLECB	24		3
UGBOCECB	14		3
UGBOCMDDB	34		3
UGBOECB	30		3
UGBOPCOM	30		2
UGBSECB	10		3
UGBSTECB	8		2
UGBTECB	C		2

---

## Virtual External Interrupt Block (VEIB)

<b>Function:</b>	DTIVEIB contains an IUCV parameter list copied from the system external interrupt buffer.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	48 (X'30')
<b>Included Blocks:</b>	DTIIP.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	48	DTIVEIB	
0	(0)	CHARACTER	8	VEIBEHDR	DTIVEIB ELEMENT HEADER
8	(8)	CHARACTER	40	VEIBIE	THE DTIIP PORTION OF THE DTIVEIB.



## VTAM Services Global Block (VGB)

<b>Function:</b>	DTIVGB contains information about control blocks used to communicate with VTAM and the status of the VSCS-VTAM session.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	104 (X'68')
<b>Located in:</b>	DTIISDA1.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	104	DTIVGB	
0	(0)	CHARACTER	8	VGBEHDR	DTIVGB ELEMENT HEADER
8	(8)	ADDRESS	4	VGBSRPLA	ADDRESS OF SKELETON RPL
12	(C)	ADDRESS	4	VGBLXRPL	ADDRESS OF LOGON EXIT RPL
16	(10)	SIGNED	2	VGBRPLLN	LENGTH OF THE RPL
18	(12)	SIGNED	2	VGBNIBLN	LENGTH OF NIB
20	(14)	ADDRESS	4	VGBCBS	ADDRESS OF GETMAINED AREA FOR VTAM SERVICES DATA AREAS - ACB, RPLS, EXLIST.
24	(18)	ADDRESS	4	VGBRPLA (16)	POINTER TO RECEIVE RPLS
88	(58)	SIGNED	4	VGBNLULN	NUMBER OF LOGICAL UNITS LOGGED ON.
92	(5C)	SIGNED	2	VGBCBLN	SIZE OF GETMAINED AREA (VGBCBS) IN DOUBLEWORDS.
94	(5E)	BITSTRING	2	VGBERRFL	FLAG CORRESPONDING TO EACH RPL IF BIT = 1, THEN THE RPL IS INACTIVE BECAUSE STORAGE WAS NOT AVAILABLE FOR RECEIVE.
96	(60)	UNSIGNED	1	VGBNRPL	NUMBER OF RECEIVE RPLS
97	(61)	CHARACTER	1	VGBFLG1	DTIVGB FLAGS
		1... ....		VGBTPEND	TPEND IN PROGRESS
		.1.. ....		VGBCLREQ	CLOSE ACB NOT REQUIRED. (0=CLOSE IS REQUIRED) (1=CLOSE NOT REQUIRED)
		...1. ....		VGBRCVSP	RECEIVE SPECIFIC ACTIVE
		...1 1111		*	NOT USED - AVAILABLE
98	(62)	CHARACTER	6	*	NOT USED - AVAILABLE
104	(68)	CHARACTER		*	TO FORCE DOUBLEWORD-MULTIPLE CONTROL BLOCK LENGTH.

### Cross Reference

Name	Hex Offset	Hex Value	Level
DTIVGB	0		1
VGBCBLN	5C		2
VGBCBS	14		2
VGBCLREQ	61	40	3
VGBEHDR	0		2
VGBERRFL	5E		2
VGBFLG1	61		2
VGBLXRPL	C		2
VGBNIBLN	12		2
VGBNLULN	58		2
VGBNRPL	60		2
VGBRCVSP	61	20	3
VGBRPLA	18		2
VGBRPLLN	10		2
VGBSRPLA	8		2
VGBTPEND	61	80	3

## VTAM Services Local Block (VLB)

<b>Function:</b>	DTIVLB contains VTAM services data relating to a particular logical unit.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Pointed to by:</b>	TABVLB in DTITAB.
<b>Included Blocks:</b>	DTILBC.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	96	DTIVLB	
0	(0)	CHARACTER	24	VLBLCOM	LU COMMON DATA STRUCTURE. NOTE-THE DTILBC CONTROL BLOCK MAPS THIS AREA.
24	(18)	CHARACTER	8	VLBCQHR	CHAINED DATA QUEUE HEADER
32	(20)	ADDRESS	4	VLBSWEB	ADDRESS OF SEND RESPONSE WEB FROM PRESENTATION SERVICES.
36	(24)	ADDRESS	4	VLBNIBA	NIB ADDRESS
40	(28)	BITSTRING	4	VLBCID	COMMUNICATION IDENTIFIER
44	(2C)	SIGNED	2	VLBSRTCT	SEND RETRY COUNT
46	(2E)	SIGNED	2	VLBRRTCT	RECEIVE RETRY COUNT
48	(30)	SIGNED	4	VLBCHSZ	CHAINED DATA LENGTH
52	(34)	UNSIGNED	1	VLBSCRCT	SCIP EXIT RETRY COUNT
53	(35)	CHARACTER	3	*	NOT USED - AVAILABLE
56	(38)	CHARACTER	4	VLBSWAP	FLAG SWAP WORD
56	(38)	CHARACTER	1	*	SESSION STATE FLAGS
		1... ..		VLBBSP8B	BRACKET STATE - PENDING BEGIN BRACKET
		.1... ..		VLBBSP8B	BRACKET STATE - PENDING END BRACKET
		..1. ....		VLBB SINB	BRACKET STATE - IN BRACKET
		...1 ....		VLBSR	APPLICATION SEND/RECEIVE STATE (1=SEND STATE) (0=RECEIVE STATE)
		.... 1111		*	NOT USED - AVAILABLE
57	(39)	CHARACTER	1	*	FLAG BYTE 1
		1... ..		VLBIOTR	INBOUND DATA RECEIVED SINCE LAST SEND INDICATOR
		.1... ..		VLBCLSD	CLSDST NOT REQUIRED (0=CLSDST IS REQUIRED) (1=CLSDST NOT REQUIRED)
		..1. ....		VLBPCS	PURGING CHAIN STATE
		...1 ....		VLBSIGNL	SIGNAL SEND
		.... 1... ..		VLBCHGD	CHANGE DIRECTION REQUIRED
		.... .1.. ..		VLBRETR	RETRY RECEIVE REQUEST
		.... .1.. ..		VLBRETS	RETRY SEND REQUEST
		.... ..1		*	RESERVED
58	(3A)	CHARACTER	1	*	FLAG BYTE 2
		1... ..		VLBRPLB	RPL IN USE
		.1... ..		VLBCLPND	VTAM CLSDST PENDING
		..11 ....		*	NOT USED - AVAILABLE
		.... 1... ..		VLBBUSY	PRINTER BUSY
		.... .1.. ..		VLBNAV	PRINTER NOT AVAILABLE
		.... .1.. ..		VLBOPCK	OPERATION CHECK OCCURRED
		.... ..1		VLBWAIT	WAITING FOR DATA OR LUSTAT
59	(3B)	CHARACTER	1	VLBSENDF	SPECIAL SEND INDICATORS
		1... ..		VLBCLR	CLEAR REQUIRED
		.1... ..		VLBSDT	SDT REQUIRED
		..1. ....		VLBCANC	CANCEL REQUIRED
		...1 ....		VLBSIGRQ	SIGNAL REQUIRED
		.... 1... ..		VLBCHECK	BYPASS CHECK MACRO
		.... .111		*	NOT USED - AVAILABLE
60	(3C)	CHARACTER	4	*	FLAG WORD
60	(3C)	CHARACTER	1	*	FLAG BYTE 0
		1... ..		VLBOPDST	VTAM OPNDST COMPLETED
		.1... ..		VLBCDRC	CHANGE DIRECTION RECEIVED IN RESPONSE TO SIGNAL BEFORE SEND EXIT DRIVEN.

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		...1 ....		VLBERCOM	INDICATES THE WORK ELEMENT IN VLBSWEB IS PRESENTLY IN USE AND SHOULD NOT BE SCHEDULED AT THIS TIME (EXCEPTION RESPONSE MODE ONLY)
		...1 ....		VLBSNDXD	SENSE 0C0D RECEIVED BY DTIVSNDX IN EXCEPTION RESPONSE
		.... 1..		VLBRESXD	DEFINITE RESPONSE PROCESSED BY RESPONSE EXIT, WAITING FOR DTIVSNDX PROCESSING
		.... .1..		*	RESERVED
		.... .1..		*	RESERVED
		.... ...1		*	NOT USED - AVAILABLE
61	(3D)	BITSTRING	1	VLBERFLG	EXCEPTION RESPONSE FLAGS
		1.. ....		VLBPSHLD	DTIXMT PENDING
		.1.. ....		VLBERPND	ERROR RECOVERY PENDING
		.1.. ....		VLBERRIP	ERROR RECOVERY IN PROGRESS
		...1 ....		VLBERPRG	PERMANENT ERROR, PURGE LU
		.... 1..		VLBPRGDN	PURGE DONE
		.... .1..		VLBERPRM	PERMANENT ERROR
		.... .1..		VLBEREXT	EXIT PROCESSED RESPONSE BEFORE SEND GIVEN CONTROL BACK FOR THE REQUEST
		.... ...1		VLBRVCNO	DO NOT REISSUE RECEIVE SPECIFIC
62	(3E)	CHARACTER	1	VLBLRCD	LOGOFF REASON CODES
		1.. ....		VLBVTLO	VTAM LOGOFF
		.1.. ....		VLBVRYI	VARY INACTIVE
		.1.. ....		VLBHLTQ	HALT QUICK
		...1 ....		VLBHLTC	HALT CANCEL
		.... 1..		VLBIOE	UNRECOVERABLE I/O ERROR
		.... .1..		VLBINERR	INTERNAL ERROR
		.... ..11		*	NOT USED - AVAILABLE
63	(3F)	CHARACTER	1	*	RESERVED
		1.. ....		VLBNULLS	NULL SEND EXECUTED
		.1.. ....		VLBSCIPR	SCIP EXIT RETRY IN PROGRESS
		...1 ....		VLBCLRCV	LAST INPUT RECEIVED WAS A CLEAR KEY
		...1 ....		VLBSCSIM	SCIP EXIT RETRY IN PROGRESS SIMLOGON REQUIRED
		.... 1..		VLBINOFC	OPERATOR FORCE COMMAND ISSUED FOR THIS LU
		.... .1..		VLBERRCV	REISSUE RECEIVE SPECIFIC IN RESPONSE EXIT
		.... .1..		VLBERCLQ	CLEAN QUEUE WHEN SEND COMPLETED
		.... ...1		VLBERSCH	SCHEDULE RESPONSE WHEN SEND COMPLETES
64	(40)	ADDRESS	4	VLBCMT	ADDRESS OF CURRENT DTICMT
68	(44)	UNSIGNED	2	VLBERSQ1	FIRST ERROR SEQUENCE NUMBER
70	(46)	CHARACTER	1	VLBERCVY	VLBERCVY FLAGS
		1.. ....		VLBERCLR	CLEAR NEEDED
		.1.. ....		VLBERBRK	BRACKET ERROR
		...1 ....		VLBERSDT	SDT NEEDED
		...1 ....		VLBERSIG	SIGNAL NEEDED
		.... 1..		VLBERCNL	CANCEL RECEIVED
		.... .1..		VLBERCDR	CHANGE DIRECTION NEEDED
		.... .1..		VLBERPSL	PRESENTATION SPACE LOST
		.... ...1		VLBERHRD	HARD ERROR OCCURRED
71	(47)	BITSTRING	1	*	RESERVED
72	(48)	SIGNED	4	VLBERCNT	NUMBER OF ER REQUESTS SINCE LAST DR REQUESTED
76	(4C)	CHARACTER	4	*	AVAILABLE - NOT USED
80	(50)	CHARACTER	8	VLBERQUE	ANCHOR QUEUE
88	(58)	CHARACTER	8	VLBERTME	TIMESTAMP FROM LAST SEND
88	(58)	UNSIGNED	4	VLBERCLK	CLOCK BITS 0-31
92	(5C)	CHARACTER	4	*	AVAILABLE - NOT USED
96	(60)	CHARACTER	*	VLBRPL	STORAGE FOR A SEND RPL

## Constants

Len	Type	Value	Name	Description
CONSTANTS FOR VLBSR				
0	BIT	0	VLBSRRCV	APPLICATION IS IN RECEIVE STATE
0	BIT	1	VLBSRSND	APPLICATION IS IN SEND STATE
THE FOLLOWING CONSTANTS ARE DEPENDENT ON THE POSITION OF BITS IN CONTROL BLOCK.				
4	HEX	00008000	VLBRPLIU	CONSTANT USED TO TEST IF RPL IN USE. (VLBRPLB)
4	HEX	00004000	VLBCLSDI	CONSTANT USED TO TEST IF CLOSE DESTINATION (CLSDST) IS PENDING (VLBCLPND).

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DTIVLB	0		1	VLBNAV	3A	04	4
VLBBSINB	38	20	4	VLBNIBA	24		2
VLBBSPPB	38	80	4	VLBNULLS	3F	80	4
VLBBSPEB	38	40	4	VLBOPCK	3A	02	4
VLBBUSY	3A	08	4	VLBOPDST	3C	80	4
VLBCANC	3B	20	4	VLBPCS	39	20	4
VLBCDRC	3C	40	4	VLBPRGDN	3D	08	4
VLBCHECK	3B	08	4	VLBPSHLD	3D	80	4
VLBCHGD	39	08	4	VLBRCVNO	3D	01	4
VLBCHSZ	30		2	VLBRESXD	3C	08	4
VLBCID	28		2	VLBRETR	39	04	4
VLBCLPND	3A	40	4	VLBRETS	39	02	4
VLBCLR	3B	80	4	VLBRPL	60		2
VLBCLRCV	3F	20	4	VLBRPLB	3A	80	4
VLBCLSD	39	40	4	VLBRRTCT	2E		2
VLBCMT	40		2	VLBSCIPR	3F	40	4
VLBCQHR	18		2	VLBSCRCT	34		2
VLBERBRK	46	40	3	VLBSCSIM	3F	10	4
VLBERCDR	46	04	3	VLBSDT	3B	40	4
VLBERCLK	58		3	VLBSEDF	3B		3
VLBERCLQ	3F	02	4	VLBSIGNL	39	10	4
VLBERCLR	46	80	3	VLBSIGRQ	3B	10	4
VLBERCNL	46	08	3	VLBSNDXD	3C	10	4
VLBERCNT	48		2	VLBSR	38	10	4
VLBERCOM	3C	20	4	VLBSRTCT	2C		2
VLBERCVY	46		2	VLBSWAP	38		2
VLBEREXT	3D	02	4	VLBSWEB	20		2
VLBERFLG	3D		3	VLBVRYI	3E	40	4
VLBERHRD	46	01	3	VLBVTLO	3E	80	4
VLBERPND	3D	40	4	VLBWAIT	3A	01	4
VLBERPRG	3D	10	4				
VLBERPRM	3D	04	4				
VLBERPSL	46	02	3				
VLBERQUE	50		2				
VLBERRCV	3F	04	4				
VLBERRIP	3D	20	4				
VLBERSCH	3F	01	4				
VLBERSDT	46	20	3				
VLBERSIG	46	10	3				
VLBERSQ1	44		2				
VLBERTME	58		2				
VLBHLTC	3E	10	4				
VLBHLTQ	3E	20	4				
VLBINERR	3E	04	4				
VLBINOFC	3F	08	4				
VLBIOE	3E	08	4				
VLBIOTR	39	80	4				
VLBLCOM	0		2				
VLBLRCD	3E		3				

## Work Element Block (WEB)

<b>Function:</b>	DTIWEB represents all logical unit-related work processed by presentation services and VTAM services.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Included Blocks:</b>	DTIEHDR, DTIIP, DTIVEIB, DTIXMT, and DTITRQ.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	76	DTIWEB	
0	(0)	CHARACTER	8	WEBEHDR	DTIWEB ELEMENT HEADER

NOTE THAT WEBIP, WEBVEIB, WEBXMT, AND WEBTRQ NAME THE SAME STORAGE LOCATIONS AND ARE MAPPED BY THE DTIIP, DTIVEIB, DTIXMT AND DTITRQ CONTROL BLOCKS, RESPECTIVELY.

8	(8)	CHARACTER	40	WEBIP	INTER-USER COMMUNICATION VEHICLE PARAMETER LIST.
8	(8)	CHARACTER	40	WEBVEIB	VIRTUAL EXTERNAL INTERRUPT BLOCK
8	(8)	CHARACTER	40	WEBXMT	DTIXMT CONTROL BLOCK STORAGE.
8	(8)	CHARACTER	40	WEBTRQ	TIMER REQUEST

NOTE THAT WEBPAIRA, WEBSNDA AND WEBRPYA NAME THE SAME STORAGE LOCATION.

48	(30)	ADDRESS	4	WEBPAIRA	ADDRESS OF THE OTHER DTIWEB FOR THIS DTIWEB.
48	(30)	ADDRESS	4	WEBRPYA	ADDRESS OF THE REPLY DTIWEB FOR SEND DTIWEBS, TYPE = INTERNAL. FOR TYPE = INTERNAL, WEBRPYA=0.
48	(30)	ADDRESS	4	WEBSNDA	ADDRESS OF THE SEND DTIWEB FOR REPLY DTIWEBS, TYPE = INTERNAL. FOR TYPE=INTERNAL, THERE IS NO WEBSNDA DEFINED.
52	(34)	CHARACTER	24	WEBCTRL	DTIWEB CONTROL AREA
52	(34)	BITSTRING	1	WEBFMT	CONTROL AREA FORMAT
53	(35)	UNSIGNED	1	WEBCAN	NUMBER OF CONTROL AREAS
54	(36)	UNSIGNED	2	WEBCOUNT	LENGTH OF ACTUAL DATA IN WEBDATA
56	(38)	BITSTRING	1	WEBFUN	FUNCTION CODE

NOTE THAT WEBOUBND AND WEBINBND NAME THE SAME STORAGE LOCATION.

57	(39)	CHARACTER	19	WEBOUBND	DEF. FOR OUTBOUND CONTROL AREA
57	(39)	CHARACTER	19	WEBINBND	DEF. FOR INBOUND CONTROL AREA
57	(39)	CHARACTER	5	WEBENVR	ENVIRONMENT DEFINITION
57	(39)	BITSTRING	1	WEBMODE	MODE - CONSOLE, CMS, FSS, INT
58	(3A)	BITSTRING	1	WEBCHAR	CHARACTER SET
59	(3B)	BITSTRING	1	WEBEDIT	EDITING CHARACTERISTICS
		1111 ....		*	RESERVED
		.... 1..		WEBHIEKO	HIGHLIGHT INPUT DISPLAY
		.... .1..		WEBEDPTI	INHIBIT PRINTING OR NON-DISPLAY
		.... ..1.		WEBNOEKO	DO NOT REDISPLAY INPUT ON NEXT OUTPUT LINE.
		.... ...1		WEBEDCUP	CONVERT TO UPPER CASE
60	(3C)	BITSTRING	1	WEBFLAGS	RESERVED
		1... ....		WEBTTYWT	SET WHEN A WRITE IS ISSUED TO A TTY DEVICE THAT CURRENTLY HAS ONE OR MORE READS OUTSTANDING REQUEST FOR A DEVICE IN CONMODE 3270 MODE
		.1.. ....		WEBCONMD	LIMITED EDIT DIAGNOSE
		..1. ....		WEBLED	ALLOW ANY FS WRITE - FIRST FS WRITE AFTER RESET
		...1 ....		WEBANFSW	SNA DIALED STATUS 0 = NOT DIALED 1 = CURRENTLY DIALED
		.... 1..		WEBDIAL	
		.... .1..		WEBNOMOR	CMS ERASE WRITE STATE REQUEST 0 = 'MORE' STATE 1 = NO 'MORE' STATE
		.... ..1.		WEBPRMPT	WEBDATA CONTAINS PRE-LOGON USABILITY PROMPT FOR A DISPLAY
		.... ...1		WEBPASPA	TREAT PA1 AS DATA (FSSM)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
61	(3D)	BITSTRING	1	WEBCPFLG	CCS STATUS FLAGS FOR VM/VSCS	
61	(3D)	BITSTRING	1	WEBSAFLG	VM/VSCS STATUS FLAGS FOR CCS	
		1... ..		WEBCPNCR	NO CARRIAGE RETURN-K/P	
		.1.. ..		WEBCPPRI	PRIORITY FLAG	
		..1. ....		WEBCPALM	RING THE ALARM	
		..1. ....		WEBSAHL	HOLDING	
		...1 ....		WEBCPMDE	CP GENERATED - BIT = 1	
		...1 ....		WEBSAMOR	MORE VM GENERATED - BIT = 0	
		.... 1..		WEBCPHLW	HIGHLIGHT WRITE REQUEST	
		.... 1..		*	RESERVED	
		.... .1.		WEBCPRSP	INDICATES CCS RESPONSE	
		.... .1.		WEBSARSP	INDICATES VM/VSCS RESPONSE	
		.... .1.		WEBCPRRR	CCS REQUEST, REQUIRE RESPONSE	
		.... .1.		WEBSARRR	VM/VSCS REQUEST, REQUIRES RESPONSE.	
		.... ..1		WEBCPRNR	CCS REQUEST, REQUIRE NO RESPONSE	
		.... ..1		WEBSARNR	VM/VSCS REQUEST, REQUIRE NO RESPONSE.	
62	(3E)	SIGNED	2	WEBLINE	LINE NUMBER FOR CMS WEBCMWRT	
62	(3E)	BITSTRING	1	WEBLAID	LOGICAL ATTENTION IDENTIFIER	
63	(3F)	UNSIGNED	1	WEBNLLOS	NUMBER LINES LEFT ON SCREEN	
64	(40)	SIGNED	2	WEBCURSR	CURSOR POSITION - MAY BE RELATIVE OR BUFFER ADDRESS.	
66	(42)	CHARACTER	1	WEFTABCH	TAB (NOT DTITAB) CHARACTER	
67	(43)	BITSTRING	1	WEBSVSA	RESERVED FOR VM/VSCS USE	
		1... ..		WEBCPRDS	DTIWEB IS A REDISPLAY DTIWEB	
		.1.. ..		WEBNOVCK	DO NOT VALIDITY CHECK DATA (USED IN INTERNAL DTIWEBS)	
		..1. ....		WEBATTNW	ATTENTION WRITE (VM/VSCS ONLY) - YES = 1.	
		...1 ....		WEBINLIP	LOGON in process	
		.... 1..		*	RESERVED	
		.... .1.		WEBCHDIR	CHANGE DIRECTION REQUIRED	
		.... .1.		WEBMASKW	WRITE INHIBIT MASK	
		.... ..1		*	RESERVED	
68	(44)	SIGNED	2	WEBLOGOL	NUMBER OF LINES IN LOGO	
68	(44)	UNSIGNED	2	WEBOFSET	OFFSET FROM WEBDATA TO START OF INPUT IN WEBDATA.	
68	(44)	SIGNED	2	WEBWTCNT	NUMBER OF BYTES TO BE WRITTEN FOR TWX PROMPT FOR CP READ REQUEST	
70	(46)	SIGNED	2	WEBLOGOB	NUMBER OF BYTES PER LINE	
70	(46)	CHARACTER	2	WEBSV4	RESERVED	
70	(46)	CHARACTER	1	WEBSV5	RESERVED	
		1111 111.		*	RESERVED	
		.... ..1		WEBFSLG	FULL SCREEN LOGO WEB	
71	(47)	UNSIGNED	1	WEBCPRTY	RETRY COUNT	
72	(48)	BITSTRING	4	WEBVSAWK	WORK AREA FOR VM/VSCS	
72	(48)	BITSTRING	1	WEBVSRPS	VTAM SERVICES RESPONSE TO SEND REQUEST BY PRESENTATION SERVICES	
73	(49)	BITSTRING	3	*	RESERVED	

NOTE THAT WEBDATA, WEBILOG REQUEST, THE TRANSMIT BUFFER, AND WEBDFLG1 DEFINE THE SAME STORAGE.

76	(4C)	CHARACTER	*	WEBDATA	DATA PORTION OF THE DTIWEB
76	(4C)	CHARACTER	*	WEBXB	TRANSMIT BUFFER
76	(4C)	CHARACTER	9	WEBILOG	DTIWEB IN-LOG DEFINITION
76	(4C)	BITSTRING	1	WEBTYPC	LU DEVICE TYPE
76	(4C)	BITSTRING	1	WEBDFLG1	REDEFINITION OF WEBDATA FOR WEBCPLSA FUNCTION
76	(4C)	BITSTRING	1	WEBCHCPO	CP OUTPUT
		1... ..		WEBTERM	KEYBOARD/PRINTER (KNOWN TO VM AS A 3210 - YES = 1
		.1.. ..		WEBGRAF	GRAPHICS DEVICE (KNOWN TO VM AS A 3277) - YES = 1
		..11 1111		*	RESERVED
77	(4D)	BITSTRING	1	WEBDMDL	DEVICE MODEL
77	(4D)	BITSTRING	1	WEBCHVMO	VIRTUAL MACHINE OUTPUT
78	(4E)	BITSTRING	1	WEBDFTR	DEVICE FEATURES
78	(4E)	BITSTRING	1	WEBCHINR	INPUT REDISPLAY
		1... ..		WEBXCLO	EXTENDED COLOR SUPPORTED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.1.. ....		WEBXHILI	EXTENDED HIGHLIGHT SUPPORTED
		..1. ....		WEBXPSS	EXTENDED DATASTREAM (PROGRAMMABLE SYMBOL SET)
		...1 ....		WEBWSFQ	WSF Q DATA FOLLOWS INLOG DATA (WEBWSFQ = '1')
		.... 1111	*	+	UNUSED
79	(4F)	BITSTRING	1	WEBLINEL	DEVICE LINE LENGTH
79	(4F)	BITSTRING	1	WEBCHINA	INPUT AREA
80	(50)	BITSTRING	2	WEBSAPTH	VM/VSCS IUCV DEVICE PATHID
80	(50)	BITSTRING	1	WEBCHSTA	STATUS AREA
82	(52)	SIGNED	2	WEBPACE	DEVICE PACE VALUE
84	(54)	BITSTRING	1	WEBDTYPE	DEVICE TYPE
85	(55)	CHARACTER	*	WEBINWSF	WSF Q DATA GOES HERE

### Constants

Len	Type	Value	Name	Description
CONSTANTS DEFINED IN WEBFMT				
1	HEX	00	WEBFMT1	DTIWEB FORMAT - 1 CONTROL AREA
1	HEX	01	WEBFMT2	RESERVED
BITS DEFINED IN WEBCAN				
1	DECIMAL	1	WEBCONE	ONE CONTROL AREA
SCREEN SIZES				
1	DECIMAL	1	WEBSCRN1	SCREEN SIZE IS 12 BY 80.
1	DECIMAL	2	WEBSCRN2	SCREEN SIZE IS 24 BY 80.
1	DECIMAL	3	WEBSCRN3	SCREEN SIZE IS 32 BY 80.
1	DECIMAL	4	WEBSCRN4	SCREEN SIZE IS 43 BY 80.
1	DECIMAL	5	WEBSCRN5	SCREEN SIZE IS 27 BY 132.
CONSTANTS DEFINED IN WEBDTYPE (DEVICE TYPE)				
1	HEX	00	WEBTMAPL	TERMINAL (KEYBOARD/PRINTER)/3210
1	HEX	01	WEBN3278	NEW APL (LU2)/3278
1	HEX	04	WEBO3277	DEVICE TYPE 3277
1	HEX	00	WEBT3767	TERMINAL KEYBOARD/PRINTER 3210
1	HEX	18	WEBT2741	2741 DEVICE
1	HEX	20	WEBTTWX	TWX/TTY/3101
BITS DEFINE IN WEBFUN - FUNCTION CODE FUNCTION CODES FOR INTERNAL STATES				
1	HEX	10	WEBPSSRU	SEND REQUEST SOURCE = PS
1	HEX	00	WEBNTM10	TIMER EXPIRED - MORE 10 SECOND SOURCE = SS
1	HEX	01	WEBNVLFC	LOGOFF CONDITIONAL SOURCE = VS
1	HEX	02	WEBNVLFU	LOGOFF UNCONDITIONAL SOURCE = VS
1	HEX	03	WEBINERR	UNRECOVERABLE I/O ERROR, LOGOFF CONDITION.
1	HEX	04	WEBINPUT	ATTENTION IDENTIFIER AND OPTIONAL DATA INPUT.
1	HEX	05	WEBNVFLW	LOGOFF WARNING SOURCE = VS
1	HEX	06	WEBNSRSP	CCS INPUT/OUTPUT RESPONSE (COULD BE EITHER OK OR ERROR). SOURCE = VS
1	HEX	07	WEBNVLGO	LOGON RESPONSE SOURCE = VS SOURCE = SS
1	HEX	08	WEBNACON	ACCEPT CONNECT SOURCE = CCS
1	HEX	09	WEBNSEVR	SEVER CONNECTION SOURCE = CCS
1	HEX	0A	WEBNMSGC	IUCV 1 WAY MESSAGE COMPLETE SOURCE = CCS
1	HEX	0B	WEBNTM50	TIMER EXPIRED - MORE 50 SECOND SOURCE = SS
1	HEX	0D	WEBNTNAL	TIMER EXPIRED - NOT ACCEPTED 3 SECOND.
1	HEX	0E	WEBNTF60	TIMER EXPIRED - FSSM 60 SECOND SOURCE = SS
1	HEX	0F	WEBVSRBK	LOGOFF REQUEST SOURCE = PS
1	HEX	10	WEBNVASY	ASYNCHRONOUS ERROR - WEBVSRPS INDICATES ERROR TYPE.
1	HEX	11	WEBNVCLU	INTERNAL VTAM REQUEST CLEAN UP SOURCE = VS
1	HEX	12	WEBNSIML	REQUEST TO VTAM SERVICES TO ISSUE SIMLOGON
1	HEX	13	WEBNTCPY	PF KEY COPY WAIT FOR PRINTER SIMLOGON TIMER EXPIRED
1	HEX	14	WEBNTPRT	TIMER EXPIRED FOR REQUEST TO RELEASE PRINTER AFTER RELREQ EXIT DRIVEN

Len	Type	Value	Name	Description
1	HEX	14	WEBINOFD	OPERATOR FORCE COMMAND ISSUED - PROCESSING CONTINUES IN DTIPFORC
<b>FUNCTION CODES FOR OUTBOUND PROCESSING IN CONSOLE MODE</b>				
1	HEX	00	WEBCPWRT	WRITE TO NEXT AVAILABLE LINE IN OUTPUT AREA.
1	HEX	01	WEBCPRED	READ REQUEST
1	HEX	02	WEBCPBRK	BREAK CONNECTION (CP LOGOFF OR DISCONNECT.
1	HEX	03	WEBCPWIC	WRITE TO INPUT AREA AND THEN POSITION CURSOR AS INDICATED IN WEBCCURSR.
1	HEX	04	WEBCPCPY	COPY REQUEST
1	HEX	05	WEBCPIED	INVALID ENVIRONMENT DEFINITION
1	HEX	06	WEBCPFKR	PFK REPLY - TREAT AS TERMINAL INPUT.
1	HEX	07	WEBCPIDA	DATA ACCEPTED, PROCEED WITH INPUT PROCESSING.
1	HEX	08	WEBCPINA	INPUT NOT ACCEPTED
1	HEX	09	WEBCPREX	IREPLY EXPECTED VIA SYNCHRONOUS
1	HEX	0A	WEBCPTAB	PF KEY TAB OPERATION
1	HEX	0B	WEBCPLER	LOGICAL INTERFACE ERROR (WEB) (ISEND OR IREPLY).
1	HEX	0C	WEBCPLOG	LOGO
1	HEX	0D	WEBCPTMR	COMMAND END (NO OUTPUT FOR COMMAND ENTERED).
1	HEX	0E	WEBCPPTH	IUCV PATH ID
1	HEX	0F	WEBCPCAH	COLOR & HIGHLIGHT MAP FOR ADVANTAGE II
1	HEX	10	WEBCPLSA	DEVICE INFORMATION (TERMINAL COMMAND).
<b>FUNCTION CODES FOR OUTBOUND PROCESSING IN CMS MODE</b>				
1	HEX	00	WEBCMWRT	WRITE TO LINE NUMBER SPECIFIED IN WEBLINE.
1	HEX	01	WEBCMEWT	ERASE OUTPUT AREA/WRITE TO LINE NUMBER SPECIFIED IN WEBLINE.
1	HEX	02	WEBCMCLR	ERASE ENTIRE SCREEN AND REFRESH THE FORMAT OF THE OUTPUT, INPUT AND STATUS AREAS.
<b>FUNCTION CODES FOR OUTBOUND PROCESSING IN FULL SCREEN SUPPORT MODE.</b>				
1	HEX	00	WEBFSWRT	FSSM WRITE
1	HEX	01	WEBFSEWT	FSSM ERASE/WRITE
1	HEX	02	WEBFSEWA	FSSM ERASE/WRITE ALTERNATE
1	HEX	03	WEBFSRDM	FSSM READ MODIFIED
1	HEX	04	WEBFSRDB	FSSM READ BUFFER
1	HEX	05	WEBFSWSF	FSSM WRITE STRUCTURED FIELD
1	HEX	06	WEBFSEAU	FSSM ERASE ALL UNPROTECTED
1	HEX	07	WEBFSRBP	FSSM READ BUFFER BY POSITION
1	HEX	08	WEBFSRMP	FSSM READ MODIFIED BY POSITION
<b>FUNCTION CODES FOR INBOUND PROCESSING IN ALL MODES</b>				
1	HEX	01	WEBINLOG	LOGON REQUEST
1	HEX	02	WEBINATT	ATTENTION INTERRUPT WITHOUT DATA
1	HEX	05	WEBINCB1	MOVE CURSOR BACK ONE
1	HEX	06	WEBINLGF	VTAM GENERATED LOGOFF CONDITION, CCS WILL LOGOFF USER.
1	HEX	07	WEBINFNU	FSSM REQUEST REJECTED, SCREEN NOT IN USER MODE.
1	HEX	08	WEBINAOK	NORMAL RESPONSE
1	HEX	09	WEBINACT	ACCOUNTING DATA FOR CCS
1	HEX	0A	WEBINOPC	OPERATION CHECK FOR FSSM REQUEST
1	HEX	0B	WEBINLER	LOGICAL INTERFACE ERROR (DTIWEB)
1	HEX	0C	WEBINVER	VM/VSCS INTERNAL PROCESSING ERROR
1	HEX	0D	WEBRDERR	ERROR IN INPUT DATA FOUND BY THE NCP
1	HEX	0E	WEBINVTM	IDENTIFY VTAM USER ID TO CCS
<b>FUNCTION CODES FOR INBOUND PROCESSING IN FULLSCREEN MODE ONLY</b>				
1	HEX	0F	WEBINCC1	FSSM REFLECT ATTENTION , CC1 on SIO
1	HEX	10	WEBINECU	FSSM EQUIPMENT CHECK AND UNIT SPECIFY
1	HEX	11	WEBINDCU	FSSM DATA CHECK AND UNIT SPECIFY
1	HEX	12	WEBINEC	FSSM EQUIPMENT CHECK
1	HEX	13	WEBINCRJ	FSSM COMMAND REJECT
1	HEX	14	WEBINDC	FSSM DATA CHECK



Len	Type	Value	Name	Description
1	HEX	15	WEBINCC	FSSM CONTROL CHECK
CONSTANTS FOR WEBMODE - MODE OF OPERATION				
1	HEX	00	WEBCONS	CONSOLE MODE - VIRTUAL SIO OR CALL FROM CCS.
1	HEX	01	WEBCMSE	CMS MODE - DIAGNOSE X'58' OR CCW CODE X'19'.
1	HEX	02	WEBFSSM	FULL SCREEN SUPPORT MODE - DIAGNOSE X'58', CCW CODE X'29', OR CCW CODE X'2A'.
1	HEX	04	WEBVSAN	VM/VSCS INTERNAL MODE (USED ONLY BY VM/VSCS COMPONENTS)
CONSTANTS FOR WEBCHAR - CHARACTER SET BEING USED				
1	HEX	00	WEBCHF0	EBCDIC CHARACTER SET
1	HEX	01	WEBCHAPL	APL CHARACTER SET
1	HEX	02	WEBCHTN	TEXT CHARACTER SET
CONSTANTS FOR WEBVSRPS - VTAM SERVICES RESPONSE TO PRESENTATION SEND REQUEST.				
1	HEX	01	WEBVSOPC	OPERATION CHECK
1	HEX	02	WEBVSLFU	UNCONDITIONAL LOGOFF
1	HEX	03	WEBVSERR	UNRECOVERABLE I/O ERROR
1	HEX	04	WEBVSBSY	PRINTER BUSY
1	HEX	05	WEBVSIRQ	PRINTER INTERVENTION REQUIRED
1	HEX	06	WEBVSNV	PRINTER NOT AVAILABLE
1	HEX	07	WEBTWXER	ERROR IN INPUT DATA FOUND BY THE NCP
1	HEX	08	WEBVSAOK	SUCCESSFUL COMPLETION
1	HEX	0C	WEBVSVER	UNRECOVERABLE INTERNAL ERROR
1	HEX	0D	WEBVSPSL	PRESENTATION SPACE INTEGRITY LOST
1	HEX	0E	WEBVSCNL	SEND CANCELLED BY CANCEL KEY
1	HEX	0F	WEBVSCC1	REFLECT ATTENTION, CC1 on SIO
1	HEX	10	WEBVSECU	EQUIPMENT CHECK AND UNIT SPECIFY
1	HEX	11	WEBVSDCU	DATA CHECK AND UNIT SPECIFY
1	HEX	12	WEBVSEC	EQUIPMENT CHECK
1	HEX	13	WEBVSCRJ	COMMAND REJECT
1	HEX	14	WEBVSDC	DATA CHECK
1	HEX	15	WEBVSCC	COMMAND CHECK
DEFINITION OF DTIVSRPS FIELD ON INPUT FROM KEYBOARD/PRINTER. NOTE: DTIVSRPS CONTAINS 'LOGICAL ATTENTION IDENTIFIER' (LAID) ON INPUT FROM K/P.				
1	HEX	7D	WEBVSENT	ENTER KEY AID CODE
1	HEX	6C	WEBVSPA1	PA1 KEY AID CODE
CONSTANTS DEFINED IN WEBLAID - LOGICAL ATTENTION IDENTIFIER (LOGICAL AID)				
1	HEX	00	WEBLANTR	ENTER ENTER FOR 3270: THE MAGNETIC CARD PHYSICAL ATTENTION ID MAPS TO THE SAME LOGICAL ATTENTION ID. THE PHYSICAL ATTENTION ID MUST BE USED TO DISTINGUISH THE TWO.
1	HEX	01	WEBLAPA1	PA1 ATTN
1	HEX	02	WEBLAPA2	PA2 NA
1	HEX	03	WEBLAPA3	PA3 (CCS MAPS TO PF6) NA
1	HEX	04	WEBLACLR	CLEAR KEY (INTERNAL)
1	HEX	05	WEBSATTN	N/A SINGLE ATTENTION
1	HEX	06	WEBMATTN	N/A MULTIPLE ATTENTION
1	HEX	64	WEBLALPD	LIGHT PEN NA
1	HEX	65	WEBLA001	PF1 NA
1	HEX	66	WEBLA002	PF2 NA
1	HEX	67	WEBLA003	PF3 NA
1	HEX	68	WEBLA004	PF4 NA
1	HEX	69	WEBLA005	PF5 NA
1	HEX	6A	WEBLA006	PF6 NA
1	HEX	6B	WEBLA007	PF7 NA
1	HEX	6C	WEBLA008	PF8 NA
1	HEX	6D	WEBLA009	PF9 NA
1	HEX	6E	WEBLA010	PF10 NA
1	HEX	6F	WEBLA011	PF11 NA
1	HEX	70	WEBLA012	PF12 NA
1	HEX	71	WEBLA013	PF13 NA

Len	Type	Value	Name	Description
1	HEX	72	WEBLA014	PF14 NA
1	HEX	73	WEBLA015	PF15 NA
1	HEX	74	WEBLA016	PF16 NA
1	HEX	75	WEBLA017	PF17 NA
1	HEX	76	WEBLA018	PF18 NA
1	HEX	77	WEBLA019	PF19 NA
1	HEX	78	WEBLA020	PF20 NA
1	HEX	79	WEBLA021	PF21 NA
1	HEX	7A	WEBLA022	PF22 NA
1	HEX	7B	WEBLA023	PF23 NA
1	HEX	7C	WEBLA024	PF24 NA

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DTIWEB	0		1	WEBLINEL	4F		5
WEBANFSW	3C	10	7	WEBLOGOB	46		5
WEBATTNW	43	20	6	WEBLOGOL	44		5
WEBCAN	35		3	WEBMASKW	43	02	6
WEBCHAR	3A		6	WEBMODE	39		6
WEBCHCPO	4C		7	WEBNLLOS	3F		6
WEBCHDIR	43	04	6	WEBNOEKO	3B	02	7
WEBCHINA	4F		6	WEBNOMOR	3C	04	7
WEBCHINR	4E		6	WEBNOVCK	43	40	6
WEBCHSTA	50		6	WEBOFSET	44		6
WEBCHVMO	4D		6	WEBOUBND	39		3
WEBCONMD	3C	40	7	WEBPACE	52		5
WEBCOUNT	36		3	WEBPAIRA	30		2
WEBCPALM	3D	20	8	WEBPASPA	3C	01	7
WEBCPFLG	3D		6	WEBPRMPT	3C	02	7
WEBCPHLW	3D	08	8	WEBRPYA	30		3
WEBCPMDE	3D	10	8	WEBRSVSA	43		5
WEBCPNCR	3D	80	8	WEBRSV4	46		6
WEBCPPRI	3D	40	8	WEBRSV5	46		7
WEBCPROS	43	80	6	WEBSAFLG	3D		7
WEBCPRNR	3D	01	8	WEBSAHLA	3D	20	9
WEBCPRRR	3D	02	8	WEBSAMOR	3D	10	9
WEBCPRSP	3D	04	8	WEBSAPTH	50		5
WEBCPRTY	47		7	WEBSARNR	3D	01	9
WEBCTRL	34		2	WEBSARRR	3D	02	9
WEBCCURSR	40		5	WEBSARSP	3D	04	9
WEBDATA	4C		2	WEBSNDA	30		4
WEBDFLG1	4C		6	WEBTABCH	42		5
WEBDFTR	4E		5	WEBTERM	4C	80	8
WEBDIAL	3C	08	7	WEBTRQ	8		5
WEBDMDL	4D		5	WEBTTYWT	3C	80	7
WEBDTYPE	54		5	WEBTYPC	4C		5
WEBEDCUP	3B	01	7	WEBVEIB	8		3
WEBEDIT	3B		6	WEBVSAWK	48		5
WEBEDPTI	3B	04	7	WEBVSRPS	48		6
WEBEHDR	0		2	WEBWSFQ	4E	10	7
WEBENVR	39		5	WEBWTCNT	44		7
WEBFLAGS	3C		6	WEBXB	4C		3
WEBFMT	34		3	WEBXCLOL	4E	80	7
WEBFSLG	46	01	8	WEBXHILI	4E	40	7
WEBFUN	38		3	WEBXMT	8		4
WEBGRAF	4C	40	8	WEBXPSS	4E	20	7
WEBHIEKO	3B	08	7				
WEBILOG	4C		4				
WEBINBND	39		4				
WEBINLIP	43	10	6				
WEBINWSF	55		5				
WEBIP	8		2				
WEBLAID	3E		6				
WEBLED	3C	20	7				
WEBLINE	3E		5				

## Transmit Buffer Information (XMT)

<b>Function:</b>	DTIXMT contains information and data to be transmitted to a logical unit.
<b>Boundary:</b>	Doubleword.
<b>Size in bytes:</b>	Variable.
<b>Additional Notes:</b>	DTIXMT maps WEBXMT in DTIWEB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	40	DTIXMT	
0	(0)	ADDRESS	4	XMTBUDA	XMIT BUFFER UNUSED ADDR (DOWN)
4	(4)	ADDRESS	4	XMTBUUA	XMIT BUFFER UNUSED ADDRESS (UP)
8	(8)	ADDRESS	4	XMTASLLC	ADDRESS OF THE START OF THE LOGICAL LINE CHAIN.
12	(C)	ADDRESS	4	XMTALLLC	ADDRESS OF LAST LINE IN LOGICAL LINE CHAIN.
16	(10)	SIGNED	4	XMTBL	XMIT BUFFER LENGTH
20	(14)	SIGNED	4	XMTBULD	XMIT BUFFER UNUSED LENGTH (DOWN)
24	(18)	SIGNED	4	XMTBULU	XMIT BUFFER UNUSED LENGTH (UP)
28	(1C)	ADDRESS	4	XMTVSRUA	RU STARTING ADDRESS FOR VTAM SERVICES.
32	(20)	SIGNED	4	XMTVSRUL	RU LENGTH FOR VTAM SERVICES
36	(24)	CHARACTER	1	XMTTYPE	TYPE OF DTIXMT BUFFER
37	(25)	CHARACTER	1	XMTFLG1	
		1... ....		XMTCD	CHANGE DIRECTION (TURNAROUND) FOR START/STOP PROTOCOL - YES=1.
		.1.. ....		XMTRSHOW	REDISPLAY IN TRANSMIT BUFFER - YES = 1.
		..1. ....		XMTPMSG	PRIORITY MESSAGE IN TRANSMIT BUFFER - YES = 1.
		...1 ....		XMTDIAG	CMS DIAGNOSE IN THE TRANSMIT BUFFER - YES = 1.
		.... 1..		XMTLRU	LOGO RU, ALLOW INTERVENTION REQUIRED FOR THIS SEND - YES = 1
		.... .1..		XMTATTN	ATTENTION WRITE IN THE TRANSMIT BUFFER - YES = 1.
		.... ..1.		XMTINPT	INPUT EXPECTED FOR THIS SEND - YES = 1.
		.... ...1		XMTPWMSK	PASSWORD MASK WRITE IS IN TRANSMIT BUFFER
38	(26)	CHARACTER	1	XMTFLG2	RESERVED
		1... ....		XMTVSRBL	XMIT BUFFER WAS REBUILT AND SEND RETRIED - YES=1.
		.1.. ....		XMTERCMT	DTIXMT IS JUST A COPY
		..1. ....		XMTERERR	ERROR RETRY NECESSARY
		...1 ....		XMTERPSL	PRESENTATION SPACE LOST
		.... 1..		XMTLMPEO	LMPEO REQUESTED SEND
		.... .111		*	RESERVED
39	(27)	CHARACTER	1	XMTSTATE	STATE AT TIME OF REQUEST

### Constants

Len	Type	Value	Name	Description
1	CHARACTER	D	XMTCMS	DTIXMT BUFFER TYPE = CMS (DIAGNOSE).
1	CHARACTER	C	XMTCONSL	DTIXMT BUFFER TYPE = CONSOLE
1	CHARACTER	P	XMTCOPY	DTIXMT BUFFER TYPE = COPY (PRINTER).
1	CHARACTER	L	XMTCPYLU	DTIXMT BUFFER TYPE = COPY LUNAME
1	CHARACTER	F	XMTFSSM	DTIXMT BUFFER TYPE = FULL SCREEN SUPPORT MODE.
1	CHARACTER	W	XMTWSF	DTIXMT BUFFER TYPE = WRITE STRUCTURED FIELD
2	DECIMAL	64	XMTUPLEN	LENGTH OF XMIT BUFFER UNUSED UP BEFORE ANY CONTROL BYTES ADDED.

## Cross Reference

Name	Hex Offset	Hex Value	Level
DTIXMT	0		1
XMTALLC	C		2
XMTASLLC	8		2
XMTATTN	25	04	3
XMTBBL	10		2
XMTBUDA	0		2
XMTBULD	14		2
XMTBULU	18		2
XMTBUUA	4		2
XMTCD	25	80	3
XMTDIAG	25	10	3
XMTERCMT	26	40	3
XMTERERR	26	20	3
XMTERPSL	26	10	3
XMTFLG1	25		2
XMTFLG2	26		2
XMTINPT	25	02	3
XMTLMPEO	26	08	3
XMTLRU	25	08	3
XMTPMSG	25	20	3
XMTPWMSK	25	01	3
XMTRSHOW	25	40	3
XMTSTATE	27		2
XMTTYPE	24		2
XMTVSRBL	26	80	3
XMTVSRUA	1C		2
XMTVSRUL	20		2

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## Chapter 4. Request/Response Units

The two lists that follow show VTAM-processed RUs. The first list presents the RUs in alphabetic order by their SNA names, and the second presents them in numeric sequence by their request codes.

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## RU List by SNA Name

**Note:** The mapping of the NSRU, DTAKD, and DTAKC data areas is located in the RU data area.

SNA RU Name	VTAM Data Area	SNA RU Name	VTAM Data Area
ABCONN	ABCRU	INIT-OTHER	INIRU
ABCONNOUT	ACNRU	INIT-OTHER-CD	CRDIO
ACTCDRM	ACTCD	INIT-SELF	ISHDR
ACTCONNIN	AINRU	INITLOAD	ILDRU
ACTLINK	ALKRU	INOP	INPRU
ACTLU	ALURU	LCP	LCPRU
ACTPU	APURU	LD-REQD	LRDRU
ACTPU	APRRU	LOADSTAT	LDSRU
ACTTRACE	ATRRU	NC-ACTVR	VRARU
ADDLK	PLKRU	NC-DACTVR	VRDRU
ADDLS	PSTRU	NC-ER-ACT	ERARU
ADDNR	ANRRU	NC-ER-ACT-REPLY	EARRU
ANA	ANARU	NC-ER-INOP	ERIRU
ANSC	ANCRU	NC-ER-OP	ERORU
BFCINIT	BCIN	NC-ER-TEST	ETSRU
BFCLEANUP	BFCLN	NC-ER-TEST-REPLY	ETRRU
BFINIT	BFNRU	NMVT	NMVRU
BFSESEND	BFSRU	NOTIFY (SSCP-LU)	NOTRU
BFSESSINFO	BFINF	NOTIFY (SSCP-PU)	NTFY
BFSESSST	BSST	NS-IPL-ABORT	IPARU
BFTERM	BFRTM	NS-IPL-FINAL	NSRU
BIND	BIND	NS-IPL-INIT	NSRU
BIND	DBIND	NS-IPL-TEXT	NSRU
BINDF	BFA	NSPE	NSPE
CDCINIT	CDCIN	RECAMS	RFMRU
CDINIT	CDIN	RECMS	RMSRU
CDESESEND	CRSE	RECSTOR	RSTRU
CDESSSF	CDSF	RECTR	RCTRU
CDESSST	CSESS	REQACTCDRM	RQACD
CDESSSTF	CTKF	REQCONT	RQCRU
CDTAKEDC	DTAKC	REQDACTVR	RDVRU
CDTAKED	DTAKD	REQDELNR	RDRRU
CDTERM	CDTRM	REQDUMP	RDPRU
CINIT	CTLIN	REQECHO	RQERU
CLEANUP	CLNUP	REQERACT	RAERU
CONNOUT	CNTRU	REQLOADC	RLDRU
CONTACT	CTCRU	REQLOADU	RLDRU
CONTACTED	KTDRU	RNAA	RADRU
CTERM	CTERM	ROUTE-INOP	IOPRU
DACTCDRM	DACTC	SESEND	SSERU
DACTCONNIN	DINRU	SESSST	SSSRU
DACTLINK	DLKRU	SETCV	MSVRU
DACTPU	DPURU	SETCV	SCVRU
DACTTRACE	ATRRU	SETCV	SRUHD
DELETENR	DNRRU	SWITCH	SWTRU
DELIVER	DLVRU	TERM-OTHER	TMORU
DISCONTACT	DCTRU	TERM-SELF (FMT0)	TS0RU
DISPSTOR	DSTRU	TERM-SELF (FMT1)	TS1RU
DSRLST	DSL	TESTMODE	ETMRU
ECHOTEST	ECTRU	TR-INQ	TRINQ
ER-TESTED	ETRRU	TR-RPLY	TRPLY
FNA	FADRU	UNBIND	UNBRU
FNA	FNARU	UNBINDF	UBFRU
FNA	FNERU	VRSTAT	VRSRU
FORWARD	FWDRU		
GBIND	GBIND		
GUNBIND	GUNB		

## RU List by Request/Response Code

The following list contains all VTAM-processed RUs in numeric order.

The *Hex Value* column shows the hex numbers present in the first 1, 2 3, or 4 bytes of the RU.

The *RU Name* column shows the full name of the command.

The *SNA Abbreviation* column shows the name of the RU if it is listed in *Systems Network Architecture Network Product Formats*.

Meanings for the entries in the *RU Category* column are:

Category	Meaning
FMD	Function management data
NC	Network control
DFC	Data flow control
SC	Session control
AMRU	Access method RU

The *VTAM Data Areas* column shows the data area in the following pages that maps VTAM's implementation of the RU. An entry of '--' indicates there is no VTAM data area associated with the RU.

For more information about RUs, see *Systems Network Architecture Network Product Formats*.

Hex Value	RU Name	SNA Abbreviation	RU Category	VTAM Data Area
010002	Change Negative Response Poll Limit	--	FMD	--
010003	Change Session Limit	--	FMD	--
010004	Change Service Seeking Pause	--	FMD	--
010201	Contact	CONTACT	FMD	CTCRU
010202	Discontact	DISCONTACT	FMD	DCTRU
010203	IPL Initial	IPLINIT	FMD	--
010204	IPL Text	IPLTEXT	FMD	--
010205	IPL Final	IPLFINAL	FMD	--
010206	Dump Initial	DUMPINIT	FMD	--
010207	Dump Text	DUMPTXT	FMD	--
010208	Dump Final	DUMPFINAL	FMD	--
010209	Remote Power Off	RPO	FMD	--
01020A	Activate Link	ACTLINK	FMD	ALKRU
01020B	Deactivate Link	DACTLINK	FMD	DLKRU
01020E	Connect Out	CONNOUT	FMD	CNTRU
01020F	Abandon Connection	ABCONN	FMD	ABCRU
010211	Set Control Vector (Configuration Services)	SETCV	FMD	SCVRU/ SRUHD
010214	Entering Slowdown	ESLOW	FMD	--
010215	Exiting Slowdown	EXSLOW	FMD	--
010216	Activate Connect In	ACTCONNIN	FMD	AINRU
010217	Deactivate Connect In	DACTCONNIN	FMD	DINRU
010218	Abandon Connect Out	ABCONNOUT	FMD	ACNRU
010219	Assign Network Address	ANA	FMD	ANARU
01021A	Free Network Address	FNA	FMD	FADRU/ FNARU/ FNERU
01021B	Request Discontact	REQDISCONT	FMD	--
010222	Set Control Vector (Configuration Services)	SETCV	FMD	MSVRU
010280	Contacted	CONTACTED	FMD	KTDRU
010281	Inoperative	INOP	FMD	INPRU
010284	Request Contact	REQCONT	FMD	RQCRU

Hex Value	RU Name	SNA Abbreviation	RU Category	VTAM Data Area
0102FFA0	Allocate Resource	--	AMRU	ALRRU
0102FFA1	Free Resource	--	AMRU	FRERU
0102FFA2	Set Routable State	--	AMRU	RTARU
0102FFA3	Reset Routable State	--	AMRU	RTIRU
010302	Activate Trace	ACTTRACE	FMD	ATRRU
010303	Deactivate Trace	DACTTRACE	FMD	ATRRU
010311	Set Control Vector (Maintenance Services)	SETCV	FMD	MSVRU
010331	Display Storage	DISPSTOR	FMD	DSTRU
010334	Record Storage	RECSTOR	FMD	RSTRU
010381	Record Maintenance Stats	RECMS	FMD	--
010382	Record Test Data	RECTD	FMD	--
010383	Record Trace Data	RECTRD	FMD	--
0104FF80	Record Measurement Data	--	FMD	RMDRU
010604	Network Services Procedure Error	NSPE	FMD	NSPE
010681	Initiate Self (Format 0)	INIT-SELF	FMD	ISHDR
010683	Terminate Self (Format 0)	TERM-SELF	FMD	TS0RU
02	NC IPL Final	NC-IPL-FINAL	NC	--
03	NC IPL Initial	NC-IPL-INIT	NC	--
04	NC IPL Text	NC-IPL-TEXT	NC	--
04	Logical Unit Status	LUSTAT	DFC	--
05	Ready to Receive	RTR	DFC	--
06	Entering Automatic Network Shutdown	ANSS	NC	--
06	Explicit Route Inoperative	NC-ER-INOP	NC	ERIRU
07	Automatic Network Shutdown Complete	ANSC	NC	ANCRU
08	Lost Path	--	NC	--
09	Explicit Route Test	NC-ER-TEST	NC	ETSRU
0A	Explicit Route Test Reply	NC-ER-TEST-REPLY	NC	ETRRU
0B	Explicit Route Activate	NC-ER-ACT	NC	ERARU
0C	Explicit Route Activate Reply	NC-ER-ACT-REPLY	NC	EARRU
0D	Activate Logical Unit	ACTLU	SC	ALURU
0D	Activate Virtual Route	NC-ACTVR	NC	VRARU
0E	Deactivate Logical Unit	DACTLU	SC	--
0E	Deactivate Virtual Route	NC-DACTVR	NC	VRDRU
0F	Explicit Route Operative	NC-ER-OP	NC	ERORU
11	Activate Physical Unit Request	ACTPU	SC	APURU/ APRRU
12	Deactivate Physical Unit	DACTPU	SC	DPURU
14	Activate CDRM	ACTCDRM	SC	ACTCD
15	Deactivate CDRM	DACTCDRM	SC	DACTC
31	BIND	BIND	SC	BIND/ DBIND
32	UNBIND	UNBIND	SC	UNBRU
33	Switch	SWITCH	SC	SWTRU
3F0233	Initiate Load	INITLOAD	FMD	ILDRU
3F0234	Load Status	LOADSTAT	FMD	LDSRU
3F0814	Translate Inquiry	TR-INQ	FMD	TRINQ
3F0816	Translate Reply	TR-RPLY	FMD	TRPLY
410210	Request Network Address Assignment	RNAA	FMD	RADRU
410220	Notify (Configuration Services) for SSCP-PU Session	NOTIFY	FMD	NTFY
410223	Virtual Route Inoperative	NS-VR-INOP	FMD	--
410237	Load Required	LDREQD	FMD	LRDRU
410240	Add Network Resource	ADDNR	FMD	ANRRU
410243	Downstream Load IPL Initiate	NS-IPL-INIT	FMD	NSRU*
410244	Downstream Load IPL Text	NS-IPL-TEXT	FMD	NSRU*
410245	Downstream Load IPL Final	NS-IPL-FINAL	FMD	NSRU*

RU



Hex Value	RU Name	SNA Abbreviation	RU Category	VTAM Data Area
410246	Downstream Load IPL Abort	NS-IPL-ABORT	FMD	IPARU
410286	Request Delete Network Resource	REQDELNR	FMD	RDRRU
410287	Lost Control Point	LCP	FMD	LCPRU
410289	Route Inoperative	ROUTE-INOP	FMD	IOPRU
41028A	Request Activation of Cross-Network Resource Manager	REQACTCDRM	FMD	RQACD
4102FF06	Gained Gateway Node	--	AMRU	GLGWN
4102FF07	Lost Gateway Node	--	AMRU	GLGWN
4102FF08	Deactivate Transforms	--	AMRU	DEXF
4102FF10	Request Network Address Assignment	--	AMRU	RNARU
4102FF12	Connect AM	--	AMRU	CONRU
4102FF13	Disconnect RU	--	AMRU	DCNRU
4102FF66	Exchange ID	--	AMRU	AMRU
4102FFBD	Add Link	ADDLK	AMRU	PLKRU
4102FFBE	Add Link Station	ADDLS	AMRU	PSTRU
4102FFBF	Delete Network Resource	DELETENR	AMRU	DNRRU
4102FFCD	Request Dump	REQDUMP	AMRU	RDPRU
4102FFCE	Request Conditional Load	REQLOADC	AMRU	RLDRU
4102FFCF	Request Unconditional Load	REQLOADU	AMRU	RLDRU
410304	Request Maintenance Statistics	RECMS	FMD	RMSRU
410305	Enter Test Mode	TESTMODE	FMD	ETMRU
410307	Route Test	--	FMD	TRTRU
410384	Record Formatted Maintenance Statistics	REFMS	FMD	RFMRU
410385	Record Test Results	RECTR	FMD	RCTRU
410386	Explicit Route Tested	ER-TESTED	FMD	ETRRU
41038D	Network Management Vector Transport	NMVT	FMD	NMVRU
4106FF01	OPEN ACB	--	AMRU	OCRU
4106FF02	CLOSE ACB	--	AMRU	OCRU
50	NCP Initialization Complete	--	NC	--
51	Switch line EP to NCP mode	--	NC	--
52	Switch line NCP to EP mode	--	NC	--
6300001	Service Manager Parameter List (SMP)	--	FMD	(see note)
70	Bracket Initiation Stopped	BIS	DFC	--
71	Stop Bracket Initiation	SBI	DFC	--
80	Quiesce End of Chain	QEC	DFC	--
81	Quiesce Complete	QC	DFC	--
810387	Request Echo Test	REQECHO	FMD	RQERU
810389	Echo Test	ECHOTEST	FMD	ECTRU
810601	Control Initiate	CINIT	FMD	CTLIN
810602	Control Terminate	CTERM	FMD	CTERM
810620	Notify (SSCP-LU)	NOTIFY	FMD	NOTRU
810629	Cleanup	CLEANUP	FMD	CLNUP
810680	Initiate Other	INIT-OTHER	FMD	INIRU
810681	Initiate Self (Format 1)	INIT-SELF	FMD	ISHDR
810682	Terminate Other	TERM-OTHER	FMD	TMORU
810683	Terminate Self (Format 1)	TERM-SELF	FMD	TS1RU
810685	Bind Failure	BINDF	FMD	BFA
810686	Session Started	SESSST	FMD	SSSRU
810687	Unbind Failure	UNBINDF	FMD	UBFRU
810688	Session Ended	SESEND	FMD	SSERU
8106FF19	Address Request Complete	--	AMRU	ARCA
8106FF20	Resume Access Method	--	AMRU	RESUM
8106FF80	Reallocate	--	AMRU	RELOC
810810	Forward	FORWARD	FMD	FWDRU
810812	Deliver	DELIVER	FMD	DLVRU



Hex Value	RU Name	SNA Abbreviation	RU Category	VTAM Data Area
810814	Communication Network Management Control	--	FMD	CNMRU
8108FF01	Notify	--	AMRU	NAMRU
810A00	API SETLOGON (START)	--	FMD	(see note)
810A01	API SETLOGON (STOP)	--	FMD	(see note)
810A02	API SETLOGON (QUIESCE)	--	FMD	(see note)
810A10	API SIMLOGON	--	FMD	(see note)
810A20	API OPNDST (ACQUIRE)	--	FMD	(see note)
810A21	API OPNDST (ACCEPT)	--	FMD	(see note)
810A30	API INQUIRE (LOGONMSG)	--	FMD	(see note)
810A31	API INQUIRE (DEVCHAR)	--	FMD	(see note)
810A32	API INQUIRE (COUNTS)	--	FMD	(see note)
810A33	API INQUIRE (TOPLOGON)	--	FMD	(see note)
810A34	API INQUIRE (CIDXLATE)	--	FMD	(see note)
810A35	API INQUIRE (TERMS)	--	FMD	(see note)
810A36	API INQUIRE (APPSTAT)	--	FMD	(see note)
810A37	API INQUIRE (SESSPARM)	--	FMD	(see note)
810A38	API INQUIRE (SESSKEY)	--	FMD	(see note)
810A40	API INTRPRET	--	FMD	(see note)
810A50	API CLSDST (PASS)	--	FMD	(see note)
810A51	API CLSDST (RELEASE)	--	FMD	(see note)
810A60	API SESSIONC	--	FMD	(see note)
810A70	API SENDCMD	--	FMD	(see note)
810A80	API RVCMD	--	FMD	(see note)
810A90	API REQSESS	--	FMD	(see note)
810AA0	API OPNSEC	--	FMD	(see note)
810AB0	API TERMSESS	--	FMD	(see note)
812601	BF Control Initiate	BFCINIT	FMD	BCIN
812629	BF Cleanup	BFCLEANUP	FMD	BFCLN
812681	BF Initiate	BFINIT	FMD	BFNRU
812683	BF Terminate	BFTERM	FMD	BFRTM
812686	BF Session Started	BFSESSST	FMD	BSST
812688	BF Session Ended	BFSESEND	FMD	BFSRU
81268C	BF Session Information	BFSESSINFO	FMD	BFINF
818620	Cross-Domain Notify (SSCP-LU)	NOTIFY	FMD	NOTRU
818627	Direct Search List	DSRLST	FMD	DSL
818640	Cross-Domain Initiate Other	INIT-OTHER-CD	FMD	CRDIO
818641	Cross-Domain Initiate	CDINIT	FMD	CDIN
818643	Cross-Domain Terminate	CDTERM	FMD	CDTRM
818645	CD Session Setup Failure	CDSESSSF	FMD	CDSF
818646	CD Session Started	CDSESSST	FMD	CSESS
818647	CD Session Takedown Failure	CDSESTF	FMD	CTKF
818648	CD Session Ended	CDSESEND	FMD	CRSE
818649	Cross-Domain Takedown	CDTAKED	FMD	DTAKD*
81864A	CD Takedown Complete	CDTAKEDC	FMD	DTAKC*
81864B	CD Control Initiate	CDCINIT	FMD	CDCIN
82	Release Quiesce	RELQ	DFC	--
83	Cancel	CANCEL	DFC	--
84	Chase	CHASE	DFC	--
A0	Start Data Traffic	SDT	SC	--
A1	Clear	CLEAR	SC	--
A2	Set and Test Sequence Numbers	STSN	SC	--
A3	Request Recovery	RQR	SC	--
C0	Cryptography Verify	CRV	SC	--
C0	Shutdown	SHUTD	DFC	--
C1	Shutdown Complete	SHUTC	DFC	--
C2	Request Shutdown	RSHUTD	DFC	--
C8	Bid	BID	DFC	--

RU

Hex Value	RU Name	SNA Abbreviation	RU Category	VTAM Data Area
C9	Signal	SIG	DFC	--
FF01	Virtual Route Inoperative	--	AMRU	AMRU
FF01	Notify (drive LOSTERM)	--	AMRU	AMRU
FF02	Set Session Address	--	AMRU	AMRU
FF03	Set Session Address and Disconnect	--	AMRU	AMRU
FF04	Override Session Address	--	AMRU	AMRU
FF05	Purge Wait Queue	--	AMRU	AMRU
FF06	Flush Virtual Route Sessions	--	AMRU	AMRU
FF0B	Request Explicit Route Activation	REQERACT	AMRU	RAERU
FF0E	Request Virtual Route Deactivation	REQDACTVR	AMRU	RDVRU
FF31	Generic Bind	GBIND	AMRU	GBIND
FF32	Generic Unbind	GUNBIND	AMRU	GUNB
FFFF	Virtual Route Status	VRSTAT	AMRU	VRSRU

**Note:** ISTSMP is a parameter list and is mapped separately under 'SMP.' No RUs map the API request codes (810A00 - 810AB0).

\* The data areas NSRU, DTAKD, DTAKC are mapped in RU.



## Abandon Connection RU (ABCRU)

<b>Function:</b>	ABCRU requests the PU to deactivate the link connection for the specified link.
<b>RU Header:</b>	X'01020F' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTABCRU	
0	(0)	CHARACTER	3	ABCNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	ABCNAD	NETWORK ADDRESS OF LINK
3	(3)	CHARACTER	2	ABCELEM	ELEMENT ADDRESS

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR ABCNSHDR				
3	HEX	01020F	ABCHDRC	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 0F-REQUEST CODE

RU

## Abandon Connect Out RU (ACNRU)

<b>Function:</b>	ACNRU requests the PU to terminate a connect-out procedure on the designated link.
<b>RU Header:</b>	X'010218' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTACNRU	
0	(0)	CHARACTER	3	ACNNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	ACNNAD	NETWORK ADDRESS OF LINK
3	(3)	CHARACTER	2	ACNELEM	ELEMENT ADDRESS

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR ACNNSHDR				
3	HEX	010218	ACNHDR	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 18-REQUEST CODE



## Activate Cross-Domain Resource Manager RU (ACTCD)

<b>Function:</b>	An SSCP sends ACTCD to another SSCP to activate a session between them and to exchange information about the SSCPs.
<b>RU Header:</b>	X'14' (request code)
<b>RU Type:</b>	SC

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	19	ISTACTCD	ACTCDRM RU	
0	(0)	CHARACTER	1	ACTCHDR	SESSION CONTROL REQUEST CODE	
1	(1)	CHARACTER	1	ACTCTYPE	ACTCDRM FORMAT OR TYPE	
		1111 ....		ACTCFMT	ACTCDRM FORMAT	
		.... 1111		ACTCTYP	ACTCDRM TYPE	
2	(2)	CHARACTER	1	ACTCFMPR	FUNCTION MANAGEMENT PROFILE	
3	(3)	CHARACTER	1	ACTCTSPR	TS PROFILE	
4	(4)	CHARACTER	8	ACTCCTID	CONTENTS ID	
12	(C)	CHARACTER	6	ACTCCPID	SSCPID	
18	(12)	CHARACTER	1	ACTCPACE	PACING PARAMETER NOTE - 2 BITS RESERVED AND 6 BITS PACING VALUE	
19	(13)	CHARACTER	*	ACTCVKEY	VECTOR KEY IF ANY	

FOLLOWING ARE THE VECTORS SUPPORTED BY ACTCDRM:  
 X'06' CDRM CONTROL VECTOR  
 X'09' ACTIVATION REQUEST/RESPONSE SEQUENCE IDENTIFIER CONTROL VECTOR MAPPED BY ISTARSI  
 X'FE' CONTROL VECTOR FOR KEYS NOT RECOGNIZED  
 THIS RU NOW SUPPORTS 2 MORE VECTORS FOR V2 R2 INTERCONNECT  
 X'13'-GATEWAY SUPPORT CAPABILITIES CONTROL VECTOR MAPPED BY ISTGSCCV.  
 X'18'-SSCP NAME CONTROL VECTOR MAPPED BY ISTSSCPN.  
 MAPPING FOR CDRM CONTROL VECTOR X'06'

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	7	ACTCUSI	VECTOR KEY 06	
0	(0)	UNSIGNED	1	ACTCVCVK	CONTROL VECTOR KEY	
1	(1)	UNSIGNED	1	ACTCVLEN	LENGTH OF DESC FIELD-1	
2	(2)	CHARACTER	5	ACTCVDF	DESCRIPTION FIELD	
2	(2)	UNSIGNED	1	ACTCVPRF	CDRM PROFILE	
3	(3)	CHARACTER	4	ACTCVFLG	VECTOR FLAGS	
3	(3)	BITSTRING	1	*	BYTE 0	
		1... ....		ACTCVNMP	0=NAME PAIR KEYS SUPPORTED	
		.1. ....		ACTCVNAP	NETWORK ADDRESS PAIRS	
		..1. ....		ACTCVPS	PARALLEL SESSIONS	
		...1 ....		ACTCVURC	URC	
		.... 1..		ACTCVLOQ	SUPPORTS 'LEAVE ON QUEUE IF SESSION SETUP FAILS'	
		.... .1..		ACTCVRID	SUPPORTS PCID SESSION KEY	
		.... ..1.		ACTCCD2	BOTH CDSESEND FROM SSCP(SLU) AND CDINIT FORMAT 2 ARE SUPPORTED. DO NOT USE NS.LSA TO RESET SESSION KNOWLEDGE	
		.... ...1		*	NOT USED - RESERVED	
4	(4)	BITSTRING	1	*	BYTE 1	
		1... ....		ACTCOESL	EXTENSION OF LU STATUS CONTROL LIST ENTRY IS SUPPORTED	
		.1. ....		ACTCNQAP	NETWORK QUALIFIED ADDRESS PAIR SESSION KEY X'15' SUPPORTED	
		..1. ....		ACTCINO2	INIT OTHER CD FORMAT 2 SUPPORTED	
		...1 ....		ACTCINO3	INIT OTHER CD FORMAT 3 SUPPORTED	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1..		ACTCDINT	FORMAT 3 AND FORMAT 4 CDINIT SUPPORTED - INCLUDES NETWORK QUALIFIED NAU ADDRESS CONTROL VECTOR(X'1A') IF CONTROL VECTOR X'13' IS INCLUDED IN THIS ACTCDRM RESPONSE OR REQUEST THEN CDINIT FORMAT 3 OR 4 MAY INCLUDE ADDITIONAL CONTROL VECTORS FOR CROSS NETWORK SESSION SETUP
		.... ..1.		ACTCDCIN	FORMAT 1 CDCINIT SUPPORTED INCLUDES NETWORK QUALIFIED ADDRESS PAIR SESSION KEY(X'15')
		.... ..1.		ACTCNTFY	NOTIFY NS(S) VECTOR KEY X'06' SUPPORTED - THIS IS SESSION SERVICES NOTIFY
		.... ...1		ACTCNTLS	NOTIFICATION OF LOST SESSION (LU-LU) AWARENESS SUPPORTED (THE SSCP SENDS CDSSESEND IF IT HAS DISCARDED THIS SESSION IDENTIFIED BY SESSION KEY CONTENT FIELD IN THE CDSSESEND).
5	(5)	BITSTRING 1... ....	1	* ACTNCPA	BYTE 2 NOTIFICATION OF CONTROLLING PLU AVAILABILITY IS SUPPORTED
		.1.. ....		ACTHARP	1 = HARP CAPABLE
		..1. ....		ACTENA	0 = ENA NOT SUPPORTED 1 = ENA SUPPORTED
		...1 ....		ACTNQNSI	NETWORK QUALIFIED NAME SUPPORT INDICATOR. 1 = SUPPORTED
		.... 1..		ACTNSSA	TRIAL AND ERROR ROUTING OF NOTIFY KEY 8 IS NOT SUPPORTED, "CANCELLATION OF REQUEST FOR NOTIFICATION" NOTIFY KEY 9 IS SUPPORTED, AND NOTIFICATION OF SSCP-SSCP SESSION AVAILABILITY IS SUPPORTED
		.... ..1.		ACTRUEXP	INDICATES THE TYPE OF RU EXPECTED IN RESPONSE TO AN ARCHITECTURALLY DEFINED CATEGORY OF RUS (EX CDINIT, CDCINIT) 0 = -RSP (CDINIT) EXPECTED 1 = CDTERM WITH AN EXTENDED SENSE DATA (X'35')
		.... ..1.		ACTUNREC	CONTROL VECTOR IS EXPECTED INTERMEDIATE GATEWAY SSCP RESPONSE TO UNRECOGNIZED CONTROL VECTORS ON A SESSION SERVICES RU 0 = THE GATEWAY SSCP NEGATIVELY RESPONDS TO THE RU 1 = THE GATEWAY SSCP PASSES THROUGH UNRECOGNIZED VECTORS WITHOUT CHANGE
6	(6)	.... ...1 CHARACTER 1... .... .111 .... .... 1111	1	* ACTESACP ACTESA * ACTSALMT	RESERVED BYTE 3 - SUBAREA SUPPORT 1 = ESA SUPPORTED RESERVED ESA ADDRESS LIMIT

RU

**Constants**

Len	Type	Value	Name	Description
ADDITIONAL USAGE BYTES MAY BE ADDED TO ACTCVFLG. THEIR PRESENCE IS KNOWN VIA LENGTH IN ACTCVLEN.				
2	DECIMAL	18	ACTCLEN3	SNA3 ACTCDRM RU LENGTH
1	DECIMAL	5	ACTCUSIL	USER SESSION INFORMATION LENGTH
1	DECIMAL	2	ACTLEN02	VECTOR FLAG LENGTH = 2
1	DECIMAL	3	ACTLEN03	VECTOR FLAG LENGTH = 3
ACTCDRM RU HEADER CONSTANT				
1	HEX	14	ACTCHDRC	ACTCDRM NS HEADER
VALUES FOR USER SESSION INFORMATION FORMAT FIELD				
1	HEX	00	ACTCVPR0	PROFILE 0
1	HEX	06	ACTCVCP	CONTROL VECTOR FOR CDRM PROFILE
1	HEX	09	ACTCVCTD	CONTROL VECTOR FOR ACTIVATE REQUEST SEQUENCE ID
1	HEX	FE	ACTCVCFE	CONTROL VECTOR FOR KEYS NOT RECOGNIZED

## Cross Reference

Name	Hex Offset	Hex Value	Level
ACTCCD2	3	02	5
ACTCCPID	C		2
ACTCCTID	4		2
ACTCDCIN	4	04	5
ACTCDESL	4	80	5
ACTCDINT	4	08	5
ACTCFMPR	2		2
ACTCFMT	1	80	3
ACTCHDR	0		2
ACTCINO2	4	20	5
ACTCINO3	4	10	5
ACTCNQAP	4	40	5
ACTCNTFY	4	02	5
ACTCNTLS	4	01	5
ACTCPACE	12		2
ACTCTSPR	3		2
ACTCTYP	1	08	3
ACTCTYPE	1		2
ACTCUSI	0		1
ACTCVCVK	0		2
ACTCVDF	2		2
ACTCVFLG	3		3
ACTCVKEY	13		2
ACTCVLEN	1		2
ACTCVLOQ	3	08	5
ACTCVNAP	3	40	5
ACTCVNMP	3	80	5
ACTCVPRF	2		3
ACTCVPS	3	20	5
ACTCVRID	3	04	5
ACTCVURC	3	10	5
ACTENA	5	20	5
ACTESA	6	80	5
ACTESACP	6		4
ACTHARP	5	40	5
ACTNCPA	5	80	5
ACTNQNSI	5	10	5
ACTNSSA	5	08	5
ACTRUEXP	5	04	5
ACTSALMT	6	08	5
ACTUNREC	5	02	5
ISTACTCD	0		1

RU



## Activate Connect In RU (AINRU)

<b>Function:</b>	AINRU requests the PU to enable the specified link to accept incoming calls.
<b>RU Header:</b>	X'010216' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTAINRU	
0	(0)	CHARACTER	3	AINNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	AINNAD	NETWORK ADDRESS OF LINK
3	(3)	CHARACTER	2	AINELEM	ELEMENT ADDRESS
5	(5)	CHARACTER	1	AINFOGMT	FORMAT BYTE
		1... ....		AINFOGMT	FORMAT BIT
		1... ....		AINICALL	INCOMING CALL INDICATOR 0 - ENABLE FOR INCOMING CALLS 1 - DISABLE FOR INCOMING CALLS
		.1.. ....		AINIFREQ	INFORMATION REQUEST INDICATOR 0 - INFO ON LINK CONNECTION NOT REQUESTED 1 - INFO ON LINK CONNECTION REQUESTED
		..11 1111		AINRSV01	RESERVED

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR AINNSHDR				
3	HEX	010216	AINHDRC	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 16-REQUEST CODE
CONSTANT FOR AINFOGMT				
0	BIT	0	AINFOGMT0	FORMAT 0
CONSTANT FOR AINRSV01				
0	BIT	000000	AINRSV1C	RESERVED FIELD



## Activate Link RU (ALKRU)

<b>Function:</b>	ALKRU initiates a procedure at the PU to activate the protocol boundary between a link station in the node (as specified by the link network address parameter in the request) and the link connection attached to it.
<b>RU Header:</b>	X'01020A' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTALKRU	RU FIELDS FOR ACTLINK
0	(0)	CHARACTER	3	ALKNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	ALKNAD	NETWORK ADDRESS OF LINK
5	(5)	BITSTRING	1	ALKIF	INDICATOR FIELD
		1... ....		ALKSADSI	SUBAREA DIAL SUPPORT INDICATOR
		.111 1111		*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ALKRSPRU	RU FIELDS FOR ACTLINK RESPONSE ONLY
0	(0)	CHARACTER	2	*	RESERVED
2	(2)	CHARACTER		ALKRUDTA	CONTROL VECTOR DATA FOR ACTLINK RESPONSE

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR ALKNSHDR				
3	HEX	01020A	ALKHDRC	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 0A-REQUEST CODE

RU

## Allocate Resource RU (ALRRU)

<b>Function:</b>	ALRRU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'0102FFA0' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	22	ISTALRRU	ALLOCATE RESOURCE AMRU
0	(0)	CHARACTER	4	ALRNSHDR	NETWORK SERVICES HEADER
4	(4)	CHARACTER	8	ALRNETID	NETWORK ID
12	(C)	CHARACTER	8	ALRSSCPN	OWNING SSCP NAME
20	(14)	UNSIGNED	1	ALRRSCT	RESOURCE NAME TYPE
21	(15)	UNSIGNED	1	ALRRSCL	RESOURCE NAME LENGTH
22	(16)	CHARACTER	*	ALRRSCRN	RESOURCE NAME

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR RESOURCE NAME				
1	HEX	F3	ALRTYPLU	RESOURCE TYPE = LU
CONSTANT FOR ALRNSHDR FIELD				
4	HEX	0102FFA0	ALRHDR	ALLOCATE RESOURCE AMRU



## Activate Logical Unit RU (ALURU)

<b>Function:</b>	ALURU is sent from an SSCP to an LU to activate a session between the SSCP and the LU and to establish common session parameters.
<b>RU Header:</b>	X'0D' (request code)
<b>RU Type:</b>	SC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	ISTALURU	
0	(0)	CHARACTER	1	ALULUHDR	COMMON HEADER FOR CONFIGURATION SERVICES RU
1	(1)	CHARACTER	1	ALULUTYP	ACTLU TYPE
		1... ..		ALUEAMI	ENHANCED ADDRESS MANAGEMENT INDICATOR 0 - SENDER DOES NOT SUPPORT ENHANCED ADDRESS MANAGEMENT 1 - SENDER SUPPORTS ENHANCED ADDRESS MANAGEMENT
		.1.. ..		ALUSDAI	STATIC/DYNAMIC ADDRESS INDICATOR 0 - SENDER CONSIDERS THE LU ADDRESS TO BE STATIC 1 - SENDER CONSIDERS THE LU ADDRESS TO BE DYNAMIC
		..11 11..		*	RESERVED
		.... ..1		ALUERP	ERP ACTIVATION REQUEST TYPE 10 - ERP (ONLY VALUE DEFINED)
		.... ..1		ALULUCLD	COLD ACTIVATION REQUEST TYPE
2	(2)	CHARACTER	1	ALULUPRF	PROFILE
		1111 ....		ALULUFM	FM PROFILE
		.... 1111		ALULUTS	TS PROFILE
3	(3)	CHARACTER		ALURUDTA	CONTROL VECTOR DATA FOR ACTLU REQUEST

### MAPPING FOR ACTLU RESPONSE (RU MINUS REQUEST CODE FIELD)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	ISTALULR	ACTIVATE LU RESPONSE
0	(0)	CHARACTER	1	ALULRTYP	ACTLU TYPE
		1111 11..		*	RESERVED
		.... ..1		ALRERP	ERP ACTIVATION REQUEST TYPE 10 - ERP (ONLY VALUE DEFINED)
		.... ..1		ALULRCLD	COLD ACTIVATION REQUEST TYPE
1	(1)	CHARACTER	1	ALULRPRF	PROFILE
		1111 ....		ALULRFM	FM PROFILE
		.... 1111		ALULRTS	TS PROFILE
2	(2)	CHARACTER	1	ALULRSV1	RESERVED
3	(3)	CHARACTER	1	ALULRMAX	MAX RU SIZE
		1111 ....		ALULRBAS	BASE
		.... 1111		ALULREXP	EXPONENT
4	(4)	CHARACTER	2	ALULRCAP	LU CAPABILITY
		1... ..		ALULRCHR	CHARACTER
		.1.. ..		ALULRFMT	FORMAT
		..1. ....		ALULRENA	
4	(4)	BITSTRING	1	ALULRSV2	RESERVED
6	(6)	CHARACTER	1	ALULRSV3	RESERVED
7	(7)	CHARACTER	*	ALULRVEC	VECTOR

### Constants

Len	Type	Value	Name	Description
1	HEX	01	ALURCLN	LENGTH OF REQ CODE FIELD - NOT MAPPED BY ISTALULR
CONSTANT FOR ALULRHDR - ACT LU HEADER				
1	HEX	0D	ALULUREQ	
CONSTANT FOR ALULUFM				
0	BIT	0000	ALULUFM0	FM PROFILE 0
0	BIT	0010	ALULUFM2	FM PROFILE 2
0	BIT	0011	ALULUFM3	FM PROFILE 3
0	BIT	0100	ALULUFM4	FM PROFILE 4
0	BIT	0101	ALULUFM5	FM PROFILE 5
0	BIT	1111	ALULUFMF	FM PROFILE 15
CONSTANT FOR ALULUTS				
0	BIT	0001	ALULUTS1	TS PROFILE 1
0	BIT	0010	ALULUTS2	TS PROFILE 2
0	BIT	0011	ALULUTS3	TS PROFILE 3
0	BIT	0100	ALULUTS4	TS PROFILE 4
0	BIT	0101	ALULUTS5	TS PROFILE 5

### Cross Reference

Name	Hex Offset	Hex Value	Level
ALRERP	0	02	3
ALUEAMI	1	80	3
ALUERP	1	02	3
ALULRBAS	3	80	3
ALULRCAP	4		2
ALULRCHR	4	80	3
ALULRCLD	0	01	3
ALULRENA	4	20	3
ALULREXP	3	08	3
ALULRFM	1	80	3
ALULRFMT	4	40	3
ALULRMAX	3		2
ALULRPRF	1		2
ALULRSV1	2		2
ALULRSV2	4		3
ALULRSV3	6		2
ALULRTS	1	08	3
ALULRTYP	0		2
ALULRVEC	7		2
ALULUCLD	1	01	3
ALULUFM	2	80	3
ALULUHDR	0		2
ALULUPRF	2		2
ALULUTS	2	08	3
ALULUTYP	1		2
ALURUDTA	3		2
ALUSDAI	1	40	3
ISTALULR	0		1
ISTALURU	0		1



## Access Method RU (AMRU)

<b>Function:</b>	AMRU is used for VTAM internal intercomponent communication. It contains most of the AMRUs used in VTAM.
<b>RU Header:</b>	The RU header may be one of the following: 4102FF66 - XID FF01 (DFC AMRU) - purge chain element FF01 (NC AMRU) - virtual route inoperative FF01 (SC AMRU) - NOTIFY (drive LOSTERM exit) FF02 - set session address FF03 - set session address with disconnect FF04 - override session address FF05 - purge wait queue FF06 - flush queue
<b>RU Type:</b>	AMRU

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTAMRU	TSC ACCESS METHOD RU
0	(0)	UNSIGNED	1	AMRTYPE	RU TYPE CODE
1	(1)	UNSIGNED	1	AMRREQ	REQUEST CODE
2	(2)	CHARACTER	*	AMRDATA	VARIABLE DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	AMRXIDRU	XID AMRU
0	(0)	CHARACTER	4	AMRXTYPE	XID AMRU TYPE IDENTIFIER
4	(4)	CHARACTER	*	AMRXDATA	ISTXID DATA

VARIABLE DATA FOR NOTIFY REQUEST

2	(2)	STRUCTURE	1	AMRVNOT	
2	(2)	UNSIGNED	1	AMRNCODE	LOSTERM EXIT REASON CODE
3	(3)	CHARACTER	*	AMRNRU	CLEAR OR UNBIND RU (OPTIONAL)

VARIABLE DATA FOR SSA OR OSA REQUEST

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2	(2)	STRUCTURE	6	AMRVSSA	
2	(2)	CHARACTER	6	AMRSSANA	NETWORK ADDRESS OF APPLICATION
2	(2)	CHARACTER	4	*	SUBAREA ADDRESS OF LU
6	(6)	CHARACTER	2	*	ELEMENT ADDRESS OF LU

VARIABLE DATA FOR PURGE CHAIN ELEMENT REQUEST

2	(2)	STRUCTURE	2	AMRVPELE	
2	(2)	UNSIGNED	2	AMRSEQ	CHAIN ELEMENT SEQUENCE NUMBER

VARIABLE DATA FOR FLUSH REQUEST AND RESPONSE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
2	(2)	STRUCTURE	3	AMRVFLSH	
2	(2)	UNSIGNED	1	AMRFLSHT	FLUSH TYPE CODE
3	(3)	UNSIGNED	2	AMRFLSHI	FLUSH IDENTIFICATION AREA

VARIABLE DATA FOR VIRTUAL ROUTE INOPERATIVE

2	(2)	STRUCTURE	13	AMRVVRNO	
2	(2)	UNSIGNED	1	AMRVRTYP	INOPERATIVE TYPE CODE

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
3	(3)	UNSIGNED	1	AMRVRVRN	VIRTUAL ROUTE NUMBER	
4	(4)	UNSIGNED	1	AMRVRTPN	TRANSMISSION PRIORITY INDEX	
5	(5)	UNSIGNED	4	AMRVRNOS	ORIGIN SUBAREA	
9	(9)	UNSIGNED	4	AMRVRNDS	DESTINATION SUBAREA	
13	(D)	SIGNED	2	AMVRRACT	VIRTUAL ROUTE ACTIVATION NUMBER	

### Constants

Len	Type	Value	Name	Description
VALUES FOR FLUSH TYPE CODE (AMRFLSHT)				
4	DECIMAL	0	AMRFLSHR	FLUSH DUE TO REQUEST DACTVR
4	DECIMAL	1	AMRFLSHD	FLUSH DUE TO DACTVR
VALUES FOR RU TYPE (AMRRTYPE)				
1	DECIMAL	255	AMRTYP	
VALUES FOR RU TYPE (AMRXTYPE) FOR FM DATA REQUESTS				
4	HEX	4102FF66	AMRXTYP	XID AMRU TYPE
VALUES FOR REQUEST CODE (AMRREQ) - SESSION CONTROL REQUESTS				
1	DECIMAL	1	AMRNOTIF	NOTIFY
1	DECIMAL	2	AMRSSA	SET SESSION ADDRESS
1	DECIMAL	3	AMRSSAD	SSA WITH DISCONNECT
1	DECIMAL	4	AMROSA	OVERRIDE SESS ADDR
1	DECIMAL	5	AMRPWAIT	PURGE WAIT QUEUE
1	DECIMAL	6	AMRFLUSH	FLUSH QUEUE - WAIT FOR ALL REQUESTS AND RESPONSES TO FLOW ON ASSOCIATED QUEUES
VALUES FOR REQUEST CODE (AMRREQ) - DATA FLOW CONTROL REQUESTS				
1	DECIMAL	1	AMRPELE	PURGE CHAIN ELEMENT
VALUES FOR REQUEST CODE (AMRREQ) - NETWORK CONTROL REQUESTS				
4	DECIMAL	1	AMRVRNOP	VIRTUAL ROUTE INOPERATIVE
VALUES FOR INOPERATIVE TYPE CODE (AMRVRTYP)				
4	DECIMAL	1	AMRVRTYO	INOPERATIVE DUE TO I/O FAILURE
4	DECIMAL	2	AMRVRTYD	INOPERATIVE DUE TO DACTVR
4	DECIMAL	3	AMRVRTYR	INOPERATIVE DUE TO FAILURE OF VR PAB - RAS RECOVERY NOTIFICATION SHOULD BE PERFORMED
4	DECIMAL	4	AMRVRTYM	INOPERATIVE DUE TO FAILURE OF VR PAB - RAS RECOVERY NOTIFICATION FOR A MIGRATION VR SHOULD BE PERFORMED



### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
AMRDATA	2		2	AMRVRVRN	3		2
AMRFLSHI	3		2	AMRVSSA	2		1
AMRFLSHT	2		2	AMRVVRNO	2		1
AMRNCODE	2		2	AMRXDATA	4		2
AMRNRU	3		2	AMRXIDRU	0		1
AMRPSEQ	2		2	AMRXTYPE	0		2
AMRREQ	1		2	ISTAMRU	0		1
AMRSSANA	2		2				
AMRTYPE	0		2				
AMRVFLSH	2		1				
AMRVNOT	2		1				
AMRVPELE	2		1				
AMVRRACT	D		2				
AMRVRNDS	9		2				
AMRVRNOS	5		2				
AMRVRTPN	4		2				
AMRVRTYP	2		2				

## Assign Network Address RU (ANARU)

<b>Function:</b>	ANARU updates the path control routing algorithm in the PU type 4 or 5 node, such that PIUs with the specified LU network addresses (one or more) will be routed to the specified PU type 1 or 2 node.
<b>RU Header:</b>	X'010219' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	9	ISTANARU	
0	(0)	CHARACTER	3	ANAHDR	NETWORK SERVICES HEADER
3	(3)	UNSIGNED	2	ANAPUNA	PHYSICAL UNIT NETWORK ADDRESS
5	(5)	UNSIGNED	1	ANANUMBR	NUMBER OF NETWORK ADDRESSES TO BE ASSIGNED
6	(6)	CHARACTER	1	ANATYPE	ASSIGN NETWORK ADDRESS TYPE
7	(7)	UNSIGNED	2	ANANETA	NETWORK ADDRESS ASSOCIATED WITH FIRST ASSIGN REQUEST
9	(9)	CHARACTER	*	ANANEXT	NEXT NETWORK ADDRESS FIELD

MAPPING FOR NEXT NETWORK ADDRESS TO BE ASSIGNED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ANAADDR	
0	(0)	UNSIGNED	2	ANANXTNA	NEXT NETWORK ADDRESS TO BE ASSIGNED

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR ANAHDR				
3	HEX	010219	ANAHDR	ASSIGN NETWORK ADDRESS
CONSTANT FOR ANATYPE				
1	HEX	80	ANANCONT	NON-CONTIGUOUS

### Cross Reference

Name	Hex Offset	Hex Value	Level
ANAADDR	0		1
ANAHDR	0		2
ANANETA	7		2
ANANEXT	9		2
ANANUMBR	5		2
ANANXTNA	0		2
ANAPUNA	3		2
ANATYPE	6		2
ISTANARU	0		1



## Automatic Network Shutdown Complete RU (ANCRU)

<b>Function:</b>	ANCRU provides the mapping for the Automatic Network Shutdown Complete RU.
<b>RU Header:</b>	X'07' (request code)
<b>RU Type:</b>	NC

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	ISTANCRU	MAP FOR AUTO SHUTDOWN COMPLETE RU	
0	(0)	CHARACTER	1	ANCHDR	NETWORK CONTROL HEADER	
1	(1)	CHARACTER	1	ANCRESN	REASON BYTE	

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR ANCHDR - AUTO SHUTDOWN COMPLETE				
1	HEX	07	ANCHDRC	EXPEDITED, NETWORK CONTROL ANSC
CONSTANTS FOR ANCRESN				
1	HEX	01	ANCRSN01	OPERATOR INITIATED
1	HEX	02	ANCRSN02	UNRECOVERABLE TIMEOUT
1	HEX	03	ANCRSN03	ACTPU (ERP) RECEIVED WHILE SSCP-PU SESSION ACTIVE
1	HEX	04	ANCRSN04	DISC RECEIVED WHILE SSCP-PU SESSION ACTIVE
1	HEX	05	ANCRSN05	SNRM (SDLC) RECEIVED WHILE SSCP-PU SESSION ACTIVE
1	HEX	06	ANCRSN06	UNRECOVERABLE LINK ERROR



## Add Network Resource RU (ANRRU)

<b>Function:</b>	ANRRU provides a mapping for the SNA Add Network Resource RU.
<b>RU Header:</b>	X'410240' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	7	ISTANRRU	ADD NETWORK RESOURCE	
0	(0)	CHARACTER	3	ANRNSHDR	NETWORK SERVICES HEADER	
3	(3)	CHARACTER	1	ANRTYPE	RESOURCE TYPE	
4	(4)	CHARACTER	3	ANRCPBL	CAPABILITY	
4	(4)	BITSTRING	1	ANRGFC	GENERAL FUNCTION CAPABILITY	
		1... ..		ANRSPEC	1 = SPECIFIC CAPABILITY	
		.1... ..		ANRPLU	PLU CAPABLE	
		..1... ..		ANRSLU	SLU CAPABLE	
		...1... ..		ANRMLULU	MULTIPLE LU-LU SESSIONS	
		.... 1... ..		ANRPARS	PARALLEL SESSION CAPABLE	
		.... .11. ..		ANRRSV01	RESERVED - NOT AVAILABLE	
		.... ...1 ..		ANRCDLU	CROSS DOMAIN LU	
5	(5)	BITSTRING	1	ANRDSC	DEFINITION OR SERVICE CAPABILITY	
		1... ..		ANRUSS	USS CAPABLE	
		.1... ..		ANRFSS	FSS CAPABLE	
		..1... ..		ANRADV	ACTLU DEFINITION VECTOR	
		...1... ..		ANRNEGB	NEGOTIABLE BIND	
		.... 1... ..		ANRRSV02	RESERVED - NOT AVAILABLE	
		.... .1.. ..		ANRSGNON	LU SUPPORTS SIGNON/SIGNOFF	
		.... ..1. ..		ANRMODIF	0 = SIMPLE SESSION SERVICES LUS 1 = SEE MODIFIER	
		.... ...1 ..		ANRRSV03	RESERVED - NOT AVAILABLE	
6	(6)	CHARACTER	1	ANRLLSC	LU-LU SESSION CAPABILITY	
7	(7)	CHARACTER	*	ANRADDR	RESOURCE ADDRESS	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	3	ANRLU	RU FORMAT FOR TYPE = LU	
0	(0)	CHARACTER	2	ANRNALU	NETWORK ADDRESS OF THE LU	
0	(0)	SIGNED	2	ANRELEM	LU ELEMENT ADDRESS FOR ENA CAPABLE NODES	
2	(2)	CHARACTER	1	ANRCMFF	CAPABILITY MODIFIER FIELD FORMAT	
3	(3)	CHARACTER	*	ANRCM	CAPABILITY MODIFIER	
0	(0)	STRUCTURE	4	ISTANRRS	ADD NETWORK RESOURCE RESP	
0	(0)	CHARACTER	1	ANRSTYP	RESOURCE TYPE	
1	(1)	CHARACTER	3	ANRSRS1	RESERVED - NOT AVAILABLE	
4	(4)	CHARACTER	*	ANRSADDR	RESOURCE ADDRESS	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	ANRSTLU	RESP FORMAT FOR LU	
0	(0)	CHARACTER	2	ANRSNALU	LU NETWORK ADDRESS	
0	(0)	SIGNED	2	ANRSELEM	LU ELEMENT ADDRESS FOR ENA CAPABLE NODES	

## Constants

Len	Type	Value	Name	Description
CONSTANTS FOR ANRTYPE				
1	DECIMAL	1	ANRCLU	CLUSTER LU
1	DECIMAL	2	ANRSBLU	SUBAREA LU
1	DECIMAL	3	ANRSBLNK	SUBAREA LINK
CONSTANTS FOR ANRLLSC				
1	DECIMAL	0	ANRLLSC0	LU TYPE 0 - UNARCHITECTED FM PROTOCOL
1	DECIMAL	1	ANRLLSC1	LU TYPE 1 - SCS (STANDARD CHARACTER SET) DATA STREAM
1	DECIMAL	2	ANRLLSC2	LU TYPE 2 - KEYBOARD OR DISPLAY 3270 DATA STREAM
1	DECIMAL	3	ANRLLSC3	LU TYPE 3 - PRINTER 3270 DATA STREAM
1	DECIMAL	4	ANRLLSC4	LU TYPE 4 - OPD (OFFICE PRODUCTS DIVISION) TERMINALS
1	DECIMAL	5	ANRLLSC5	LU TYPE 1,2, AND 3
1	DECIMAL	6	ANRLLSC6	LU TYPE 6 - ISC (INTER-SYSTEM COMMUNICATIONS) APPL/APPL
1	DECIMAL	7	ANRLLSC7	LU TYPE 1,2,3, AND 4
1	DECIMAL	8	ANRLLSC8	LU TYPE 1,2,3, AND 6
1	DECIMAL	9	ANRLLSC9	LU TYPE 1,2,3,4, AND 6
1	DECIMAL	255	ANRLLSCM	SEE MODIFIER FOR FURTHER IDENTIFICATION
CONSTANT FOR ANRNSHDR				
3	HEX	410240	ANRHDR	

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ANRADDR	7		2	ISTANRRU	0		1
ANRADV	5	20	4				
ANRCDLU	4	01	4				
ANRCM	3		2				
ANRCMFF	2		2				
ANRCPBL	4		2				
ANRDSC	5		3				
ANRELEM	0		3				
ANRFSS	5	40	4				
ANRGFC	4		3				
ANRLLSC	6		3				
ANRLU	0		1				
ANRMLULU	4	10	4				
ANRMODIF	5	02	4				
ANRNALU	0		2				
ANRNEGB	5	10	4				
ANRNSHDR	0		2				
ANRPARS	4	08	4				
ANRPLU	4	40	4				
ANRRSV01	4	04	4				
ANRRSV02	5	08	4				
ANRRSV03	5	01	4				
ANRSADDR	4		2				
ANRSELEM	0		3				
ANRSGNON	5	04	4				
ANRSLU	4	20	4				
ANRSNALU	0		2				
ANRSPEC	4	80	4				
ANRSRS1	1		2				
ANRSTLU	0		1				
ANRSTYP	0		2				
ANRTYPE	3		2				
ANRUSS	5	80	4				
ISTANRRS	0		1				



## Activate Physical Unit Response RU (APRRU)

**Function:** APRRU provides a mapping for ACTPU response data.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	9	ISTAPRRU	ACTIVATE RESPONSE DATA RU
0	(0)	BITSTRING	1	APRFLAGS	
		11.. ....		APRSRV1	RESERVED - NOT AVAILABLE
		..11 ....		APRFMT	RU FORMAT OF RESPONSE
		.... 1111		APRTYPE	RU TYPE OF ACTIVATION
1	(1)	CHARACTER	8	APRCID	CONTENTS ID--LOAD MODULE NAME
9	(9)	CHARACTER	*	APRVECD	VECTOR CONTENTS

ACTPU RESPONSE FORMAT 2 EXTRA FIELD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
9	(9)	STRUCTURE	8	APRF2	FORMAT 2 ACTPU RESPONSE EXTRA FIELD
9	(9)	CHARACTER	8	APRLMNAM	LOAD MODULE NAME REQUESTED
17	(11)	CHARACTER	*	APRVECD2	VECTOR CONTENTS APRVEC

ACTPU RESPONSE VECTOR '07' FOR FORMAT 1 AND FORMAT 2

0	(0)	STRUCTURE	10	APRVEC	ACTPU RESPONSE VECTOR
0	(0)	CHARACTER	2	APRSRV2	RESERVED - NOT AVAILABLE
2	(2)	UNSIGNED	1	APRVECKY	VECTOR KEY
3	(3)	BITSTRING	1	APRFMP	
		1111 11..		APRSRV4	RESERVED - NOT AVAILABLE
		.... ..1.		APRLDCAP	PU LOAD CAPABILITY 1 = ADJACENT NODE CAN LOAD THE PU_T2 0 = ADJACENT NODE IS UNABLE TO LOAD THE PU_T2
		.... ...1		APRFMDS	FMD RU INDICATOR SUPPORT BIT 1 = FMD RUS SUPPORTED 0 = FMD RUS NOT SUPPORTED
4	(4)	CHARACTER	6	APRSRV3	RESERVED - NOT AVAILABLE

ACTPU RESPONSE VECTORS FOR FORMAT 3

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	APRVECS	OVERLAY FOR VECTORS FOUND IN FORMAT 3
0	(0)	CHARACTER	1	APRKEY	VECTOR KEY
1	(1)	UNSIGNED	1	APRLNG	LENGTH OF VARY DATA
2	(2)	CHARACTER	*	APRVARYD	VARIABLE DATA DEPENDS ON VECTOR TYPE

RU

## Constants

Len	Type	Value	Name	Description
RESPONSE VECTOR KEYS				
1	HEX	07	APRVEC7	VECTOR TYPE 7
1	HEX	09	APRVEC9	VECTOR TYPE 9
1	HEX	FE	APRVECFE	VECTOR TYPE FE
TYPE OF RESPONSE CONSTANTS FOR APRTYPE				
0	BIT	0001	APRCOLD	COLD RESPONSE, IPL NOT REQUIRED
0	BIT	0010	APRERP	ERP RESPONSE
0	BIT	0011	APRCDIPL	COLD RESPONSE, IPL REQUIRED
FORMAT CONSTANTS FOR APRFMT				
0	BIT	00	APRFMT0	RU FORMAT 0 (PU.T4, PU.T5)
0	BIT	01	APRFMT1	RU FORMAT 1 (PU.T1, PU.T2)
0	BIT	10	APRFMT2	RU FORMAT 2 (PU.T2)
0	BIT	11	APRFMT3	RU FORMAT 3 (PU.T4, PU.T5)
ZERO CONSTANTS TO TEST RESERVED FIELDS				
0	BIT	00	APRZBIT2	TO TEST APRSRV1
0	BIT	000000	APRZBIT6	TO TEST APRSRV4

## Cross Reference

Name	Hex Offset	Hex Value	Level
APRCID	1		2
APRFLAGS	0		2
APRFMDS	3	01	3
APRFMP	3		2
APRFMT	0	20	3
APRF2	9		1
APRKEY	0		2
APRLDCAP	3	02	3
APRLMNAM	9		2
APRLNG	1		2
APRSRV1	0	80	3
APRSRV2	0		2
APRSRV3	4		2
APRSRV4	3	80	3
APRTYPE	0	08	3
APRVARYD	2		2
APRVEC	0		1
APRVECD	9		2
APRVECD2	11		2
APRVECKY	2		2
APRVECS	0		1
ISTAPRRU	0		1



## Activate Physical Unit Request RU (APURU)

<b>Function:</b>	APURU is sent by the SSCP to activate a session with the PU, and to obtain certain information about the PU.
<b>RU Header:</b>	X'11' (request code)
<b>RU Type:</b>	SC

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	9	ISTAPURU	ACTIVATE PU REQUEST RU	
0	(0)	CHARACTER	1	APUREQCD	ACTPU REQUEST CODE	
1	(1)	CHARACTER	1	APUFMTP	FORMAT AND TYPE	
		1111 ....		APUFORM	FORMAT 0 OR 3	
		.... 1111		APUTYPE	TYPE 1 OR 2	
2	(2)	CHARACTER	1	APULVL	LEVEL OF CONTROL	
		1111 ....		APUFMPRO	FM PROFILE	
		.... 1111		APUTSPRO	TS PROFILE	
3	(3)	CHARACTER	6	APUSCPID	ID OF SSCP ISSUING ACTPU	
3	(3)	CHARACTER	1	APUSCPFT	CHARACTERISTICS	
		1111 ....		APUSCPFM	FORMAT	
		.... 1111		APUPUTYP	TYPE OF PU CONTAINING SSCP	
4	(4)	CHARACTER	5	APUSCPXT	INSTALLATION AND IMPLEMENTATION DEPENDENT INFORMATION	
9	(9)	CHARACTER	*	APUVECT	VECTOR CONTENTS	

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR REQUEST CODE FIELD (APUREQCD)				
1	HEX	11	APURCD	ACTPU REQUEST CODE
VALUES FOR FORMAT FIELD (APUFORM)				
0	BIT	0000	APUFORM0	FORMAT ZERO
0	BIT	0011	APUFORM3	FORMAT THREE--CONTROL VECTORS IN BYTES 9-N (SNA 4.2 PU.T4/T5)
VALUES FOR TYPE FIELD (APUTYPE)				
0	BIT	0001	APUCOLD	TYPE--COLD
0	BIT	0010	APUERP	TYPE--ERP
VALUES FOR FM PROFILE (APUFMPRO)				
0	BIT	0000	APUFMP0	FM PROFILE ZERO
0	BIT	0101	APUFMP5	FM PROFILE FIVE
VALUES FOR TS PROFILE (APUTSPRO)				
0	BIT	0001	APUTSP1	TS PROFILE ONE
0	BIT	0101	APUTSP5	TS PROFILE FIVE

RU

## Cross Reference

Name	Hex Offset	Hex Value	Level
APUFMPRO	2	80	3
APUFMTP	1		2
APUFORM	1	80	3
APULVL	2		2
APUPUTYP	3	08	4
APUREQCD	0		2
APUSCPFM	3	80	4
APUSCPFT	3		3
APUSCPID	3		2
APUSCPXT	4		3
APUTSPRO	2	08	3
APUTYPE	1	08	3
APUVECT	9		2
ISTAPURU	0		1



## Mapping for the Address Request Complete AMRU (ARCA)

<b>Function:</b>	ARCA provides a mapping for building an Address Request Complete AMRU to inform the address requestor that the request is complete. If the RNAA response is negative or a failure occurred in processing the response, an extended sense data control vector (CV35) is included and the base portion of the Address Request Complete AMRU is invalid.
<b>RU Header:</b>	X'8106FF19' (NS header)
<b>RU Type:</b>	AMRU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	44	ISTARCA		
0	(0)	CHARACTER	4	ARCHDR	Network Services header	
4	(4)	UNSIGNED	1	ARCORG	Indicator of what component invoked Address Management	
5	(5)	BITSTRING	1	ARCFLAGS	Flag bytes	
		1... ....		ARCLUTYP	ARCSLU('0'B) - SLU address ARCPLU('1'B) - PLU address	
		.1.. ....		ARCREQTP	ARCSLU('0'B) - SLU address ARCPLU('1'B) - PLU address	
		..1. ....		ARCENATP	ARCPENA('0'B)- pre-ENA address ARCENA('1'B)- ENA address	
		...1 ....		ARCPSCAP	ARCNPAR('0'B)- not parallel session capable. ARCPARR('1'B)- parallel session capable.	
		.... 1... .... .111		ARCRNIP *	1 - RNAA in progress available	
6	(6)	CHARACTER	6	ARCADDR	Address returned in response	
6	(6)	CHARACTER	4	ARCSUBA	LU subarea address	
10	(A)	CHARACTER	2	ARCELEM	LU element address	
12	(C)	CHARACTER	8	ARCORREL	User correlator used to correlate the address returned with the session waiting.	
20	(14)	CHARACTER	8	ARCLUNAM	Name of the requesting LU	
28	(1C)	CHARACTER	8	ARCSLUNM	Name of session partner (SLU)	
36	(24)	CHARACTER	8	ARCSLUNT	Netid of session partner(SLU)	
44	(2C)	CHARACTER	*	ARCESDCV	Vector basing location	

RU

### Constants

Len	Type	Value	Name	Description
Constants used for ARCORG				
1	DECIMAL	1	ARCCSREQ	Configuration Services request
1	DECIMAL	2	ARCSSREQ	Session Services request
Constants used for ARCENATP				
0	BIT	0	ARCPENA	Pre-ENA address required
0	BIT	1	ARCENA	ENA address preferred
Constants used for ARCPSCAP				
0	BIT	0	ARCNPAR	Not parallel session capable
0	BIT	1	ARCPARR	Parallel session capable
Constants used for ARCREQTP, ARCLUTYP				
0	BIT	0	ARCSLU	SLU address
0	BIT	1	ARCPLU	PLU address
Constants used for ARCHDR				
4	HEX	8106FF19	ARCHDR	



## Cross Reference

Name	Hex Offset	Hex Value	Level
ARCADDR	6		2
ARCELEM	A		3
ARCENATP	5	20	3
ARCESDCV	2C		2
ARCFLAGS	5		2
ARCHDR	0		2
ARCLUNAM	14		2
ARCLUTYP	5	80	3
ARCORG	4		2
ARCORREL	C		2
ARCPSCAP	5	10	3
ARCREQTP	5	40	3
ARCRNIP	5	08	3
ARCSLUNM	1C		2
ARCSLUNT	24		2
ARCSUBA	6		3
ISTARCA	0		1

## Activate or Deactivate Trace RU (ATTRU)

<b>Function:</b>	ATTRU requests the NCP to activate or deactivate a specific trace.
<b>RU Header:</b>	Activate - X'010302' (NS header) Deactivate - X'010303' (NS header)
<b>RU Type:</b>	FMD

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	6	ISTATTRU	ACT/DEACT TRACE RU	
0	(0)	CHARACTER	3	ATRHDR	NS HEADER	
3	(3)	CHARACTER	2	ATRNA	NETWORK ADDRESS OF RESOURCE (FOR A NETCNTR TYPE TRACE, THIS FIELD IS RESERVED)	
3	(3)	CHARACTER	2	ATRELEM	ELEMENT ADDRESS IF RESOURCE IS ENA CAPABLE	
5	(5)	CHARACTER	1	ATRTYPE	TRACE TYPE	
6	(6)	CHARACTER	*	ATREXT	EXTENSION FIELD FOR ACTTRACE RU	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	1	ATRACTEX	EXTENSION FOR ACTTRACE RU	
0	(0)	CHARACTER	1	ATRINT	TIME INTERVAL BETWEEN RECTRD RUS	
0	(0)	BITSTRING	1	ATROPT	OPTION BYTE	
1	(1)	CHARACTER	*	ATREXT2	SECOND EXTENSION FIELD	
0	(0)	STRUCTURE	2	ATRTRAEX	SECOND EXTENSION FOR TRACE RU	
0	(0)	CHARACTER	2	ATRSPECH	SPECIFIC HEIRARCHY	
0	(0)	CHARACTER	2	ATRHELEM	ELEMENT ADDRESS IF THE NODE IS ENA CAPABLE	
0	(0)	UNSIGNED	1	ATRCOUNT	COUNT OF CHARACTERS TO BE TRACED OR FIRST BYTE OF SPEC HEIR	
1	(1)	UNSIGNED	1	*	SECOND BYTE OF SPEC HEIR	
2	(2)	CHARACTER	*	ATREXT3	NETCNTR EXTENTION FIELD	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	16	ATRTRBEX	EXTENTION FOR ACT/DEACT NETCNTR TRACE	
0	(0)	CHARACTER	8	ATRLNNM	LINE NAME	
8	(8)	CHARACTER	8	ATRPUR	NAME OF PU TO BE TRACED	
0	(0)	STRUCTURE	1	ATRTPBT	TYPE BYTE MAPPING	
		1... ..		ATRTG	1 = PROCESS TG TRACE	
		.1.. ..		ATRGPT	1 = PROCESS GPT TRACE	
		..11 ..		*	RESERVED	
		.... 1..		ATRSIT	1 = PROCESS SIT TRACE	
		.... .1..		*	RESERVED	
		.... ..1.		ATRALL	1 = TRACE ALL FRAMES - (NETCNTR TRACE ONLY)	
		.... ...1		ATRLINE	1 = PROCESS LINE TRACE	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	1	ATROPTON	OPTION BYTE MAPPING	
		1111 111.		*	RESERVED	
		.... ...1		ATRSPEC	SPECIFIC HIER OPTION IF ON, SCOPE = ALL OPTION IF OFF	

## Constants

Len	Type	Value	Name	Description
CONSTANTS FOR NS HEADER (ATRHDR)				
3	HEX	010302	ATRACTTR	RU IS ACTIVATE TRACE
3	HEX	010303	ATRDACR	RU IS DEACTIVATE TRACE

## Cross Reference

Name	Hex Offset	Hex Value	Level
ATRACTEX	0		1
ATRALL	0	02	2
ATRCOUNT	0		4
ATRELEM	3		3
ATREXT	6		2
ATREXT2	1		2
ATREXT3	2		2
ATRGPT	0	40	2
ATRHDR	0		2
ATRHELEM	0		3
ATRLINE	0	01	2
ATRLNNM	0		2
ATRNAS	3		2
ATROPT	0		3
ATROPTON	0		1
ATRPUS	8		2
ATRSIT	0	08	2
ATRSPEC	0	01	2
ATRSPECH	0		2
ATRTG	0	80	2
ATRTINT	0		2
ATRTRAEX	0		1
ATRTRBEX	0		1
ATRTYPBT	0		1
ATRTYPE	5		2
ISTATRRU	0		1



## Boundary Function Control Initiate RU (BCIN)

<b>Function:</b>	BCIN provides a mapping for the Boundary Function Control Initiate RU.
<b>RU Header:</b>	X'812601' (NS header)
<b>RU Type:</b>	FMD
<b>Included Blocks:</b>	BIND (BCIBIND)

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTBCIN	
0	(0)	CHARACTER	3	BCIHDR	FM DATA Request code
3	(3)	CHARACTER	2	BCIELEMA	Element Address of the adjacent Link Station
5	(5)	BITSTRING	1	*	Format byte
		1111 ....		BCIFORM	Format value BCIFMT0 - Format 0
		.... 1111		*	Reserved
6	(6)	BITSTRING	1	*	Flags
		1... ....		*	Reserved
		.1.. ....		*	RESERVED
		...11 ....		*	Reserved
		.... 11..		BCINMSUB	Name substitution for BIND NS Name fields: BCINOSUB(00)- No name sub done by receiver. BCIREMID(01)-No sub done, but Net Ids are present and are to removed from BIND. BCINETNM(10)-No sub done, but Network Name CV ('0E') for the PLU is included in the BIND. BCISUB (11)-Name sub done by receiver, the names in the Network Name CVs('0E') or the Names Substitution CV ('16') are used in the BIND NS Name fields.
		.... ..1.		BCIXBIND	0= Extended BIND not sent to SLU 1= Extended BIND sent to SLU
		.... ...1		*	Reserved
7	(7)	CHARACTER	5	*	Reserved
12	(C)	UNSIGNED	2	BCIBLN	BIND Image length
14	(E)	CHARACTER	*	BCIBIND	BIND Image

Network Qualified SLU Name Mapping

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	BCISLUF	SLU Name
0	(0)	CHARACTER	1	BCISLUT	SLU Type: BCILUTF3 ('F3'X)- LU type
1	(1)	UNSIGNED	1	BCISLUL	SLU Name length
2	(2)	CHARACTER	*	BCISLUN	SLU Name

**Constants**

Len	Type	Value	Name	Description
VALUE FOR BCIHDR				
3	HEX	812601	BCIHDRC	BCINIT Request code
VALUES FOR BCIFORM				
0	BIT	0000	BCIFMT0	Format 0
VALUES FOR BCINMSUB				
0	BIT	00	BCINOSUB	No Substitution
0	BIT	01	BCIREMID	Remove Netids
0	BIT	10	BCINETNM	Include Net name CV '0E'
0	BIT	11	BCISUB	Do name substitution
VALUES FOR BCISLUT				
1	HEX	F3	BCILUTF3	LU type

**Cross Reference**

Name	Hex Offset	Hex Value	Level
BCIBIND	E		2
BCIBLN	C		2
BCIELEMA	3		2
BCIFORM	5	80	3
BCIHDR	0		2
BCINMSUB	6	08	3
BCISLUF	0		1
BCISLUL	1		2
BCISLUN	2		2
BCISLUT	0		2
BCIXBIND	6	02	3
ISTBCIN	0		1



## Bind Failure RU (BFA)

<b>Function:</b>	The PLU sends the BFA, with no-response requested, to notify the SSCP that the attempt to activate the session between the specified LUs failed.
<b>RU Header:</b>	X'810685' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	11	ISTBFA	
0	(0)	CHARACTER	8	BFARU	SESSION SERVICES BIND FAILURE MAPPING
0	(0)	CHARACTER	3	BFAHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	BFASST	LOGICAL OR PHYSICAL RU TYPE
1	(1)	CHARACTER	1	BFACAT	NS SUBTYPE-CDRM INDICATOR
2	(2)	CHARACTER	1	BFAREQCD	REQUEST CODE
3	(3)	CHARACTER	4	BFASENSE	SENSE DATA FROM EXCEPTION RESPONSE
7	(7)	CHARACTER	1	BFAREAS	REASON
		1... ..		BFAPLUE	ERROR AT PLU
		.1.. ..		BFASLUE	ERROR AT SLU
		..1. ..		BFAPLUR	REJECT AT PLU
		...1 ..		BFASLUR	REJECT AT SLU
		.... 1111		BFARSV1	NOT USED -NOT AVAILABLE
8	(8)	CHARACTER	1	BFAKEYTP	SESSION KEY TYPE
9	(9)	CHARACTER	2	BFASESKY	SESSION KEY
9	(9)	CHARACTER	1	BFALU1TP	RESOURCE TYPE
10	(A)	UNSIGNED	1	BFALU1LN	LU1 LENGTH
11	(B)	CHARACTER	*	BFALU1NM	LU1 NAME

### MAPPING FOR LU2 NETWORK NAME OF PAIR

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	BFALU2	
0	(0)	CHARACTER	1	BFALU2TP	RESOURCE TYPE
1	(1)	UNSIGNED	1	BFALU2LN	LU2 LENGTH
2	(2)	CHARACTER	*	BFALU2NM	LU2 NAME
9	(9)	STRUCTURE	8	BFASKEY5	
9	(9)	CHARACTER	8	BFAPCID	PCID SESSION KEY

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
9	(9)	STRUCTURE	4	BFASKEY	
9	(9)	CHARACTER	2	BFAPLUNA	PLU NETWORK ADDRESS
11	(B)	CHARACTER	2	BFASLUNA	SLU NETWORK ADDRESS

RU

## Constants

Len	Type	Value	Name	Description
CONSTANT FOR BFAHDR - BIND FAILURE				
3	HEX	810685	BFAHDRC	81 - NETWORK SERVICES, LOGICAL SERVICES 06 - SESSION SERVICES 85 - BIND FAILURE
CONSTANT FOR BFAKEYTP				
1	HEX	05	BFAKEY5	PCID SESSION KEY
1	HEX	06	BFAKEY6	PAIR OF NETWORK NAMES
1	HEX	07	BFAKEY7	PAIRED NETWORK ADDRESS
CONSTANT FOR BFALU1TP AND BFALU2TP				
1	HEX	F3	BFAF3	LOGICAL UNIT

## Cross Reference

Name	Hex Offset	Hex Value	Level
BFACAT	1		4
BFAHDR	0		3
BFAKEYTP	8		2
BFALU1LN	A		3
BFALU1NM	B		3
BFALU1TP	9		3
BFALU2	0		1
BFALU2LN	1		2
BFALU2NM	2		2
BFALU2TP	0		2
BFAPCID	9		2
BFAPLUE	7	80	4
BFAPLUNA	9		2
BFAPLUR	7	20	4
BFAREAS	7		3
BFAREQCD	2		4
BFARSV1	7	08	4
BFARU	0		2
BFASENSE	3		3
BFASESKY	9		2
BFASKEY	9		1
BFASKEY5	9		1
BFASLUE	7	40	4
BFASLUNA	B		2
BFASLUR	7	10	4
BFASST	0		4
ISTBFA	0		1



## Boundary Function Cleanup RU (BFCLN)

<b>Function:</b>	BFCLN provides a mapping for the Boundary Function Cleanup RU.
<b>RU Header:</b>	X'812629' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTBFCLN	
0	(0)	CHARACTER	3	BFCHDR	Common header for Network Services RUs
0	(0)	CHARACTER	1	BFCSSST	Logical or Physical ru type
1	(1)	CHARACTER	1	BFCCAT	NS Subtype-CDRM indicator
2	(2)	CHARACTER	1	BFCREQCD	Request code
3	(3)	CHARACTER	2	BFCELMTA	Element address of the subject LU or adjacent link station
5	(5)	CHARACTER	1	*	
		1111 ....		BFCFMT	Format value
		.... 1111		*	RESERVED
6	(6)	CHARACTER	2	*	RESERVED
8	(8)	CHARACTER	*	BFCSKEY	Session Key

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR BFCHDR - BF CLEANUP				
3	HEX	812629	BFCHDRC	

### Cross Reference

Name	Hex Offset	Hex Value	Level
BFCCAT	1		3
BFCELMTA	3		2
BFCFMT	5	80	3
BFCHDR	0		2
BFCREQCD	2		3
BFCSKEY	8		2
BFCSSST	0		3
ISTBFCLN	0		1

RU



## Boundary Function Session Information RU (BFINF)

<b>Function:</b>	BFINF provides a mapping for the Boundary Function Session Information RU.
<b>RU Header:</b>	X'81268C' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	ISTBFINF	
0	(0)	CHARACTER	3	BFIHDR	FM DATA REQUEST CODE
3	(3)	UNSIGNED	2	BFIELEM	ELEMENT ADDRESS OF THE ADJACENT LINK STATION
5	(5)	CHARACTER	1	BFIFRMT	FORMAT BYTE
		1111 ....		BFIFORM	FORMAT VALUE X'0' - FORMAT 0
		.... 1111		*	RESERVED
6	(6)	CHARACTER	1	BFITOST	TAKEOVER STATUS
		1... ....		BFIALSTO	ADJACENT LINK STATION (ALS) TAKEOVER COMPLETE
		.1.. ....		BFILUTS	LU TAKEOVER COMPLETE
		..1. ....		BFIALUI	AUTHORIZED LU INDICATOR 0 - LU REQUIRES SYS-DEF TO RECEIVE NETWORK SERVICES 1 - LU DOES NOT REQUIRE SYS-DEF TO RECEIVE NETWORK SERVICES
		...1 ....		BFISDAI	STATIC/DYNAMIC ADDRESS INDICATOR 0 - SENDER CONSIDERS THE LU ADDRESS TO BE STATIC 1 - SENDER CONSIDERS THE LU ADDRESS TO BE DYNAMIC
		.... 1...		BFIURSL	STATIC LU ADDRESS STATUS 0 - ADDRESSES FOR UNREPORTED STATIC LUS MAY HAVE CHANGED FROM THOSE IN THE ORIGINAL LOAD MODULE 1 - ADDRESSES FOR UNREPORTED STATIC LUS ARE UNCHANGED FROM THOSE IN THE ORIGINAL LOAD MODULE
		.... .111		*	RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	BFINEXT	MAPPING USED WHEN LU NAME PRESENT
0	(0)	CHARACTER	2	*	RESERVED
2	(2)	CHARACTER	1	BFILUINF	SUBJECT LU INFORMATION
2	(2)	UNSIGNED	1	BFINALEN	LENGTH IN BINARY OF NETWORK QUALIFIED LU NAME
3	(3)	CHARACTER	*	BFILUNAM	NETWORK QUALIFIED LU NAME

CONTROL VECTORS APPENDED TO RU DESCRIBING THE SESSION BEING REPORTED

Dec	Hex	Type	Len	Name	Description
0	(0)	STRUCTURE	2	BFICTLVS	
0	(0)	CHARACTER	1	BFICVKEY	VECTOR TYPE KEY
1	(1)	UNSIGNED	1	BFILENTH	VECTOR DATE LENGTH

RU

**Constants**

Len	Type	Value	Name	Description
VALUE FOR BFIHDR				
3	HEX	81268C	BFIKEY	BF SESSION INFORMATION REQUEST CODE
VALUES FOR BFIFORM				
0	BIT	0000	BFIFR0	FORMAT ZERO
VALUES FOR BFIALSTO				
0	BIT	0	BFIALNC	ADJACENT LINK STATION TAKEOVER NOT COMPLETE
0	BIT	1	BFIALTO	ADJACENT LINK STATION TAKEOVER COMPLETE
VALUES FOR BFILUTS				
0	BIT	0	BFILUNC	LU TAKEOVER NOT COMPLETE
0	BIT	1	BFILUTO	LU TAKEOVER COMPLETE

**Cross Reference**

Name	Hex Offset	Hex Value	Level
BFIALSTO	6	80	3
BFIALUI	6	20	3
BFICTLVS	0		1
BFICVKEY	0		2
BFIELEM	3		2
BFIFORM	5	80	3
BFIFRMAT	5		2
BFIHDR	0		2
BFILENTH	1		2
BFILUINF	2		2
BFILUNAM	3		3
BFILUTS	6	40	3
BFINALEN	2		3
BFINEXT	0		1
BFISDAI	6	10	3
BFITOST	6		2
BFIURSL	6	08	3
ISTBFINF	0		1

RU

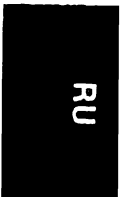
## Boundary Function Initiate RU (BFNRU)

<b>Function:</b>	BFNRU provides a mapping for the Boundary Function Initiate (BFINIT) RU. BFINIT from the BF(PLU) requests the initiation of a session between the two logical units named in the BIND image.
<b>RU Header:</b>	X'812681' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTBFNRU	
0	(0)	CHARACTER	3	BFNHDR	FM DATA Request code
3	(3)	CHARACTER	2	BFNELEMA	Element Address of the adjacent Link Station
5	(5)	BITSTRING	1	*	Format byte
		1111 ....		BFNFORM	Format value X'0' - Format 0
		.... 1111		*	Reserved
6	(6)	UNSIGNED	2	BFNBINDL	Length of BIND Image
8	(8)	CHARACTER	*	BFNBIND	BIND Image

### Constants

Len	Type	Value	Name	Description
VALUE FOR BFNHDR				
3	HEX	812681	BFNHDR	BFINIT Request code
VALUES FOR BFNFORM				
0	BIT	0000	BFNFR0	FORMAT ZERO



## Boundary Function Terminate RU (BFRTM)

<b>Function:</b>	BFRTM provides a mapping for the Boundary Function Terminate RU.
<b>RU Header:</b>	X'812683' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTBFRTM	
0	(0)	CHARACTER	3	BFRHDR	Common header for Network Services RUs
0	(0)	CHARACTER	1	BFRSST	Logical or Physical ru type
1	(1)	CHARACTER	1	BFRCAT	NS Subtype-CDRM indicator
2	(2)	CHARACTER	1	BFRREQCD	Request code
3	(3)	CHARACTER	2	BFRELMTA	Element address of the PU_T4 T5
5	(5)	CHARACTER	1	*	
		1111 ....		BFRFMT	Format value
		.... 1111		*	RESERVED
6	(6)	CHARACTER	1	BFRCAUSE	Reason BFTERM sent
7	(7)	CHARACTER	1	*	RESERVED
8	(8)	CHARACTER	*	BFRSKEY	Session Key

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR BFRHDR - BF TERMINATE				
3	HEX	812683	BFRHDC	
BFRCAUSE values				
1	HEX	00	BFRCSARR	Session activation request rejected
1	HEX	01	BFRCVRAF	Virtual Route Activation failure
1	HEX	02	BFCSTRM	Session Terminated

RU

### Cross Reference

Name	Hex Offset	Hex Value	Level
BFRCAT	1		3
BFRCAUSE	6		2
BFRELMTA	3		2
BFRFMT	5	80	3
BFRHDR	0		2
BFRREQCD	2		3
BFRSKEY	8		2
BFRSST	0		3
ISTBFRTM	0		1

## Boundary Function Session Ended RU (BFSRU)

<b>Function:</b>	BFSRU provides a mapping for the Boundary Function (BF) Session Ended RU.
<b>RU Header:</b>	X'812688' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTBFSRU	
0	(0)	CHARACTER	3	BFSHDR	Common header for network services RUs
0	(0)	CHARACTER	1	BFSSST	Logical or physical RU type
1	(1)	CHARACTER	1	BFSCAT	NS subtype-CDRM indicator
2	(2)	CHARACTER	1	BFSREQCD	Request code
3	(3)	CHARACTER	2	BFSELMTA	Element address of the PU_T4 T5
5	(5)	CHARACTER	1	*	Flag bits
		1111 ....		BFSFMT	Format value
		.... 1...		BFSLUTP	LU Role BFSLSLU (0) - LU is SLU BFSPLU (1) - LU is PLU
		.... .111		*	Reserved
6	(6)	CHARACTER	1	BFSCAUS	Cause for session deactivation
7	(7)	CHARACTER	1	*	Reserved
8	(8)	CHARACTER	*	BFSSKEY	Session key

### Constants

Len	Type	Value	Name	Description
Constant for BFSHDR - BF Session End				
3	HEX	812688	BFSHDRC	
Values for BFSFMT - Format				
0	BIT	0000	BFSFR0	FORMAT ZERO
VALUE FOR BFSLUTP - LU role				
0	BIT	1	BFSPLU	LU IS THE PLU
0	BIT	0	BFSLSLU	LU IS THE SLU

RU

### Cross Reference

Name	Hex Offset	Hex Value	Level
BFSCAT	1		3
BFSCAUS	6		2
BFSELMTA	3		2
BFSFMT	5	80	3
BFSHDR	0		2
BFSLUTP	5	08	3
BFSREQCD	2		3
BFSSKEY	8		2
BFSSST	0		3
ISTBFSRU	0		1

## BIND RU (BIND)

<b>Function:</b>	BIND contains the session parameters for a BIND RU.
<b>RU Header:</b>	X'31' (request code)
<b>RU Type:</b>	SC
<b>Additional Notes:</b>	See RU for a mapping of the base portion of BIND. Below is the mapping for the session parameters.

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	36	ISTBIND	BIND SESSION PARAMETERS AREA	
0	(0)	CHARACTER	1	BINFMTY	BIND FORMAT AND TYPE	
		1111 ....		BINFMT	BIND FORMAT	
		.... 1111		BINTYPE	BIND TYPE	
1	(1)	UNSIGNED	1	BINFM	FUNCTION MANAGEMENT PROFILE	
2	(2)	UNSIGNED	1	BINTS	TRANSMISSION SERVICES PROFILE	
3	(3)	CHARACTER	1	BINPRIP	PRIMARY LU PROTOCOLS FOR SENDING FM DATA	
		1... ....		BINPCHN	MULTIPLE RU CHAINS, SINGLE RU CHAINS	
		.1.. ....		BINPMCH	MULTIPLE OUTSTANDING CHAINS (DELAYED REQUEST MODE), SINGLE OUTSTANDING CHAIN (IMMEDIATE REQUEST MODE)	
		..11 ....		BINPCHNR	CHAIN RESPONSE PROTOCOL	
		.... 11..		*	NOT USED - AVAILABLE	
		.... .1.		BINPCMP	COMPRESSION MAY BE USED	
		.... ...1		BINPSEB	PRIMARY MAY SEND EB	
4	(4)	CHARACTER	1	BINSECP	SECONDARY LU PROTOCOLS SENDING FM DATA	
		1... ....		BINSCHN	MULTIPLE RU CHAINS, SINGLE RU CHAIN	
		.1.. ....		BINSMCH	MULTIPLE OUTSTANDING CHAINS DELAYED REQUEST MODE, SINGLE OUTSTANDING CHAIN IMMEDIATE REQUEST MODE	
		..11 ....		BINSCHNR	CHAIN RESPONSE PROTOCOLS	
		.... 11..		*	NOT USED - AVAILABLE	
		.... .1.		BINSCMP	COMPRESSION MAY BE USED	
		.... ...1		BINSSEB	SECONDARY MAY SEND EB	
5	(5)	CHARACTER	1	BINCMNP	COMMON LU PROTOCOLS	
		1... ....		BINWBREQ	WHOLE BIUS-REQUIRED INDICATOR	
		.1.. ....		BINFMHD	FM HEADERS MAY BE USED	
		.1.. ....		BINBRAK	BRACKETS WILL BE USED AND RESET STATE IS BETWEEN-BRACKETS, BRACKETS WILL NOT BE USED OR, IF USED, RESET STATE IS IN-BRACKETS	
		...1 ....		BINBKTR	CONDITIONAL BRACKETS TERMINATION	
		.... 1..		BINALT	ALTERNATE CODE MAY BE USED	
		.... .11.		*	NOT USED-AVAILABLE	
		.... ...1		BINQUE	BIND-QUEUEING INDICATOR	
6	(6)	CHARACTER	1	BINCMNP2	COMMON LU PROTOCOLS	
		11.. ....		BINFMTRM	SEND/RECEIVE MODE	
		.1.. ....		BINRCVR	1=SYMMETRIC RESPONSIBILITY FOR RECOVERY 0=CONTENTION LOSER (SEE BINBKFS BELOW) RESPONSIBLE FOR RECOVERY	
		...1 ....		BINBKFS	1=PRIMARY IS BRACKETS FIRST SPEAKER AND CONTENTION WINNER. SECONDARY IS BRACKETS BIDDER AND CONTENTION LOSER 0=SECONDARY IS BRACKETS FIRST SPEAKER AND CONTENTION WINNER. PRIMARY IS BRACKETS BIDDER AND CONTENTION LOSER	
		.... 11..		BINASCC	ALTERNATE CODE PROCESSING IDENTIFIER 00=ASCII7 01=ASCII8	
		.... .1.		BINCTLV	CONTROL VECTORS INCLUDED AFTER THE SLU NAME	
		.... ...1		BINCONR	RESET STATE FOR HDX FLIP-FLOP (EG. AT START OF SESSION) 1=PRIMARY SENDS FIRST 0=SECONDARY SENDS FIRST	
7	(7)	CHARACTER	6	BINTSU	TS USAGE	

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
7	(7)	CHARACTER 1... ..	1	BINAPACE BINSP2ST	SLU SEND PACING NUMBER OF PACING STAGES FROM SLU TO PLU (NOTE-REVERSE OF BINPS1ST) 1=TWO STAGES 0=ONE STAGE
		.1.. .... ..11 1111		*	NOT USED - RESERVED
8	(8)	UNSIGNED 1... ..	1	BINAPACM BINRSPACE BINASPI	SLU SEND PACING COUNT SLU RECEIVE PACING ADAPTIVE SESSION PACING INDICATOR
		.1.. .... ..11 1111		*	NOT USED-AVAILABLE
9	(9)	CHARACTER 1111 ....	2	BINRUSZ	RU SIZES
9	(9)	UNSIGNED 1... ..	1	BINSRUSZ BINSRUSM BINSRUSS	SLU MAXIMUM SEND MANTISSA RU SIZE IS SPECIFIED
		.111 .... .... 1111		*	NOT USED - RESERVED
10	(A)	UNSIGNED 1111 ....	1	BINSRUSE BINPRUSZ BINPRUSM BINPRUSS	EXONENT PLU MAXIMUM SEND RU SIZE MANTISSA RU SIZE IS SPECIFIED
		.111 .... .... 1111		*	NOT USED - RESERVED
11	(B)	CHARACTER 1... ..	1	BINRSPACE BINPS1ST	PLU SEND PACING NUMBER OF PACING STAGES FROM PLU TO SLU (NOTE-REVERSE OF BINSP2ST) 1=ONE STAGE 2=TWO STAGES
		.1.. .... ..11 1111		*	NOT USED - RESERVED
12	(C)	CHARACTER 11.. ....	1	BINSPACM BINBPACM	PLU SEND PACING COUNT PLU RECEIVE PACING COUNT
		.11 1111		*	NOT USED - RESERVED
13	(D)	CHARACTER	12	BINPRUSZ BINPRUSM BINPRUSS	PRESENTATION SERVICES
13	(D)	CHARACTER 1... ..	1	BINLUP BINPSFMT BINLUTYP	LU PROFILE PS USAGE FIELD FORMAT LU TYPE-- DETERMINES PROFILE OVERLAY TO BE USED
		.111 1111			LU PROFILE DEPENDENT PRESENTATION SERVICES CHARACTERISTICS
14	(E)	CHARACTER	11	BINPSCHR	CHARACTERISTICS
25	(19)	CHARACTER	1	BINCRYPT	CRYPTOGRAPHY FIELD
26	(1A)	UNSIGNED	1	BINPRIML	PRIMARY LU NAME LENGTH
27	(1B)	CHARACTER	8	BINPRIM	PRIMARY LU NAME
35	(23)	UNSIGNED	1	BINUSEL	USER DATA LENGTH
36	(24)	CHARACTER	*	BINUSE	USER DATA

OVERLAY FOR BINPSCHR - PRESENTATION SERVICES  
 CHARACTERISTICS FOR PS PROFILE 1

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
14	(E)	STRUCTURE 1111 .... .... 1111	11	BINLUP1 BINFMHS1 BINDSP1	LU PROFILE 1 FM HEADER SUBSET DATA STREAM PROFILE
15	(F)	CHARACTER	5	BINPLUS1	PLU USAGE
20	(14)	CHARACTER	5	BINSLUS1	SLU USAGE

OVERLAY FOR BINPLUS1 AND BINSLUS1 - LU USAGE

14	(E)	STRUCTURE	5	BINLUS	PLU/SLU USAGE
14	(E)	BITSTRING 1... ..	2	BINFMF1 BINDESTS	FM HEADER SUBSET NUMBER OF OUTSTANDING DESTINATIONS: 1=TWO DESTINATIONS MAY BE OUTSTANDING 0=THREE DES- TINATIONS MAY BE OUTSTANDING
		.1.. ....		BINCMPT	0=WILL NOT SEND COMPACTION TABLE HEADERS OR WILL NOT BE QUERIED FOR COMPACTION TABLES 1=MAY SEND COMPACTION TABLE HEADERS OR MAY BE QUERIED FOR COMPACTION TABLES
		..1. ....		BINPDIR	PDIR MAY BE SENT
14	(E)	BITSTRING	1	*	RESERVED FOR FMHS 1 OR 2



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
ADDITIONAL FMHS FLAGS					
		...1 ....		BINKDDSI	KEYED DIRECT DATA SET MAY BE SENT
		.... 1...		BINSDSI	SEQUENTIAL DATA SET MAY BE SENT
		.... .1.		BINSAI	SEQUENTIAL ACCESS TO ADDRESSED DIRECT DATA SETS MAY BE SENT
		.... ..1.		BINSIDS	SERIES ID NOT SUPPORTED (WITH STATUS IN REPLY)
		.... ...1		BINARRR	0=ADD REPLICATE, REPLACE REPLICATE NOT SUPPORTED 1=ADD REPLICATE, REPLACE REPLICATE SUPPORTED
		1... ....		*	NOT USED - AVAILABLE
		.1. ....		BINQDSI	QUERY DATA SET NOT SUPPORTED
		..1. ....		BINCSDS	CREATE/SCRATCH/SCRATCH ALL DATA SET ALLOWED
		...1 ....		BINXFPD	EXECUTE FP ALLOWED
		.... 1111		*	RESERVED FOR FMHS3
16	(10)	BITSTRING	2	BINDSPF1	DATA STREAM PROFILE FLAGS

NL AND FF MAY BE SENT IN ANY SUBSET. EACH SUBSET BELOW CONTAINS EVERY PRECEDING SUBSET (E.G. IF AN LU CAN SEND THE HORIZONTAL FORMAT SUBSET, IT CAN ALSO SEND THE FULL BASE SET)

		1... ....		BININTR	FULL BASE SET DATA STREAM (BS,CR,LF,ENP,INP,HT,VT) MAY BE SENT
		.1. ....		BINHFDS	HORIZONTAL FORMAT DATA STREAM (SHF) MAY BE SENT
		..1. ....		BINVTDS	VERTICAL FORMAT DATA STREAM (SVT) WILL BE SENT
		...1 ....		BINVSDS	VERTICAL CHANNEL DATA STREAM (SVF-CHANNELS), SCF, SEL MAY BE SENT
		.... 1...		BINSLD	SLD MAY BE SENT
		.... .11.		*	NOT USED - AVAILABLE
		.... ...1		BINTRNDS	TRANSPARENCY DATA STREAM (TRN,IRS) MAY BE SENT
		1... ....		BINUAINT	0=SLU WILL INITIATE ATTENDED 1=SLU WILL INITIATE UNATTENDED
		.1. ....		BINUAALT	DURING SESSION SLU WILL ALTERNATE BETWEEN ATTENDED AND UNATTENDED
		..11 1111		*	NOT USED - AVAILABLE
18	(12)	BITSTRING	1	BINMEDIA	MEDIA FLAGS
		1... ....		BINDOCMT	DOCUMENT MEDIA MAY BE SENT
		.1. ....		BINCARD	CARD FORMAT MAY BE SENT
		..1. ....		BINXCHNG	EXCHANGE MEDIA MAY BE SENT
		...1 ....		BINDISK	DISK FORMAT MAY BE SENT
		.... 1...		BINXCDF	EXTENDED CARD FORMAT MAY BE SENT
		.... .1.		BINXDOCF	EXTENDED DOCUMENT FORMAT MAY BE SENT
		.... ..1.		BINCDEDS	0=SLU MAY SEND CD EVERY EDS 1=SLU MUST SEND CD EVERY EDS (THIS FLAG APPLIES ONLY TO BINPMED1)
		.... ...1		*	NOT USED - AVAILABLE

OVERLAY FOR BINPSCHR - PRESENTATION SERVICES CHARACTERISTICS FOR PS PROFILE 2

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
14	(E)	STRUCTURE	11	BINLUP2	LU PROFILE 2
		1... ....		BINSEDS	3270 EXTENDED DATA STREAM
		.111 1111		*	NOT USED - AVAILABLE
15	(F)	CHARACTER	4	*	NOT USED - AVAILABLE
19	(13)	CHARACTER	5	BINSCRSZ	PRESENTATION SPACE SIZE
19	(13)	UNSIGNED	1	BINSPRIR	PRIMARY (DEFAULT) NUMBER OF ROWS
20	(14)	UNSIGNED	1	BINSPRIC	PRIMARY (DEFAULT) NUMBER OF COLUMNS
21	(15)	UNSIGNED	1	BINSALTR	ALTERNATE NUMBER OF ROWS
22	(16)	UNSIGNED	1	BINSALTC	ALTERNATE NUMBER OF COLUMNS
23	(17)	UNSIGNED	1	BINPRESZ	PRESENTATION SPACE SIZE
24	(18)	BITSTRING	1	*	NOT USED - AVAILABLE



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
OVERLAY FOR BINPSCHR - PRESENTATION SERVICES CHARACTERISTICS FOR PS PROFILE 3					
14	(E)	STRUCTURE	11	BINLUP3	LU PROFILE 3
14	(E)	CHARACTER	5	*	NOT USED - AVAILABLE
19	(13)	CHARACTER	4	BINBFRSZ	BUFFER SIZE IF ROW/COLUMN FORMAT DEFINED BY BINBFSIZ
19	(13)	UNSIGNED	1	BINBFRDR	PRIMARY (DEFAULT) NUMBER OF ROWS
20	(14)	UNSIGNED	1	BINBFRDC	PRIMARY (DEFAULT) NUMBER OF COLUMNS
21	(15)	UNSIGNED	1	BINBFRAR	ALTERNATE NUMBER OF ROWS
22	(16)	UNSIGNED	1	BINBDRAC	ALTERNATE NUMBER OF COLUMNS
23	(17)	CHARACTER	1	BINDESC	PRESENTATION SPACE SIZE SPECIFICATION
		1... ....		*	NOT USED - AVAILBLE
		.111 1111		BINBFSIZ	PRESENTATION SPACE SIZE SPECIFICATION
24	(18)	CHARACTER	1	*	NOT USED - AVAILABLE
OVERLAY FOR BINPSCHR - PRESENTATION SERVICES CHARACTERISTICS FOR PS PROFILE 4					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
14	(E)	STRUCTURE	11	BINLUP4	LU PROFILE 4
14	(E)	BITSTRING	4	BINPSNDO	PLU SEND CAPABILITY
14	(E)	BITSTRING	1	BINPDSPP	PRINTER DATA STREAM
		1... ....		BINPBDSP	BASE DATA STREAM PROFILE SUPPORTED
		.1. ....		BINRSV46	NOT USED - AVAILABLE
		..1. ....		BINJOB	JOB SCS SUBSET SUPPORTED
		...1 ....		BINRSV47	NOT USED - AVAILABLE
		.... 1..		BINWPRAW	WORD PROCESSING RAW FORM SUPPORTED
		.... .1..		BINRSV48	NOT USED - AVAILABLE
15	(F)	BITSTRING	1	BINADSPP	ADDITIONAL DATA STREAM PROFILE
		1... ....		BINRSV49	NOT USED - AVAILABLE
		.1. ....		BINADSCD	CARD SUPPORTED
		..11 1111		BINRSV29	NOT USED - AVAILABLE
16	(10)	BITSTRING	1	BINCSLP	CONSOLE
		1... ....		BINCBDSP	BASE DATA STREAM PROFILE SUPPORTED
		.1. ....		BINRSV50	NOT USED - AVAILABLE
		..1. ....		BINCSJOB	JOB SCS SUBSET SUPPORTED
		...1 1111		BINRSV51	NOT USED - AVAILABLE
17	(11)	BITSTRING	1	BINFMHUP	FM/FMH USAGE
		1... ....		BINSSDAT	NOT USED - AVAILABLE
		.11. ....		BINDSSTO	00= 1 LEVEL DESTINATION SELECTION SUSPEND STACK 01= 2 LEVEL DESTINATION SELECTION SUSPEND STACK 10= NOT USED - AVAILABLE 11= 3 LEVEL DESTINATION SELECTION SUSPEND STACK
		...1 111.		BINRSV52	NOT USED - AVAILABLE
		.... ...1		BINKIXS	0 = SLU NEED NOT RECEIVE CHANGE DIRECTION (CD) ON EVERY END OF DESTINATION SELECTION (EDS) 1 = SLU MUST RECEIVE CHANGE DIRECTION ON EVERY END OF DESTINATION SELECTION
18	(12)	BITSTRING	4	BINSSNDO	SLU SEND CAPABILITY
18	(12)	BITSTRING	1	BINPDSPS	PRINTER DATA STREAM PROFILE (SEE PDSPP)
19	(13)	BITSTRING	1	BINADSPS	ADDITIONAL DATA STREAM PROFILE (SEE ADSPP)
20	(14)	BITSTRING	1	BINCSLS	CONSOLE (SEE CSLP)
21	(15)	BITSTRING	1	BINFMHUS	FM/FMH USAGE (SEE FMHUP)- MEANING FOR BINKIXS IS: 0= PLU NEED NOT RECEIVE CHANGE DIRECTION ON EVERY END OF DESTINATION SELECTION 1 = PLU MUST RECEIVE CHANGE DIRECTION ON EVERY END OF DESTINATION SELECTION
22	(16)	BITSTRING	1	BINCSO	CODE SELECTION
		1111 ....		BINCSOR	REPertoire
		1... ....		BINCISOE	1 = EBCDIC
		.1. ....		BINCISOAI	1 = ASCII/ISCI/ITA#5
		..1. ....		BINRSV30	NOT USED - AVAILABLE
		...1 ....		BINRSV31	NOT USED - AVAILABLE



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 11..		BINCSOC1	00= CODE 0 (MAIN CODE) SELECTION IS EBCDIC 01= CODE 0 (MAIN CODE) SELECTION IS ASCII/ICSII/ITA#5
		.... ..11		BINCSOC2	00= CODE 1 (ALTERNATE CODE) SELECTION IS EBCDIC 01= CODE 1 (ALTERNATE CODE) SELECTION IS ASCII/ICSII/ITA#5
23	(17)	BITSTRING	1	BINGENCO	GENERAL CHARACTERISTIC
		11.. ....		BINRSV32	NOT USED - AVAILABLE
		..1. ....		BINWSDF	0 = PLU MAY SEND DATA FIRST 1 = SLU MUST SEND DATA FIRST
		...1 ....		BINRSV33	NOT USED - AVAILABLE
		.... 1..		BINIAO	0 = SLU WILL INITIATE ATTENDED 1 = SLU WILL INITIATE UNATTENDED
		.... .1..		BINAAO	0 = SLU WILL NOT ALTERNATE BETWEEN ATTEND AND UNATTENDED 1 = SLU MAY ALTERNATE BETWEEN ATTENDED AND UNATTENDED
		.... ..11		BINRVS34	NOT USED - AVAILABLE
24	(18)	BITSTRING	1	BINRSV35	NOT USED - AVAILABLE

OVERLAY FOR BINPSCHR - PRESENTATION SERVICES  
CHARACTERISTICS FOR PS PROFILE 6

14	(E)	STRUCTURE	11	BINLUP6	LU PROFILE 6
14	(E)	BITSTRING	1	BINLULEV	LU-6 LEVEL
15	(F)	CHARACTER	7	BINRSV36	NOT USED - RESERVED
22	(16)	BITSTRING	1	BINFLG1	LU 6.2 FLAGS
		111. ....		*	NOT USED - RESERVED
		...1 ....		BINCLSS	CONVERSATIONAL-LEVEL SECURITY SUPPORT: 0=ACCESS SECURITY INFORMATION FIELD WILL NOT BE ACCEPTED ON INCOMING FMH-5S 1=ACCESS SECURITY INFORMATION FIELD WILL BE ACCEPTED ON INCOMING FMH-5S
		.... 11..		*	NOT USED - RESERVED
		.... ..1.		BINAVFS	ALREADY-VERIFIED FUNCTION SUPPORT: 0=ALREADY-VERIFIED FUNCTION WILL NOT BE ACCEPTED ON INCOMING FMH-5S 1=ALREADY-VERIFIED FUNCTION WILL BE ACCEPTED ON INCOMING FMH-5S
		.... ...1		*	NOT USED - RESERVED
23	(17)	BITSTRING	1	BINFLG2	MORE LU 6.2 FLAGS
		1... ....		*	NOT USED - AVAILABLE
		..1. ....		BINSYNCH	SYNCHRONIZATION LEVEL: 01=CONFIRM IS SUPPORTED 10=CONFIRM, SYNC POINT, AND BACKOUT ARE SUPPORTED
		...1 ....		BINRS	RECONNECT SUPPORT: 0=RECONNECT NOT SUPPORTED 1=RECONNECT SUPPORTED
		.... 11..		BINRSR	RESPONSIBILITY FOR SESSION REINITIATION: 00=OPERATOR CONTROLLED 01=PRIMARY HALF-SESSION WILL REINITIATE 10=SECONDARY HALF-SESSION WILL REINITIATE 11=EITHER MAY REINITIATE NOTE: THIS FIELD IS RESERVED WHEN PARALLEL SESSIONS ARE SUPPORTED (I.E. WHEN BINPSS IS SET)
		.... ..1.		BINPSS	PARALLEL SESSION SUPPORT FOR LU-LU PAIR: 0=PSS NOT SUPPORTED 1=PSS SUPPORTED
		.... ...1		BINGDSVF	CHANGE NUMBER OF SESSIONS GDS VARIABLE FLOW SUPPORT: 0=NOT SUPPORTED 1=SUPPORTED
24	(18)	BITSTRING	1	*	
24	(18)	BITSTRING	1	*	NOT USED - RESERVED

OVERLAY FOR BINCRYPT - FOR TRUE CRYPTOGRAPHY DEFINITION

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	10	BINCRYRL	CRYPTOGRAPHY FIELD
0	(0)	BITSTRING	1	BINCRCTL	CRYPTOGRAPHY CONTROL BYTE
		11.. ....		BINCEUMB	RESERVED
		..11 ....		BINCSSESS	SESSION LEVEL CRYPTOGRAPHY

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
1	(1)	.... 1111 CHARACTER	1	BINCLN BINCRPFL	LENGTH OF CRYPTOGRAPHY FIELD CRYPTOGRAPHY FLAGS. NOT PRESENT WHEN BINCLN=0
2	(2)	11.. .... ..11 1... .... .111 CHARACTER	8	BINCKEY BINCRSV1 BINCCIPH BINCRKEY	KEY MODE NOT USED - AVAILABLE CRYPTOGRAPHY METHOD CRYPTOGRAPHY KEY. NOT PRESENT WHEN BINCLN=0

EXPANDED DEFINITION OF LU NAME AND VARIABLE

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	BINPNAU	LOCATION BASED ON ADDR(BINCRPFL) + BINCLN
0	(0)	UNSIGNED	1	BINAUNML	LENGTH OF NAME
1	(1)	CHARACTER	*	BINAUNM	PRIMARY LU NAME

LOCATION OF USER DATA BEYOND VARIABLES

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	1	BINUSEDT	LOCATION BASED ON ADDR(BINAUNM) + BINAUNML
0	(0)	UNSIGNED	1	BINUSDTL	USER DATA LENGTH
1	(1)	CHARACTER	*	BINUSDTA	USER DATA

STRUCTURED USER DATA SUBFIELD(S)

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	BINSSFLD	
0	(0)	UNSIGNED	1	BINSSLEN	SUBFIELD LENGTH
1	(1)	UNSIGNED	1	BINSSNUM	SUBFIELD NUMBER
2	(2)	CHARACTER	*	BINSSDTA	SUBFIELD DATA

STRUCTURE FOR THE RANDOM DATA STRUCTURED SUBFIELD

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	9	*	RESERVED
0	(0)	CHARACTER	1	*	RESERVED
1	(1)	CHARACTER	8	*	RESERVED

USER REQUEST CORRELATOR - THIS FIELD IS OPTIONAL AND  
 NEED NOT BE PRESENT

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	BINURC	LOCATION BASED ON ADDR(BINUSDTA) + BINUSDTL
0	(0)	UNSIGNED	1	BINURCL	URC LENGTH
1	(1)	CHARACTER	*	BINURCD	URC DATA

SECONDARY LOGICAL UNIT NAME - THIS FIELD IS OPTIONAL  
 AND NEED NOT BE PRESENT

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	1	BINSLUNM	LOCATION BASED ON ADDR(BINURCH) + BINURCL
0	(0)	UNSIGNED	1	BINSNML	SLU NAME LENGTH
1	(1)	CHARACTER	*	BINSNMD	SLU NAME DATA

SESSION ACTIVATION CONTROL VECTOR

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	BINV27	
0	(0)	CHARACTER	1	BINV27KY	KEY FOR SESSION ACTIVATION CONTROL VECTOR
1	(1)	UNSIGNED	1	BINV27LN	LENGTH OF VECTOR DATA FIELD
2	(2)	CHARACTER	2	BINV27DA	VECTOR DATA FIELD
2	(2)	BITSTRING	1	BINV27UI	USAGE INDICATORS
		1... ....		BINV27ST	SESSION TYPE 0 PRIMARY: THE BIND REQUEST IS FOR A PRIMARY SESSION WHICH MAY BECOME RELATED TO BACKUP SESSION 1 BACKUP: THE SLU WILL RELATE THIS LU-LU SESSION WITH THE PREVIOUSLY ACTIVATED SESSION



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
3	(3)	UNSIGNED	1	BINV27CL	SESSION CORRELATOR LENGTH
4	(4)	CHARACTER	*	BINV27SC	SESSION CORRELATOR

**Constants**

Len	Type	Value	Name	Description
VALUES FOR BINLULEV - LU-2 LEVEL				
1	DECIMAL	2	BINLV02	LEVEL 2
VALUES FOR BINSYNCH - SYNCHRONIZATION LEVEL				
0	BIT	01	BINCONF	CONFIRM SUPPORTED
0	BIT	10	BINCSBK	CONFIRM, SYNC POINT, AND BACKOUT SUPPORTED
VALUES FOR BINRSR - RESPONSIBILITY FOR SESSION REINITIATION				
0	BIT	00	BINOPRC	OPERATOR CONTROLLED
0	BIT	01	BINPRIMH	PRIMARY WILL REINITIATE
0	BIT	10	BINSECNH	SECONDARY WILL REINITIATE
0	BIT	11	BINETHR	EITHER MAY REINITIATE
VALUES FOR BINSSNUM - SUBFIELD NUMBER				
1	DECIMAL	0	BINSSUFD	UNFORMATTED DATA
1	DECIMAL	2	BINSSMDN	MODE NAME
1	DECIMAL	3	BINSSSII	SESSION INSTANCE IDENTIFIER
1	DECIMAL	4	BINSSPFQ	FULLY QUALIFIED PLU NETWORK NAME
1	DECIMAL	5	BINSSSFQ	FULLY QUALIFIED SLU NETWORK NAME
VALUE FOR BINUDKEY - USER DATA KEY				
1	DECIMAL	0	BINSTRSF	STRUCTURED SUBFIELDS FOLLOW
1	HEX	85	BINRU256	256 BYTE RU
VALUES FOR BINLUP - PS PROFILE				
1	DECIMAL	0	BINLUP0C	LU PROFILE 0
1	DECIMAL	1	BINLUP1C	LU PROFILE 1
1	DECIMAL	2	BINLUP2C	LU PROFILE 2
1	DECIMAL	3	BINLUP3C	LU PROFILE 3
1	DECIMAL	4	BINLUP4C	LU PROFILE 4
1	DECIMAL	6	BINLUP6C	LU PROFILE 6
VALUES FOR BINFMHS1 - FM HEADER SUBSET				
0	BIT	0000	BINFMS0C	NO FM HEADERS ALLOWED
0	BIT	0001	BINFMS1C	TYPE 1 HEADERS, WITH RESTRICTIONS
0	BIT	0010	BINFMS2C	TYPE 1 HEADERS
0	BIT	0011	BINFMS3C	DATA MANAGEMENT SUBSET
VALUES FOR BINDSP1 - DATA STREAM PROFILE				
0	BIT	0000	BINDSP0C	BASIC CONTROL
0	BIT	0001	BINDSP1C	BASIC CONTROL CARDS MAY SPAN RUS
VALUES FOR BINPRESZ - PRESENTATION SPACE SIZE				
1	DECIMAL	0	BINPSZ0	UNDEFINED ROW X COLUMN
1	DECIMAL	1	BINPSZ1	12X40 ROW X COLUMN
1	DECIMAL	2	BINPSZ2	24X80 ROW X COLUMN
1	DECIMAL	3	BINPSZ3	24X80 DEFAULT, UNDEFINED ALTERNATE, DO WRITE STRUCTURE FIELD QUERY TO IDENTIFY ALTERNATE, PRESENTATION SPACED IS FIXED SIZE AS DEFINED BY ROW/COLUMN VALUES IN DEFAULT ROW/COLUMN FIELDS
1	HEX	7E	BINPSFX	PRESENTATION SPACE HAS DEFAULT AND ALTERNATE SIZES AS DEFINED IN DEFAULT, ALTERNATE ROW/COLUMN FIELDS
1	HEX	7F	BINPSZRC	PRESENTATION SPACE HAS DEFAULT AND ALTERNATE SIZES AS DEFINED IN DEFAULT, ALTERNATE ROW/COLUMN FIELDS
1	HEX	00	BINUSERD	USER DATA LENGTH DEFAULT

**RU**

Len	Type	Value	Name	Description
VALUES FOR BINPCHNR AND BINSCHNR - TYPE OF RESPONSES ASKED FOR BY REQUESTS FROM PRIMARY/SECONDARY				
0	BIT	00	BINNORSP	NO RESPONSE
0	BIT	01	BINEXRSP	EXCEPTION RESPONSE
0	BIT	10	BINDFRSP	DEFINITE RESPONSE
0	BIT	11	BINNYRSP	DEFINITE OR EXCEPTION RESPONSE
VALUES FOR BINFMTRM - TRANSACTION MODE				
0	BIT	00	BINFLDPX	FULL-DUPLEX
0	BIT	01	BINHDXC	HALF-DUPLEX CONTENTION
0	BIT	10	BINHDXFF	HALF-DUPLEX FLIP-FLOP
0	BIT	11	BINMSTSL	MASTER/SLAVE
VALUES FOR BINFM - FUNCTION MANAGEMENT PROFILE				
4	DECIMAL	19	BINFM19	FM PROFILE 19
VALUES FOR BINTS - TRANSMISSION SERVICES PROFILE				
4	DECIMAL	0	BINTS0	NOT VALID ON LU-LU SESSION
4	DECIMAL	1	BINTS1	NOT VALID ON LU-LU SESSION
4	DECIMAL	2	BINTS2	SEQUENCE NUMBERS, NO RESET STATE
4	DECIMAL	3	BINTS3	SEQUENCE NUMBERS, RESET STATE
4	DECIMAL	7	BINTS7	TS PROFILE 7
VALUES FOR BINTYPE - TYPE				
0	BIT	0000	BINNEGO	COLD/NEGOTIABLE
0	BIT	0001	BINONEGO	NON-NEGOTIABLE
0	BIT	0001	BINCOLD	NON-NEGOTIABLE
0	BIT	0010	BINERP	ERP
0	BIT	0100	BINWARM	WARM
0	BIT	1000	BINCHNGE	CHANGE
VALUES FOR BINFMT - FORMAT				
0	BIT	0000	BINFMT0	FORMAT 0
VALUES FOR BINCRCTL				
1	HEX	00	BINNOCRY	NO CRYPTOGRAPHY
1	HEX	09	BINCRYCA	CRYPTOGRAPHY CAPABLE
1	HEX	19	BINCRYSL	CRYPTOGRAPHY SELECTIVE
1	HEX	39	BINCRYRQ	CRYPTOGRAPHY REQUIRED
1	HEX	0F	BINCRCKM	MASK FOR BINCRCTL TO BYTE VALUE FOR BINCLN
VALUES FOR BINCEUMB - EUM/PRIVATE FLAGS				
0	BIT	00	BINCEUNP	NO PRIVATE/EUM
0	BIT	01	BINCEUPP	PRIVATE KEY, PRIVATE PROTOCOL
0	BIT	10	BINCEUPS	SYSTEM KEY, PRIVATE PROTOCOL
VALUES FOR BINCSSESS - SESSION LEVEL FLAGS				
0	BIT	00	BINCSSENP	NO SESSION LEVEL
0	BIT	01	BINCSSESP	SELECTED SESSION LEVEL
0	BIT	11	BINCSSESR	REQUIRED SESSION LEVEL
VALUE OF KEY FOR SESSION ACTIVATION CONTROL VECTOR				
1	HEX	27	BINKEY27	VALUE OF KEY



Cross Reference

Name	Hex Offset	Hex Value	Level
BINAAO	17	04	3
BINADSCD	F	40	4
BINADSPP	F		3
BINADSPS	13		3
BINALT	5	08	3
BINAPACE	7		3
BINAPACM	7	20	4
BINARRR	E	01	4
BINASCC	6	08	3
BINASPI	8	80	4
BINAUNM	1		2
BINAUNML	0		2
BINAVFS	16	02	3
BINBDESC	17		2
BINBDRAC	16		3
BINBFRAR	15		3
BINBFRDC	14		3
BINBFRDR	13		3
BINBFRSZ	13		2
BINBFSIZ	17	40	3
BINBKFS	6	10	3
BINBKTR	5	10	3
BINBPACE	C		3
BINBPACM	C	20	4
BINBRAK	5	20	3
BINCARD	12	40	3
BINCBDSP	10	80	4
BINCCIPH	1	04	3
BINCEDEDS	12	02	3
BINCEUMB	0	80	3
BINCJOB	10	20	4
BINCKEYT	1	80	3
BINCLEN	0	08	3
BINCLSS	16	10	3
BINCMNP	5		2
BINCMNP2	6		2
BINCMNPCT	E	40	3
BINCONR	6	01	3
BINCRCTL	0		2
BINCRKEY	2		2
BINCRPFL	1		2
BINCRSV1	1	20	3
BINCRYPT	19		2
BINCRYRL	0		1
BINCSDS	F	20	4
BINCSSESS	0	20	3
BINCSLP	10		3
BINCSLS	14		3
BINCSO	16		2
BINCSOAI	16	40	4
BINCSOC1	16	08	3
BINCSOC2	16	02	3
BINCSOE	16	80	4
BINCSOR	16	80	3
BINCTLV	6	02	3
BINDESTS	E	80	3
BINDISK	12	10	3
BINDOCMT	12	80	3
BINDSPF1	10		2
BINDSP1	E	08	2
BINDSSTO	11	40	4
BINFLG1	16		2
BINFLG2	17		2
BINFM	1		2



Name	Hex Offset	Hex Value	Level
BINFMF1	E		2
BINFMHD	5	40	3
BINFMHS1	E	80	2
BINFMHUP	11		3
BINFMHUS	15		3
BINFMT	0	80	3
BINFMTRM	6	80	3
BINFMTY	0		2
BINGDSVF	17	01	3
BINGENCO	17		2
BINHFDSD	10	40	3
BINIAO	17	08	3
BININTR	10	80	3
BINJOB	E	20	4
BINKDDSI	E	10	4
BINKIXS	11	01	4
BINLULEV	E		2
BINLUP	D		3
BINLUP1	E		1
BINLUP2	E		1
BINLUP3	E		1
BINLUP4	E		1
BINLUP6	E		1
BINLUS	E		1
BINLUTYP	D	40	4
BINMEDIA	12		2
BINPBDSPP	E	80	4
BINPCHN	3	80	3
BINPCHNR	3	20	3
BINPCMP	3	02	3
BINPDIR	E	20	3
BINPDSPP	E		3
BINPDSPPS	12		3
BINPLUS1	F		2
BINPMCH	3	40	3
BINPNAU	0		1
BINPRESZ	17		3
BINPRIM	1B		2
BINPRIML	1A		2
BINPRIP	3		2
BINPRSV	D		2
BINPRUSE	A	08	5
BINPRUSM	A	80	5
BINPRUSS	A	80	6
BINPRUSZ	A		4
BINPSCHR	E		3
BINPSEB	3	01	3
BINPSFMT	D	80	4
BINPSNDO	E		2
BINPSS	17	02	3
BINPS1ST	B	80	4
BINQDSI	F	40	4
BINQUE	5	01	3
BINRCVR	6	20	3
BINRPACE	8		3
BINRPACM	8	20	4
BINRS	17	10	3
BINRSR	17	08	3
BINRSV29	F	20	4
BINRSV30	16	20	4
BINRSV31	16	10	4
BINRSV32	17	80	3
BINRSV33	17	10	3
BINRSV35	18		2

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
BINRSV36	F		2	BINV27UI	2		3
BINRSV46	E	40	4	BINWBREQ	5	80	3
BINRSV47	E	10	4	BINWPRAW	E	08	4
BINRSV48	E	04	4	BINWSDF	17	20	3
BINRSV49	F	80	4	BINXCDF	12	08	3
BINRSV50	10	40	4	BINXCHNG	12	20	3
BINRSV51	10	10	4	BINXDOCF	12	04	3
BINRSV52	11	10	4	BINXFPD	F	10	4
BINRUSZ	9		3	ISTBIND	0		1
BINRVS34	17	02	3				
BINSAI	E	04	4				
BINSALTC	16		3				
BINSALTR	15		3				
BINSCHN	4	80	3				
BINSCHNR	4	20	3				
BINSCMP	4	02	3				
BINSCRSZ	13		2				
BINSDSI	E	08	4				
BINSECP	4		2				
BINSEDS	E	80	2				
BINSIDS	E	02	4				
BINSLD	10	08	3				
BINSLUNM	0		1				
BINSLUS1	14		2				
BINSMCH	4	40	3				
BINSNMD	1		2				
BINSNML	0		2				
BINSPACE	B		3				
BINSPACM	B	20	4				
BINSPRIC	14		3				
BINSPRIR	13		3				
BINSP2ST	7	80	4				
BINSRUSE	9	08	5				
BINSRUSM	9	80	5				
BINSRUSS	9	80	6				
BINSRUSZ	9		4				
BINSSDAT	11	80	4				
BINSSDTA	2		2				
BINSSEB	4	01	3				
BINSSFLD	0		1				
BINSSLEN	0		2				
BINSSNDO	12		2				
BINSSNUM	1		2				
BINSYNCH	17	40	3				
BINTRNDS	10	01	3				
BINTS	2		2				
BINTSU	7		2				
BINTYPE	0	08	3				
BINUAALT	11	40	3				
BINUAI	11	80	3				
BINURC	0		1				
BINURCD	1		2				
BINURCL	0		2				
BINUSDTA	1		2				
BINUSDTL	0		2				
BINUSE	24		2				
BINUSEDT	0		1				
BINUSEL	23		2				
BINVSDS	10	10	3				
BINVTDS	10	20	3				
BINV27	0		1				
BINV27CL	3		3				
BINV27DA	2		2				
BINV27KY	0		2				
BINV27LN	1		2				
BINV27SC	4		3				
BINV27ST	2	80	4				



## Boundary Function Session Started RU (BSST)

<b>Function:</b>	BSST provides a mapping for the Boundary Function Session Started RU. BSST informs the SSCP that a new session has been activated and provides information about the active session.
<b>RU Header:</b>	X'812686' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTBSST	
0	(0)	CHARACTER	3	BSSHDR	FM DATA Request code
3	(3)	CHARACTER	2	BSELEMA	Element Address of the adjacent Link Station
5	(5)	BITSTRING	1	*	Format byte
		1111 ....		BSSFMT	Format value BSSFMT0 - Fmt 0
		.... 1...		BSSLUTP	LU Role : BSSLSLU (0) - LU is SLU BSSLPLU (1) - LU is PLU
		.... .111		*	Reserved
6	(6)	CHARACTER	*	BSSSKB	Location to base Session Key

### Constants

Len	Type	Value	Name	Description
VALUE FOR BSSHDR				
3	HEX	812686	BSSHDR	BFSESSST Request Code
VALUES FOR BSSFMT				
0	BIT	0000	BSSFMT0	FORMAT ZERO
VALUE FOR BSSLUTP				
0	BIT	1	BSSLPLU	LU is the PLU
0	BIT	0	BSSLSLU	LU is the SLU

RU



## Cross-Domain Control Initiate RU (CDCIN)

<b>Function:</b>	CDCIN passes information about the SLU from the SSCP(SLU) and requests that the SSCP(PLU) send CINIT to the PLU.
<b>RU Header:</b>	X'81864B' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	13	ISTCDCIN	CROSS-DOMAIN CONTROL INITIATE (CDCINIT) RU
0	(0)	CHARACTER	3	CDCHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	CDCSST	LOGICAL/PHYSICAL RU TYPE
1	(1)	CHARACTER	1	CDCCAT	NS SUBTYPE-CORM INDICATOR
2	(2)	CHARACTER	1	CDCREQ	REQUEST CODE
3	(3)	CHARACTER	1	CDCFORM	FORMAT
		1111 ....		CDCFMT	FORMAT VALUE
		.... 1111		CDCRSV1	NOT USED - AVAILABLE
4	(4)	CHARACTER	1	CDCCAPS	CAPABILITIES
		1111 111.		CDCRSV2	NOT USED - AVAILABLE
		.... ...1		CDCHARP	1 = SLU IS XREF CAPABLE
5	(5)	CHARACTER	8	CDCPCID	PROCEDURE CORRELATION ID (SEE PCID)
13	(D)	CHARACTER	*	CDCVECS	OVERLAY FOR FORMAT 0 OR FORMAT 1.

MAPPING FOR SESSION IDENTIFIER FOR FORMAT 0 CDCINIT.

NOTE: MAPPING FOR SESSION IDENTIFIER FOR FORMAT 1 CDCINIT IS A SEPARATE DSECT (ISTAPSK) WHICH WILL BE BASED ON ADDR (CDCVECS) WHICH WILL INCLUDE THE QUALIFIED ADDRESS PAIR SESSION KEY (X'15') WITH THE CDCINIT RU.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	CDCNA	
0	(0)	CHARACTER	2	CDCPNA	PLU NETWORK ADDRESS
2	(2)	CHARACTER	2	CDCSNA	SLU NETWORK ADDRESS

MAPPING FOR BIND IMAGE FOR BOTH FORMAT 0 AND FORMAT 1.

0	(0)	STRUCTURE	2	CDCBND	MAPPING FOR BIND IMAGE FOR BOTH FORMAT 0 AND FORMAT 1.
0	(0)	SIGNED	2	CDCBLN	BIND IMAGE LENGTH
2	(2)	CHARACTER	*	CDCBIND	BIND IMAGE

MAPPING FOR LU CHARACTERISTICS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	CDCLCHAR	LOCATION BASED ON ADDR(CDCBIND) + CDCBLN
0	(0)	SIGNED	2	CDCLNCH	LENGTH OF LU CHARACTERISTICS (CDCLUCHR)
2	(2)	CHARACTER	1	CDCLUCHR	LU CHARACTERISTICS: 1ST BYTE IS FORMAT, REST ARE CHARACTERISTICS
2	(2)	CHARACTER	1	CDCTYPE	FORMAT BYTE FOR LU CHARACTERISTICS
3	(3)	CHARACTER	*	CDCLUCH	LU CHARACTERISTICS: 1ST 8-BYTES ARE MAPPED BY ISTDEVCH
0	(0)	STRUCTURE	1	CDCK	LOCATION BASED ON ADDR(CDCLNCH) + LENGTH (CDCLNCH) + CDCLNCH
0	(0)	UNSIGNED	1	CDCCKLN	LENGTH OF CRYPTOGRAPHY KEY
1	(1)	CHARACTER	*	CDCCKEY	CRYPTOGRAPHY KEY

RU

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR CDCHDR - CROSS DOMAIN CINIT RU				
3	HEX	81864B	CDCHDR	81 - NETWORK SERVICES, LOGICAL SERVICES, 86 - SESSION SERVICES, CDRM, 4B - CROSS DOMAIN CINIT REQUEST
CONSTANT FOR CDCFMT				
0	BIT	0000	CDCFMT0	FORMAT 0
0	BIT	0001	CDCFMT1	FORMAT 1 CDCINIT WHICH SUPPORTS QUALIFIED ADDRESS PAIR SESSION KEY
CONSTANT FOR CDCTYPE - FORMAT INDICATOR FOR LU CHARACTERISTICS				
1	HEX	01	CDCVLCHR	VTAM LOGICAL UNIT CHARACTERISTICS

**Cross Reference**

Name	Hex Offset	Hex Value	Level
CDCBIND	2		2
CDCBLN	0		2
CDCBND	0		1
CDCCAPS	4		2
CDCCAT	1		3
CDCCCK	0		1
CDCCKEY	1		2
CDCCKLN	0		2
CDCFMT	3	80	3
CDCFORM	3		2
CDCHARP	4	01	3
CDCHDR	0		2
CDCLCHAR	0		1
CDCLNCH	0		2
CDCLUCH	3		3
CDCLUCHR	2		2
CDCNA	0		1
CDCPCID	5		2
CDCPNA	0		2
CDCREQ	2		3
CDCRSV1	3	08	3
CDCRSV2	4	80	3
CDCSNA	2		2
CDCSST	0		3
CDCTYPE	2		3
CDCVECS	D		2
ISTCDCIN	0		1

RU

## Cross-Domain Initiate RU (CDIN)

<b>Function:</b>	CDIN from the SSCP(OLU) requests that the SSCP(DLU) assist in initiating an LU-LU session for the specified (OLU,DLU) pair.
<b>RU Header:</b>	X'818641' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	19	ISTCDIN	CROSS-DOMAIN INITIATE (CDINIT) RU
0	(0)	CHARACTER	3	CDIHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	CDISST	LOGICAL/PHYSICAL RU TYPE
1	(1)	CHARACTER	1	CDICAT	NS SUBTYPE CDRM INDICATOR
2	(2)	CHARACTER	1	CDIREQCD	REQUEST CODE
3	(3)	BITSTRING	1	*	
		1111 ....		CDIFORM	Format
		.... 1111		*	Not used, available
4	(4)	CHARACTER	15	CDIDQM	DQ (format 1 and 4) mapping NOTE: See the below DEFINE for the NON-DQ mapping
4	(4)	BITSTRING	1	CDIQTYPE	Type
		11.. ....		CDIQQT	00 = DQ, only valid type for DQ
		..11 ....		CDIQRTRY	Retry cases
		.... 1...		*	Not used - available
		.... .11.		CDIQLU2	(00) - LU2 is PLU (01) - LU2 is SLU
		.... ...1		*	Reserved
5	(5)	BITSTRING	1	CDIQUUEC	Queueing conditions
		1111 1...		*	Reserved
		.... .11.		CDIQHOW	How to queue request 01 = FIFO 10 = LIFO
		.... ...1		*	Reserved
6	(6)	BITSTRING	1	CDIQSTAT	OLU Status
		1... ....		*	Reserved
		.1.. ....		CDIQLUA	0 = LU Unavailable 1 = LU Available
		..11 11..		*	Reserved
		.... ..11		CDIQLU	01= LU is PLU 10= LU is SLU
7	(7)	CHARACTER	8	CDIPCID	PCID
15	(F)	CHARACTER	2	CDIOLUA	OLU ADDRESS NOTE - THIS MAY BE 0 IN FORMAT 3 (WHERE THE ADDRESS IS LOCATED IN THE SESSION INITIATION CONTROL VECTOR) OR 4 (WHERE THE ADDRESS IS LOCATED IN THE NETWORK ADDRESS PAIR SESSION KEY)
17	(11)	CHARACTER	2	CDIDLUA	DLU ADDRESS (RESERVED FOR FORMATS 0, 2, AND 3) NOTE - THIS MAY BE ZERO IN FORMAT 4 (THE ADDRESS WILL BE LOCATED IN IN THE NETWORK ADDRESS PAIR SESSION KEY)
19	(13)	CHARACTER		CDIDQEND	END OF DQ BASE RU

FUNCTION IS TO PROVIDE A MAPPING FOR FORMAT 2 AND 3  
 CROSS DOMAIN INITIATE RU EXTENSION

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	CDINT	Non DQ remaining RU
0	(0)	BITSTRING	1	*	
		1... ....		CDIOTHER	0 = Origin is self, ILU = OLU 1 = Origin is other, ILU
		..111 111.		*	→ = OLU
		.... ...1		*	Reserved
1	(1)	BITSTRING	1	CDIXRFB	1 = XRF Backup session requested
		11.. ....		CDINOT	Notify flags
		..11 11..		*	Notify LU(S) in session with DLU CDIDNSU(00)- Do not send RELREQ CDINIFQ(10)- May send RELREQ
				*	Reserved



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
		.... ..11		CDIAVAIL	Notify capability on Resource Availability
		.... ..1.		*	Not used,available
		.... ...1		CDINCPA	1=Notification of controlling PLU availability requested 0=No notification requested
2	(2)	CHARACTER	8	CDIMODE	Mode Name
10	(A)	CHARACTER	2	CDIIDLUN	DLU Network name
10	(A)	CHARACTER	1	CDINMTYP	Resource type
11	(B)	UNSIGNED	1	CDINMLEN	Length of DLU name
12	(C)	CHARACTER	*	CDINAME	DLU Name

MAPPING FOR USER FIELD

0	(0)	STRUCTURE	1	CDIUSRFD	Location based after reserved fields
0	(0)	UNSIGNED	1	CDIUSRLN	Length of user field
1	(1)	CHARACTER	*	CDIUSERF	Actual User Data

MAPPING FOR ORIGIN LU NETWORK NAME (OLU)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	CDIOLUN	Location based after User Data
0	(0)	CHARACTER	1	CDIOLTYP	Resource type
1	(1)	UNSIGNED	1	CDIOLLEN	Length of symbolic name
2	(2)	CHARACTER	*	CDIOLNAM	Symbolic name of OLU

MAPPING FOR UNINTERPRETED DESTINATION LU NETWORK NAME

0	(0)	STRUCTURE	2	CDIUDLUN	Location based after OLU name
0	(0)	CHARACTER	1	CDIUDTYP	Resource type
1	(1)	UNSIGNED	1	CDIUDLEN	Length of symbolic name
2	(2)	CHARACTER	*	CDIUDNAM	Uninterpreted name of Destination LU (DLU)

FUNCTION IS TO PROVIDE MAPPING FOR THE CROSS DOMAIN INITIATE FORMAT 2 AND 3 RUS WHICH CONTAIN COS INFORMATION.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	9	CDICOSFD	Location based after DLU Uninterpreted name
0	(0)	BITSTRING	1	CDICOSOR	COS origin
		1... ....		CDICOSIL	0 = No COSNAME From ILU 1 = COSNAME From ILU
		..11. ....		CDICOSPK	00 = Reserved 01 = SSCP(DLU) Picks COSNAME (DLU = SLU) 10 = SSCP(OLU) Picked COSNAME (DLU = PLU) 11 = Reserved NOTE - Valid only if CDICOSIL = 0
1	(1)	CHARACTER	8	CDICOSNM	Not used, available COS NAME NOTE - Ignored if CDICOSIL = 0 and CDICOSPK = 01

FUNCTION IS TO PROVIDE AN OVERLAY FOR THE TYPE BYTE OF THE BASE CDINIT RU WHEN THE CDINIT IS NOT A DQ (IS A FMT 2 OR 3)

4	(4)	STRUCTURE	3	CDINODQ1	Overlay for NON DQ CDINIT
4	(4)	BITSTRING	1	CDITYPE	Type flags
		11.. ....		CDIQT	01 initiate only 10 queue only 11 init or queue
		..11. ....		*	Reserved
		.... 1...		CDINQNSI	Network qualified name support indicator 0 = Not supported 1 = Supported
		.... ..1.		*	Reserved
		.... ..1.		CDIPLU	0 = DLU is PLU 1 = OLU is PLU
		.... ...1		*	Reserved
5	(5)	BITSTRING	1	CDIQUECD	Queueing conditions for DLU
		1... ....		CDISCT	0 = Do not queue if session count exceeded 1 = Queue if session count exceeded
		..1.. ....		CDIENA	0 = Do not queue if not enabled 1 = Queue if not enabled
		..11 1...		*	Reserved
		.... ..11.		CDIHOW	How to queue request 01 = FIFO 10 = LIFO

RU

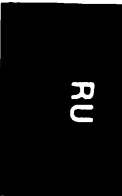
Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
		.... ...1		*	Reserved
6	(6)	BITSTRING	1	CDILSTAT	OLU Status
		1... ....		CDIXBSI	0 = OLU Does not support extended BIND RU 1 = OLU Supports extended BIND RU
		.1.. ....		CDIOLUAV	0 = LU Unavailable 1 = LU Available
		..11 ....		CDIOLST	LU Status - only for LU unavailable
		.... 1..		*	Reserved
		.... .1..		CDIBFSUP	1 = UNBIND and SESSION ENDED may be sent by LU or BF of LU (i.e. Network Session Outage Notification = NSON supported)
		.... ..11		CDILUPS	LU is PLU or SLU 01 LU is PLU 10 LU is SLU NOTE: this field may be dropped when V3R2 is the lowest level of VTAM support

MAPPING FOR THE RESPONSE DATA PORTION OF THE CROSS DOMAIN INITIATE RU - THE FOLLOWING FIELDS EXIST ONLY IF THE RH INDICATES A POSITIVE RESPONSE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	CDIRESP	
0	(0)	BITSTRING	1	*	Format byte
		1111 ....		CDIRFORM	Format field (same as request)
		.... 1111		*	Reserved
1	(1)	BITSTRING	1	*	Reserved
		11.. ....		*	Reserved
		..1. ....		CDIRNQNS	1 = Network qualified names supported, a BIND may contain NQNS
		...1 ....		*	Reserved
		.... 1111		CDIRDST	Status at SSCP of DLU
2	(2)	CHARACTER	2	CDIRDLNA	DLU Network Address
4	(4)	BITSTRING	1	CDIRDLUS	DLU Status
		1... ....		CDIRXBSI	1 = DLU supports Extended BIND
		.1.. ....		CDIRDLAV	1 = LU is available
		..11 ....		CDIRDLUV	LU status, meaningful only if LU is unavailable
		.... 1..		*	Reserved
		.... .1..		CDIRBFSP	1 = UNBIND and SESSION ENDED Notification (NSON) supported by LU or LU BF
		.... ..11		CDIRLUPS	LU = PLU/SLU
5	(5)	CHARACTER		CDIRSPND	END of Format 1 Response

FUNCTION IS TO PROVIDE MAPPING FOR ADDITIONAL FIELDS OF CD INITIATE FORMAT 2 OR 3 RESPONSE UNIT

0	(0)	STRUCTURE	17	CDIRCOSF	COS Origin
0	(0)	BITSTRING	1	CDIRCOSO	0 = COSNAME not received from ILU 1 = COSNAME From ILU
		1... ....		CDIRCOSI	CDIDPK(01) = SSCP(DLU) Picked COSNAME (DLU = SLU) CDIOPK(10) = SSCP(OLU) Picked COSNAME (DLU = PLU) NOTE: Valid only if CDIRCOSI = 0
		..11. ....		CDIRCOSP	Reserved
		...1 1111		*	Reserved
1	(1)	CHARACTER	8	CDIRCOSN	COS Name NOTE: ignored if CDIRCOSP = SSCP(DLU) picked COSNAME
9	(9)	CHARACTER	8	CDIRMODN	Logmode Name



## Constants

Len	Type	Value	Name	Description
CONSTANT FOR CDIPLU				
0	BIT	0	CDIPDLU	DLU IS PLU
0	BIT	1	CDIPOLU	OLU IS PLU
CONSTANTS FOR CDIQLU2				
0	BIT	00	CDILUP	DLU is PLU
0	BIT	01	CDILUS	DLU is SLU
CONSTANTS FOR CDILUPS AND CDIDLUPS				
0	BIT	01	CDILUIP	LU is PLU
0	BIT	10	CDILUIS	LU is SLU
CONSTANTS FOR CDIQT,CDIQQT				
0	BIT	00	CDIDQ	DQ
0	BIT	01	CDIINO	Initiate only
0	BIT	10	CDIQO	Queue only
0	BIT	11	CDIIQO	Initiate or queue
CONSTANTS FOR CDICOSPK AND CDIRCOSP				
0	BIT	01	CDIDPK	SSCP(DLU) Picks COSNAME
0	BIT	10	CDIOPK	SSCP(OLU) Picks COSNAME
CONSTANTS FOR CDIQRTRY - MEANINGFUL ONLY IF CDIQ = CDIDQ				
0	BIT	00	CDILOQ	Retry, leave on queue if not successful
0	BIT	01	CDIDLQO	Retry, do not leave on queue if not successful
0	BIT	10	CDIRFQ	Do not retry, remove from queue if not successful
CONSTANTS FOR CDIHOW, CDIQHOW				
0	BIT	01	CDIFIFO	FIFO
0	BIT	10	CDILIFO	LIFO
CONSTANTS FOR CDIQLST(MEANINGFUL ONLY IF CDIOLUA IS ZERO) AND FOR CDIRDLUV(MEANINGFUL ONLY IF CDIRDLAV IS ZERO)				
0	BIT	00	CDILUSSL	Session Limit exceeded
0	BIT	10	CDILUSDS	LU Disabled
CONSTANTS FOR CDINOTD				
0	BIT	00	CDIDNSU	Do not notify LUs in Session with DLU
0	BIT	10	CDINIFQ	Notify all LUs in session with DLU in CDINIT request queued
CONSTANT FOR RESOURCE TYPE - CDINMTYP, CDIOLTYP, CDIUDTYP				
1	HEX	F3	CDIF3	Logical Unit type
CONSTANT FOR CDIHDR				
3	HEX	818641	CDIHDRC	CROSS-DOMAIN INITIATE RU 81 = NETWORK SER- VICES, LOGICAL SERVICES 86 = SESSION SERVICES, CDRM 41 = CROSS DOMAIN INITIATE REQUEST
CONSTANTS FOR CDIFORM AND CDIRFORM				
0	BIT	0001	CDIFORM1	Format 1
0	BIT	0010	CDIFORM2	Format 2
0	BIT	0011	CDIFORM3	Format 3
0	BIT	0100	CDIFORM4	Format 4
CONSTANTS FOR RESPONSE DATA STATUS - CDIRDST				
0	BIT	0001	CDISUCCS	Initiate successful-proceed
0	BIT	0010	CDIQUED	Initiate successful-queued
0	BIT	0011	CDIDQSUC	Dequeued successfully

RU

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CDIAVAIL	1	02	3	CDIRMODN	9		2
CDIBFSUP	6	04	3	CDIRNQNS	1	20	3
CDICAT	1		3	CDIRSPND	5		2
CDICOSFD	0		1	CDIRXBSI	4	80	3
CDICOSIL	0	80	3	CDISCT	5	80	3
CDICOSNM	1		2	CDISST	0		3
CDICOSOR	0		2	CDITYPE	4		2
CDICOSPK	0	40	3	CDIUDELN	1		2
CDIDLUA	11		3	CDIUDELN	0		1
CDIDQEND	13		3	CDIUDELN	2		2
CDIDQM	4		2	CDIUDELN	0		2
CDIENA	5	40	3	CDIUSERF	1		2
CDIFORM	3	80	3	CDIUSRFD	0		1
CDIHDR	0		2	CDIUSRLN	0		2
CDIHOW	5	04	3	CDIUSRLN	6	80	3
CDIIDLUN	A		2	CDIXRFB	0	01	3
CDILSTAT	6		2	ISTCDIN	0		1
CDILUPS	6	02	3				
CDIMODE	2		2				
CDINAME	C		3				
CDINCPA	1	01	4				
CDINMLN	B		3				
CDINMTYP	A		3				
CDINODQ1	4		1				
CDINOT	1		2				
CDINOTD	1	80	3				
CDINQNSI	4	08	3				
CDINT	0		1				
CDIOLLEN	1		2				
CDIOLNAM	2		2				
CDIOLST	6	20	3				
CDIOLTYP	0		2				
CDIOLUA	F		3				
CDIOLUAV	6	40	3				
CDIOLUN	0		1				
CDIOTHER	0	80	3				
CDIPCID	7		3				
CDIPLU	4	02	3				
CDIQHOW	5	04	4				
CDIQLU	6	02	4				
CDIQLUA	6	40	4				
CDIQLU2	4	04	4				
CDIQQT	4	80	4				
CDIQQUEC	5		3				
CDIQRTRY	4	20	4				
CDIQSTAT	6		3				
CDIQT	4	80	3				
CDIQTYPE	4		3				
CDIQUECD	5		2				
CDIRBFSP	4	04	3				
CDIRCOSF	0		1				
CDIRCOSI	0	80	3				
CDIRCOSN	1		2				
CDIRCOSO	0		2				
CDIRCOSP	0	40	3				
CDIRDLAV	4	40	3				
CDIRDLNA	2		2				
CDIRDLUS	4		2				
CDIRDLUV	4	20	3				
CDIRDST	1	08	3				
CDIREQCD	2		3				
CDIRESP	0		1				
CDIRFORM	0	80	3				
CDIRLUPS	4	02	3				



## Cross-Domain Session Setup Failure RU (CDSF)

<b>Function:</b>	CDSF notifies the SSCP(SLU) that the LU-LU session initiation identified by the session key content field and the specified PCID for the initiation procedure has failed.
<b>RU Header:</b>	X'818645' (NS header)
<b>RU Type:</b>	FMD

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	19	ISTCDSF	CROSS-DOMAIN SESSION SET-UP FAILURE (CDESSSF) RU	
0	(0)	CHARACTER	16	CDSRU	SESSION SERVICES LENGTH PORTION	
0	(0)	CHARACTER	3	CDSHDR	COMMON HEADER FOR NETWORK SERVICES RUS	
0	(0)	CHARACTER	1	CDSST	LOGICAL/PHYSICAL RU TYPE	
1	(1)	CHARACTER	1	CDSCAT	NS SUBTYPE-CDRM INDICATOR	
2	(2)	CHARACTER	1	CDSREQ	REQUEST CODE	
3	(3)	CHARACTER	8	CDSPCID	PROCEDURE CORRELATION ID (SEE PCID)	
11	(B)	CHARACTER	4	CDSENSE	SENSE DATA FROM EXCEPTION RESPONSE	
15	(F)	CHARACTER	1	CDSREAS	REASON	
		1... ....		CDSPLUE	ERROR AT PLU	
		.1.. ....		CDSSLUE	ERROR AT SLU	
		..1. ....		CDSPLUR	REJECT AT PLU	
		...1 ....		CDSSLUR	REJECT AT SLU	
		.... 1111		CDSRSV1	NOT USED - AVAILABLE	
16	(10)	CHARACTER	1	CDSKEYTP	SESSION KEY TYPE	
17	(11)	CHARACTER	2	CDSKEY	SESSION KEY	
17	(11)	CHARACTER	1	CDSLU1TP	RESOURCE TYPE	
18	(12)	UNSIGNED	1	CDSLU1LN	LU1 (PLU) LENGTH	
19	(13)	CHARACTER	*	CDSLU1NM	LU1 (PLU) NAME	

MAPPING FOR LU2 (SLU) NETWORK NAME OF PAIR

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	CDSLU2	LOCATION BASED ON ADDR(CDSLU1LN) + CDSLU1LN	
0	(0)	CHARACTER	1	CDSLU2TP	RESOURCE TYPE	
1	(1)	UNSIGNED	1	CDSLU2LN	LU2 (SLU) LENGTH	
2	(2)	CHARACTER	*	CDSLU2NM	LU2 (SLU) NAME	

MAPPING FOR SESSION KEY-05

17	(11)	STRUCTURE	8	CDSSKEY5		
17	(11)	CHARACTER	8	CDSRID	PCID SESSION KEY	

MAPPING FOR SESSION KEY-07

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
17	(11)	STRUCTURE	4	CDSSKEY		
17	(11)	CHARACTER	2	CDSPLUNA	PLU NETWORK ADDRESS	
19	(13)	CHARACTER	2	CDSSLUNA	SLU NETWORK ADDRESS	



### Constants

Len	Type	Value	Name	Description
CDESSSF NOW SUPPORTS NETWORK QUALIFIED ADDRESS PAIR SESSION KEY - X'15' MAPPED BY ISTAPSK AND SHOULD BE BASED ON ADDR(CDSKEYTP). THIS MAPPING CONTAINS THE SESSION KEY. CONSTANT FOR CDSHDR - CROSS DOMAIN SESSION SETUP FAIL				
3	HEX	818645	CDSHDRC	CROSS-DOMAIN SESSION SETUP FAILURE RU 81 - NETWORK SERVICES, LOGICAL SERVICES 86 - SESSION SERVICES, CDRM 85 - CROSS DOMAIN SESSION SETUP FAILURE
CONSTANT FOR CDSKEYTP				
1	HEX	05	CDSKEY5	PCID SESSION KEY
1	HEX	06	CDSKEY6	PAIRED NETWORK NAMES
1	HEX	07	CDSKEY7	PAIRED NETWORK ADDRESS
CONSTANT FOR SESSION KEY 15 INCLUDED IN ISTAPSK. CONSTANT FOR CDSL1TP AND CDSL2TP				
1	HEX	F3	CDSF3	LOGICAL UNIT

### Cross Reference

Name	Hex Offset	Hex Value	Level
CDSCAT	1		4
CDSHDR	0		3
CDSKEY	11		2
CDSKEYTP	10		2
CDSL1LN	12		3
CDSL1NM	13		3
CDSL1TP	11		3
CDSL2	0		1
CDSL2LN	1		2
CDSL2NM	2		2
CDSL2TP	0		2
CDSPCID	3		3
CDSPLUE	F	80	4
CDSPLUNA	11		2
CDSPLUR	F	20	4
CDSREAS	F		3
CDSREQ	2		4
CDSRID	11		2
CDSRSV1	F	08	4
CDSRU	0		2
CDSSENSE	B		3
CDSSKEY	11		1
CDSSKEY5	11		1
CDSSLUE	F	40	4
CDSSLUNA	13		2
CDSSLUR	F	10	4
CDSSST	0		4
ISTCDSF	0		1



## Cross-Domain Terminate RU (CDTRM)

<b>Function:</b>	A CDTRM RU from the SSCP(OLU) requests that the SSCP(DLU) assist in the termination of the cross-domain LU-LU session identified by the session key content field and the type byte of the RU. Each SSCP executes that portion of termination processing that relates to the LU in its domain.
<b>RU Header:</b>	X'818643' (NS header)
<b>RU Type:</b>	FMD

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	16	ISTCDTRM		
0	(0)	CHARACTER	3	CDTHDR	Terminate other RU header	
3	(3)	BITSTRING	1	CDTFMTFD	Format field	
		1111 ....		CDTFMT	Ru format	
		.... 1111		*	Reserved	
4	(4)	BITSTRING	1	CDTSPEC	Specifications for terminate request	
		11.. ....		CDTSOPE	Scope of termination request. What sessions are affected. Possible values: CDTACTPD (00) - Active and pending sessions CDTALL (01) - All sessions CDTQUED (10) - Queued sessions CDTQUEPD (11) - Queued and pending sessions	
		..1. ....		CDTORFOR	Orderly or forced termination flavor Reserved if CDTCLNUP = 1. Possible values: CDTORDLY (1) - Orderly terminate CDTFORCE (0) - Forced terminate	
		...1 ....		CDTLAST2	There will be no more sessions for LU2(DLU) (1) - Last session for the DLU	
		.... 1...		*	RESERVED	
		.... .11.		CDTPOLAR	LU polarity. Indicates what sessions are effected.(retired) Possible values: CDTL2PLU (00) - LU2 is PLU, LU1 is SLU CDTL2SLU (01) - LU2 is SLU, LU1 is PLU CDTL2LU (10) - LU2 is PLU or SLU, LU2 is PLU or SLU (LUs are NON-POLAR) RESERVED (11) - NOT AVAILABLE	
5	(5)	CHARACTER	8	CDTCLNUP	Cleanup flavor of terminate (1) - Cleanup terminate	
13	(D)	BITSTRING	1	CDTCORRL	Termination Correlator	
		1... ....		CDTREASN	Termination reason	
		.1.. ....		CDTORIGN	Termination originator Possible values: CDTMANGR (1) - Network manager CDTUSER (0) - Network user	
		..1. ....		CDTTTYPE	Termination type Possible values: CDTABNOR (1) - Abnormal CDTNRMAL (0) - Normal For forced and cleanup flavor termination, CDTORIGN and CDTTTYPE is used by LUS to determine how to notify the PLU application of session termination and determines the correct return code to be used when posting the application's I/O when a session terminates.	
		...1 ....		CDTRCREQ	Reason code required (1) - Reason code is required	
		.... 1111		CDTFAILT	Failure type Possible values: CDTSETUP (0) - Setup failure CDTTKDOWN (1) - Takedown failure	
		.... 1...		CDTRSNC	Reason code	
		.... .1..		CDTERPLU	Error at PLU (1) - CINIT or CTERM error in reaching the PLU.	
		.... .1..		CDTERSLU	Error at SLU (1) - BIND or UNBIND error in reaching the SLU.	
		.... ..1.		CDTRJPLU	Reject at PLU (1) - Setup or Takedown reject at the PLU.	
		.... ..1		CDTRJSLU	Reject at SLU (1) - Setup reject at the SLU	
14	(E)	CHARACTER	2	*	RESERVED	
16	(10)	CHARACTER	*	CDTSKEY	Imbedded Session key	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	1	CDTKEY	Mapping to the key field. NOTE: Used only to determine what key came on the Cdterm ru.	
0	(0)	CHARACTER	1	CDTKEYID	Session key identifier	
1	(1)	CHARACTER	*	CDTKEYDT	Session key data which may include a length field	
0	(0)	STRUCTURE	2	CDTREST	Rest of RU (After the imbedded session key)	
0	(0)	CHARACTER	2	*	RESERVED	
2	(2)	CHARACTER	*	CDTVECTR	Appended vector	
2	(2)	CHARACTER	*	CDTVECDT	Vector data	

## Constants

Len	Type	Value	Name	Description
Constant for the Terminate Other header (CDTHDR)				
3	HEX	818643	CDTHDRC	
Constant for the Terminate Other format (CDTFMT)				
0	BIT	0000	CDTFMT0	Format 0
Constants for the termination scope (CDTSCOPE)				
0	BIT	00	CDTACTPD	Active and pending sessions
0	BIT	01	CDTALL	All sessions
0	BIT	10	CDTQUED	Queued sessions
0	BIT	11	CDTQUEPD	Queued and pending sessions
Constants for the termination flavor (CDTORFOR)				
0	BIT	1	CDTORDLY	Orderly termination request
0	BIT	0	CDTFORCE	Forced termination request
Constants for the termination polarity (CDTPOLAR)				
0	BIT	00	CDTL2PLU	LU2 is the PLU
0	BIT	01	CDTL2SLU	LU2 is the SLU
0	BIT	10	CDTL2LU	LU2 is the PLU or the SLU Polarity does not matter
Constants for the termination originator (CDTORGIN)				
0	BIT	1	CDTMANGR	Network manager
0	BIT	0	CDTUSER	Network user
Constants for the termination type (CDTTTYPE)				
0	BIT	1	CDTABNOR	Abnormal
0	BIT	0	CDTNRMAL	Normal
Constants for the failure type (CDTFAULT)				
0	BIT	0	CDTSETUP	Session setup failure
0	BIT	1	CDTTKDOWN	Session takedown failure

RU

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CDTCLNUP	4	01	3	CDTRCREQ	D	20	3
CDTCORRL	5		2	CDTREASN	D		2
CDTERPLU	D	08	4	CDTREST	0		1
CDTERSLU	D	04	4	CDTRJPLU	D	02	4
CDTFAULT	D	10	3	CDTRJSLU	D	01	4
CDTFMT	3	80	3	CDTRSNCD	D	08	3
CDTFMTFD	3		2	CDTSCOPE	4	80	3
CDTHDR	0		2	CDTSKEY	10		2
CDTKEY	0		1	CDTSPEC	4		2
CDTKEYDT	1		2	CDTTTYPE	D	40	3
CDTKEYID	0		2	CDTVECDT	2		3
CDTLAST2	4	10	3	CDTVECTR	2		2
CDTORFOR	4	20	3	ISTCDTRM	0		1
CDTORIGN	D	80	3				
CDTPOLAR	4	04	3				

## Cleanup Session RU (CLNUP)

<b>Function:</b>	The SSCP sends CLNUP to the SLU (in a subarea node only) to request that the SLU attempt to deactivate the session for the specified (PLU,SLU) network address pair.
<b>RU Header:</b>	X'810629' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	9	ISTCLNUP	
0	(0)	CHARACTER	3	CLNHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	CLNSST	LOGICAL   PHYSICAL RU TYPE
1	(1)	CHARACTER	1	CLNCAT	NS SUBTYPE-CDRM INDICATOR
2	(2)	CHARACTER	1	CLNREQ	REQUEST CODE
		1111 ....		CLNFORM	FORMAT
		.... 1111		CLNRSV1	NOT USED
4	(4)	CHARACTER	1	CLNTYPE	TYPE
5	(5)	CHARACTER	1	CLNREAS	REASON
6	(6)	CHARACTER	1	CLNKEYTP	SESSION KEY TYPE
7	(7)	CHARACTER	2	CLNKEY	SESSION KEY
7	(7)	CHARACTER	1	CLNLU1TP	PLU RESOURCE TYPE
8	(8)	UNSIGNED	1	CLNLU1LN	PLU NETWORK NAME LENGTH
9	(9)	CHARACTER	*	CLNLU1NM	PLU NETWORK NAME

NOTE: THE ADDRESS PAIR SESSION KEY (ISTAPSK) IS BASED ON THE ADDRESS OF CLNKEYTP SO THAT APSKEY OVERLAYS CLNKEYTP.  
MAPPING FOR SLU NETWORK NAME

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	CLNLU2	
0	(0)	CHARACTER	1	CLNLU2TP	SLU RESOURCE TYPE
1	(1)	UNSIGNED	1	CLNLU2LN	SLU NETWORK NAME LENGTH
2	(2)	CHARACTER	*	CLNLU2NM	SLU NETWORK NAME

MAPPING FOR SESSION KEY-07

7	(7)	STRUCTURE	4	CLNSKEY	
7	(7)	CHARACTER	2	CLNPLUNA	PLU NETWORK ADDRESS
9	(9)	CHARACTER	2	CLNSLUNA	SLU NETWORK ADDRESS

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR CLNHDR - CLEANUP				
3	HEX	810629	CLNHDR	81 - NETWORK SERVICES, LOGICAL SERVICES 06 - SESSION SERVICES 29 - CLEANUP
CONSTANT FOR CLNFORM				
0	BIT	0000	CLNFORM0	FORMAT-0
CONSTANT FOR CLNREAS				
1	HEX	03	CLNUNREC	CODE USED TO SHIELD THE USER AND OR APPLICATIONS FROM VARIOUS TYPES OF CLEANUP REASON CODES
1	HEX	C0	CLNLOST	CODE USED TO DRIVE LOSTERM EXIT WHEN NO NSEXIT EXISTS
CONSTANT FOR CLNKEYTP				

RU

Len	Type	Value	Name	Description
1	HEX	06	CLNKEY6	PAIRED NETWORK NAMES
1	HEX	07	CLNKEY7	PAIRED NETWORK ADDRESSES
CONSTANT FOR CLNLU1TP AND CLNLU2TP				
1	HEX	F3	CLNF3	LOGICAL UNIT

### Cross Reference

Name	Hex Offset	Hex Value	Level
CLNCAT	1		3
CLNFORM	3	80	2
CLNHDR	0		2
CLNKEY	7		2
CLNKEYTP	6		2
CLNLU1LN	8		3
CLNLU1NM	9		3
CLNLU1TP	7		3
CLNLU2	0		1
CLNLU2LN	1		2
CLNLU2NM	2		2
CLNLU2TP	0		2
CLNPLUNA	7		2
CLNREAS	5		2
CLNREQ	2		3
CLNRSV1	3	08	2
CLNSKEY	7		1
CLNSLUNA	9		2
CLNSST	0		3
CLNTYPE	4		2
ISTCLNUP	0		1



## CNM Control RU (CNMRU)

<b>Function:</b>	CNMRU serves as an interface for requests or replies between VTAM and the CNM application.
<b>RU Header:</b>	X'810814' (NS header)
<b>RU Type:</b>	FMD

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	9	ISTCNMRU	CNM REQUEST CODE	
0	(0)	CHARACTER	3	CNMNSHDR	REQUEST CODE HEADER	
3	(3)	CHARACTER	5	CNMHDR	STANDARD CNM HEADER	
3	(3)	CHARACTER	2	CNMCNMID	CNM ID - SEE CNMCIDD	
5	(5)	BITSTRING	2	CNMCORR	CORRELATOR	
		11.. ....		*	RESERVED	
		..11 ....		CNMCIDD	CNM ID DESCRIPTOR - DEFINES CONTENTS OF CNMID	
5	(5)	BITSTRING	1	CNMPRID	PROCEDURE RELATION IDENTIFIER	
7	(7)	BITSTRING	1	CNMFT	FLAG BYTE	
		1... ....		CNMSOL	0 = UNSOLICITED REQUEST 1 = REPLY REQUEST	
		..1. ....		CNMLAST	0 = LAST REQUEST 1 = NOT LAST REQUEST	
		..11 1111		CNMFTYP	TYPE CODE (NOT USED HERE)	
8	(8)	UNSIGNED	1	CNMTYPE	SUBTYPE CODE	
9	(9)	CHARACTER	*	CNMDATA	CNM DATA	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
9	(9)	STRUCTURE	12	CNMFILTR	CNM DATA CONTAINING SESSION FILTERED COUNTS	
9	(9)	SIGNED	4	CNMFSHWM	HIGH WATER MARK OF THE NUMBER OF SESSIONS FILTERED SINCE LAST QUERY	
13	(D)	SIGNED	4	CNMFTCNT	TOTAL COUNT OF THE NUMBER OF SESSIONS FILTERED SINCE LAST QUERY	
17	(11)	SIGNED	4	CNMFCCNT	CURRENT COUNT OF THE NUMBER OF SESSIONS BEING FILTERED	
9	(9)	STRUCTURE	8	CNMDRSC	CNM DATA CONTAINING RESOURCE NAME (REQUIRED FOR SUBTYPE CODE 05, 06, 11, AND 1C)	
9	(9)	CHARACTER	8	CNMRSCNM	RESOURCE NAME	
17	(11)	CHARACTER	*	CNMDDATA	DATA (SUCH AS DO_ROUTE_TEST)	

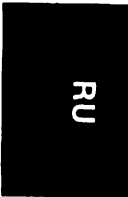
Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
17	(11)	STRUCTURE	1	CNMFLGB	CNM DATA CONTAINING FLAGS (MAY BE PRESENT ON SUBTYPE 05 REQUESTS)	
17	(11)	BITSTRING	1	CNMFLGBT	FLAG BYTE	
		1... ....		CNMFQREQ	1 = QUEUE THE TRACE REQUEST IF RESOURCE IS UNDEFINED	
		..11 1111		*	RESERVED	
18	(12)	CHARACTER		CNMFLGBE	NETWORK NAME	
9	(9)	STRUCTURE	2	CNMSEQN	CNM DATA CONTAINING SAW BUFFER SEQUENCE NUMBER FOR SUBTYPE CODE X'15'	
9	(9)	SIGNED	2	CNMSEQNO	SAW BUFFER SEQUENCE NUMBER	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
9	(9)	STRUCTURE	4	CNMDSA	CNM DATA FOR SUBTYPE CODE '18' ALSO USED FOR CODE '17'	
9	(9)	UNSIGNED	1	CNMDSNUM	NUMBER OF BUFFERS TO BE ALLOCATED	
10	(A)	UNSIGNED	2	CNMDSSIZ	LENGTH OF BUFFER	
12	(C)	BITSTRING	1	*	RESERVED	

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
VALUES FOR SAW LEVEL (CNMDSLVL AND CNMCHLVL)					
0	(0)	STRUCTURE	8	CNMLEVEL	IF ALL BITS ARE 0, THE LEVEL IS 1
		1... ....		CNMLVL02	REPORT COMBINED INIT PEND/INIT FAIL
		.1.. ....		CNMLVLBP	REPORT BIND PENDING EVENT
		..11 1111		CNMLVLXX	RESERVED

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR REQUEST CODE FIELD (CNMNSHDR)				
3	HEX	810814	CNMHDRC	CNM RU HEADER CODE
VALUES FOR CNM ID DESCRIPTOR (CNMCIDD)				
0	BIT	00	CNMCLA	CNM ID IS A LOCAL ADDRESS
0	BIT	01	CNMCNA	CNM ID IS NETWORK ADDRESS
CONSTANTS FOR SUBTYPE CODES (CNMTYPE)				
NOTES: 4TH CHARACTER OF NAME "T" STANDS FOR "TYPE"				
5TH CHARACTER - "B" = BEGIN (START)				
"E" = END (STOP)				
1	HEX	02	CNMTESAW	STOP SAW PROCESSING
1	HEX	03	CNMTAPBF	ALLOCATE PIU TRACE BUFFERS
1	HEX	04	CNMTDPBF	DEALLOCATE PIU TRACE BUFFERS
1	HEX	05	CNMTBPIU	START PIU TRACE FOR A NAMED RESOURCE
1	HEX	06	CNMTAPIU	STOP PIU TRACE FOR A NAMED RESOURCE
1	HEX	07	CNMTBTLU	START TRACE FOR ALL LU SESSIONS
1	HEX	08	CNMTETLU	STOP TRACE FOR ALL LU SESSIONS
1	HEX	09	CNMTBCDR	START TRACE FOR ALL CDRM SESSIONS
1	HEX	0A	CNMTBCDR	STOP TRACE FOR ALL CDRM SESSIONS
1	HEX	0B	CNMTBTPU	START TRACE FOR ALL PU SESSIONS
1	HEX	0C	CNMTETPU	STOP TRACE FOR ALL PU SESSIONS
1	HEX	0D	CNMTSPIU	SEND PARTIAL PIU TRACE DATA
1	HEX	10	CNMTSSAW	SEND PARTIAL SAW DATA
1	HEX	11	CNMTRTST	DO_ROUTE_TEST REQUEST
1	HEX	12	CNMTTRPLY	INITIAL ROUTE STATUS (INITIAL REPLY TO DO_ROUTE_TEST)
1	HEX	13	CNMTRFIN	FINAL ROUTE STATUS (ER_TESTED RU GENERATED IN RESPONSE TO DO_ROUTE_TEST)
1	HEX	14	CNMTSUM	RESUME SCANNING
1	HEX	15	CNMTSBFN	SAW BUFFER SEQUENCE NUMBER (REPLY TO SEND_PART_SAWBUF REQUEST '10'X)
1	HEX	16	CNMTQSBF	QUEUE SAW INUSE BUFFER TO SAW OUTPUT QUEUE
1	HEX	17	CNMTFREE	FREE SAW BUFFERS
1	HEX	18	CNMTBSAW	START SAW PROCESSING
1	HEX	1C	CNMTCPRD	CANCEL PRID REQUEST
1	HEX	1D	CNMQFILT	QUERY SESSIONS FILTERED
1	HEX	1E	CNMSFILT	REPLY TO QUERY SESSIONS FILTERED



## Cross Reference

Name	Hex Offset	Hex Value	Level
CNMCIDD	5	20	4
CNMCNMID	3		3
CNMCORR	5		3
CNMDDATA	9		2
CNMDDATA	11		2
CNMDRSC	9		1
CNMDSAW	9		1
CNMDSNUM	9		2
CNMDSSIZ	A		2
CNMFCCNT	11		2
CNMFILTR	9		1
CNMFLGB	11		1
CNMFLGBE	12		2
CNMFLGBT	11		2
CNMFQREQ	11	80	3
CNMFSHWM	9		2
CNMFT	7		3
CNMFTCNT	D		2
CNMHDR	3		2
CNMLAST	7	40	4
CNMLEVEL	0		1
CNMLVLBP	0	40	2
CNMLVLXX	0	20	2
CNMLVL02	0	80	2
CNMNSHDR	0		2
CNMPRID	5		4
CNMRSCNM	9		2
CNMSEQN	9		1
CNMSEQNO	9		2
CNMSOL	7	80	4
CNMTTY	7	20	4
CNMTYPE	8		2
ISTCNMRU	0		1

RU



## Connect-Out RU (CNTRU)

<b>Function:</b>	CNTRU requests the PU to initiate a connect-out procedure on the specified link.
<b>RU Header:</b>	X'01020E' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	9	ISTCNTRU		
0	(0)	CHARACTER	3	CNTNSHDR	COMMON HEADER FOR NETWORK SERVICES	
3	(3)	CHARACTER	2	CNTNAD	NETWORK ADDRESS OF LINK	
3	(3)	SIGNED	2	CNTELEM	ELEMENT ADDRESS OF LINK FOR ENA CAPABLE NODES	
5	(5)	CHARACTER	1	CNTLKSTA	POINTER TO LINK STATION	
6	(6)	CHARACTER	1	CNTFMTPP	FORMAT AND DIAL TYPE	
		1... ....		CNTFMT	FORMAT BIT	
		.11. ....		CNTTYPE	CONNECT OUT FEATURE	
		...1 1111		CNTRSV01	RESERVED - NOT AVAILABLE	
7	(7)	UNSIGNED	1	CNTRETRY	DIAL RETRY LIMIT	
8	(8)	UNSIGNED	1	CNTCOUNT	NUMBER OF DIAL DIGITS OR ZERO IF DIRECT CALL X.21 SWITCHED LINK	
9	(9)	CHARACTER	*	CNTPHONE	PHONE NUMBER IN EBCDIC CHARACTER FORMAT OR UNUSED IF DIRECT CALL X.21 SWITCHED LINK	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	3	CNTIDN	ID NUMBER FIELD	
		1111 ....		*	RESERVED, NOT AVAILABLE	
0	(0)	BITSTRING	2	CNTIDNUM	ID NUMBER. WHEN USED WITH BLOCK NUMBER, MAY UNIQUELY IDENTIFY A SPECIFIC LINK CONNECTION	

RU

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR CNTNSHDR				
3	HEX	01020E	CNTHDRC	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 0E-REQUEST CODE
CONSTANT FOR CNTFMT				
0	BIT	0	CNTFMT0	FORMAT 0
CONSTANT FOR CNTRSV01				
0	BIT	00000	CNTRSV1C	RESERVED - NOT AVAILABLE
CONSTANTS FOR CNTTYPE				
0	BIT	00	CNTAUTO	AUTO DIAL
0	BIT	01	CNTRSRV	RESERVED - NOT AVAILABLE
0	BIT	10	CNTMANUL	MANUAL DIAL
0	BIT	11	CNTDCALL	DIRECT CALL ONLY

**Cross Reference**

Name	Hex Offset	Hex Value	Level
CNTCOUNT	8		2
CNTELEM	3		3
CNTFMT	6	80	3
CNTFMTPP	6		2
CNTIDN	0		1
CNTIDNUM	0		2
CNTLKSTA	5		2
CNTNAD	3		2
CNTNSHDR	0		2
CNTPHONE	9		2
CNTRETRY	7		2
CNTRSV01	6	10	3
CNTTYPE	6	40	3
ISTCNTRU	0		1

RU

## Connect AM Request/Response Unit (CONRU)

<b>Function:</b>	CONRU requests that physical unit services initiate a connect procedure for the specified connection element.
<b>RU Header:</b>	X'4102FF12' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTCONRU	
0	(0)	CHARACTER	4	CONHDR	AMRU HEADER
4	(4)	SIGNED	2	CONCELEM	CONNECTION ELEMENT ADDRESS
6	(6)	CHARACTER	8	CONGPNAM	LINE GROUP NAME

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR CONHDR				
4	HEX	4102FF12	CONNECT	



## Cross-Domain Initiate-Other RU (CRDIO)

<b>Function:</b>	A CRDIO RU from the SSCP(ILU) requests that a session be initiated between the two LUs named in the RU. The CRDIO request simply transports an initiate-other from the SSCP(ILU) (a third party SSCP in this case) to the SSCP(OLU).
<b>RU Header:</b>	X'818640' (NS header)
<b>RU Type:</b>	FMD

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	27	ISTCRDIO	INIT OTHER CD RU
0	(0)	CHARACTER	3	CRDHDR	Common header for Network Services RUS
0	(0)	CHARACTER	1	CRDSST	Logical/Physical RU type
1	(1)	CHARACTER	1	CRDCAT	NS subtype CDRM indicator
2	(2)	CHARACTER	1	CRDREQCD	Request code
3	(3)	CHARACTER	1	*	Format
		1111 ....		CRDFORM	Format indicator
		.... 1111		*	Reserved
4	(4)	BITSTRING	1	CRDTYPE	Type
		11.. ....		CRDREQTP	Request type: CRDINO (01) - Initiate only CRDQO (10) - Queue only CRDIOQ (11) - Init or queue
		..11 11..		*	Reserved
		.... ..1.		CRDPLU	CRDPLUL1 (0) - LU1 is PLU CRDPLUL2 (1) - LU2 is PLU
		.... ...1		*	Reserved
5	(5)	BITSTRING	1	CRDQUE1	Queuing conditions for LU1
		1... ....		CRDSCT1	(0) - Do not queue if session count exceeded (1) - Queue if session count exceeded
		.1.. ....		CRDENA1	(0) - Do not queue if not enabled (1) - Queue if not enabled
		..11 1...		*	Reserved
		.... ..11.		CRDQPOS1	How to queue request on SIB CRDFIFO (01) - Queue in FIFO CRDLIFO (10) - Queue in LIFO
		.... ...1		*	Reserved
6	(6)	BITSTRING	1	CRDQUE2	Queuing conditions for LU2
		1... ....		CRDSCT2	(0) - Do not queue if session count exceeded (1) - Queue if session count exceeded
		.1.. ....		CRDENA2	(0) - Do not queue if not enabled (1) - Queue if not enabled
		..11 1...		*	Reserved
		.... ..11.		CRDQPOS2	How to queue request on SIB CRDFIFO (01) - Queue in FIFO CRDLIFO (10) - Queue in LIFO
		.... ...1		*	Reserved
7	(7)	CHARACTER	8	CRDPCID	Procedure Correlation Identifier
15	(F)	BITSTRING	1	CRDMFLAG	Miscellaneous flags
		1111 111.		*	Reserved
		.... ...1		CRDBCKUP	(0) - Session request not for XRF backup session (1) - XRF backup session requested
16	(10)	BITSTRING	1	CRDNOT	Notify Flags
		11.. ....		CRDNOTL1	Whether to send RELREQ NOTIFY to LUs in session with LU1 CRDNRR (00) - No RELREQ CRDRRR (10) - Send RELREQ if request is queued
		..11 ....		CRDNOTL2	Whether to send RELREQ NOTIFY to LUs in session with LU2 CRDNRR (00) - No RELREQ CRDRRR (10) - Send RELREQ if request is queued
		.... 1...		*	Reserved
		.... ..1.		CRDNOTSS	(0) - Do not send NOTIFY to ILU when session is setup (1) - Send NOTIFY (3) to ILU when session is setup
		.... ...11		*	Reserved
17	(11)	CHARACTER	8	CRDMODE	Logmode name
25	(19)	CHARACTER	2	CRDLU1	LU1 Network name
25	(19)	CHARACTER	1	CRDL1TYP	Resource type
26	(1A)	UNSIGNED	1	CRDL1LEN	Length of LU1 symbolic name
27	(1B)	CHARACTER	*	CRDL1NAM	LU1 symbolic name

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
LU2 Network Name Mapping					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	CRDLU2	Location of LU2 name
0	(0)	CHARACTER	1	CRDL2TYP	Resource type
1	(1)	UNSIGNED	1	CRDL2LEN	Length of LU2 symbolic name
2	(2)	CHARACTER	*	CRDL2NAM	LU2 symbolic name

Reserved Fields Mapping					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	CRDRSVD	Location of reserved fields
0	(0)	CHARACTER	2	*	Reserved fields

User Field Mapping

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	CRDUSRFD	Location of user fields
0	(0)	UNSIGNED	1	CRDUSRLN	Length of user field
1	(1)	CHARACTER	*	CRDUSERF	User field data

The following mapping is for the extension required by Format 2 and Format 3 Initiate Other Cross-Domain RUs.

NOTE - At present, COS names are not included in INIT OTHER CD RUs, therefore the following fields are reserved.

0	(0)	STRUCTURE	9	CRDCOSFD	COS Name Field
0	(0)	BITSTRING	1	CRDCOSIN	COS name field initialization
		1... ..		CRDCOSIL	(0) - ILU did not specify COS name (1) - ILU did specify COS name
		.111 1111		*	Reserved
1	(1)	CHARACTER	8	CRDCOSNM	COS name (Reserved if CRDCOSIL is zero) NOTE - End of Format 2, Format 3 continues below. NOTE - Format 2 is not supported at this time, but Format 3 is

The following mapping is for the extension required by Format 3 Initiate Other Cross-Domain RUs. These RUs contain information for Cross-Network session initiation.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	32	CRDNETXT	Network extension
0	(0)	CHARACTER	8	CRDNETIL	Network ID of subnetwork where the ILU is located
8	(8)	CHARACTER	8	CRDNETNT	Network ID of subnetwork where the following COS name is known
16	(10)	CHARACTER	8	CRDNETCS	Translated COS name as known in the above network
24	(18)	CHARACTER	8	CRDNETMD	Mode name as known in the network of the target LU
32	(20)	CHARACTER	*	CRDNETVC	Two Resource Identifier Control Vectors (x'19'). One vector for LU1 and one vector for LU2

The following mapping is for the Initiate Other Cross-Domain Response RU.

NOTE - Regardless of the Format of the Initiate Other CD request, the response will always be Format 0.

0	(0)	STRUCTURE	4	CRDRESP	INIT OTHER CD Response
0	(0)	BITSTRING	1	*	Format
		1111 ....		CRDRFORM	Format indicator (always zero)
		.... 1111		*	Reserved
1	(1)	BITSTRING	1	CRDRPROC	Procedure status
		1111 ....		CRDR1ST	Status of SSCP(LU1) CRDRPRO (0001) - Initiate successful, proceed CRDRQUE (0010) - Initiate successful, queued

RU

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... 1111		CRDR2ST	Status of SSCP(LU2) CRDRPRO (0001) - Initiate successful, proceed CRDRQUE (0010) - Initiate successful, queued
2	(2)	BITSTRING 1... .... .1.. .... ..11 ....	1	CRDRLU1 * CRDR1AVL CRDR1SES	LU1 Status Reserved (0) - LU1 is unavailable (1) - LU1 is available LU1 session status (reserved if LU1 is available ) CRDREXC (00) - LU session limit exceeded CRDRDIS (10) - LU disabled
		.... 11.. .... ..11		* CRDR1PLU	Reserved CRDRPLU (01) - LU is PLU CRDRSLU (10) - LU is SLU
3	(3)	BITSTRING 1... .... .1.. .... ..11 ....	1	CRDRLU2 * CRDR2AVL CRDR2SES	LU2 Status Reserved (0) - LU2 is unavailable (1) - LU2 is available LU2 session status (reserved if LU2 is available) CRDREXC (00) - LU session limit exceeded CRDRDIS (10) - LU disabled
		.... 11.. .... ..11		* CRDR2PLU	Reserved CRDRPLU (01) - LU is PLU CRDRSLU (10) - LU is SLU

**Constants**

Len	Type	Value	Name	Description
Constant for Common Header - CRDHDR				
3	HEX	818640	CRDHDC	Initiate Other CD RU 81 = Network Services, Logical Services 86 = Session Services, CDRM 40 = Initiate Other Cross-Domain Request
Constants for Format Indicator - CRDFORM				
0	BIT	0000	CRDFORM0	Format-0
0	BIT	0010	CRDFORM2	Format-2
0	BIT	0011	CRDFORM3	Format-3
Constants for LU Specification - CRDPLU				
0	BIT	0	CRDPLUL1	LU1 is PLU
0	BIT	1	CRDPLUL2	LU2 is PLU
Constants for Request Type - CRDREQTP				
0	BIT	01	CRDINO	Initiate only
0	BIT	10	CRDQO	Queue only
0	BIT	11	CRDIOQ	Initiate or queue
Constants for Queuing Request on SIB - CRDQPOS1 and CRDQPOS2				
0	BIT	01	CRDFIFO	FIFO
0	BIT	10	CRDLIFO	LIFO
Constants for RELREQ NOTIFY - CRDNOTL1 AND IOCNOTL2				
0	BIT	00	CRDNRR	Do not NOTIFY LU(s) in session with the specified LU, no RELREQ required
0	BIT	10	CRDRRR	NOTIFY the LU(s) in session with the specified LU if request is queued, RELREQ required
Constant for Resource Type - CRDL1TYP and CRDL2TYP				
1	HEX	F3	CRDTYPF3	Logical unit resource type
Constants for SSCP Status - CRDR1ST AND CRDR2ST				
0	BIT	0001	CRDRPRO	Initiate successful, proceed
0	BIT	0010	CRDRQUE	Initiate successful, queued
Constants for LU Status - CRDR1SES AND CRDR2SES				
0	BIT	00	CRDREXC	LU session limit exceeded
0	BIT	10	CRDRDIS	LU disabled
Constants for LU Specification - CRDR1PLU and CRDR2PLU				
0	BIT	01	CRDRPLU	LU is PLU

RU

Len	Type	Value	Name	Description
0	BIT	10	CRDRSLU	LU is SLU

### Cross Reference

Name	Hex Offset	Hex Value	Level
CRDBCKUP	F	01	3
CRDCAT	1		3
CRDCOSFD	0		1
CRDCOSIL	0	80	3
CRDCOSIN	0		2
CRDCOSNM	1		2
CRDENA1	5	40	3
CRDENA2	6	40	3
CRDFORM	3	80	3
CRDHDR	0		2
CRDLU1	19		2
CRDLU2	0		1
CRDL1LEN	1A		3
CRDL1NAM	1B		3
CRDL1TYP	19		3
CRDL2LEN	1		2
CRDL2NAM	2		2
CRDL2TYP	0		2
CRDMFLAG	F		2
CRDMODE	11		2
CRDNETCS	10		2
CRDNETIL	0		2
CRDNETMD	18		2
CRDNETNT	8		2
CRDNETVC	20		2
CRDNETXT	0		1
CRDNOT	10		2
CRDNOTL1	10	80	3
CRDNOTL2	10	20	3
CRDNOTSS	10	04	3
CRDPCID	7		2
CRDPLU	4	02	3
CRDQPOS1	5	04	3
CRDQPOS2	6	04	3
CRDQUE1	5		2
CRDQUE2	6		2
CRDREQCD	2		3
CRDREQTP	4	80	3
CRDRESP	0		1
CRDRFORM	0	80	3
CRDRLU1	2		2
CRDRLU2	3		2
CRDRPROC	1		2
CRDRSVD	0		1
CRDR1AVL	2	40	3
CRDR1PLU	2	02	3
CRDR1SES	2	20	3
CRDR1ST	1	80	3
CRDR2AVL	3	40	3
CRDR2PLU	3	02	3
CRDR2SES	3	20	3
CRDR2ST	1	08	3
CRDSCT1	5	80	3
CRDSCT2	6	80	3
CRDSST	0		3
CRDTYPE	4		2
CRDUSERF	1		2
CRDUSRFD	0		1
CRDUSRLN	0		2
ISTCRDIO	0		1



## Cross-Domain Session Ended RU (CRSE)

<b>Function:</b>	CRSE notifies the SSCP that the LU-LU session identified by the session key content field and the specified PCID for the termination procedure has been successfully deactivated.
<b>RU Header:</b>	X'818648' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	15	ISTCRSE	CROSS-DOMAIN SESSION ENDED (CDESSEND) RU
0	(0)	CHARACTER	12	CRSRU	SESSION SERVICES LENGTH PORTION
0	(0)	CHARACTER	3	CRSHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	CRSSST	LOGICAL/PHYSICAL RU TYPE
1	(1)	CHARACTER	1	CRSCAT	NETWORK SERVICE SUBTYPE CDRM INDICATOR
2	(2)	CHARACTER	1	CRSREQ	REQUEST CODE
3	(3)	CHARACTER	8	CRSPCID	PROCEDURE CORRELATION ID (SEE PCID)
11	(B)	CHARACTER	1	CRSREAS	REASON
				CRSFMT	ONLY VALUE DEFINED 0000 FORMAT 0
				CRSRSV1	NOT USED - AVAILABLE
12	(C)	CHARACTER	1	CRSKEYTP	SESSION KEY TYPE
13	(D)	CHARACTER	2	CRSKEY	SESSION KEY
13	(D)	CHARACTER	1	CRSLU1TP	RESOURCE TYPE
14	(E)	UNSIGNED	1	CRSLU1LN	LU1 LENGTH
15	(F)	CHARACTER	*	CRSLU1NM	LU1 NAME

MAPPING FOR LU2 NETWORK NAME OF PAIR

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	CRSLU2	
0	(0)	CHARACTER	1	CRSLU2TP	RESOURCE TYPE
1	(1)	UNSIGNED	1	CRSLU2LN	LU2 LENGTH
2	(2)	CHARACTER	*	CRSLU2NM	LU2 NAME

MAPPING FOR SESSION KEY-05

13	(D)	STRUCTURE	8	CRSSKEY5	
13	(D)	CHARACTER	8	CRSRID	PCID SESSION KEY

MAPPING FOR SESSION KEY-07

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
13	(D)	STRUCTURE	4	CRSSKEY	
13	(D)	CHARACTER	2	CRSPLUNA	PLU NETWORK ADDRESS
15	(F)	CHARACTER	2	CRSSLUNA	SLU NETWORK ADDRESS

RU



## Constants

Len	Type	Value	Name	Description
CDSESEND NOW SUPPORTS NETWORK QUALIFIED ADDRESS PAIR SESSION KEY - X'15' MAPPED BY ISTAPSK AND SHOULD BE BASED ON ADDR(CRSKEYTP). THIS MAPPING CONTAINS THE SESSION KEY. CONSTANT FOR CRSHDR - CROSS DOMAIN SESSION ENDED				
3	HEX	818648	CRSHDR	CROSS-DOMAIN SESSION ENDED RU 81 - NETWORK SERVICES, LOGICAL SERVICES 86 - SESSION SER- VICES, CDRM 48 - CROSS DOMAIN SESSION ENDED
CONSTANT FOR CRSKEYTP				
1	HEX	05	CRSKEY5	PCID SESSION KEY
1	HEX	06	CRSKEY6	PAIRED NETWORK NAMES
1	HEX	07	CRSKEY7	PAIRED NETWORK ADDRESSES
CONSTANT FOR SESSION KEY 15 INCLUDED IN ISTAPSK. CONSTANT FOR CRSLU1TP AND CRSLU2TP				
1	HEX	F3	CRSF3	LOGICAL UNIT

## Cross Reference

Name	Hex Offset	Hex Value	Level
CRSCAT	1		4
CRSFMT	B	80	4
CRSHDR	0		3
CRSKEY	D		2
CRSKEYTP	C		2
CRSLU1LN	E		3
CRSLU1NM	F		3
CRSLU1TP	D		3
CRSLU2	0		1
CRSLU2LN	1		2
CRSLU2NM	2		2
CRSLU2TP	0		2
CRSPCID	3		3
CRSPLUNA	D		2
CRSREAS	B		3
CRSREQ	2		4
CRSRID	D		2
CRSRSV1	B	08	4
CRSRU	0		2
CRSSKEY	D		1
CRSSKEY5	D		1
CRSSLUNA	F		2
CRSSST	0		4
ISTRSE	0		1



## Cross-Domain Session Started RU (CSESS)

<b>Function:</b>	CSESS notifies the SSCP(SLU) that the LU-LU session identified by the session key content field and the specified PCID for the initiation procedure has been successfully activated.
<b>RU Header:</b>	X'818646' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	15	ISTCSESS	CROSS-DOMAIN SESSION STARTED (CSESS) RU	
0	(0)	CHARACTER	12	CSELU	LENGTH SECTION FOR SESSION SERVICES	
0	(0)	CHARACTER	3	CSEHDR	COMMON HEADER FOR NETWORK SERVICES RUS	
0	(0)	CHARACTER	1	CSESST	LOGICAL/PHYSICAL RU TYPE	
1	(1)	CHARACTER	1	CSECAT	NETWORK SERVICE SUBTYPE-CDRM INDICATOR	
2	(2)	CHARACTER	1	CSEREQ	REQUEST CODE	
3	(3)	CHARACTER	8	CSEPCID	PROCEDURE CORRELATION ID (SEE PCID)	
11	(B)	CHARACTER	1	CSESV1	NOT USED - AVAILABLE	
12	(C)	CHARACTER	3	CSEKEY	SESSION KEY	
12	(C)	CHARACTER	1	CSEKYTP6	SESSION KEY TYPE	
13	(D)	CHARACTER	1	CSELU1TP	RESOURCE TYPE	
14	(E)	UNSIGNED	1	CSELU1LN	LU1 LENGTH	
15	(F)	CHARACTER	*	CSELU1NM	LU1 NAME	

### MAPPING FOR LU2 NETWORK NAME OF PAIR

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	CSELU2		
0	(0)	CHARACTER	1	CSELU2TP	RESOURCE TYPE	
1	(1)	UNSIGNED	1	CSELU2LN	LU2 LENGTH	
2	(2)	CHARACTER	*	CSELU2NM	LU2 NAME	

### MAPPING FOR ADDRESS PAIR SESSION KEY - 07

12	(C)	STRUCTURE	5	CSESKEY		
12	(C)	CHARACTER	1	CSEKYTP7	SESSION KEY TYPE	
13	(D)	CHARACTER	2	CSEPLUNA	PLU NETWORK ADDRESS	
15	(F)	CHARACTER	2	CSESLUNA	SLU NETWORK ADDRESS	

## Constants

Len	Type	Value	Name	Description
MAPPING FOR NETWORK QUALIFIED ADDRESS PAIR SESSION KEY X'15', IS MAPPED BY DSECT ISTAPSK AND SHOULD BE BASED ON ADDR(CSEKEY).				
CONSTANT FOR CSEHDR - CROSS DOMAIN SESSION STARTED				
3	HEX	818646	CSEHDC	CROSS-DOMAIN SESSION STARTED RU 81 - NETWORK SERVICES, LOGICAL SERVICES 86 - SESSION SERVICES, CDRM 46 - CROSS DOMAIN SESSION STARTED
CONSTANT FOR CSEKYTP				
1	HEX	06	CSEKEY6	PAIRED NETWORK NAMES
1	HEX	07	CSEKEY7	PAIRED NETWORK ADDRESSES
1	HEX	15	CSEKEY15	QUALIFIED ADDRESS PAIR
CONSTANT FOR CSELU1TP AND CSELU2TP				
1	HEX	F3	CSEF3	LOGICAL UNIT

## Cross Reference

Name	Hex Offset	Hex Value	Level
CSECAT	1		4
CSEHDR	0		3
CSEKEY	C		2
CSEKYTP6	C		3
CSEKYTP7	C		2
CSELU1LN	E		3
CSELU1NM	F		3
CSELU1TP	D		3
CSELU2	0		1
CSELU2LN	1		2
CSELU2NM	2		2
CSELU2TP	0		2
CSEPCID	3		3
CSEPLUNA	D		2
CSEREQ	2		4
CSERSV1	B		3
CSERU	0		2
CSESKEY	C		1
CSESLUNA	F		2
CSESST	0		4
ISTCSESS	0		1



## Contact RU (CTCRU)

<b>Function:</b>	CTCRU requests the initiation of a procedure at the PU to activate DLC-level contact with the adjacent link station specified in the request. The DLC-level contact must be activated before any PIUs can be exchanged with the adjacent node over the link.
<b>RU Header:</b>	X'010201' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	ISTCTCRU	
0	(0)	CHARACTER	3	CTCNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	CTCNAD	NETWORK ADDRESS OF PU
3	(3)	CHARACTER	2	CTCELEM	ELEMENT ADDRESS
5	(5)	CHARACTER	1	CTCNSA	NETWORK SERVICES AVAILABLE INDICATOR
		1... ....		CTCNSAIN	0 - NETWORK SERVICES ARE NOT AVAILABLE 1 - NETWORK SERVICES ARE AVAILABLE
		.1.. ....		CTCEAMI	ENHANCED ADDRESS MANAGEMENT INDICATOR 0 - SENDER DOES NOT SUPPORT ENHANCED ADDRESS MANAGEMENT 1 - SENDER SUPPORTS ENHANCED ADDRESS MANAGEMENT
		..1. ....		CTCSDAI	STATIC/DYNAMIC ADDRESS INDICATOR 0 - SENDER CONSIDERS THE ALS ADDRESS TO BE STATIC 1 - SENDER CONSIDERS THE ALS ADDRESS TO BE DYNAMIC
		...1 1111		CTCNSARV	BITS 3-7 RESERVED
6	(6)	UNSIGNED	1	CTCTGNUM	TRANSMISSION GROUP NUMBER
7	(7)	CHARACTER		CTCRUDTA	CONTROL VECTOR DATA FOR CONTACT REQUEST

RU

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR CTCNSHDR				
3	HEX	010201	CTCHDRC	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 01-REQUEST CODE

### Cross Reference

Name	Hex Offset	Hex Value	Level
CTCEAMI	5	40	3
CTCELEM	3		3
CTCNAD	3		2
CTCNSA	5		2
CTCNSAIN	5	80	3
CTCNSARV	5	10	3
CTCNSHDR	0		2
CTCRUDTA	7		2
CTCSDAI	5	20	3
CTCTGNUM	6		2
ISTCTCRU	0		1

## Control Terminate RU (CTERM)

<b>Function:</b>	CTERM requests that the PLU attempt to deactivate a session identified by the specified (PLU,SLU) network address pair.
<b>RU Header:</b>	X'810602' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	9	ISTCTERM	CONTROL TERMINATE (CTERM) RU
0	(0)	CHARACTER	3	CTEHDR	COMMON HEADER FOR NETWORK SERVICES
0	(0)	CHARACTER	1	CTESST	81-NETWORK SERVICES, LOGICAL SERVICES
1	(1)	CHARACTER	1	CTECAT	06-SESSION SERVICES
2	(2)	CHARACTER	1	CTEREQCD	02-REQUEST CODE
3	(3)	CHARACTER	1	CTEFORM	FORMAT
		1111 ....		CTEFMT	FORMAT VALUE
		.... 1111		CTERSV1	NOT USED - AVAILABLE
4	(4)	CHARACTER	1	CTETYPE	TYPE
		11.. ....		CTERSV2	NOT USED - AVAILABLE
		..11 ....		CTEUNBTP	TERMINATE TYPE
		.... 1111		CTERSV3	NOT USED - AVAILABLE
5	(5)	CHARACTER	1	CTEREAS	REASON DATA
		1... ....		CTENETW	0=NETWORK USER 1=NETWORK MANAGER
		.1.. ....		CTETTERM	0=NORMAL 1=ABNORMAL

FOR FORCED AND CLEANUP FLAVOR TERMINATION, CTENETW AND CTETTERM IS USED BY LUS TO DETERMINE HOW TO NOTIFY THE PLU APPLICATION OF SESSION TERMINATION AND DETERMINES THE CORRECT RETURN CODE TO BE USED WHEN POSTING THE APPLICATION'S I/O WHEN A SESSION TERMINATES.

		..11 1111		CTEDREAS	DETAILED REASON
6	(6)	CHARACTER	2	CTERSVD	NOT USED - AVAILABLE
8	(8)	CHARACTER	1	CTEKEYTP	SESSION KEY TYPE
9	(9)	CHARACTER	*	CTEKEY	ADDRESS KEY VECTOR

THE NETWORK QUALIFIED ADDRESS PAIR SESSION KEY (X'15' - ISTAPSK) IS SUPPORTED FOR THIS RU AND SHOULD BE BASED ON CTEKEYTP

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	CTEKEYV7	SESSION KEY
0	(0)	CHARACTER	2	CTEPLUNA	PLU NETWORK ADDRESS
2	(2)	CHARACTER	2	CTESLUNA	SLU NETWORK ADDRESS

RU

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR CTEHDR-UNBINDF REQUEST				
3	HEX	810602	CTEHDR	CONTROL TERMINATE RU 81-NETWORK SERVICES, LOGICAL SERVICES 06-SESSION SERVICES 02-REQUEST CODE
CONSTANT FOR CTEFMT				
0	BIT	0000	CTEFMT0	FORMAT 0
CONSTANT FOR CTEUNBTP				
0	BIT	00	CTERESVD	RESERVED
0	BIT	01	CTEORDLY	ORDERLY
0	BIT	10	CTEFRCD	FORCED
0	BIT	11	CTECLNP	CLEAN-UP
CONSTANT FOR CTEKEYPT-SESSION KEY TYPE				
1	HEX	07	CTEKEY7	PAIRED NETWORK ADDRESSES

**Cross Reference**

Name	Hex Offset	Hex Value	Level
CTECAT	1		3
CTEDREAS	5	20	3
CTEFMT	3	80	3
CTEFORM	3		2
CTEHDR	0		2
CTEKEY	9		2
CTEKEYTP	8		2
CTEKEYV7	0		1
CTENETW	5	80	3
CTEPLUNA	0		2
CTEREAS	5		2
CTEREQCD	2		3
CTERSVD	6		2
CTERSV1	3	08	3
CTERSV2	4	80	3
CTERSV3	4	08	3
CTESLUNA	2		2
CTESST	0		3
CTETTERM	5	40	3
CTETYPE	4		2
CTEUNBTP	4	20	3
ISTCTERM	0		1

RU

## Cross-Domain Session Takedown Failure RU (CTKF)

<b>Function:</b>	CTKF notifies the SSCP(SLU) that the LU-LU session identified by the session key content field and the specified PCID for the termination procedure has failed.
<b>RU Header:</b>	X'818647' (NS Header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	19	ISTCTKF	
0	(0)	CHARACTER	16	CTKRU	SESSION SERVICES LENGTH PORTION
0	(0)	CHARACTER	3	CTKHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	CTKSST	RU TYPE LOGICAL/PHYSICAL
1	(1)	CHARACTER	1	CTKCAT	NS SUBTYPE-CDRM INDICATOR
2	(2)	CHARACTER	1	CTKREQ	REQUEST CODE
3	(3)	CHARACTER	8	CTKPCID	PROCEDURE CORRELATION ID
11	(B)	CHARACTER	4	CTKSENSE	SENSE DATA FOR FAILURE
15	(F)	CHARACTER	1	CTKREAS	REASON
		1... ....		CTKPLUE	1=PLU ERROR ON UNBIND
		.1.. ....		CTKUERS	1=UNBIND ERROR REACHING SLU
		..1. ....		CTKCREJ	1=CTERM REJECT BY PLU/PLU USER
		...1 111.		CTKRSV1	NOT USED
		.... ...1		CTKSTAND	1=STANDALONE 0=PART OF PROCEDURE
16	(10)	CHARACTER	1	CTKKEYTP	SESSION KEY TYPE
17	(11)	CHARACTER	2	CTKKEY	SESSION KEY
17	(11)	CHARACTER	1	CTKLU1T	RESOURCE TYPE
18	(12)	UNSIGNED	1	CTKLU1L	LENGTH OF LU1 NAME
19	(13)	CHARACTER	*	CTKLU1N	LU1 SYMBOLIC NAME

CDSSESSF NOW SUPPORTS NETWORK QUALIFIED ADDRESS PAIR SESSION KEY - X'15' MAPPED BY ISTAPSK AND SHOULD BE BASED ON ADDR(CTKKEYTP). THIS MAPPING CONTAINS THE SESSION KEY.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	CTKLU2	LU2
0	(0)	CHARACTER	1	CTKLU2T	RESOURCE TYPE
1	(1)	UNSIGNED	1	CTKLU2L	LENGTH OF LU2 NAME
2	(2)	CHARACTER	*	CTKLU2N	LU2 SYMBOLIC NAME

MAPPING FOR SESSION KEY-05

17	(11)	STRUCTURE	8	CTKSKEY5	
17	(11)	CHARACTER	8	CTKRID	PCID SESSION KEY

MAPPING FOR SESSION KEY-07

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
17	(11)	STRUCTURE	4	CTKSKEY	
17	(11)	CHARACTER	2	CTKPLUNA	PLU NETWORK ADDRESS
19	(13)	CHARACTER	2	CTKSLUNA	SLU NETWORK ADDRESS

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR CTKHDR				
3	HEX	818647	CTKHDRC	CROSS DOMAIN SESSION TAKEDOWN FAILURE
CONSTANT FOR RESOURCE TYPE - CTKLU1TP AND CTKLU2TP				
1	HEX	F3	CTKF3	LOGICAL UNIT
CONSTANTS FOR CTKKEYTP				
1	HEX	05	CTKKEY5	PCID SESSION KEY
1	HEX	06	CTKKEY6	PAIRED NETWORK NAMES
1	HEX	07	CTKKEY7	PAIRED NETWORK ADDR

**Cross Reference**

Name	Hex Offset	Hex Value	Level
CTKCAT	1		4
CTKCREJ	F	20	4
CTKHDR	0		3
CTKKEY	11		2
CTKKEYTP	10		2
CTKLU1L	12		3
CTKLU1N	13		3
CTKLU1T	11		3
CTKLU2	0		1
CTKLU2L	1		2
CTKLU2N	2		2
CTKLU2T	0		2
CTKPCID	3		3
CTKPLUE	F	80	4
CTKPLUNA	11		2
CTKREAS	F		3
CTKREQ	2		4
CTKRID	11		2
CTKRSLV	F	10	4
CTKRU	0		2
CTKSENSE	B		3
CTKSKEY	11		1
CTKSKEY5	11		1
CTKSLUNA	13		2
CTKSST	0		4
CTKSTAND	F	01	4
CTKUERS	F	40	4
ISTCTKF	0		1

RU



## Control Initiate RU (CTLIN)

<b>Function:</b>	CTLIN requests the PLU to attempt to activate, by a BIND request, a session with the specified SLU.
<b>RU Header:</b>	X'810601' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTCTLIN	Control Initiate (CINIT) RU
0	(0)	CHARACTER	3	CTLHDR	NS Header
3	(3)	CHARACTER	1	*	
		1111 ....		CTLFMT	Format
		.... 1111		*	Reserved
4	(4)	CHARACTER	1	CTLORIGIN	INIT Origin
		1... ....		CTLINIT	CTLIN3RD (1) - Other initiated session
		.1.. ....		*	RESERVED
		..1. ....		CTLDEST	CTLDESPL (0) = PLU is DLU CTLDESSL (1) = SLU is DLU
		...1 ....		CTUSER	0 = Network user is INITIATOR 1 = Network manager
		.... 11..		CTLNMSUB	Name substitution BIND NS Name name fields:
		.... ..1.		CTLXBIND	CTLNOSUB (00)-No name substitution done by receiver. CTLREPID (01)-No substitution done, but Net Ids are present and are to removed from BIND. PLU CV 0E will be included on the BIND. CTLNETNM (10)-No substitution done, but Network Name CV('0E') for the PLU is included in the BIND. CTLSUB (11)-Name substitution done by receiver, the names in the Network Name CV('0E') or the Name Substitution CV('16') are used in the BIND NS Name fields
		.... ...1		CTLXRF	0 = Extended BIND not sent to SLU 1 = Extended BIND sent to SLU
5	(5)	CHARACTER	1	CTLKEYTP	1 = SLU is XRF capable
6	(6)	CHARACTER	4	CTLKEY	Session key type
6	(6)	CHARACTER	2	CTLPLUNA	Session key data
8	(8)	CHARACTER	2	CTLSLUNA	PLU network address
10	(A)	UNSIGNED	2	CTLBLN	SLU network address
12	(C)	CHARACTER	*	CTLBIND	BIND image length
					BIND image field

### SLU Name Mapping

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	CTLSLUF	SLU Name
0	(0)	CHARACTER	1	CTLSLUTP	SLU Type
1	(1)	UNSIGNED	1	CTLSLULN	SLU Name length
2	(2)	CHARACTER	*	CTLSLUNM	SLU Name

### Retired fields Mapping

0	(0)	STRUCTURE	2	CTLRETRD	Retired fields
0	(0)	CHARACTER	1	CTLRQFD	Requestor ID
0	(0)	UNSIGNED	1	CTLRQLN	Requestor ID length
1	(1)	CHARACTER	1	CTLRQID	Requestor ID field
1	(1)	CHARACTER	1	CTLPSWFD	Password field
1	(1)	UNSIGNED	1	CTLPSWLN	Password field length
2	(2)	CHARACTER	1	CTLPASWD	Password field

### User data mapping

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RU

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	1	CTLUSRFD	User data
0	(0)	UNSIGNED	1	CTLUSRLN	User data length
1	(1)	CHARACTER	*	CTLUSERF	User data

LU Characteristics

0	(0)	STRUCTURE	16	CTLDCHAR	LU Characteristics
0	(0)	SIGNED	2	CTLLNCH	Length of LU characteristics
2	(2)	CHARACTER	14	CTLLUCHR	LU Characteristics
2	(2)	CHARACTER	1	CTLTYPE	Characteristics format
3	(3)	CHARACTER	8	CTLLUCH	LU characteristics
11	(B)	CHARACTER	5	CTLSCRSZ	Screen size
16	(10)	CHARACTER	*	CTLWORK	Work area

LU Characteristics

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	1	CTLWKFLD	Work area
0	(0)	CHARACTER	1	CTLWKFMT	Work area format
1	(1)	CHARACTER	*	CTLWKARE	Work area

CRYPTO Keys

0	(0)	STRUCTURE	1	CTLCK	CRYPTO keys
0	(0)	UNSIGNED	1	CTLCKLN	CRYPTO key length
1	(1)	CHARACTER	*	CTLCKEY	CRYPTO key

Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	22	CTLVCTOR	CONTROL VECTOR
0	(0)	CHARACTER	1	CTLVCKEY	VECTOR KEY FIELD
1	(1)	UNSIGNED	1	CTLLNGTH	VECTOR LENGTH
2	(2)	CHARACTER	20	CTLVCDTA	VECTOR DATA
2	(2)	CHARACTER	8	CTLMODNM	LOGMODE NAME
10	(A)	CHARACTER	8	CTLCOSNM	CLASS OF SERVICE NAME
18	(12)	UNSIGNED	1	CTLVRLEN	LENGTH OF VR INFORMATION INCLUDING FORMAT, TYPE, NUMBER OF ENTRIES AND ENTRIES OF VR INFORMATION FIELD
19	(13)	CHARACTER	3	CTLVRINF	VR INFORMATION
19	(13)	CHARACTER	1	CTLVRFMT	FORMAT OF VR LIST
20	(14)	CHARACTER	1	CTLVRTYP	TYPE OF VR REQUIRED
21	(15)	UNSIGNED	1	CTLVRNBR	NUMBER OF ENTRIES IN VR LIST
22	(16)	CHARACTER	*	CTLVRLST	VIRTUAL ROUTE LIST
0	(0)	STRUCTURE	2	CTLVRENT	ENTRY IN VIRTUAL ROUTE LIST
0	(0)	UNSIGNED	1	CTLVRNUM	VIRTUAL ROUTE NUMBER
1	(1)	UNSIGNED	1	CTLVRTPF	TRANSMISSION PRIORITY

RU

## Constants

Len	Type	Value	Name	Description
Constant for RU header				
3	HEX	810601	CTLHDCRC	CINIT RU
Constants for initiator (CTLINIT)				
0	BIT	1	CTLIN3RD	Third Party initiated session
Constants for destination (CTLDEST)				
0	BIT	0	CTLDESPL	PLU is DLU
0	BIT	1	CTLDESSL	PLU is SLU
Constants for initiator (CTLUSER)				
0	BIT	0	CTLUUSER	Network user initiator
0	BIT	1	CTLUNET	Network manager initiator
Constants for name substitution (CTLNMSUB)				
0	BIT	00	CTLNOSUB	No name substitution done by receiver
0	BIT	01	CTLREMIID	No substitution done, but net ids are present and are to be removed from BIND. PLU CV 0E will be included in the BIND
0	BIT	10	CTLNETNM	No substitution done, but Network Name CV('0E') for the PLU is included in the BIND
0	BIT	11	CTLSUB	Name substitution done by receiver, the names in the Network Name CV('0E') or the Name Substitution CV('16') are used in the BIND NS Name fields
Constants for LU type (CTLTYPE)				
1	HEX	F3	CTLF3	Logical Unit
Constants for LU characteristics format (CTLTYPE)				
1	HEX	01	CTLTYPE1	Format 1
Constants for work area format (CTLWKFMT)				
1	HEX	00	CTLWFMT0	Unformatted
1	HEX	01	CTLWFMT1	TCAM format
Miscellaneous constants				
1	HEX	0D	CTLVCVRL	VR list vector
1	HEX	00	CTLVRFM0	FORMAT 0
Constants for VR type (CTLVRTP)				
1	HEX	00	CTLVRER0	VR 0 mapped to ER 0
1	HEX	01	CTLVRERX	No ER restriction

RU

## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CTLBIND	C		2	CTLLUCHR	2		2
CTLBLN	A		2	CTLMODNM	2		3
CTLCK	0		1	CTLNMSUB	4	08	3
CTLCKEY	1		2	CTLORIGN	4		2
CTLCKLN	0		2	CTLPASWD	2		3
CTLCOSNM	A		3	CTLPLUNA	6		3
CTLDCHAR	0		1	CTLPSWFD	1		2
CTLDEST	4	20	3	CTLPSWLN	1		3
CTLFMT	3	80	3	CTLREQID	1		3
CTLHDR	0		2	CTLREQLN	0		3
CTLINIT	4	80	3	CTLRETRD	0		1
CTLKEY	6		2	CTLRQFD	0		2
CTLKEYTP	5		2	CTLSCRSZ	B		3
CTLLNCH	0		2	CTLSLUF	0		1
CTLLNGTH	1		2	CTLSLULN	1		2
CTLLUCH	3		3	CTLSLUNA	8		3

Name	Hex Offset	Hex Value	Level
CTLSLUNM	2		2
CTLSLUTP	0		2
CTLTYPE	2		3
CTLUSER	4	10	3
CTLUSERF	1		2
CTLUSRFD	0		1
CTLUSRLN	0		2
CTLVCDTA	2		2
CTLVCKEY	0		2
CTLVCTOR	0		1
CTLVRENT	0		1
CTLVRFMT	13		4
CTLVRINF	13		3
CTLVRLN	12		3
CTLVRLST	16		4
CTLVRNBR	15		4
CTLVRNUM	0		2
CTLVRTPF	1		2
CTLVRTYP	14		4
CTLWKARE	1		2
CTLWKFLD	0		1
CTLWKFMT	0		2
CTLWORK	10		3
CTLXBIND	4	02	3
CTLXRF	4	01	3
ISTCTLIN	0		1

RU

## Deactivate Cross-Domain Resource Manager RU (DACTC)

<b>Function:</b>	DACTC is sent to deactivate an SSCP-SSCP session.
<b>RU Header:</b>	X'15' (request code)
<b>RU Type:</b>	SC

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	ISTDACTC	DACTCDRM RU	
0	(0)	CHARACTER	1	DACTHDR	SC REQUEST CODE	
1	(1)	CHARACTER	1	DACTTYPE	DACTCDRM TYPE	
		1111 ....		DACTFMT	FORMAT FIELD	
		.... 1111		DACTTYP	TYPE FIELD	
2	(2)	CHARACTER	*	DACTREST		

VALID ONLY IF DACTTYPE EQUALS TO DACTSETR (TYPE 2)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
2	(2)	STRUCTURE	4	DACTSEN		
2	(2)	CHARACTER	4	DACTSENS		
2	(2)	CHARACTER	2	DACTSEN1	SENSE CODE	
4	(4)	CHARACTER	2	DACTRSV1	NOT USED -AVAILABLE	

VALID ONLY IF DACTTYPE EQUALS TO DACTSON (TYPE 3)

2	(2)	STRUCTURE	2	DACTSONF	SON TYPE INFORMATION	
2	(2)	CHARACTER	1	DACTCAUS	SON CAUSE	
3	(3)	CHARACTER	1	DACTRESV	RESERVED - NOT AVAILABLE	

### Constants

Len	Type	Value	Name	Description
VALUES FOR DACTCDRM TYPE FIELD (DACTTYPE)				
1	HEX	01	DACTFRCD	NORMAL END OF SESSION
1	HEX	02	DACTSETR	INVALID ACTIVATION PARAMETER SENT BY PRIMARY HALF SESSION TO DEACTIVATE THE SESSION AND TO INDICATE TO THE SECONDARY THAT THE RESPONSE TO ACTCDRM CONTAINED AN INVALID PARAMETER
1	HEX	03	DACTSON	SESSION OUTAGE NOTIFICATION
VALUES FOR DACTCAUS				
1	HEX	07	DACTVRIO	VR INOPERATIVE
1	HEX	0B	DACTDTVR	DACTIVATE VR
1	HEX	0C	DACTNFLR	NON-RECOVERABLE FAILURE
1	HEX	0D	DACTSORO	SESSION OVERRIDE
1	HEX	0E	DACTRFLR	RECOVERABLE FAILURE
1	HEX	0F	DACTCLNP	CLEANUP-THE SSCP IS RE- SETTING ITS HALF SESSION BEFORE RECEIVING RESPONSE TO DACTCDRM
1	HEX	10	DACTSOCR	SSCP CONTENTION-2 SSCPS HAVE SENT EACH OTHER AN ACTCDRM REQUEST OVER DIFFERENT VIRTUAL ROUTES. SSCP RECEIVING THE ACTCDRM FROM SSCP WITH THE GREATER SSCP ID SENDS DACTCDRM WITH THIS CODE.
1	HEX	11	DACTGWCL	A GATEWAY NODE IS CLEANING UP THE SESSION BECAUSE THE GATEWAY SSCP SESSION PARTNER HAS FORCED DEACTIVATION

RU

Len	Type	Value	Name	Description
CONSTANTS FOR DACTHDR				
1	HEX	15	DACTHDC	DEACTIVATE CDRM

**Cross Reference**

Name	Hex Offset	Hex Value	Level
DACTCAUS	2		2
DACTFMT	1	80	3
DACTHDR	0		2
DACTREST	2		2
DACTRESV	3		2
DACTRSV1	4		3
DACTSEN	2		1
DACTSENS	2		2
DACTSEN1	2		3
DACTSONF	2		1
DACTTYP	1	08	3
DACTTYPE	1		2
ISTDACTC	0		1

RU

## BIND RU Session Parameters or Data Area (DBIND)

<b>Function:</b>	DBIND provides a mapping for the BIND RU session parameters, the BIND RU data area, or both.
<b>RU Type:</b>	SC

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	CHARACTER 1111 ....	1	BINFMTY BINFMT	BIND FORMAT AND TYPE "X'F0'" BIND FORMAT
VALUES FOR BINFMT (FORMAT)					
		.... .... .... 1111		BINFMT0 BINTYPE	"X'00'" FORMAT 0 "X'0F'" BIND TYPE
VALUES FOR BINTYPE (TYPE)					
		.... .... .... ...1 .... ...1		BINNEGO BINONEGO BINCOLD	"X'00'" NEGOTIABLE "X'01'" NON NEGOTIABLE "X'01'" NON NEGOTIABLE
1	(1)	CHARACTER	1	BINFM	FUNCTION MANAGEMENT PROFILE
VALUES FOR BINFM - FUNCTION MANAGEMENT PROFILE					
2	(2)	...1 ..11 CHARACTER	1	BINFM19 BINTS	"X'13'" FM PROFILE 19 TRANSMISSION SERVICES PROFILE
VALUES FOR BINTS (TRANSMISSION SERVICES PROFILE)					
		.... .111 .... .1.. .... ..11 .... .1. .... ...1 .... ....		BINTS7 BINTS4 BINTS3 BINTS2 BINTS1 BINTS0	"X'07'" SEQ NOS - NO RESET STATE "X'04'" SEQ NOS - RESET STATE "X'03'" SEQ NOS - RESET STATE "X'02'" SEQ NOS - NO RESET STATE "X'01'" NOT VALID ON LU-LU SESSION "X'00'" NOT VALID ON LU-LU SESSION
3	(3)	CHARACTER 1... ....	1	BINPRIP BINPCHN	PRIMARY LU PROTOCOLS FOR SENDING FM DATA "X'80'" 1 = MULTIPLE RU CHAINS 0 = SINGLE RU CHAINS
		.1.. ....		BINPMCH	"X'40'" 1 = MULTIPLE OUTSTANDING CHAINS (DELAYED REQUEST MODE) 0 = SINGLE OUTSTANDING CHAIN (IMMEDIATE REQUEST MODE)
		..11 ....		BINPCHNR	"X'30'" CHAIN RESPONSE PROTOCOL(SEE BINSCHNR BELOW FOR VALUES)
		.... 11.. .... ..1.		BINRSV01 BINPCMP	"X'0C'" RESERVED "X'02'" 1 = COMPRESSION MAY BE USED 0 = COMPRESSION MUST NOT BE USED
		.... ...1		BINPSEB	"X'01'" 1 = PRIMARY MAY SEND EB 0 = PRIMARY WILL NOT SEND EB
4	(4)	CHARACTER 1... ....	1	BINSECP BINSCHN	SECONDARY LU PROTOCOLS FOR SENDING FM DATA "X'80'" 1 = MULTIPLE RU CHAINS 0 = SINGLE RU CHAIN
		.1.. ....		BINSMCH	"X'40'" 1 = MULTIPLE OUTSTANDING CHAINS (DELAYED REQUEST MODE) 0 = SINGLE OUTSTANDING CHAIN (IMMEDIATE REQUEST MODE)
		..11 ....		BINSCHNR	"X'30'" CHAIN RESPONSE PROTOCOLS
VALUES FOR BINPCHNR/BINSCHNR (TYPE OF RESPONSES ASKED FOR BY REQUESTS FROM PRIMARY/SECONDARY)					
		..11 .... ..1. .... ...1 .... .... .... .... 11.. .... ..1.		BINNYRSP BINDFRSP BINEXRSP BINNORSP BINRSV02 BINSCMP	"X'30'" DEFINITE OR EXCEPTION RESPONSE "X'20'" DEFINITE RESPONSE "X'10'" EXCEPTION RESPONSE "X'00'" NO RESPONSE "X'0C'" RESERVED "X'02'" 1 = COMPRESSION MAY BE USED 0 = COMPRESSION MUST NOT BE USED
		.... ...1		BINSSEB	"X'01'" 1 = SECONDARY MAY SEND EB 0 = SECONDARY WILL NOT SEND EB

RU

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
5	(5)	CHARACTER	1	BINCMNP	COMMON LU PROTOCOLS
		1... ..		BINWBREQ	"X'80" WHOLE-BINS-REQUIRED INDICATOR
		.1... ..		BINFMH	"X'40" 1 = FM HEADERS MAY BE USED 0 = FM HEADERS MUST NOT BE USED
		..1... ..		BINBRAK	"X'20" 1 = BRACKETS WILL BE USED AND RESET STATE IS BETWEEN-BRACKETS 0 = BRACKETS WILL NOT BE USED OR,IF USED, RESET STATE IS IN-BRACKETS
		...1... ..		BINBKTR	"X'10" 1 = CONDITIONAL BRACKETS TERMINATION 0 = UNCONDITIONAL BRACKETS TERMINATION
6	(6)	CHARACTER	1	BINALT	"X'08" 1 = ALTERNATE CODE MAY BE USED 0 = ALTERNATE CODE MUST NOT BE USED
		.... .11.		BINRSV04	"X'06" RESERVED
		.... ...1		BINQUE	"X'01" BIND-QUEUEING INDICATOR
		11... ..		BINCMNP2	COMMON LU PROTOCOLS
				BINFMTRM	"X'C0" SEND/RECEIVE MODE

VALUES FOR BINFMTRM

		11... ..		BINMSTSL	"X'C0" RESERVED
		1... ..		BINHDXFF	"X'80" HDX FLIP FLOP
		.1... ..		BINHDXC	"X'40" HDX CONTENTION
		.... ..		BINFLDPX	"X'00" FULL DUPLEX
		..1... ..		BINRCVR	"X'20" 1 = SYMMETRIC RESPONSIBILITY FOR RECOVERY 0 = CONTENTION LOSER (SEE BINBKFS BELOW) RESPONSIBLE FOR RECOVERY
		...1... ..		BINBKFS	"X'10" 1 = PRIMARY IS BRACKETS FIRST SPEAKER AND CONTENTION WINNER; SECONDARY IS BRACKETS BIDDER AND CONTENTION LOSER 0 = SECONDARY IS BRACKETS FIRST SPEAKER AND CONTENTION WINNER; PRIMARY IS BRACKETS BIDDER AND CONTENTION LOSER
		.... 11..		BINASCC	"X'0C" ALTERNATE CODE PROCESSING IDENTIFIER 00=ASCII7 01=ASCII8
		.... ..1.		BINCTLV	"X'02" CONTROL VECTORS ARE INCLUDED AFTER THE SLU NAME
		.... ...1		BINCONR	"X'01" RESET STATE FOR HDX FLIP-FLOP (E.G. AT START OF SESSION) 1 = PRIMARY SENDS FIRST WHEN DATA TRAFFIC RESET STATE IS LEFT 0 = SECONDARY SENDS FIRST
7	(7)	CHARACTER	6	BINTSU	TS USAGE
13	(D)	CHARACTER	12	BINPRVSC	PRESENTATION SERVICES
25	(19)	CHARACTER	1	BINCRCTL	CRYPTOGRAPHY CONTROL BYTE

VALUES FOR BINCRCTL

		.... ..		BINNOCRY	"X'00" NO CRYPTOGRAPHY
		.... 1..1		BINCRYCA	"X'09" CAPABLE OF CRYPTOGRAPHY
		...1 1..1		BINCRYSL	"X'19" SELECTIVE CRYPTOGRAPHY
		..11 1..1		BINCRYRQ	"X'39" REQUIRED CRYPTOGRAPHY
		11... ..		BINCEUMP	"X'C0" EU/PRIVATE CRYPTOGRAPHY FLAGS

VALUES FOR BINCEUMP

		1... ..		BINCEUPS	"X'80" SYSTEM KEY, PRIVATE PROTOCOL
		.1... ..		BINCEUPP	"X'40" PRIVATE KEY, PRIVATE PROTOCOL
		.... ..		BINCEUNP	"X'00" NO PRIVATE/EU PROTOCOL
		..11... ..		BINCSSESS	"X'30" SESSION LEVEL CRYPTOGRAPHY FLAGS

VALUES FOR BINCSSESS

		.... ..		BINCSENP	"X'00" NO CRYPTOGRAPHY
		...1... ..		BINCSESP	"X'10" SELECTIVE CRYPTOGRAPHY
		..11... ..		BINCSESR	"X'30" REQUIRED CRYPTOGRAPHY
		.... 1111		BINCLEN	"X'0F" LENGTH OF CRYPTOGRAPHY FIELD
26	(1A)	CHARACTER	1	BINPRIML	PRIMARY LU NAME LENGTH
27	(1B)	CHARACTER	8	BINPRIMN	PRIMARY LU NAME

INCLUDE FOR COMPATIBILITY

27	(1B)	CHARACTER	1	BINPRIM (8)	PRIMARY LU NAME
35	(23)	CHARACTER	1	BINUSEL	USER DATA LENGTH

RU



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.1. .1. .... ....		BINUSE BINUSERD	** USER DATA "X'00'" USER DATA LENGTH DEFAULT
OVERLAY FOR 'BINTSU' (TS USAGE)					
7	(7)	CHARACTER 1... ....	1	BINAPACE BINSP2ST	SLU SEND PACING "X'80'" NUMBER OF PACING STAGES FROM SLU TO PLU ( NOTE-REVERSE OF BINPS1ST) 1 = TWO STAGES 0 = ONE STAGE
		.1. .... ..11 1111		BINRSV43 BINAPACM	"X'40'" RESERVED "X'3F'" SLU SEND PACING COUNT
8	(8)	CHARACTER 1... ....	1	BINRPACE BINASPI	SLU RECEIVE PACING "X'80'" ADAPTIVE SESSION PACING INDICATOR
		.1. .... ..11 1111		BINRSV07 BINRPACM	"X'40'" RESERVED "X'3F'" SLU RECEIVE PACING COUNT
9	(9)	CHARACTER	2	BINRUSZ (0)	RU SIZES
9	(9)	CHARACTER 1... ....	1	BINRUSZ BINRUSS	SLU MAXIMUM SEND RU SIZE "X'80'" RU SIZE IS SPECIFIED
10	(A)	CHARACTER 1... ....	1	BINPRUSZ BINPRUSS	PLU MAXIMUM SEND RU SIZE "X'80'" RU SIZE IS SPECIFIED
VALUES FOR BINRUSZ AND BINPRUSZ (RU SIZES) EXCEPT RU SIZE SPECIFIED					
		1... .1.1 ... .111 1111 .... .... 1111		BINRU256 BINRU1K BINRUSZM BINRUSZE	"X'85'" 256 BYTE RU (8 2 5) "X'87'" 1024 BYTE RU (8 2 7) "X'F0'" MANTISSA (M) "X'0F'" EXPONENT (E) SIZE=M 2 E
11	(B)	CHARACTER 1... ....	1	BINSPACE BINPS1ST	PLU SEND PACING "X'80'" NUMBER OF PACING STAGES FROM PLU TO SLU (NOTE-REVERSE OF BINSP2ST) 1 = ONE STAGE 0 = TWO STAGE
		.1. .... ..11 1111		BINRSV44 BINSPACM	"X'40'" RESERVED "X'3F'" PLU SEND PACING COUNT
12	(C)	CHARACTER 11.. .... ..11 1111	1	BINBPACE BINRSV10 BINBPACM	PLU RECEIVE PACING "X'C0'" RESERVED "X'3F'" PLU RECEIVE PACING COUNT
OVERLAY FOR 'BINPRVVC' (PRESENTATION SERVICES)					
13	(D)	CHARACTER	1	BINLUP	PS PROFILE
VALUES FOR BINLUP (PS PROFILE)					
		1... .... ..11 1111 .... .1. .... .1. .... .11 .... .1. .... .1. .... ...1 .... ....		BINPSFMT BINLUTYP BINLUP6C BINLUP4C BINLUP3C BINLUP2C BINLUP1C BINLUP0C	"X'80'" PS USAGE FIELD FORMAT "X'7F'" LU TYPE "X'06'" LU TYPE 6 "X'04'" LU TYPE 4 "X'03'" LU TYPE 3 "X'02'" LU TYPE 2 "X'01'" LU TYPE 1 "X'00'" LU TYPE 0
14	(E)	CHARACTER	11	BINPSCHR	PS PROFILE DEPENDENT PRESENTATION SERVICES
OVERLAY FOR 'BINPSCHR' (PRESENTATION SERVICES CHARACTERISTICS FOR PS PROFILE 1)					
14	(E)	BITSTRING 1111 ....	1	BINLUP1 BINFMHS1	PS PROFILE 1 FMHS AND DSP "X'F0'" FM HEADER SUBSET
VALUES FOR BINFMHS1					
		..11 .... ..1. .... ...1 .... ... .... .... 1111		BINFMS3C BINFMS2C BINFMS1C BINFMS0C BINDSP1	"X'30'" DATA MANAGEMENT SUBSET "X'20'" TYPE 1 HEADERS "X'10'" TYPE 1 HEADERS WITH RESTRICTIONS "X'00'" NO FM HEADERS ALLOWED "X'0F'" DATA STREAM PROFILE
VALUES FOR BINDSP1 (DATA STREAM PROFILE)					
		.... ...1 .... ....		BINDSP1C BINDSP0C	"X'01'" BASIC CONTROLS, CARDS MAY SPAN RUS "X'00'" BASIC CONTROLS
15	(F)	BITSTRING	5	BINPLUS1 (0)	PLU USAGE
15	(F)	BITSTRING	2	BINPFMF1 (0)	FMH SUBSET DEPENDENT FLAGS



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
15	(F)	BITSTRING	1	BINPFMB1	FIRST BYTE
16	(10)	BITSTRING	1	BINPFMB2	SECOND BYTE
17	(11)	BITSTRING	2	BINPDSP1 (0)	DATA STREAM FLAGS FOR DSP0 AND DSP1
17	(11)	BITSTRING	1	BINPDSB1	FIRST BYTE
18	(12)	BITSTRING	1	BINPDSB2	SECOND BYTE
19	(13)	BITSTRING	1	BINPMED1	MEDIA FLAGS
20	(14)	BITSTRING	5	BINSLUS1 (0)	SLU USAGE
20	(14)	BITSTRING	2	BINSFMF1 (0)	FMH SUBSET DEPENDENT FLAGS
20	(14)	BITSTRING	1	BINSFMB1	FIRST BYTE
21	(15)	BITSTRING	1	BINSFMB2	SECOND BYTE
22	(16)	BITSTRING	2	BINSDSP1 (0)	DATA STREAM FLAGS FOR DSP0 AND DSP1
22	(16)	BITSTRING	1	BINSDSB1	FIRST BYTE
23	(17)	BITSTRING	1	BINSDSB2	SECOND BYTE (RESERVED)
24	(18)	BITSTRING	1	BINSMED1	MEDIA FLAGS
<hr/> FLAGS FOR LU PROFILE 1 FLAGS FOR BINPFMB1 AND BINSFMB1 (FIRST BYTE OF FM HEADER FLAGS)					
		1... ..		BINDESTS	"X'80" 0 = TWO DESTINATIONS MAY BE OUT- STANDING 1 = THREE DESTINATIONS MAY BE OUT- STANDING
		.1... ..		BINCMPT	"X'40" 0 = WILL NOT SEND COMPACTION TABLE/WILL NOT BE QUERIED FOR COMPACTION TABLES 1 = MAY SEND COMPACTION TABLE/MAY BE QUERIED FOR COMPACTION TABLES
		..1. ....		BINPDIR	"X'20" 0 = PDIR WILL NOT BE SENT 1 = PDIR MAY BE SENT
		...1 1111		BINRSV09	"X'1F" RESERVED FOR FMHS1
<hr/> ADDITIONAL FLAGS FOR FMHS3					
		...1 ....		BINKDDSI	"X'10" 0 = KEYED DIRECT DATA SET WILL NOT BE SENT 1 = KEYED DIRECT DATA SET MAY BE SENT
		.... 1...		BINSDSI	"X'08" 0 = SEQUENTIAL DATA SETS WILL NOT BE SENT 1 = SEQUENTIAL DATA SETS MAY BE SENT
		.... .1..		BINSAI	"X'04" 0 = SEQUENTIAL ACCESS TO ADDRESSED DIRECT DATA SET WILL NOT BE SENT 1 = SEQUENTIAL ACCESS TO ADDRESSED DIRECT DATA SET MAY BE SENT
		.... ..1.		BINSIDS	"X'02" 0 = SERIES ID NOT SUPPORTED (WITH STATUS IN REPLY) 1 = SERIES ID SUPPORTED (WITH STATUS IN REPLY)
		.... ...1		BINARRR	"X'01" 0 = ADD REPLICATE, REPLACE REPLICATE NOT SUPPORTED 1 = ADD REPLICATE, REPLACE REPLICATE SUPPORTED
<hr/> FLAGS FOR BINPFMB2 AND BINSFMB2 (SECOND BYTE OF FM HEADER FLAGS)					
		1111 1111		BINRSV17	"X'FF" RESERVED FOR FMHS1
<hr/> ADDITIONAL FLAGS FOR FMHS3					
		1... ..		BINRSV16	"X'80" RESERVED
		.1... ..		BINQDSI	"X'40" 0 = QUERY FOR DESTINATION SELECTION NOT SUPPORTED 1 = QUERY FOR DESTINATION SELECTION SUPPORTED
		..1. ....		BINCSDS	"X'20" 0 = CREATE / SCRATCH / SCRATCH ALL DATA SET NOT ALLOWED 1 = CREATE / SCRATCH / SCRATCH ALL DATA SET NOT ALLOWED
		...1 ....		BINXFPD	"X'10" 0 = EXECUTE PROGRAM OFFLINE NOT ALLOWED 1 = EXECUTE PROGRAM OFFLINE ALLOWED
		.... 1111		BINRSV11	"X'0F" RESERVED FOR FMHS3
<hr/> FLAGS FOR 'BINPDSB1 AND BINSDSB1' (PLU/SLU DATA STREAM FLAGS FOR DSP0 AND DSP1) NL AND FF MAY BE SENT IN ANY SUBSET. EACH SUBSET BELOW CONTAINS EVERY PRECEDING SUBSET (E.G. IF AN LU CAN SEND THE HORIZONTAL FORMAT SUBSET, IT CAN ALSO SEND THE FULL BASE SET)					

RU

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		1... ..		BININTR	"X'80'" 0 = FULL BASE SET DATA STREAM (BS,CR,LF,ENP, INP,HT,VT) WILL NOT BE SENT 1 = FULL BASE SET DATA STREAM (BS,CR,LF,ENP, INP,HT,VT) MAY BE SENT
		.1.. ...		BINHFDS	"X'40'" 0 = HORIZONTAL FORMAT, DATA STREAM(SHF) WILL NOT BE SENT 1 = HORIZONTAL FORMAT, DATA STREAM(SHF) MAY BE SENT
		..1. ...		BINVTDS	"X'20'" 0 = VERTICAL FORMAT DATA STREAM (SVF) WILL NOT BE SENT 1 = VERTICAL FORMAT DATA STREAM (SVF) MAY BE SENT
		...1 ...		BINVSDS	"X'10'" 0 = VERTICAL CHANNEL DATA STREAM (SVF(CHANNELS),SCF, SEL) WILL NOT BE SENT 1 = VERTICAL CHANNEL DATA STREAM (SVF(CHANNELS),SCF, SEL) MAY BE SENT
		.... 1..		BINSLD	"X'08'" 0 = SLD WILL NOT BE SENT 1 = SLD MAY BE SENT
		.... .11.		BINRSV40	"X'06'" RESERVED
		.... ...1		BINTRNDS	"X'01'" 0 = TRANSPARENCY DATA STREAM (TRN,IRS) WILL NOT BE SENT 1 = TRANSPARENCY DATA STREAM (TRN,IRS) MAY BE SENT
FLAGS FOR BINPDSB2					
		1... ...		BINUAINT	"X'80'" 0 = SLU WILL INITIATE ATTENDED 1 = SLU WILL INITIATE UNATTENDED
		.1.. ...		BINUAALT	"X'40'" 0 = DURING SESSION SLU WILL NOT ALTERNATE BETWEEN ATTENDED AND UNATTENDED 1 = DURING SESSION SLU WILL ALTERNATE BETWEEN ATTENDED AND UNATTENDED
		..11 1111		BINRSV41	"X'3F'" RESERVED
FLAGS FOR BINPMED1 AND BINSMED1 (PLU/SLU MEDIA FLAGS)					
		1... ...		BINDOCMT	"X'80'" 0 = DOCUMENT FORMAT WILL NOT BE SENT 1 = DOCUMENT FORMAT MAY BE SENT
		.1.. ...		BINCARD	"X'40'" 0 = CARD FORMAT WILL NOT BE SENT 1 = CARD FORMAT MAY BE SENT
		..1. ...		BINXCHNG	"X'20'" 0 = EXCHANGE MEDIA FORMAT WILL NOT BE SENT 1 = EXCHANGE MEDIA FORMAT MAY BE SENT
		...1 ...		BINDISK	"X'10'" 0 = DISK FORMAT WILL NOT BE SENT 1 = DISK FORMAT MAY BE SENT
		.... 1..		BINXCDF	"X'08'" 0 = EXTENDED CARD FORMAT WILL NOT BE SENT 1 = EXTENDED CARD FORMAT MAY BE SENT
		.... .1..		BINXDOCF	"X'04'" 0 = EXTENDED DOCUMENT FORMAT WILL NOT BE SENT 1 = EXTENDED DOCUMENT FORMAT MAY BE SENT
		.... ..1.		BINCDEDS	"X'02'" 0 = SLU MAY SEND CD EVERY EDS 1 = SLU MUST SEND CD EVERY EDS (THIS FLAG APPLIES TO BINPMED1)
		.... ...1		BINRSV42	"X'01'" RESERVED
OVERLAY FOR 'BINPSCHR' (PRESENTATION SERVICES CHARACTERISTICS FOR PS PROFILE 2)					
14	(E)	BITSTRING	1	BINDFLAG	DEVICE FLAG
		1... ..		BINSEDS	"X'80'" EXTENDED 3270 DATA STREAM
15	(F)	BITSTRING	4	BINRSV14	RESERVED
19	(13)	BITSTRING	5	BINSCRSZ (0)	PRESENTATION SPACE SIZE
19	(13)	SIGNED	1	BINSPRIR	PRIMARY (DEFAULT) NUMBER OF ROWS
20	(14)	SIGNED	1	BINSPRIC	PRIMARY (DEFAULT) NUMBER OF COLUMNS
21	(15)	SIGNED	1	BINSALTR	ALTERNATE NUMBER OF ROWS
22	(16)	SIGNED	1	BINSALTC	ALTERNATE NUMBER OF COLUMNS
23	(17)	SIGNED	1	BINPRESZ	PRESENTATION SPACE SIZE
VALUES FOR BINPRESZ (PRESENTATION SPACE SIZE)					
		.111 1111		BINPSZRC	"X'7F'" PRESENTATION SPACE HAS DEFAULT AND ALTERNATE SIZES AS DEFINED IN DEFAULT, ALTERNATE ROW/COL FIELDS



Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.111 111.		BINPSFX	"X'7E'" PRESENTATION SPACE IS FIXED SIZE AS DEFINED BY ROW/COL VALUES IN DEFAULT ROW/COL FIELDS
		.... ..11		BINPSZ3	"X'03'" 24X80 DEFAULT UNDEFINED ALTERNATE DO WRITE STRUCTURED FIELD QUERY TO IDENTIFY ALTERNATE
		.... ..1.		BINPSZ2	"X'02'" 24X80 ROW X COLUMN
		.... ...1		BINPSZ1	"X'01'" 12X40 ROW X COLUMN
		.... ....		BINPSZ0	"X'00'" UNDEFINED ROW X COLUMN
24	(18)	BITSTRING	1	BINRSV15	RESERVED
OVERLAY FOR 'BINPSCHR' (PRESENTATION SERVICES CHARACTERISTICS FOR PS PROFILE 3)					
14	(E)	BITSTRING	5	BINRSV26	RESERVED
19	(13)	BITSTRING	4	BINBFRSZ (0)	PRESENTATION SPACE SIZE
19	(13)	SIGNED	1	BINBFRDR	PRIMARY (DEFAULT) NUMBER OF ROWS
20	(14)	SIGNED	1	BINBFRDC	PRIMARY (DEFAULT) NUMBER OF COLUMNS
21	(15)	SIGNED	1	BINBFRAR	ALTERNATE NUMBER OF ROWS
22	(16)	SIGNED	1	BINBFRAC	ALTERNATE NUMBER OF COLUMNS
23	(17)	SIGNED	1	BINBDESC	PRESENTATION SPACE SIZE SPECIFICATION: 0 = MAXIMUM 1 = 480 CHAR 2 = 1920 CHAR X'7E' = FIXED SIZE(SEE BINBFRDR AND BINBFRDC) X'7F' = VARIABLE SIZE AS DEFINED BY BINBFRSZ
		.111 1111		BINBFSIZ	"X'7F'" SEE ABOVE
		.111 111.		BINBFSZF	"X'7E'" SEE ABOVE
24	(18)	BITSTRING	1	BINRSV45	RESERVED
OVERLAY FOR 'BINPSCHR' (PRESENTATION SERVICES CHARACTERISTICS FOR PS PROFILE 4)					
14	(E)	BITSTRING	4	BINPSNDO (0)	PLU SEND CAPABILITY
14	(E)	BITSTRING	1	BINPDSP	PRINTER DATA STREAM PROFILE
		1... ....		BINPBDSP	"X'80'" BASE DATA STREAM PROFILE 0 = NOT SUPPORTED 1 = SUPPORTED
		.1.. ....		BINRSV46	"X'40'" RESERVED
		..1. ....		BINPJOB	"X'20'" JOB SCS SUBSET 0 = NOT SUPPORTED 1 = SUPPORTED
		...1 ....		BINRSV47	"X'10'" RESERVED
		.... 1..		BINWPRAW	"X'08'" WORD PROCESSING RAW FORM 0 = NOT SUPPORTED 1 = SUPPORTED
		.... .111		BINRSV48	"X'07'" RESERVED
15	(F)	BITSTRING	1	BINADSP	ADDITIONAL DATA STREAM PROFILE
		1... ....		BINRSV49	"X'80'" RESERVED
		.1.. ....		BINADSCD	"X'40'" 0 = CARD NOT SUPPORTED 1 = CARD SUPPORTED
		..11 1111		BINRSV29	"X'3F'" RESERVED
16	(10)	BITSTRING	1	BINCSLP	CONSOLE
		1... ....		BINCBDSP	"X'80'" BASE DATA STREAM PROFILE 0 = NOT SUPPORTED 1 = SUPPORTED
		.1.. ....		BINRSV50	"X'40'" RESERVED
		..1. ....		BINCSJOB	"X'20'" JOB SCS SUBSET 0 = NOT SUPPORTED 1 = SUPPORTED
		...1 1111		BINRSV51	"X'1F'" RESERVED
17	(11)	BITSTRING	1	BINFMHUP	FM/FMH USAGE
		1... ....		BINSSDAT	"X'80'" RESERVED
		.11. ....		BINDSSTO	"X'60'" 00= 1 LEVEL DESTINATION SELECTION SUSPENSION STACK 01= 2 LEVEL DESTINATION SELECTION SUSPENSION STACK 10= RESERVED 11= 3 LEVEL DESTINATION SELECTION SUSPENSION STACK
		...1 111.		BINRSV52	"X'1E'" RESERVED
		.... ...1		BINKIXS	"X'01'" 0 = SLU NEED NOT RECEIVE CD ON EVERY EDS 1 = SLU MUST RECEIVE CD ON EVERY EDS
18	(12)	BITSTRING	4	BINSSNDO (0)	SLU SEND CAPABILITY
18	(12)	BITSTRING	1	BINPDSPS	PRINTER DATA STREAM PROFILE (SEE BINPDSP)
19	(13)	BITSTRING	1	BINADSPS	ADDITIONAL DATA STREAM PROFILE (SEE BINADSP)
20	(14)	BITSTRING	1	BINCSLS	CONSOLE (SEE BINCSLP)

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
21	(15)	BITSTRING	1	BINFMHUS	FM/FMH USAGE (SEE BINFMHUP; MEANING FOR BINKIXS IS: 0 = PLU NEED NOT RECEIVE CD ON EVERY EDS, 1 = PLU MUST RECEIVE CD ON EVERY EDS)
22	(16)	BITSTRING	1	BINCSO	CODE SELECTION
		1111 ....		BINCSOR	"X'F0'" REPertoire
		1... ....		BINCSOE	"X'80'" EBCDIC
		.1.. ....		BINCSOAI	"X'40'" ASCII / ISCII / ITA#5
		.1. ....		BINRSV30	"X'20'" RESERVED
		...1 ...		BINRSV31	"X'10'" RESERVED
		.... 11..		BINCSOC1	"X'0C'" 00= CODE 0 (MAIN CODE) SELECTION IS EBCDIC 01= CODE 0 (MAIN CODE) SELECTION IS ASCII / ISCII / ITA#5
		.... ..11		BINCSOC2	"X'03'" 00= CODE 1 (ALTERNATE CODE SELECTION IS EBCDIC 01= CODE 1 (ALTERNATE CODE SELECTION IS ASCII / ISCII / ITA#5
23	(17)	BITSTRING	1	BINGENCO	GENERAL CHARACTERISTICS
		11.. ....		BINRSV32	"X'C0'" RESERVED
		..1. ....		BINWSDF	"X'20'" 0 = PLU MAY SEND DATA FIRST 1 = SLU MUST SEND DATA FIRST
		...1 ....		BINRSV33	"X'10'" RESERVED
		.... 1..		BINIAO	"X'08'" 0 = SLU WILL INITIATE ATTENDED 1 = SLU WILL INITIATE UNATTENDED
		.... .1..		BINAAO	"X'04'" 0 = SLU WILL NOT ALTERNATE BETWEEN ATTENDED AND UNATTENDED 1 = SLU MAY ALTERNATE BETWEEN ATTENDED AND UNATTENDED
		.... ..11		BINRSV34	"X'03'" RESERVED
24	(18)	BITSTRING	1	BINRSV35	RESERVED

OVERLAY FOR 'BINPSCHR' (PRESENTATION SERVICES CHARACTERISTICS FOR PS PROFILE 6)

14	(E)	BITSTRING	1	BINLULEV	LU-6 LEVEL
		.... ..1.		BINLV02	"X'02'" LEVEL 2
15	(F)	BITSTRING	7	BINRSV36	RESERVED
22	(16)	BITSTRING	1	BINFLG1	LU 6.2 FLAGS
		...1 ....		BINCLSS	"X'10'" ACCESS SECURITY SUBFIELD SUPPORT: 0= ACCESS SECURITY INFORMATION FIELD WILL NOT BE ACCEPTED ON INCOMING FMH-5S 1= ACCESS SECURITY INFORMATION FIELD WILL BE ACCEPTED ON INCOMING FMH-5S
		.... ..1.		BINAVFS	"X'02'" ALREADY - VERIFIED FUNCTION SUPPORT 0= ALREADY - VERIFIED FUNCTION WILL NOT BE ACCEPTED ON INCOMING FMH_5 1= ALREADY - VERIFIED FUNCTION WILL BE ACCEPTED ON INCOMING FMH_5
23	(17)	BITSTRING	1	BINFLG2	MORE LU 6.2 FLAGS
		.11. ....		BINSYNCH	"X'60'" SYNCHRONIZATION LEVEL:

VALUES FOR BINSYNCH

		..1. ....		BINCONF	"X'20'" CONFIRM SUPPORTED
		.1.. ....		BINCSBK	"X'40'" CONFIRM, SYNC POINT, AND BACKOUT SUPPORTED
		...1 ....		BINRS	"X'10'" RECONNECT SUPPORT: 0= RECONNECT NOT SUPPORTED 1= RECONNECT SUPPORTED
		.... 11..		BINRSR	"X'0C'" RESPONSIBILITY FOR SESSION REINITIATION:

NOTE: BINRSR IS RESERVED WHEN PARALLEL SESSIONS ARE SUPPORTED (I.E. WHEN BINPSS IS SET)

VALUES FOR BINRSR

		.... ....		BINOPRC	"X'00'" OPERATOR CONTROLLED
		.... .1..		BINPRIMH	"X'04'" PRIMARY WILL REINITIATE
		.... 1..		BINSECNH	"X'08'" SECONDARY WILL REINITIATE
		.... 11..		BINETHR	"X'0C'" EITHER MAY REINITIATE
		.... ..1.		BINPSS	"X'02'" PARALLEL SESSION SUPPORT FOR LU-LU PAIR: 0= PSS NOT SUPPORTED 1= PSS SUPPORTED
		.... ...1		BINGDSVF	"X'01'" CHANGE NUMBER OF SESSIONS GDS VARIABLE FLOW SUPPORT: 0= NOT SUPPORTED 1= SUPPORTED
24	(18)	BITSTRING	1	BINFLG3	



## Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
BINAAO	17	4	2	BINDSP0C	E	0	2
BINADSCD	F	40	2	BINDSP1	E	F	2
BINADSP	F		2	BINDSP1C	E	1	2
BINADSPS	13		2	BINDSSTO	11	60	2
BINALT	5	8	2	BINETHR	17	C	2
BINAPACE	7		2	BINEXRSP	4	10	2
BINAPACM	7	3F	2	BINFLDPX	6	0	2
BINARRR	18	1	2	BINFLG1	16		2
BINASCC	6	C	2	BINFLG2	17		2
BINASPI	8	80	2	BINFLG3	18		2
BINAVFS	16	2	2	BINF	1		2
BINBDESC	17		2	BINFMD	5	40	2
BINBFRAC	16		2	BINFMHS1	E	F0	2
BINBFRAR	15		2	BINFMHUP	11		2
BINBFRDC	14		2	BINFMHUS	15		2
BINBFRDR	13		2	BINFMSOC	E	0	2
BINBFRSZ	13		2	BINFMS1C	E	10	2
BINBFSIZ	17	7F	2	BINFMS2C	E	20	2
BINBFSZF	17	7E	2	BINFMS3C	E	30	2
BINBKFS	6	10	2	BINFMT	0	F0	2
BINBKTR	5	10	2	BINFMTRM	6	C0	2
BINBPACE	C		2	BINFMTY	0		2
BINBPACM	C	3F	2	BINFMT0	0	0	2
BINBRAK	5	20	2	BINF19	1	13	2
BINCARD	18	40	2	BINGDSVF	17	1	2
BINCBDSP	10	80	2	BINGENCO	17		2
BINCEDES	18	2	2	BINHDXC	6	40	2
BINCEUMP	19	C0	2	BINHDXFF	6	80	2
BINCEUNP	19	0	2	BINHDFS	18	40	2
BINCEUPP	19	40	2	BINIAO	17	8	2
BINCEUPS	19	80	2	BININTR	18	80	2
BINCJOB	10	20	2	BINKDDSI	18	10	2
BINCLN	19	F	2	BINKIXS	11	1	2
BINCLSS	16	10	2	BINLULEV	E		2
BINCMNP	5		2	BINLUP	D		2
BINCMNP2	6		2	BINLUP0C	D	0	2
BINCMPT	18	40	2	BINLUP1	E		2
BINCOLD	0	1	2	BINLUP1C	D	1	2
BINCONF	17	20	2	BINLUP2C	D	2	2
BINCONR	6	1	2	BINLUP3C	D	3	2
BINCRCTL	19		2	BINLUP4C	D	4	2
BINCRYCA	19	9	2	BINLUP6C	D	6	2
BINCRYRQ	19	39	2	BINLUTYP	D	7F	2
BINCRYSL	19	19	2	BINLV02	E	2	2
BINCSBK	17	40	2	BINMSTSL	6	C0	2
BINCSDS	18	20	2	BINNEGO	0	0	2
BINCSNP	19	0	2	BINNOCRY	19	0	2
BINCSNP	19	0	2	BINNORSP	4	0	2
BINCSNP	19	10	2	BINNYRSP	4	30	2
BINCSNP	19	30	2	BINONEGO	0	1	2
BINCSNP	19	30	2	BINOPRC	17	0	2
BINCSLP	10		2	BINPBDS	E	80	2
BINCSLS	14		2	BINPCHN	3	80	2
BINCSO	16		2	BINPCHNR	3	30	2
BINCSOAI	16	40	2	BINPCMP	3	2	2
BINCSOC1	16	C	2	BINPDIR	18	20	2
BINCSOC2	16	3	2	BINPDSB1	11		2
BINCSOE	16	80	2	BINPDSB2	12		2
BINCSOR	16	F0	2	BINPDSPP	E		2
BINCTLV	6	2	2	BINPDSPS	12		2
BINDESTS	18	80	2	BINPDSP1	11		2
BINDFLAG	E		2	BINPFMB1	F		2
BINDFRSP	4	20	2	BINPFMB2	10		2
BINDISK	18	10	2	BINPFMF1	F		2
BINDOCMT	18	80	2				

RU

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
BINPJOB	E	20	2	BINRUSZM	A	F0	2
BINPLUS1	F		2	BINRU1K	A	87	2
BINPMCH	3	40	2	BINRU256	A	85	2
BINPMED1	13		2	BINSAI	18	4	2
BINPRESZ	17		2	BINSALTC	16		2
BINPRIM	1B		2	BINSALTR	15		2
BINPRIMH	17	4	2	BINSCHN	4	80	2
BINPRIML	1A		2	BINSCHNR	4	30	2
BINPRIMN	1B		2	BINSCMP	4	2	2
BINPRIP	3		2	BINSCRSZ	13		2
BINPR SVC	D		2	BINSDSB1	16		2
BINPRUSS	A	80	2	BINSDSB2	17		2
BINPRUSZ	A		2	BINSDSI	18	8	2
BINPSCHR	E		2	BINSDSP1	16		2
BINPSEB	3	1	2	BINSECNH	17	8	2
BINPSFMT	D	80	2	BINSECP	4		2
BINPSFX	17	7E	2	BINSEDS	E	80	2
BINPSNDO	E		2	BINSFMB1	14		2
BINPSS	17	2	2	BINSFMB2	15		2
BINPSZRC	17	7F	2	BINSFMF1	14		2
BINPSZ0	17	0	2	BINSIDS	18	2	2
BINPSZ1	17	1	2	BINSLD	18	8	2
BINPSZ2	17	2	2	BINSLUS1	14		2
BINPSZ3	17	3	2	BINSMCH	4	40	2
BINPS1ST	B	80	2	BINSMED1	18		2
BINQDSI	18	40	2	BINSPACE	B		2
BINQUE	5	1	2	BINSPACM	B	3F	2
BINRCVR	6	20	2	BINSPRIC	14		2
BINRPACE	8		2	BINSPRIR	13		2
BINRPACM	8	3F	2	BINSP2ST	7	80	2
BINRS	17	10	2	BINSRUSS	9	80	2
BINRSR	17	C	2	BINSRUSZ	9		2
BINRSV01	3	C	2	BINSSDAT	11	80	2
BINRSV02	4	C	2	BINSSEB	4	1	2
BINRSV04	5	6	2	BINSSNDO	12		2
BINRSV07	8	40	2	BINSYNCH	17	60	2
BINRSV09	18	1F	2	BINTRNDS	18	1	2
BINRSV10	C	C0	2	BINTS	2		2
BINRSV11	18	F	2	BINTSU	7		2
BINRSV14	F		2	BINTS0	2	0	2
BINRSV15	18		2	BINTS1	2	1	2
BINRSV16	18	80	2	BINTS2	2	2	2
BINRSV17	18	FF	2	BINTS3	2	3	2
BINRSV26	E		2	BINTS4	2	4	2
BINRSV29	F	3F	2	BINTS7	2	7	2
BINRSV30	16	20	2	BINTYPE	0	F	2
BINRSV31	16	10	2	BINUAALT	18	40	2
BINRSV32	17	C0	2	BINUAINT	18	80	2
BINRSV33	17	10	2	BINUSE	23	24	2
BINRSV34	17	3	2	BINUSEL	23		2
BINRSV35	18		2	BINUSERD	23	0	2
BINRSV36	F		2	BINVSDS	18	10	2
BINRSV40	18	6	2	BINVTDS	18	20	2
BINRSV41	18	3F	2	BINWBREQ	5	80	2
BINRSV42	18	1	2	BINWPRAW	E	8	2
BINRSV43	7	40	2	BINWSDF	17	20	2
BINRSV44	B	40	2	BINXCDF	18	8	2
BINRSV45	18		2	BINXCHNG	18	2C	2
BINRSV46	E	40	2	BINXDOCF	18	4	2
BINRSV47	E	10	2	BINXFPD	18	10	2
BINRSV48	E	7	2				
BINRSV49	F	80	2				
BINRSV50	10	40	2				
BINRSV51	10	1F	2				
BINRSV52	11	1E	2				
BINRUSZ	9		2				
BINRUSZE	A	F	2				



## Disconnect RU (DCNRU)

<b>Function:</b>	DCNRU requests that physical unit services initiate a disconnect procedure for the specified connection element.
<b>RU Header:</b>	X'4102FF13' (NS header)
<b>RU Type:</b>	AMRU

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTDCNRU	
0	(0)	CHARACTER	4	DCNHDR	AMRU HEADER
4	(4)	SIGNED	2	DCNCELEM	CONNECTION ELEMENT ADDRESS
6	(6)	CHARACTER	8	DCNGPNAM	LINE GROUP NAME

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR DCNHDR				
4	HEX	4102FF13	DCNDISCN	

RU



## Discontact RU (DCTRU)

<b>Function:</b>	DCTRU requests the PU to deactivate DLC-level contact with the specified adjacent node. The discontact procedure is DLC-dependent; if applicable, polling is stopped. DCTRU may be used to terminate contact, IPL, or dump procedures before their completion. The PU responds negatively to DCTRU if an uninterruptible link-level procedure is in progress at the primary link station of the specified link.
<b>RU Header:</b>	X'010202' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTDCTRU	
0	(0)	CHARACTER	3	DCTNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	DCTNAD	NETWORK ADDRESS OF PU

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR DCTNSHDR				
3	HEX	010202	DCTHDRC	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 02-REQUEST CODE



## Deactivate Transforms AMRU (DEXF)

<b>Function:</b>	DEXF is sent by the CDRM modules to free a CDRM alias when the CDRM segment or an individual CDRM is deactivated. This causes a NOTIFY to be sent to the gateway NCP.
<b>RU Header:</b>	X'4102FF08' (NS header)
<b>RU Type:</b>	AMRU

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	11	ISTDEXF	DEACTIVATE TRANSFORMS AMRU
0	(0)	CHARACTER	4	DEXFHDR	NS HEADER
4	(4)	CHARACTER	6	DEXFGWN	GWN ELEMENT ADDRESS
10	(A)	CHARACTER	1	DEXFIND	INDICATORS
		1... ....		DEXFARET	ADDRESS RETENTION INDICATOR 0 -ADDRESS NOT TO BE RETAINED 1 - ADDRESS TO BE RETAINED
		.111 1111		DEXFRSVD	RESERVED
11	(B)	CHARACTER	*	DEXFVECS	MAPPING FOR VECTOR WHICH FOLLOWS

### Constants

Len	Type	Value	Name	Description
ISTDEXF SUPPORTS NETWORK QUALIFIED ADDRESS PAIR CONTROL VECTOR X'15' MAPPED BY ISTNQAP AND BASED ON ADDR(DEXFVECS). THIS VECTOR SHOULD NOT BE INITIALIZED WITH THE OPTIONAL NETID FOR A SSCP-SSCP SESSION ADDRESS PAIR. CONSTANT FOR NS HEADER				
4	HEX	4102FF08	DEXFNHR	NS HEADER

RU

## Deactivate Connect-In RU (DINRU)

<b>Function:</b>	DINRU requests the PU to disable the specified link from accepting incoming calls.
<b>RU Header:</b>	X'010217' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTDINRU	
0	(0)	CHARACTER	3	DINNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	DINNAD	NETWORK ADDRESS OF LINK
3	(3)	CHARACTER	2	DINELEM	ELEMENT ADDRESS

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR DINNSHDR				
3	HEX	010217	DINHDC	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 17-REQUEST CODE



## Deactivate Link RU (DLKRU)

<b>Function:</b>	DLKRU initiates a procedure at the PU to deactivate the protocol boundary between a link station in the node (as specified by the link network address parameter in the request) and the link connection attached to it. DLKRU is used after all adjacent link stations on the specified link have been disconnected.
<b>RU Header:</b>	X'01020B' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTDLKRU	
0	(0)	CHARACTER	3	DLKNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	DLKNAD	NETWORK ADDRESS OF LINK
3	(3)	CHARACTER	2	DLKELEM	ELEMENT ADDRESS OF LINK, IF ENA CAPABLE
5	(5)	CHARACTER	1	DLKTYPE	TYPE OF DACTLINK

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR DLKNSHDR				
3	HEX	01020B	DLKHDR	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 0B-REQUEST CODE
CONSTANTS FOR DLKTYPE				
1	HEX	00	DLKNORM	NORMAL
1	HEX	01	DLKUNRES	UNCONDITIONAL RESET
1	HEX	02	DLKGVBAK	GIVEBACK

RU

## Deliver RU (DLVRU)

<b>Function:</b>	DLVRU contains an embedded NS RU. A flag in the DLVRU indicates whether the NS RU contains a CNM header. An embedded NS RU is either a reply request corresponding to an NS RU embedded in a FORWARD request, or it is an unsolicited request.
<b>RU Header:</b>	X'810812' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTDLVRU	DELIVER RU
0	(0)	CHARACTER	3	DLVHDR	NETWORK SERVICES HEADER
3	(3)	CHARACTER	1	DLVFMF	FORMAT
4	(4)	CHARACTER	1	DLVFLGS	FLAG BYTE
		1111 1...		DLVRSV1	NOT USED - AVAILABLE
		.... .1..		DLVMLTNM	MULTIPLE TARGET NAMES EXIST
		.... ..1.		DLVSECMT	PU ATTACHMENT REQUIRES SPECIAL PD PROCEDURE
		.... ...1		DLVNCSMH	INNER RU DOES NOT HAVE CNM HEADER
5	(5)	CHARACTER	1	DLVRSV2	NOT USED - AVAILABLE
6	(6)	UNSIGNED	2	DLVNSLN	NS RU LENGTH
8	(8)	CHARACTER	*	DLVNSRU	EMBEDDED NS RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	DLVORG	ORIGIN NAME FIELD
0	(0)	CHARACTER	1	DLVORGTP	ORIGIN TYPE
1	(1)	UNSIGNED	1	DLVORGLN	ORIGIN NAME LENGTH
2	(2)	CHARACTER	*	DLVORGNM	ORIGIN NAME
0	(0)	STRUCTURE	2	DLVTARG	TARGET NAME FIELD
0	(0)	CHARACTER	1	DLVTRGTP	TARGET TYPE
1	(1)	UNSIGNED	1	DLVTRGLN	TARGET NAME LENGTH
2	(2)	CHARACTER	*	DLVTRGNM	TARGET NAME

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	DLVTOP	TOPOLOGY ENTRIES
0	(0)	CHARACTER	1	DLVTOPTP	TOPOLOGY ENTRY TYPE
1	(1)	UNSIGNED	1	DLVTOPLN	TOPOLOGY ENTRY NAME LENGTH
2	(2)	CHARACTER	*	DLVTOPNM	TOPOLOGY ENTRY NAME

DECLARE FOR MULTIPLE TARGET NAMES

0	(0)	STRUCTURE	2	DLVTARG2	TARGET ENTRIES 2-N
0	(0)	CHARACTER	1	DLVTG2TP	TARGET ENTRY TYPE
1	(1)	UNSIGNED	1	DLVTG2LN	TARGET ENTRY LENGTH
2	(2)	CHARACTER	*	DLVTG2NM	TARGET ENTRY NAME



## Constants

Len	Type	Value	Name	Description
CONSTANT FOR DLVHDCR - DELIVER REQUEST				
3	HEX	810812	DLVHDCR	DELIVER RU 81 - NETWORK SERVICES, LOGICAL SERVICES 08 - MANAGEMENT SERVICES 12 - DELIVER REQUEST CODE
CONSTANT FOR DLVFMT				
1	HEX	00	DLVFMT0	FORMAT 0
THE FOLLOWING CONSTANTS ARE FOR DLVORGTP, DLVTRGTP, & DLVTOPTP				
1	HEX	00	DLVTP0	END OF LIST TAG
1	HEX	F1	DLVTPPU	PU TYPE
1	HEX	F3	DLVTPLU	LU TYPE
1	HEX	F4	DLVTSSCP	SSCP TYPE
1	HEX	F5	DLVTPPRC	PROCEDURE TYPE
1	HEX	F7	DLVTPPLS	LINK STATION TYPE
1	HEX	F9	DLVTPLNK	LINK TYPE
1	HEX	2D	DLVTRGP	LINE GROUP TYPE
1	HEX	FC	DLVTCLNK	CHANNEL LINK TYPE
1	HEX	E3	DLVTPPRT	SESSION PARTNER TYPE
1	HEX	B3	DLVTPPCD	PCID TYPE
1	HEX	FF	DLVTPERR	ERROR CODE TYPE

## Cross Reference

Name	Hex Offset	Hex Value	Level
DLVFLGS	4		2
DLVFMT	3		2
DLVHDR	0		2
DLVMLTNM	4	04	3
DLVNCSMH	4	01	3
DLVNSLN	6		2
DLVNSRU	8		2
DLVORG	0		1
DLVORGLN	1		2
DLVORGNM	2		2
DLVORGTP	0		2
DLVRSV1	4	80	3
DLVRSV2	5		2
DLVSECNT	4	02	3
DLVTARG	0		1
DLVTARG2	0		1
DLVTG2LN	1		2
DLVTG2NM	2		2
DLVTG2TP	0		2
DLVTOP	0		1
DLVTOPLN	1		2
DLVTOPNM	2		2
DLVTOPTP	0		2
DLVTRGLN	1		2
DLVTRGNM	2		2
DLVTRGTP	0		2
ISTDLVRU	0		1

RU

## Delete Network Resource RU (DNRRU)

<b>Function:</b>	DNRRU is sent to free a network address assigned to a link or adjacent link station. This RU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'4102FFBF' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTDNRRU	(DELETENR) (AM)RU
0	(0)	CHARACTER	4	DNRNSHDR	NS HEADER
4	(4)	UNSIGNED	1	DNRTYPE	RESOURCE TYPE (USED ONLY FOR APPLICATION)
5	(5)	UNSIGNED	1	DNRREASN	REASON BYTE (USED ONLY FOR APPLICATIONS)
6	(6)	CHARACTER	*	DNRADDR	RESOURCE NETWORK ADDRESS

### CONTENTS OF DNRADDR

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	DNRLU	
0	(0)	UNSIGNED	2	DNRNALU	RESOURCE NETWORK ADDRESS
0	(0)	SIGNED	2	DNRLEM	ENA CAPABLE
2	(2)	CHARACTER	*	DNRDATA	RPRNAME OF RESOURCE PROVIDED BY CONFIGURATION SERVICES FOR DNRREASN DNRRSCS

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR NETWORK SERVICES HEADER (DNRNSHDR)				
4	HEX	4102FFBF	DNRHDCR	
CONSTANTS FOR RESOURCE TYPE FIELD (DNRTYPE)				
4	DECIMAL	0	DNRUNSPC	UNSPECIFIED - UNAPPLICABLE
4	DECIMAL	1	DNRSBLU	SUBAREA LU (APPL)
CONSTANTS FOR REASON FIELD (DNRREASN)				
4	DECIMAL	0	DNRRUNSP	UNSPECIFIED - NOT APPLICABLE
4	DECIMAL	1	DNRRSCS	CONFIGURATION SERVICES COMPLETE
4	DECIMAL	2	DNRRSTSC	TSC COMPLETE
4	DECIMAL	3	DNRRSAPC	APPC COMPLETE

RU

**Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>	<b>Level</b>
DNRADDR	6		2
DNRDATA	2		2
DNRELEM	0		3
DNRLU	0		1
DNRNALU	0		2
DNRNSHDR	0		2
DNRREASN	5		2
DNRTYPE	4		2
ISTDNRRU	0		1

RU



## Deactivate Physical Unit RU (DPURU)

<b>Function:</b>	DPURU is sent to deactivate the session between the SSCP and the PU.
<b>RU Header:</b>	X'12' (request code)
<b>RU Type:</b>	SC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTDPURU	DEACTIVATE PU REQUEST RU
0	(0)	CHARACTER	1	DPUREQCD	DACTPU REQUEST CODE
1	(1)	CHARACTER	1	DPUTYPE	TYPE DEACTIVATION
2	(2)	CHARACTER	*	DPUCAUS	CAUSE IF PRESENT

DACTPU CAUSE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	DPUCS	DACTPU CAUSE--PRESENT IF TYPE '03'
0	(0)	CHARACTER	1	DPUCAUSE	CAUSE

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR REQUEST CODE FIELD (DPUREQCD)				
1	HEX	12	DPURCD	DACTPU REQUEST CODE
VALUES FOR TYPE (DPUTYPE)				
1	HEX	01	DPUFINAL	FINAL USE
1	HEX	02	DPUNOFIN	NOT FINAL USE--PHYSICAL CONNECTION SHOULD NOT BE BROKEN
1	HEX	03	DPUSON	SESSION OUTAGE NOTIFICATION
VALUES FOR CAUSE (DPUCAUSE)				
1	HEX	07	DPUVRIN	VR_INOP: THE VIRTUAL ROUTE CARRYING THE (SSCP/PU) SESSION HAS BECOME INOPERATIVE FORCING DEACT OF SSCP/PU SESSION
1	HEX	08	DPURXIN	REX_INOP: THE ROUTE EXTENSION SERVING THE (SSCP/PU) SESSION HAS BECOME INOPERATIVE FORCING DEACT OF SSCP/PU SESSION
1	HEX	09	DPUHIAR	HIERARCHICAL RESET: THE IDENTIFIED SESSION HAD TO BE RESET DUE TO A POSITIVE RESPONSE TO ACTPU
1	HEX	0B	DPUDACVR	DACTVR: THE IDENTIFIED (SSCP/ PU) SESSION HAD TO BE DEACT- IVATED BECAUSE OF A FORCED DEACTIVATION OF THE VIRTUAL ROUTE BEING USED BY THE (SSCP/PU) SESSION
1	HEX	0C	DPUFAIL	FAIL: UNRECOVERABLE. THE IDENTIFIED SESSION HAD TO BE RESET BECAUSE OF ABEND OF THE SSCP/PU TASK
1	HEX	0E	DPURFAIL	FAIL: RECOVERABLE.THE IDENTIFIED SESSION HAD TO BE RESET BECAUSE OF ABEND OF THE SSCP/PU TASK
1	HEX	10	DPUALSRS	ALS RESET: PERIPHERAL ALS OWNED BY THE SENDING SSCP SHOULD BE RESET
1	HEX	11	DPUGVBK	GIVEBACK: THE SENDING SSCP RELINQUISHES OWNERSHIP OF OWNED RESOURCES

RU

## Direct Search List RU (DSL)

<b>Function:</b>	DSL identifies a control list type and specifies a list search argument to be used at the receiving SSCP.
<b>RU Header:</b>	X'818627' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTDSL	
0	(0)	CHARACTER	3	DSLHDR	COMMON HEADER FOR NETWORK SERVICES RU
0	(0)	CHARACTER	1	DSLSST	LOGICAL   PHYSICAL RU TYPE INDICATOR
1	(1)	CHARACTER	1	DSLCLAT	NS SUBTYPE - CDRM INDICATOR
2	(2)	CHARACTER	1	DSLREQ	REQUEST CODE
3	(3)	CHARACTER	1	DSLTYPE	TYPE LIST
4	(4)	CHARACTER	*	DSLOVLAY	ALLOW OVERLAY FOR CONTROL LIST TYPES

NOTE: MAPPING FOR CONTROL LIST TYPE 01 IS PROVIDED BELOW.  
(CONTROL LIST TYPE 02 AND CONTROL LIST TYPE 03 ARE MAPPED BY ISTRIC DEFINED ON DSLOVLAY.)

TYPE 01 IS USED TO DETERMINE THE CAPABILITIES OF TARGET LU.  
TYPE 02 IS USED TO DETERMINE CAPABILITIES OF TARGET LU WHEN CONCERNED WITH CROSS NETWORK REROUTING.  
TYPE 03 IS USED IN ONE OF TWO WAYS-

- 1 - A PREDESIGNATED SSCP IS REQUIRED TO DETERMINE THE PARALLEL SESSION CAPABILITIES OF THE SSCP TO WHICH THE GW SSCP ON THE DLU SIDE OF THE GWN WILL FORWARD THE CDINIT AND/OR THE NETID ON THE DLU SIDE OF THE GWN.
- 2 - AN SSCP PERFORMING COS NAME ALIASING IS REQUIRED TO LEARN THE NETWORK ID ON THE DLU SIDE OF THE GWN.

MAPPING FOR CONTROL LIST TYPE 01.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
4	(4)	STRUCTURE	2	DSLTYPE1	CONTROL LIST TYPE 01
4	(4)	CHARACTER	2	DSLNAME	SEARCH ARGUMENT (RSCE NETWORK NAME)
4	(4)	CHARACTER	1	DSLUTP	RESOURCE TYPE
5	(5)	UNSIGNED	1	DSLLULN	LENGTH OF LU NAME
6	(6)	CHARACTER	*	DSLLUNM	LU SYMBOLIC NAME

MAPPING FOR THE DATA PORTION OF THE RESPONSE RU FOR THE DIRECT SEARCH LIST. CONTROL LIST 01 IS RETURNED IN RESPONSE TO TYPE 01 AND 02  
THE NS HEADER IS NOT MAPPED IN THIS SECTION

0	(0)	STRUCTURE	4	DSLRESP	RESPONSE RU FOR TYPE 01 AND 02
0	(0)	CHARACTER	1	DSLUSTAT	LU STATUS
		1.. ..	*		NOT USED - AVAILABLE
		.1.. ..		DSLLUAV	0 = LU UNAVAILABLE 1 = LU AVAILABLE
		..11 ..		DSLMOILU	MEANINGFUL ONLY IF THE LU IS UNAVAILABLE (DSLLUAV = 0)
		.... 1..		DSLSLCE	0 = SSCP TO LU CONNECTION EXISTS 1 = NO SSCP TO LU CONNECTION EXISTS
		.... .111		DSLRSV1	RESERVED
1	(1)	CHARACTER	1	DSLUIINFO	LU INFORMATION
		1.. ..		DSLINHST	0 = LU DOES NOT RESIDE IN PU-T5 NODE 1 = LU RESIDES IN PU-T5 NODE
		.1.. ..		DSLPRCAP	0 = LU IS NOT PRIMARY CAPABLE 1 = LU IS PRIMARY CAPABLE
		..11 111.		DSLRSV2	RESERVED

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
		.... ...1		DSLAPPL	0 = LU IS ACCEPTING INITIATES OR IS ACCEPTING LOGONS 1 = LU IS TEMPORARILY BLOCKING INITIATES AND LOGONS
2	(2)	CHARACTER	2	DSLSEECT	SESSION COUNT

MAPPING FOR CONTROL LIST 03 WHICH IS RETURNED IN RESPONSE TO TYPE 03

Offsets		Type	Len	Name (Dim)	Description
Dec	Hex				
0	(0)	STRUCTURE	9	DSLRSR3	
0	(0)	CHARACTER	1	DSLPCAP	CAPABILITY BYTE
		1... ....		DSLPCAP	PARALLEL SESSION CAPABILITY OF THE SSCP TO WHICH THE GATEWAY SSCP ON THE DLU SIDE OF THE GWN WILL FOWARD CDINIT. 0-SSCP DOES NOT HAVE PARALLEL SESSION CAPABILITY 1-SSCP DOES HAVE PARALLEL SESSION CAPABILITY
		.1.. ....		DLENCAP	ENA CAPABILITIES FLAG 0-SSCP ON DLU SIDE OF GWN IS PRE-ENA 1-SSCP ON DLU SIDE OF GWN IS ENA CAPABLE
1	(1)	..11 1111	8	DSLRSRV	UNUSED BITS
		CHARACTER		DSLNETID	NETID OF ADJ NETWORK

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR DSLHDR				
3	HEX	818627	DSLHDC	81 - NETWORK SERVICES, LOGICAL SERVICES 86 - SESSION SERVICES, CDRM 27 - DIRECT SEARCH LIST
CONSTANT FOR DSLTYPE				
1	HEX	01	DSLTYPEC	LU STATUS LIST
1	HEX	02	DSLTYPE2	CROSS NETWORK LU STATUS LIST
1	HEX	03	DSLTYPE3	CROSS NETWORK SSCP LIST
CONSTANT FOR RESOURCE TYPE - DSLLUTP				
1	HEX	F3	DSL3	LOGICAL UNIT
CONSTANT FOR DSLMOILU				
0	BIT	00	DSLLSCE	LU SESSION COUNT EXHAUSTED
0	BIT	01	DSLLBTD	LU BEING TAKEN DOWN
0	BIT	10	DSLLNE	LU NOT ENABLED (IMPLIMENTATION: LU IS PERMANENTLY BLOCKING LOGONS

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
DSLAPPL	1	01	3	DSLPCAP	0	80	3
DSLPCAP	0		2	DSLREQ	2		3
DSLPCAT	1		3	DSLRESP	0		1
DLENCAP	0	40	3	DSLRSR3	0		1
DSLHDR	0		2	DSLRSRV	0	20	3
DSLINHST	1	80	3	DSLRSV1	0	04	3
DSLLUAV	0	40	3	DSLRSV2	1	20	3
DSLLULN	5		3	DSLSEECT	2		2
DSLLUNM	6		3	DSLSLCE	0	08	3
DSLLUTP	4		3	DSLST	0		3
DSLMOILU	0	20	3	DSLTYPE	3		2
DSLNAME	4		2	DSLTYPE1	4		1
DSLNETID	1		2	DSLUIINFO	1		2
DSLOVLAY	4		2	DSLUSTAT	0		2
DSLPRCAP	1	40	3	ISTDSL	0		1



## Display Storage RU (DSTRU)

<b>Function:</b>	DSTRU requests the PU to send an RSTRU containing a specified number of bytes of storage beginning at a specified location.
<b>RU Header:</b>	X'010331' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	13	ISTDSTRU	
0	(0)	CHARACTER	3	DSTHDR	NS HEADER
3	(3)	CHARACTER	2	DSTNA	NETWORK ADDRESS OF HEADER
3	(3)	CHARACTER	2	DSTELEM	ELEMENT NUMBER, IF ENA CAPABLE
5	(5)	CHARACTER	1	DSTTYPE	DISPLAY TYPE
6	(6)	CHARACTER	1	DSTRSV1	RESERVED
7	(7)	UNSIGNED	2	DSTLEN	LENGTH OF DISPLAY
9	(9)	UNSIGNED	4	DSTADDR	STARTING ADDRESS OF DISPLAY

### Constants

Len	Type	Value	Name	Description
3	HEX	010331	DSTHDRC	

#### CONSTANTS FOR DISPLAY TYPE (DSTTYPE)

1	HEX	01	DSTTNCG	NON-CONGRUENT (BUBBLY) STORAGE
1	HEX	02	DSTSTAT	STATIC SNAPSHOT DISPLAY
1	HEX	12	DSTMOSS	MOSS DUMP DISPLAY
1	HEX	14	DSTPMOSS	PURGE MOSS DUMP
1	HEX	18	DSTDISK	MOSS DISK INFORMATION
1	HEX	22	DSTCSP	CSP DUMP DISPLAY
1	HEX	24	DSTPCSP	PURGE CSP DUMP
1	HEX	32	DSTTHDR	TRANSFER NCP DUMP HEADER
1	HEX	42	DSTTNCP	TRANSFER NCP MAIN STORAGE DUMP
1	HEX	44	DSTPNCP	PURGE NCP DUMP

RU

## Explicit Route Activate Reply RU (EARRU)

<b>Function:</b>	EARRU is returned to signal the successful or unsuccessful completion of the NC-ER-ACT.
<b>RU Header:</b>	X'0C' (request code)
<b>RU Type:</b>	NC

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	49	ISTEARRU	EXPLICIT ROUTE ACTIVATE REPLY RU	
0	(0)	CHARACTER	1	EARHDR	REQUEST CODE FIELD (NC RU)	
1	(1)	CHARACTER	2	EARR00	RESERVED - NOT AVAILABLE	
3	(3)	CHARACTER	1	EARFMT	FORMAT IDENTIFIER	
4	(4)	UNSIGNED	1	EARTYP	TYPE CODE FOR ER ACT REPLY	
5	(5)	UNSIGNED	1	EARLEN	ER LENGTH (NUMBER OF TRANS GROUPS)	
6	(6)	UNSIGNED	1	EARMAX	MAXIMUM EXPLICIT ROUTE LENGTH	
7	(7)	CHARACTER	4	EAROSA	ORIGINATOR SUBAREA NUMBER (DESTINATION OF ORIGINAL ER_ACT)	
11	(B)	CHARACTER	1	EARR01	RESERVED - NOT AVAILABLE	
12	(C)	UNSIGNED	1	EARERN	EXPLICIT ROUTE NUMBER	
		1111 ....			RESERVED - NOT AVAILBLE	
		.... 1111		*	EXPLICIT ROUTE NUMBER IN ARCHITECTURE	
13	(D)	CHARACTER	4	EARDSA	DESTINATION SUBAREA NUMBER (ORIGIN OF ORIGINAL ER_ACT)	
17	(11)	BITSTRING	2	EARRERN	REVERSE EXPLICIT ROUTE NUMBER MASK	
19	(13)	CHARACTER	2	EARMAXP1	MAXIMUM PIU SIZE (IN ER ACT DIRECTION)	
21	(15)	CHARACTER	2	EARMAXP2	MAXIMUM PIU SIZE (IN ER ACT REPLY DIRECTION)	
23	(17)	CHARACTER	6	EARR02	RESERVED - NOT AVAILABLE	
29	(1D)	CHARACTER	8	EARARSI	ACTIVATION REQUEST SEQUENCE ID	
37	(25)	BITSTRING	2	EARR03	RESERVED	
39	(27)	CHARACTER	4	EARRSA	REPLY SUBAREA (SNDR OF ER_ACT_REPLY)	
43	(2B)	CHARACTER	4	EARASA	ADJACENT TG SUBAREA	
47	(2F)	UNSIGNED	1	EARTGN	TRANSMISSION GROUP NUMBER	
48	(30)	BITSTRING	1	EARR04	RESERVED - NOT AVAILABLE	

RU

### Constants

Len	Type	Value	Name	Description
1	HEX	0C	EARRCD	ER ACTIVATE REPLY REQUEST CODE
CONSTANTS FOR FORMAT IDENTIFIERS (EARFMT)				
1	HEX	01	EARF01	TO INDICATE FORMAT = 1
4	DECIMAL	0	EARTACTD	ER ACTIVATED
4	DECIMAL	1	EARTRACE	NOT ACTIVATED - RACE
4	DECIMAL	2	EARTERNR	NOT ACTIVATED - NOT REVERSIBLE
4	DECIMAL	3	EARTMIGR	NOT ACTIVATED - MIGRATION NODE ENCOUNTERED - ER0 MAY BE USED
4	DECIMAL	4	EARTXML	NOT ACTIVATED - EXCEEDS MAXIMUM LENGTH
4	DECIMAL	5	EARTTGNA	NOT ACTIVATED - TG NOT ACTIVE
4	DECIMAL	6	EARTERNR	NOT ACTIVATED - ER NOT DEFINED
4	DECIMAL	7	EARTINNM	NOT ACTIVATED - MIGRATION NODE ENCOUNTERED - ER0 MAY NOT BE USED
CONSTANTS FOR RESERVED FIELDS				
2	HEX	0000	EARZ00	TO VERIFY EARR00 = 0
1	HEX	00	EARZ01	TO VERIFY EARR01 = 0
6	HEX	000000000000	EARZ02	TO VFY EARR02 = 0
2	HEX	0000	EARZ03	TO VERIFY EARR03 = 0
1	HEX	00	EARZ04	TO VERIFY EARR04 = 0

**Cross Reference**

<b>Name</b>	<b>Hex Offset</b>	<b>Hex Value</b>	<b>Level</b>
EARARSI	1D		2
EARASA	2B		2
EARDSA	D		2
EARERN	C		2
EARFMT	3		2
EARHDR	0		2
EARLEN	5		2
EARMAX	6		2
EARMAXP1	13		2
EARMAXP2	15		2
EAROSA	7		2
EARRERN	11		2
EARRSA	27		2
EARR00	1		2
EARR01	B		2
EARR02	17		2
EARR03	25		2
EARR04	30		2
EARTGN	2F		2
EARTYP	4		2
ISTEARRU	0		1

## Echo Test RU (ECTRU)

<b>Function:</b>	ECTRU carries test data to the target LU. The test data is the same as that carried in the corresponding RQERU.
<b>RU Header:</b>	X'810389' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTECTR	
0	(0)	CHARACTER	3	ECTHDR	NS HEADER
3	(3)	UNSIGNED	1	ECTDTLN	LENGTH OF DATA
4	(4)	CHARACTER	*	ECTDATA	ECHO DATA

### Constants

Len	Type	Value	Name	Description
3	HEX	810389	ECTHDRC	



## Explicit Route Activate RU (ERARU)

<b>Function:</b>	The ER manager in a subarea node issues ERARU to activate an explicit route.
<b>RU Header:</b>	X'0B' (request code).
<b>RU Type:</b>	NC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	37	ISTERARU	EXPLICIT ROUTE ACTIVATE RU
0	(0)	CHARACTER	1	ERAHDR	REQUEST CODE FIELD (NC RU)
1	(1)	CHARACTER	2	ERAR00	RESERVED FOR FUTURE ASSIGNMENT
3	(3)	CHARACTER	1	ERAFMT	FORMAT IDENTIFIER
4	(4)	CHARACTER	1	ERAR01	RESERVED FOR FUTURE ASSIGNMENT
5	(5)	UNSIGNED	1	ERALEN	ER LENGTH (NUMBER OF TRANS GROUPS)
6	(6)	UNSIGNED	1	ERAMAX	MAXIMUM EXPLICIT ROUTE LENGTH
7	(7)	CHARACTER	4	ERADSA	DESTINATION SUBAREA NUMBER
11	(B)	BITSTRING	1	ERAFLG	FLAGS FIELD
		1... ....		ERASDLES	1 = SENDER IS SYSDEFLESS NODE (NOT SET BY VTAM)
		.111 1111		ERAR02	RESERVED
12	(C)	UNSIGNED	1	ERAERN	EXPLICIT ROUTE NUMBER
		1111 ....		*	RESERVED IN THE ARCHITECTURE
		.... 1111		*	EXPLICIT ROUTE NUMBER IN ARCH
13	(D)	CHARACTER	4	ERAOSA	ORIGINATOR SUBAREA NUMBER
17	(11)	BITSTRING	2	ERARERN	REVERSE EXPLICIT ROUTE NUMBER MASK
19	(13)	UNSIGNED	2	ERAMAXP	MAX PIU SIZE (IN THIS DIR)
21	(15)	CHARACTER	8	ERAR03	RESERVED FOR FUTURE ASSIGNMENT
29	(1D)	CHARACTER	8	ERAARSI	ACTIVATION REQUEST SEQUENCE ID



### Constants

Len	Type	Value	Name	Description
CONSTANT FOR REQUEST CODE FIELD (ERAHDR)				
1	HEX	0B	ERARCD	EXPLICIT ROUTE ACTIVATE REQ CODE
CONSTANTS FOR FORMAT IDENTIFIERS (ERAFMT)				
1	HEX	01	ERAF01	TO INDICATE FORMAT = 1
CONSTANTS FOR RESERVED FIELDS				
2	HEX	0000	ERAZ00	TO VERIFY ERAR00 = 0
1	HEX	00	ERAZ01	TO VERIFY ERAR01 = 0
0	BIT	0000000	ERAZ02	TO VFY ERAR02 = 0
8	HEX	0000000000000000	ERAZ03	TO VFY ERAR03 = 0



## Cross Reference

Name	Hex Offset	Hex Value	Level
ERAARSI	1D		2
ERADSA	7		2
ERAERN	C		2
ERAFLG	B		2
ERAFMT	3		2
ERAHDR	0		2
ERALEN	5		2
ERAMAX	6		2
ERAMAXP	13		2
ERAOSA	D		2
ERARERN	11		2
ERAR00	1		2
ERAR01	4		2
ERAR02	B	40	3
ERAR03	15		2
ERASDLES	B	80	3
ISTERARU	0		1

## Explicit Route Inoperative RU (ERIRU)

<b>Function:</b>	ERIRU is sent when the last remaining link of the transmission group has failed or is disconnected by a link-level procedure.
<b>RU Header:</b>	X'06' (request code)
<b>RU Type:</b>	NC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	15	ISTERIRU	EXPLICIT ROUTE INOPERATIVE RU
0	(0)	CHARACTER	1	ERIHDR	REQUEST CODE FIELD (NC RU)
1	(1)	CHARACTER	2	ERIR00	RESERVED - NOT AVAILABLE
3	(3)	CHARACTER	1	ERIFMT	FORMAT IDENTIFIER
4	(4)	UNSIGNED	1	ERIRSN	REASON CODE
5	(5)	CHARACTER	4	ERIOSA	ORIGINATING SUBAREA NUMBER
9	(9)	CHARACTER	4	ERIASA	ADJACENT (TO OSA) SUBAREA NUMBER
13	(D)	UNSIGNED	1	ERITGN	TRANSMISSION GROUP NUMBER
14	(E)	UNSIGNED	1	ERICNT	COUNT OF DESTINATION SUBAREAS ON ER
15	(F)	CHARACTER	*	ERIDTA	BEGINNING OF INOPERATIVE ER DATA

MAP OF INOPERATIVE EXPLICIT ROUTE DATA (ONE PER DESTINATION SUBAREA)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ERIERI	INOPERATIVE EXPLICIT ROUTE ID
0	(0)	CHARACTER	4	ERIDSA	DESTINATION SUBAREA NUMBER
4	(4)	BITSTRING	2	ERIERM	EXPLICIT ROUTE MASK (BIT 0 = ERN 0)

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR REQUEST CODE FIELD (ERIHDR)				
1	HEX	06	ERIRCD	EXPLICIT ROUTE INOP REQ CODE
CONSTANTS FOR FORMAT IDENTIFIERS (ERIFMT)				
1	HEX	01	ERIF01	TO INDICATE FORMAT = 1
CONSTANTS FOR REASON CODES (ERIRSN)				
4	DECIMAL	1	ERIERR	INOPERATIVE RESULT OF TG FAILURE
4	DECIMAL	2	ERIDSC	INOPERATIVE RESULT OF DISCONTACT
CONSTANTS FOR RESERVED FIELDS				
2	HEX	0000	ERIZ00	TO VERIFY ERIR00 = 0

## Cross Reference

Name	Hex Offset	Hex Value	Level
ERIASA	9		2
ERICNT	E		2
ERIDSA	0		2
ERIDTA	F		2
ERIERI	0		1
ERIERM	4		2
ERIFMT	3		2
ERIHDR	0		2
ERIOSA	5		2
ERIRSN	4		2
ERIR00	1		2
ERITGN	D		2
ISTERIRU	0		1



## Explicit Route Operative RU (ERORU)

<b>Function:</b>	ERORU is generated when a link of an inoperative transmission group becomes operative.
<b>RU Header:</b>	X'0F' (request code)
<b>RU Type:</b>	NC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	15	ISTERORU	EXPLICIT ROUTE OPERATIVE RU
0	(0)	CHARACTER	1	EROHDR	REQUEST CODE FIELD (NC RU)
1	(1)	CHARACTER	2	EROR00	RESERVED - NOT AVAILABLE
3	(3)	CHARACTER	1	EROFMT	FORMAT IDENTIFIER
4	(4)	CHARACTER	1	EROR01	RESERVED - NOT AVAILABLE
5	(5)	CHARACTER	4	EROOSA	ORIGINATING SUBAREA NUMBER
9	(9)	CHARACTER	4	EROASA	ADJACENT SUBAREA NUMBER
13	(D)	UNSIGNED	1	EROTGN	TRANSMISSION GROUP NUMBER
14	(E)	UNSIGNED	1	EROCNT	COUNT OF DESTINATION SUBAREAS ROUTED TO USING ER
15	(F)	CHARACTER	*	ERODTA	BEGINNING OF OPERATIVE ER DATA

MAP OF OPERATIVE EXPLICIT ROUTE DATA (ONE PER EXPLICIT ROUTE)

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	EROERO	OPERATIVE EXPLICIT ROUTE ID
0	(0)	CHARACTER	4	ERODSA	DESTINATION SUBAREA NUMBER
4	(4)	BITSTRING	2	EROERM	EXPLICIT ROUTE MASK (BIT 0 = ERN 0)

### Constants

Len	Type	Value	Name	Description
1	HEX	0F	ERORCD	EXPLICIT ROUTE OPERATIVE REQUEST CODE
CONSTANTS FOR FORMAT IDENTIFIERS (EROFMT)				
1	HEX	01	EROF01	TO INDICATE FORMAT = 1
CONSTANTS FOR RESERVED FIELDS				
2	HEX	0000	EROZ00	TO VERIFY EROR00 = 0
1	HEX	00	EROZ01	TO VERIFY EROR01 = 0

### Cross Reference

Name	Hex Offset	Hex Value	Level
EROASA	9		2
EROCNT	E		2
ERODSA	0		2
ERODTA	F		2
EROERM	4		2
EROERO	0		1
EROFMT	3		2
EROHDR	0		2
EROOSA	5		2
EROR00	1		2
EROR01	4		2
EROTGN	D		2
ISTERORU	0		1

## Enter Test Mode RU (ETMRU)

<b>Function:</b>	ETMRU requests the CNM services associated with the PU to manage a test procedure. The test procedure begins with the ETMRU request that initiates a test and ends when the test results and status are returned in an RCTRU reply corresponding to the initial ETMRU request.
<b>RU Header:</b>	X'410305' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	13	ISTETMRU	TESTMODE RU
0	(0)	CHARACTER	3	ETMHDR	NS HEADER
3	(3)	CHARACTER	5	ETMCSMH	CNM HEADER
3	(3)	CHARACTER	2	ETMCSMID	CNM TARGET ID
5	(5)	BITSTRING	2	ETMCORR	CORRELATOR
		11.. ....		*	RESERVED
		..11 ....		ETMCIDD	CNM TARGET ID DESCRIPTOR
5	(5)	BITSTRING	1	ETMPRID	PROCEDURE RELATION IDENTIFIER
7	(7)	BITSTRING	1	ETMRSI	REQUEST SPECIFIC INFORMATION
		1... ....		ETMEAMI	ENHANCED ADDRESS MANAGEMENT (EAM) INDICATOR
					0 - EAM NOT SUPPORTED 1 - EAM SUPPORTED
		.1.. ....		ETMSDAI	STATIC/DYNAMIC ADDRESS INDICATOR 0 - RESOURCE IS STATIC 1 - RESOURCE IS DYNAMIC
		..11 1111		ETMTYPE	TYPE CODE
8	(8)	CHARACTER	1	ETMRSV1	RESERVED, NOT AVAILABLE
9	(9)	UNSIGNED	2	ETMCNT	TEST INITIALIZATION AND TERMINATION CODES
11	(B)	UNSIGNED	2	ETMTPS	NUMBER OF TRANSMISSIONS PER SERVICE OF THE SECONDARY LINK STATION ON A MULTI-POINT LINK
13	(D)	CHARACTER	*	ETMDATA	TEST DATA

RU

### Constants

Len	Type	Value	Name	Description
3	HEX	410305	ETMHDR	TESTMODE HEADER
CONSTANT FOR TEST TYPE (ETMTYPE)				
0	BIT	000001	ETMTYP1	LINK LEVEL 2 TEST
CONSTANTS FOR SPECIAL VALUES OF EMTCNT				
2	HEX	0000	ETMSTOP	STOP TEST
2	HEX	FFFF	ETMCONT	CONTINUOUS TEST

### Cross Reference

Name	Hex Offset	Hex Value	Level
ETMCIDD	5	20	4
ETMCNT	9		2
ETMCORR	5		3
ETMCSMH	3		2
ETMCSMID	3		3
ETMDATA	D		2
ETMEAMI	7	80	4
ETMHDR	0		2
ETMPRID	5		4
ETMRSI	7		3
ETMRSV1	8		2
ETMSDAI	7	40	4
ETMTPS	B		2
ETMTYPE	7	20	4
ISTETMRU	0		1

## Explicit Route Test Reply or Explicit Route Tested RU (ETRRU)

<b>Function:</b>	ETRRU is either: <ol style="list-style-type: none"> <li>Returned to signal the successful or unsuccessful completion of the NC-ER-TEST or</li> <li>Sent by a subarea node to one or more SSCPs to provide the status of an ER as determined by explicit route test procedures.</li> </ol>
<b>RU Header:</b>	<ol style="list-style-type: none"> <li>X'0A' (request code) (NC_ER_TEST_REPLY)</li> <li>X'410386' (NS header) (NC_ER_TESTED)</li> </ol>
<b>RU Type:</b>	<ol style="list-style-type: none"> <li>NC</li> <li>FMD</li> </ol>

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	48	ISTETRRU	EXPLICIT ROUTE TEST REPLY RU	
0	(0)	CHARACTER	3	ETRHDR	REQUEST CODE FIELD (FMD RU)	
0	(0)	CHARACTER	1	ETRRCD	REQUEST CODE FIELD (NC RU)	
1	(1)	CHARACTER	2	*	RESERVED - NOT AVAILABLE	
3	(3)	CHARACTER	1	ETRFMT	FORMAT IDENTIFIER	
4	(4)	UNSIGNED	1	ETRTYP	TYPE CODE FOR ER TST RESULTS	
5	(5)	UNSIGNED	1	ETRLLEN	ER LENGTH (NUMBER OF TRANS GROUPS)	
6	(6)	UNSIGNED	1	ETRMXX	MAXIMUM EXPLICIT ROUTE LENGTH (FROM ER_TEST RU)	
7	(7)	CHARACTER	4	ETROSA	ORIGINATOR SUBAREA NUMBER (DESTINATION OF ER_TEST RU)	
11	(B)	BITSTRING	1	ETRRTDTA	FLAG BYTE	
		1... ....		ETRCNFIG	0 - COLLECT CONFIGURATION DATA 1 - DO NOT COLLECT CONFIGURATION DATA	
		.1.. ....		ETRCNGES	0 - DO NOT COLLECT CONGESTION DATA 1 - COLLECT CONGESTION DATA	
		..1. ....		ETRRSFMT	VR DATA COLLECTION INDICATOR 0 - SEND FORMAT 1 RSP(ROUTE-TEST) 1 - SEND FORMAT 2 RSP(ROUTE-TEST)	
		...1 1111		*	RESERVED	
12	(C)	UNSIGNED	1	ETRERN	EXPLICIT ROUTE NUMBER	
		1111 ....		*	RESERVED - NOT AVAILABLE	
13	(D)	CHARACTER	4	ETRDSA	DESTINATION SUBAREA NUMBER - THE SUBAREA ADDRESS OF THE SENDER OF THE ER_TEST RU IN THE ADDRESS SPACE AS DEFINED BY THE NETWORK ID (ETRNETID)	
17	(11)	BITSTRING	2	ETRRERN	REVERSE EXPLICIT ROUTE NUMBER MASK	
19	(13)	CHARACTER	2	ETRMXXP1	MAXIMUM PIU SIZE ON REVERSE ERN	
21	(15)	CHARACTER	2	ETRMXXP2	MAXIMUM PIU SIZE TOTALED BY ER_TEST	
23	(17)	CHARACTER	6	ETRSSCPA	ORIGIN (OF NS.ER.TEST) SSCP ADDRESS	
23	(17)	CHARACTER	4	ETRCPSA	ORIGIN SSCP SUBAREA NUMBER	
27	(1B)	CHARACTER	2	ETRCPEL	ORIGIN SSCP ELEMENT NUMBER	
29	(1D)	CHARACTER	10	ETRURC	USER REQUEST CORRELATOR	
39	(27)	CHARACTER	4	ETRRSA	REPLY SUBAREA (ORIG OF ER TST REPLY)	
43	(2B)	CHARACTER	4	ETRASAS	ADJACENT TG SUBAREA	
47	(2F)	UNSIGNED	1	ETRTGN	TRANSMISSION GROUP NUMBER	
48	(30)	CHARACTER	*	ETREXT	EXTENSION FOR FORMAT 2 OF NS_ER_TESTED	

END OF NC\_ER\_TEST\_REPLY AND FORMAT 1 NS\_ER\_TESTED

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	15	ETRFMT2	MAPPING FOR FORMAT 2 EXTENSION TO NS_ER_TESTED RU	
0	(0)	SIGNED	4	ETROASA	SUBAREA OF NODE ADJACENT TO ORIGIN SUBAREA OF ROUTE BEING TESTED	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
4	(4)	UNSIGNED	1	ETROATGN	TRANSMISSION GROUP NUMBER FOR TG TO NODE IDENTIFIED IN ETROASA FOR THE ER THAT WAS TESTED	
5	(5)	CHARACTER	8	ETRNETID	NETWORK ID OF NETWORK CONTAINING THE ER	
13	(D)	BITSTRING	2	ETRVRMSK	BIT MASK OF VRS THAT USE THE ER	
15	(F)	CHARACTER	*	ETRVEC	CONFIGURATION DATA APPENDED HERE	

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR REQUEST CODE FIELDS (ETRHDR, ETRRCD)				
1	HEX	0A	ETRNCRCD	ETRRCD = NC.ER.TEST.REPLY
3	HEX	410386	ETRNSRCD	ETRHDR = NS.ER.TESTED
CONSTANTS FOR FORMAT IDENTIFIERS (ETRFMT)				
1	HEX	01	ETRF01	TO INDICATE FORMAT = 1
1	HEX	02	ETRF02	TO INDICATE FORMAT = 2
CONSTANTS FOR ER TEST RESULTS TYPE (ETRTP)				
4	DECIMAL	0	ETRSUCC	SUCCESSFUL - REACHED DESTINATION
4	DECIMAL	2	ETRTERNR	UNSUCCESSFUL - NOT REVERSIBLE
4	DECIMAL	3	ETRTMIGR	UNSUCCESSFUL - NODE ENCOUNTERED WHICH DOES NOT SUPPORT ER/VR PROTOCOLS (I.E. A "MIGRATION" NODE) - ERO MAY BE USED
4	DECIMAL	4	ETRTXMXL	UNSUCCESSFUL - EXCEEDS MAXIMUM LENGTH
4	DECIMAL	5	ETRTTGNA	UNSUCCESSFUL - TG NOT ACTIVE
4	DECIMAL	6	ETRTERND	UNSUCCESSFUL - ER NOT DEFINED
4	DECIMAL	7	ETRTINNM	UNSUCCESSFUL - NODE ENCOUNTERED WHICH DOES NOT SUPPORT ER/VR PROTOCOLS (I.E. A "MIGRATION" NODE) - ERO MAY NOT BE USED



### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ETRAS	2B		2	ETRVRMSK	D		2
ETRCNFIG	B	80	3	ISTETRRU	0		1
ETRCNGES	B	40	3				
ETRCPEL	1B		3				
ETRCPSA	17		3				
ETRDSA	D		2				
ETRERN	C		2				
ETREXT	30		2				
ETRFMT	3		2				
ETRFMT2	0		1				
ETRHDR	0		2				
ETRLN	5		2				
ETRMAS	6		2				
ETRMASX1	13		2				
ETRMASX2	15		2				
ETRNETID	5		2				
ETROASA	0		2				
ETROATGN	4		2				
ETROSA	7		2				
ETRRCD	0		3				
ETRRERN	11		2				
ETRRSA	27		2				
ETRRSFMT	B	20	3				
ETRRTDTA	B		2				
ETRSSCPA	17		2				
ETRTGN	2F		2				
ETRTYP	4		2				
ETRURC	1D		2				
ETRVEC	F		2				

## Explicit Route Test/Tested RU (ETSRU)

<b>Function:</b>	ETSRU is sent by a subarea node that requires testing of an explicit route to a specified destination subarea.
<b>RU Header:</b>	X'09' (request code)
<b>RU Type:</b>	NC

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	39	ISTETSRU	EXPLICIT ROUTE TEST RU
0	(0)	CHARACTER	1	ETSHDR	REQUEST CODE FIELD (NC RU)
1	(1)	CHARACTER	2	*	RESERVED - NOT AVAILABLE
3	(3)	CHARACTER	1	ETSFMT	FORMAT IDENTIFIER
4	(4)	CHARACTER	1	*	RESERVED - NOT AVAILABLE
5	(5)	UNSIGNED	1	ETSLEN	ER LENGTH (NUMBER OF TRANSMISSION GROUP)
6	(6)	UNSIGNED	1	ETSMAX	MAXIMUM EXPLICIT ROUTE LENGTH
7	(7)	CHARACTER	4	ETSDSA	DESTINATION SUBAREA NUMBER
11	(B)	BITSTRING	1	ETSRTDTA	FLAG BYTE
		1... ....		ETSCNFIG	0 - COLLECT CONFIGURATION DATA 1 - DO NOT COLLECT CONFIGURATION DATA
		.1. ....		ETSCNGES	0 - DO NOT COLLECT CONGESTION DATA 1 - COLLECT CONGESTION DATA
		..1. ....		ETSRSFMT	VR DATA COLLECTION INDICATOR 0 - SEND FORMAT 1 RSP(ROUTE-TEST) 1 - SEND FORMAT 2 RSP(ROUTE-TEST)
		...1 1111		*	RESERVED
12	(C)	UNSIGNED	1	ETSERN	EXPLICIT ROUTE NUMBER
		1111 ....		*	RESERVED - NOT AVAILABLE
13	(D)	CHARACTER	4	ETSOSA	ORIGINATOR SUBAREA NUMBER
17	(11)	BITSTRING	2	ETSRERN	REVERSE EXPLICIT ROUTE NUMBER MASK
19	(13)	UNSIGNED	2	ETSMAXP	MAXIMUM PIU SIZE (IN THIS DIRECTION)
21	(15)	CHARACTER	2	*	RESERVED - NOT AVAILABLE
23	(17)	CHARACTER	6	ETSSSCPA	ORIGIN (OF NETWORK SERVICES EXPLICIT ROUTE TEST)
23	(17)	CHARACTER	4	ETSCPSA	ORIGIN SSCP SUBAREA NUMBER
27	(1B)	CHARACTER	2	ETSCPEL	ORIGIN SSCP ELEMENT NUMBER
29	(1D)	CHARACTER	10	ETSURC	USER REQUEST CORRELATOR

### Constants

Len	Type	Value	Name	Description
1	HEX	09	ETSRCD	EXPLICIT ROUTE TEST REQUEST CODE
CONSTANTS FOR FORMAT IDENTIFIERS (ETSFMT)				
1	HEX	01	ETSF01	FORMAT 1 TYPE CODE



## Cross Reference

Name	Hex Offset	Hex Value	Level
ETSCNFIG	B	80	3
ETSCNGES	B	40	3
ETSCPEL	1B		3
ETSCPSA	17		3
ETSDSA	7		2
ETSERN	C		2
ETSFMT	3		2
ETSHDR	0		2
ETSLEN	5		2
ETSMAX	6		2
ETSMAXP	13		2
ETSOSA	D		2
ETSRERN	11		2
ETSRSFMT	B	20	3
ETSRDTA	B		2
ETSSCPA	17		2
ETSURC	1D		2
ISTETSRU	0		1



## Free Network Address RU (FADRU)

<b>Function:</b>	An SSCP sends FADRU to request the PU type 4 or 5 to remove the appropriate entries from the node resource list, thereby freeing the network addresses associated with the corresponding resources in the node.
<b>RU Header:</b>	X'01021A' (NS header)
<b>RU Type:</b>	FMD

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	ISTFADRU	FREE NETWORK ADDRESS RU
0	(0)	CHARACTER	3	FADNSH	NS HEADER = X'01021A' (FNA)
3	(3)	CHARACTER	2	FADNAD	NETWORK ADDRESS OF TARGET
3	(3)	CHARACTER	2	FADTELEM	ELEMENT OF TARGET
5	(5)	UNSIGNED	1	FADCNT	COUNT OF NETWORK ADDRESSES TO FREE
6	(6)	BITSTRING	1	FADFLG	FREE NETWORK ADDRESS FLAGS
		1... ....		FADCON	CONTIGUOUS ADDRESSES
		.1... ....		FADEAMI	ENHANCED ADDRESS MANAGEMENT INDICATOR 0 - SENDER DOES NOT SUPPORT ENHANCED ADDRESS MANAGEMENT 1 - SENDER SUPPORTS ENHANCED ADDRESS MANAGEMENT
		...1. ....		FADSDAI	STATIC/DYNAMIC ADDRESS INDICATOR 0 - SENDER CONSIDERS THE LU ADDRESS TO BE STATIC 1 - SENDER CONSIDERS THE LU ADDRESS TO BE DYNAMIC
		...1 1111		FADR00	RESERVED - NOT AVAILABLE
7	(7)	CHARACTER	*	FADEXT	NETWORK ADDRESS(ES) TO FREE

TO REFER TO EACH NETWORK ADDRESS TO BE FREED

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	FADADR	NETWORK ADDR TO FREE
0	(0)	CHARACTER	2	FADFELEM	ELEMENT TO FREE

### Constants

Len	Type	Value	Name	Description
CONSTANT TO SET FADNSH (NETWORK SERVICES HEADER)				
3	HEX	01021A	FADFNA	NS HDR = FREE NETWORKADDRESS RU
CONSTANT TO SET FADCNT (COUNT OF NETWORK ADDRESSES TO FREE)				
4	DECIMAL	0	FADALL	TO INDICATE FREE ALL NETWORK ADDRESS RU

RU

## Cross Reference

Name	Hex Offset	Hex Value	Level
FADADR	0		1
FADCNT	5		2
FADCON	6	80	3
FADEAMI	6	40	3
FADEXT	7		2
FADFELEM	0		2
FADFLG	6		2
FADNAD	3		2
FADNSH	0		2
FADROO	6	10	3
FADSDAI	6	20	3
FADTELEM	3		3
ISTFADRU	0		1

## Free Network Address RU (FNARU)

<b>Function:</b>	An SSCP sends FNARU to request the PU type 4 or 5 to remove the appropriate entries from the node resource list, thereby freeing the network addresses associated with the corresponding resources in the node.
<b>RU Header:</b>	X'01021A' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	9	ISTFNARU		
0	(0)	CHARACTER	3	FNAHDR	NETWORK SERVICES HEADER	
3	(3)	UNSIGNED	2	FNAPUNA	PHYSICAL UNIT NETWORK ADDRESS	
5	(5)	UNSIGNED	1	FNANUMBR	NUMBER OF NETWORK ADDRESSES TO BE FREED	
6	(6)	CHARACTER	1	FNAFTYPE	FREE NETWORK ADDRESS TYPE	
7	(7)	UNSIGNED	2	FNANETA	ELEMENT ADDRESS ASSOCIATED WITH FIRST FREE REQ	
9	(9)	CHARACTER	*	FNANEXT	NEXT NETWORK ADDRESS FIELD	

MAPPING FOR NEXT NETWORK ADDRESS TO BE FREED

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	FNAADDR		
0	(0)	UNSIGNED	2	FNANXTNA	NEXT NETWORK ADDRESS TO BE FREED	

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR FNAHDR				
3	HEX	01021A	FNAHDRC	FREE NETWORK ADDRESS
CONSTANT FOR FNAFTYPE				
1	HEX	80	FNANCONT	NON-CONTIGUOUS

### Cross Reference

Name	Hex Offset	Hex Value	Level
FNAADDR	0		1
FNAFTYPE	6		2
FNAHDR	0		2
FNANETA	7		2
FNANEXT	9		2
FNANUMBR	5		2
FNANXTNA	0		2
FNAPUNA	3		2
ISTFNARU	0		1

---

## Free Network Address Element RU (FNERU)

<b>Function:</b>	FNERU is the data portion of the free network address RU.
<b>Included Blocks:</b>	FADRU (FNERU)
<b>RU Header:</b>	X'01021A' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	ISTFNERU	FREE NETWORK ADDRESS RU ELEMENT
0	(0)	SIGNED	2	FNEALEN	AREA LENGTH
2	(2)	SIGNED	2	FNERULN	REQUEST UNIT LENGTH
4	(4)	CHARACTER	9	FNERU	FNA RU (SEE ISTFNARU)
16	(10)	ADDRESS	4	FNECHN	FORWARD CHAIN POINTER



## Free Resource RU (FRERU)

<b>Function:</b>	FRERU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'0102FFA1' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	15	ISTFRERU	FREE RESOURCE AMRU
0	(0)	CHARACTER	4	FRENHDR	NETWORK SERVICES HEADER
4	(4)	CHARACTER	8	FRENETID	NETWORK ID
12	(C)	UNSIGNED	1	FRETYPE	FREE RESOURCE TYPE
13	(D)	UNSIGNED	1	FRERSRCT	FREE RESOURCE NAME TYPE
14	(E)	UNSIGNED	1	FRERSCL	FREE RESOURCE NAME LENGTH
15	(F)	CHARACTER	*	FRERSCRN	FREE RESOURCE NAME

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR NAME TYPE FLD				
1	HEX	F3	FRETYPLU	FREE RESOURCE TYPE = LU
CONSTANT FOR FRENHDR FIELD				
4	HEX	0102FFA1	FREHDC	FREE RESOURCE AMRU
CONSTANTS FOR FRETYPE				
1	HEX	01	FRECON	CONDITIONAL FREE
1	HEX	02	FREUNC	UNCONDITIONAL FREE

## Forward RU (FWDRU)

<b>Function:</b>	FWDRU requests the SSCP to send the embedded NS RU to the named destination PU or LU, using the corresponding SSCP-PU or SSCP-LU session. The FWDRU contains a flag that specifies whether the embedded NS RU contains a partially initialized CNM header or no header at all.
<b>RU Header:</b>	X'810810' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	ISTFWDRU	FORWARD RU	
0	(0)	CHARACTER	3	FWDHDR	NETWORK SERVICES HEADER	
3	(3)	CHARACTER	1	FWDFMT	FORMAT	
4	(4)	CHARACTER	1	FWDFLGS	FLAG BYTE	
		1111 1...		FWDRSV1	NOT USED - AVAILABLE	
		.... .1..		FWDVEC04	PLACE ADDRESSES IN X'04' SNA ADDRESS LIST	
		.... ..1.		FWDNPRID	INNER RU LACKS PRID	
		.... ...1		FWDNCSMH	INNER RU LACKS CNM HEADER	
5	(5)	CHARACTER	1	FWDRSV2	NOT USED - AVAILABLE	
6	(6)	UNSIGNED	2	FWDNSLN	NS RU LENGTH	
8	(8)	CHARACTER	*	FWDNSRU	EMBEDDED NS RU	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	FWDDEST	DESTINATION NAME FIELD	
0	(0)	CHARACTER	1	FWDDSTTP	DESTINATION TYPE	
1	(1)	UNSIGNED	1	FWDDSTLN	DESTINATION NAME LENGTH	
2	(2)	CHARACTER	*	FWDDSTNM	DESTINATION NAME	
0	(0)	STRUCTURE	2	FWDTARG	TARGET NAME FIELD	
0	(0)	CHARACTER	1	FWDTRGTP	TARGET TYPE	
1	(1)	UNSIGNED	1	FWDTRGLN	TARGET NAME LENGTH	
2	(2)	CHARACTER	*	FWDTRGNM	TARGET NAME	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	5	FWDRSP		
0	(0)	UNSIGNED	2	FWDRPLN	FORWARD RESPONSE LENGTH	
2	(2)	CHARACTER	3	FWDRPHDR	RESPONSE RU TYPE	
5	(5)	CHARACTER	*	FWDRPDTA	RESPONSE DATA	
0	(0)	STRUCTURE	2	FWDTARG2	TARGET ENTRIES FOR SNA ADDRESS LIST	
0	(0)	CHARACTER	1	FWDTG2TP	TARGET ENTRY TYPES LIST	
1	(1)	UNSIGNED	1	FWDTG2LN	TARGET ENTRY NAME LENGTH	
2	(2)	CHARACTER	*	FWDTG2NM	TARGET ENTRY NAME	



**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR FWDHDR				
3	HEX	810810	FWDHDC	81 - NETWORK SERVICES LOGICAL SERVICES 08 - MANAGEMENT SERVICES 10 - FORWARD REQUEST CODE
CONSTANT FOR FWDFMT				
1	HEX	00	FWDFMT0	FORMAT 0
CONSTANT FOR FWDSTTP AND FWDTRGTP				
1	HEX	00	FWDTPO	NO NAME PRESENT
1	HEX	F1	FWDTPPU	PU TYPE
1	HEX	F3	FWDTPLU	LU TYPE
1	HEX	F5	FWDTPPRC	PROCEDURE TYPE
1	HEX	F9	FWDTPLNK	LINK TYPE

**Cross Reference**

Name	Hex Offset	Hex Value	Level
FWDDEST	0		1
FWDDSTLN	1		2
FWDDSTNM	2		2
FWDDSTTP	0		2
FWDFLGS	4		2
FWDFMT	3		2
FWDHDR	0		2
FWDNCSMH	4	01	3
FWDNPRID	4	02	3
FWDNSLN	6		2
FWDNSRU	8		2
FWDRPDTA	5		2
FWDRPHDR	2		2
FWDRPLN	0		2
FWDRSP	0		1
FWDRSV1	4	80	3
FWDRSV2	5		2
FWDTARG	0		1
FWDTARG2	0		1
FWDTG2LN	1		2
FWDTG2NM	2		2
FWDTG2TP	0		2
FWDTRGLN	1		2
FWDTRGNM	2		2
FWDTRGTP	0		2
FWDVEC04	4	04	3
ISTFWDRU	0		1

RU



## Generic Bind RU (GBIND)

<b>Function:</b>	GBIND is the standard AMRU used for session establishment. It contains one of the following RUs: ACTCDRM, ACTPU, ACTLU, or BIND. GBIND is used for VTAM internal intercomponent communication.
<b>Included Blocks:</b>	PROCD, DEVCH
<b>RU Header:</b>	X'FF31' (request code)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	31	GBIPRM	GENERIC BIND PARAMETERS
0	(0)	CHARACTER	4	GBIUSER	USER DATA AREA
4	(4)	CHARACTER	4	GBIPROCD	PROCESSING OPTIONS
8	(8)	ADDRESS	4	GBIEXLST	EXIT LIST ADDRESS
12	(C)	UNSIGNED	2	GBILIMIT	RESPONSE LIMIT VALUE
14	(E)	CHARACTER	8	GBIDEVCH	LU CHARACTERISTICS
22	(16)	CHARACTER	8	GBICKEY	EHM(KS)
30	(1E)	BITSTRING	1	GBIPFL	GBIND PARAMETER FLAGS
		1... ....		GBISDAPP	0=SDT TO BE SENT BY LU 1=SDT TO BE SENT BY EU
		.1.. ....		GBICS	0=CONTINUE ANY SPECIFIED 1=CONTINUE SPECIFIC
		..11 1111		GBIR00	RESERVED - NOT AVAILABLE

### MAP OF GENERIC BIND REQUEST UNIT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	56	ISTGBIND	GENERIC BIND REQUEST UNIT
0	(0)	CHARACTER	2	GBIHDR	REQUEST CODE FIELD (SC AMRU)
2	(2)	CHARACTER	31	GBIQPM	GENERIC BIND PARAMETERS
33	(21)	BITSTRING	1	GBIFLG	REQUEST FLAGS
		1... ....		GBISPE	0=REQUEST FOR ANY VIRTUAL ROUTE

(I.E., VR SELECTION EXIT WILL BE DRIVEN AND MAY CHOOSE VRID-S FROM OUTSIDE THE COS LIST) 1 = REQUEST FOR A SPECIFIC VIRTUAL ROUTE (I.E., VR SELECTION EXIT WILL NOT BE DRIVEN--SESSION MUST BE PLACED ON VRID IN THE COS LIST)

		.1.. ....		GBIIMM	0=QUEUE REQUEST IN NO ROUTE AVAILABLE 1=IMMEDIATE REQUEST (FAIL IF NO ROUTE)
		..1. ....		GBIERO	USE ONLY ER WHICH HAS A REVERSE ERN OF ZERO (I.E., ERN FROM SLU TO PLU MUST BE ZERO)
		...1 ....		GBIACTF	AT LEAST ONE ROUTE ACTIVATION ATTEMPTED FROM VR LIST
		.... 1...		GBIDEFD	AT LEAST ONE VIRTUAL ROUTE DEFINED
		.... .1..		GBIVRCHG	INSTALLATION VR SELECTION EXIT MODIFIED THE VR LIST
		.... ..1.		GBIQMSG	GBIND QUEUED MESSAGE ISSUED
		.... ...1		*	RESERVED
34	(22)	ADDRESS	4	GBITSKID	TASK I.D. (ADDRESS OF PST)
38	(26)	CHARACTER	8	GBIRID	PROCESS CORRELATOR I.D.
46	(2E)	CHARACTER	8	GBICOS	CLASS OF SERVICE NAME
54	(36)	SIGNED	2	GBIRUL	INNER RU LENGTH
56	(38)	CHARACTER	*	GBIIRU	INNER RU (BIND,ACTCDRM,ACTPU,ACTLU)

### OVERLAY TO REFER TO VIRTUAL ROUTE LIST

0	(0)	STRUCTURE	2	*	
0	(0)	SIGNED	2	GBIRLL	VIRTUAL ROUTE LIST LENGTH
2	(2)	CHARACTER	*	GBIVRL	VIRTUAL ROUTE LIST

### OVERLAY TO REFER TO VIRTUAL ROUTE LIST ENTRY (GBIVRL, ET. AL.)

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	GBIVRE	TO REFER TO VIRTUAL ROUTE LIST ENTRY
0	(0)	UNSIGNED	1	GBIVRN	VIRTUAL ROUTE NUMBER
1	(1)	UNSIGNED	1	GBITPI	TRANSMISSION PRIORITY INDICATOR

MAP OF GENERIC BIND RESPONSE DATA (FOLLOWING REQUEST CODE)

0	(0)	STRUCTURE	43	GBIRESP	GENERIC BIND RESPONSE DATA
0	(0)	CHARACTER	31	GBISPM	GENERIC BIND PARAMETERS
31	(1F)	CHARACTER	8	GBICSEED	RANDOM SEED
39	(27)	CHARACTER	2	GBIURCID	FMCB I.D.
41	(29)	SIGNED	2	GBISLN	INNER RESPONSE UNIT LENGTH
43	(2B)	CHARACTER	*	GBISRU	INNER RESPONSE UNIT

MAP OF GENERIC BIND RESPONSE UNIT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	45	GBIRESPU	GENERIC BIND RESPONSE UNIT
0	(0)	CHARACTER	2	GBIRESPH	REQUEST CODE (SC AMRU)
2	(2)	CHARACTER	43	GBIRESPD	RESPONSE UNIT DATA

Constants

Len	Type	Value	Name	Description
2	HEX	FF31	GBIRCD	GENERIC BIND REQUEST CODE

CONSTANTS FOR RESERVED FIELDS

0	BIT	000000	GBIZ00	TO VERIFY GBIR00 = 0
0	BIT	0	GBIZ01	TO VERIFY GBIR01 = 0

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
GBIACTF	21	10	3	GBISRU	2B		2
GBICKEY	16		2	GBITPI	1		2
GBICOS	2E		2	GBITSKID	22		2
GBICS	1E	40	3	GBIURCID	27		2
GBICSEED	1F		2	GBIUSER	0		2
GBIDEFD	21	08	3	GBIVRCHG	21	04	3
GBIDEVCH	E		2	GBIVRE	0		1
GBIER0	21	20	3	GBIVRL	2		2
GBIEXLST	8		2	GBIVRN	0		2
GBIFLG	21		2	ISTGBIND	0		1
GBIHDR	0		2				
GBIIMM	21	40	3				
GBIIRU	38		2				
GBILIMIT	C		2				
GBIPFL	1E		2				
GBIPRM	0		1				
GBIPROCD	4		2				
GBIQMSG	21	02	3				
GBIQPM	2		2				
GBIRESP	0		1				
GBIRESPD	2		2				
GBIRESPH	0		2				
GBIRESPU	0		1				
GBIRID	26		2				
GBIRLL	0		2				
GBIRUL	36		2				
GBIR00	1E	20	3				
GBISDAPP	1E	80	3				
GBISLN	29		2				
GBISPE	21	80	3				
GBISPM	0		2				

RU

## Gained or Lost Gateway Node RU (GLGWN)

<b>Function:</b>	GLGWN supplies the name of the gained or lost gateway node.
<b>RU Header:</b>	X'4102FF06' (NS header) (Gained) X'4102FF07' (NS header) (Lost)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTGLGWN	GAINED/LOST GWN AMRU
0	(0)	CHARACTER	4	GLGNSHDR	NS HEADER
4	(4)	CHARACTER	8	GLGNAME	GATEWAY NODE NAME

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR THE NS HEADER				
4	HEX	4102FF06	GLGAHDRC	GAINED GWN HEADER
4	HEX	4102FF07	GLGTHDRC	LOST GWN HEADER



## Generic Unbind RU (GUNB)

<b>Function:</b>	GUNB is the standard AMRU used for session termination. It contains one of the following RUs: DACTCDRM, DACTPU, DACTLU, or UNBIND. GUNB is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'FF32' (request code)
<b>RU Type:</b>	SC AMRU

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	15	ISTGUNB	GENERIC UNBIND REQUEST UNIT	
0	(0)	CHARACTER	2	GUNHDR	REQUEST CODE FIELD (SC AMRU)	
2	(2)	BITSTRING	1	GUNFLG	GENERIC UNBIND FLAGS	
		1... ..		GUNINT	0=SEND REQUEST EXTERNALLY 1=PROCESS REQUEST INTERNALLY	
		.1.. ..		GUNIRS	0=DO NOT GEN INTERNAL RESPONSE 1=GENERATE AN INTERNAL RESPONSE	
		..1. ....		GUNDEQ	1=ONLY DEQUE GBIND FROM PVRAQ	
		...1 ....		*	RESERVED	
		.... 1111		GUNR00	RESERVED - NOT AVAILABLE	
3	(3)	UNSIGNED	2	GUNPRGCD	PURGE CODE FIELD	
3	(3)	UNSIGNED	1	GUNPCMAJ	MAJOR PURGE CODE	
4	(4)	UNSIGNED	1	GUNPCMIN	MINOR PURGE CODE	
5	(5)	CHARACTER	8	GUNRID	PROCESS CORRELATOR I.D.	
13	(D)	UNSIGNED	2	GUNRUL	INNER RU LENGTH	
15	(F)	CHARACTER	*	GUNIRU	INNER RU (UNBIND,DACTCDRM,-PU,-LU)	

### Constants

Len	Type	Value	Name	Description
2	HEX	FF32	GUNRCD	GENERIC UNBIND REQUEST CODE
CONSTANT FOR RESERVED FIELD (GUNR00)				
0	BIT	0000	GUNZ00	TO VERIFY GUNR00 = 0

### Cross Reference

Name	Hex Offset	Hex Value	Level
GUNDEQ	2	20	3
GUNFLG	2		2
GUNHDR	0		2
GUNINT	2	80	3
GUNIRS	2	40	3
GUNIRU	F		2
GUNPCMAJ	3		3
GUNPCMIN	4		3
GUNPRGCD	3		2
GUNRID	5		2
GUNRUL	D		2
GUNR00	2	08	3
ISTGUNB	0		1

## Initiate Load RU (ILDRU)

<b>Function:</b>	ILDRU is used to request that a peripheral PU be loaded.
<b>RU Header:</b>	X'3F0233'
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	22	ISTILDRU	INITIATE LOAD REQUEST RU
0	(0)	CHARACTER	3	ILDHDR	NS HEADER X'3F0233'
3	(3)	CHARACTER	4	ILDDLOR	INITLOAD-LOADSTAT CORRELATOR
7	(7)	BITSTRING	2	ILDNA	NETWORK ADDRESS OF THE PU
7	(7)	CHARACTER	2	ILDELEM	ELEMENT ADDRESS IF THE PU IS ENA CAPABLE
9	(9)	UNSIGNED	1	ILDRQRST	LOAD REQUESTOR STATE
10	(A)	CHARACTER	8	ILDLMNAM	IPL LOAD MODULE NAME
18	(12)	CHARACTER	4	ILDSUB	SUBAREA ADDRESS NOTE: PRESENT ONLY BETWEEN CONFIGURATION SERVICES AND MANAGEMENT SERVICES

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR NS RU HEADER				
3	HEX	3F0233	ILDINTLD	
CONSTANT FOR REQUESTOR STATE				
1	HEX	00	ILDDUACT	DURING PU ACTIVATION
1	HEX	01	ILDAFACT	FOLLOWING PU ACTIVATION



## Initiate Other RU (INIRU)

<b>Function:</b>	INIRU from the ILU requests the initiation of a session between the two LUs named in the RU. The requestor may be a third-party LU or one of the two named LUs.
<b>RU Header:</b>	X'810680' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	19	ISTINIRU	Initiate Other (INIT-OTHER) RU
0	(0)	CHARACTER	3	INIHDR	Common header for Network Services RUs
0	(0)	CHARACTER	1	INISST	Logical/Physical RU type
1	(1)	CHARACTER	1	INICAT	NS Subtype CDRM Indicator
2	(2)	CHARACTER	1	INIREQCD	Request Code
3	(3)	CHARACTER	1	*	Format
		1111 ....		INIFORM	Format
		.... 1111		*	Reserved
4	(4)	BITSTRING	1	INITYPE	Type
		11.. ....		INIREQTP	Request type: INIINO (01)- Initiate Only INIQO (10)- Queue Only INIIQO (11)- Init or Queue
		..11 11..		*	Reserved
		.... ..1		INIPLU	INIPLUL1 (0)- LU1 Is PLU INIPLUL2 (1)- LU2 Is PLU
		.... ..1		*	Reserved
5	(5)	BITSTRING	1	INIQUE1	Queuing conditions for LU1
		1... ....		INISCT1	(0)- Do not queue if session count exceeded (1)- Queue if session count exceeded
		..1.. ....		INIENA1	(0)- Do not queue if not enabled (1)- Queue if not enabled
		..11 1..		*	Reserved
		.... ..11.		INIQPOS1	How to queue request on SIB INIFIFO (01)- Queue in FIFO INILIFO (10)- Queue in LIFO
		.... ...1		*	Reserved
6	(6)	BITSTRING	1	INIQUE2	Queuing conditions for LU2
		1... ....		INISCT2	(0)- Do not queue if session count exceeded (1)- Queue if session count exceeded
		..1.. ....		INIENA2	(0)- Do not queue if not enabled (1)- Queue if not enabled
		..11 1..		*	Reserved
		.... ..11.		INIQPOS2	How to queue request on SIB INIFIFO (01)- Queue in FIFO INILIFO (10)- Queue in LIFO
		.... ...1		*	Reserved
7	(7)	BITSTRING	1	INIMFLAG	Miscellaneous flags
		1... ....		INISYNCH	0 = Asynchronous Initiate 1 = Synchronous Initiate NOTE: INISYNCH USES A RESERVED FIELD
		..111 111.		*	Reserved
		.... ...1		INIBCKUP	(0) Session request not for XRF Backup session (1) Backup session requested
8	(8)	CHARACTER	1	ININOT	Notify flags
		11.. ....		ININOTL1	Whether to send RELREQ NOTIFY To LU(s) in session with LU1 ININRR (00)- No RELREQ Required INIRRR (10)- Send RELREQ if request is queued
		..11 ....		ININOTL2	Whether to send RELREQ NOTIFY to LU(s) in session with LU2 ININRR (00)- No RELREQ required INIRRR (10)- Send RELREQ if request is queued
		.... 1..		*	Reserved
		.... ..1.		ININOTSS	(0) Do not send NOTIFY to ILU when session is setup (1) Send NOTIFY (3) To ILU when Session is setup
		.... ..1.		*	Reserved
		.... ...1		INIAUTO	Request for notification of resource availability: If a resource required for session is temporarily unavailable, when it becomes available send notify. (0) Do not send NOTIFY (1) Send NOTIFY on RESOURCE AVAILABILITY
9	(9)	CHARACTER	8	INIMODE	Logmode name
17	(11)	CHARACTER	2	INILU1	LU1 Uninterpreted Network Name
17	(11)	CHARACTER	1	INIL1TYP	Resource type

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
18	(12)	UNSIGNED	1	INIL1LEN	Length of LU1 symbolic name
19	(13)	CHARACTER	*	INIL1NAM	LU1 Symbolic name data

LU2 Network Name mapping

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	INILU2	Location of LU2 name
0	(0)	CHARACTER	1	INIL2TYP	Resource type
1	(1)	UNSIGNED	1	INIL2LEN	Length of LU2 Symbolic name
2	(2)	CHARACTER	*	INIL2NAM	LU2 Symbolic name

Reserved fields mapping

0	(0)	STRUCTURE	2	INIRSVD	Location of Reserved fields
0	(0)	CHARACTER	2	*	Reserved fields

User Field mapping

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	INIUSRFD	Location of User field
0	(0)	UNSIGNED	1	INIUSRLN	Length of User Field
1	(1)	CHARACTER	*	INIUSERF	User field data

User Correlation mapping

0	(0)	STRUCTURE	1	INIUSCOR	Location of User correlator
0	(0)	UNSIGNED	1	INIUSCLN	Length of user correlation data
1	(1)	CHARACTER	*	INIUSCD	User correlation data

## Constants

Len	Type	Value	Name	Description
Constant for INIHDR				
3	HEX	810680	INIHDRC	INITIATE OTHER RU 81 = Network services, Logical services 06 = Session services 80 = INITIATE OTHER request
Constant for INIFORM				
0	BIT	0001	INIFORM1	Format 1
Constants for INIQ				
0	BIT	01	INIINO	Initiate Only
0	BIT	10	INIQO	Queue Only
0	BIT	11	INIIOQ	Initiate or Queue
Constants for INIPLU				
0	BIT	0	INIPLUL1	LU1 is PLU
0	BIT	1	INIPLUL2	LU2 is PLU
Constants for INIQPOS1 and INIQPOS2				
0	BIT	01	INIFIFO	FIFO
0	BIT	10	INILIFO	LIFO
Constants for ININOTL1 and ININOTL2				
0	BIT	00	ININRR	Do not NOTIFY LU(s) in session with the specified LU, no RELREQ required
0	BIT	10	INIRRR	NOTIFY the LU(s) in session with the specified LU if request is queued, RELREQ required
CONSTANT FOR RESOURCE TYPE - INIL1TYP AND INIL2TYP				
1	HEX	F3	INIF3	Logical unit resource type

## Cross Reference

Name	Hex Offset	Hex Value	Level
INIAUTO	8	01	3
INIBCKUP	7	01	3
INICAT	1		3
INIENA1	5	40	3
INIENA2	6	40	3
INIFORM	3	80	3
INIHDR	0		2
INILU1	11		2
INILU2	0		1
INIL1LEN	12		3
INIL1NAM	13		3
INIL1TYP	11		3
INIL2LEN	1		2
INIL2NAM	2		2
INIL2TYP	0		2
INIMFLAG	7		2
INIMODE	9		2
ININOT	8		2
ININOTL1	8	80	3
ININOTL2	8	20	3
ININOTSS	8	04	3
INIPLU	4	02	3
INIQPOS1	5	04	3
INIQPOS2	6	04	3
INIQUE1	5		2
INIQUE2	6		2
INIREQCD	2		3
INIREQTP	4	80	3
INIRSVD	0		1
INISCT1	5	80	3
INISCT2	6	80	3
INISST	0		3
INISYNCH	7	80	3
INITYPE	4		2
INIUSCD	1		2
INIUSCLN	0		2
INIUSCOR	0		1
INIUSERF	1		2
INIUSRFD	0		1
INIUSRLN	0		2
ISTINIRU	0		1

RU



## Inoperative RU (INPRU)

<b>Function:</b>	The PU sends INPRU to the SSCP to report a link-related connection or contact failure involving one or more nodes.
<b>RU Header:</b>	X'010281' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	6	ISTINPRU		
0	(0)	CHARACTER	3	INPNHDR	COMMON HEADER FOR NETWORK SERVICES	
3	(3)	CHARACTER	2	INPNAD	NETWORK ADDRESS OF INOPERATIVE RESOURCE	
3	(3)	CHARACTER	2	INPELEM	ELEMENT ADDRESS IF THE RESOURCE IS ENA CAPABLE	
5	(5)	BITSTRING	1	INPFMTTP	FORMAT AND TYPE	
		1111 ....		INPFMT	FORMAT	
		.... 1111		INPTYPE	REASON CODE	
6	(6)	CHARACTER	*	INPCPS	VARIABLE DATA AREA	*

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR INPNHDR				
3	HEX	010281	INPHDR	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 81-REQUEST CODE
CONSTANT FOR INPFMT				
0	BIT	0000	INPFMT0	FORMAT 0 INOP
0	BIT	1111	INPFMT15	FORMAT 15 INOP USED FOR LOCAL 3705 INOP UNARCHITECTED FORMAT
CONSTANTS FOR INPTYPE FOR FORMAT ZERO				
0	BIT	0001	INPSTA01	STATION INOP (FORMAT0)
0	BIT	0010	INPLNK02	LINK FAILURE (FORMAT0)
0	BIT	0011	INPSTA03	STATION INOP (FORMAT0)
0	BIT	0100	INPSTA04	STATION INOP (FORMAT0)
0	BIT	0101	INPSTA05	STATION INOP (FORMAT0)
0	BIT	0110	INPSTA06	STATION INOP - IPL OR DUMP IN PROGRESS
0	BIT	0111	INPSTA07	STATION INOP - RPO IN PROGRESS
0	BIT	1000	INPLNK08	LINK RESET BY UNCONDITIONAL RESET DACTLINK (TYPE 1)
0	BIT	1010	INPSTA0A	X21 CALL ESTABLISH FAILURE-CALL PROGRESS SIGNAL RECEIVED BUT NOT INCLUDED- UNSUPPORTED BY VTAM
0	BIT	1011	INPSTA0B	X21 OUTGOING CALL ESTABLISH FAILURE - DCE CLEAR CONDITION
0	BIT	1100	INPSTA0C	X21 OUTGOING CALL ESTABLISH FAILURE - EXPIRATION OF TIME
0	BIT	1101	INPSTA0D	X21 LOSS OF CONNECTION DURING CALL
0	BIT	1110	INPLNK0E	X21 FAILURE DURING CALL CLEARING PHASE
0	BIT	1111	INPLNK0F	X21 OUTGOING CALL ESTABLISH FAILURE-CALL PROGRESS SIGNAL IN NEXT 2 BYTES
CONSTANTS FOR INPTYPE FOR FORMAT 15				
0	BIT	1101	INPLNKFD	BSC PU/CLUSTER INOP CAUSES HARD LINK INOP)
0	BIT	1110	INPSTAFE	STATION INOP ON S-370 CHANNEL-LINK (FORMAT15)
0	BIT	1111	INPLNKFF	S-370 CHANNEL-LINK FAILURE (FORMAT15)



## Route Inoperative RU (IOPRU)

<b>Function:</b>	IOPRU is used when either a virtual or an explicit route has become inoperative as the result of a transmission group having become inoperative somewhere in the network.
<b>RU Header:</b>	X'410289' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	27	ISTIOPRU	ROUTE_INOP REQUEST UNIT	
0	(0)	CHARACTER	3	IOPHDR	REQUEST CODE FIELD	
3	(3)	CHARACTER	1	IOPFMT	FORMAT IDENTIFIER	
4	(4)	CHARACTER	1	IOPRSN	REASON CODE	
5	(5)	CHARACTER	4	IOPOSA	SUBAREA ADDRESS OF THE PU THAT ORIGINATED THE CORRESPONDING NC_ER_INOP	
9	(9)	CHARACTER	4	IOPASA	SUBAREA ADDRESS OF THE OTHER END OF THE TRANSMISSION GROUP THAT HAD THE ROUTING INTERRUPTION	
13	(D)	CHARACTER	4	IOPRSA	SUBAREA ADDRESS OF THE ORIGINATOR OF THE ROUTE (IN THE ADDRESS SPACE OF IOPNETID)	
17	(11)	UNSIGNED	1	IOPTGN	TRANSMISSION GROUP NUMBER	
18	(12)	CHARACTER	8	IOPNETID	NETWORK ID IN WHICH THE INOPERATIVE ROUTE LIES. (IF ALL BLANKS, ROUTE IS IN NETWORK OF RECEIVER)	
26	(1A)	UNSIGNED	1	IOPCNT	COUNT OF INOPERATIVE ROUTES	
27	(1B)	CHARACTER	*	IOPDTA	ROUTE DATA	

MAP OF INOPERATIVE ROUTE DATA (ONE FOR EACH SUBAREA NUMBER)

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	16	IOPRTMAP	ROUTE DATA	
0	(0)	CHARACTER	4	IOPRTDSA	SUBAREA ADDRESS OF THE DESTINATION OF THE ROUTE (IN THE ADDRESS SPACE OF IOPNETID)	
4	(4)	UNSIGNED	2	IOPRTERM	ROUTE MASK FOR EXPLICIT ROUTE	
6	(6)	UNSIGNED	2	IOPRTVRM	ROUTE MASK FOR VIRTUAL ROUTE	
8	(8)	CHARACTER	8	IOPRTLST	VR-TO-ER MAPPING LIST	

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR REQUEST CODE FIELD (IOPHDR)				
3	HEX	410289	IOPHDRC	ROUTE_INOP CODE
CONSTANTS FOR FORMAT IDENTIFIER (IOPFMT)				
1	HEX	01	IOPF01	FORMAT 1
CONSTANTS FOR REASON CODE (IOPRSN)				
1	HEX	01	IOPERR	UNEXPECTED INTERRUPTION OVER A TRANSMISSION GROUP
1	HEX	02	IOPDSC	CONTROLLED INTERRUPTION (E.G., DISCONTACT)

## Cross Reference

Name	Hex Offset	Hex Value	Level
IOPASA	9		2
IOPCNT	1A		2
IOPDTA	1B		2
IOPFMT	3		2
IOPHDR	0		2
IOPNETID	12		2
IOPOSA	5		2
IOPRSA	D		2
IOPRSN	4		2
IOPRTDSA	0		2
IOPRTERM	4		2
IOPRTLST	8		2
IOPRTMAP	0		1
IOPRTVRM	6		2
IOPTGN	11		2
ISTIOPRU	0		1



## IPL Abort RU (IPARU)

<b>Function:</b>	IPARU indicates to the PU type 2 that the load operation has been halted. Sense data, indicating the cause of the failure, is included in IPARU.
<b>RU Header:</b>	X'410246' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	ISTIPARU	IPL ABORT REQUEST RU
0	(0)	CHARACTER	3	IPAHDR	NS HEADER X'410246'
3	(3)	CHARACTER	4	IPASENSE	SENSE DATA

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR NS RU HEADER				
3	HEX	410246	IPAIPLAB	

RU

## Isolated Pacing Message Format (IPMRU)

**Function:** IPMRU provides a mapping for the isolated pacing message RU.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	3	ISTIPMRU	ISOLATED PACING MESSAGE (IPM)	
0	(0)	BITSTRING	1	IPMTYPE	IPM TYPE	
		11.. ....		IPMCODE	IPM TYPE CODE	
		..1. ....		IPMRWI	IPM RESET WINDOW INDICATOR, 0 - DO NOT RESET THE CURRENT PACING WINDOW 1 - RESET THE CURRENT PACING WINDOW	
		...1 1111		*	NOT USED - RESERVED	
1	(1)	UNSIGNED	2	IPMWNDOW	NEXT WINDOW SIZE	
		1... ....		IPMFMT0	ZERO FORMAT (0 ONLY VALUE DEFINED)	

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR IPMCODE				
0	BIT	00	IPMSPR	SOLICITED PACING RESPONSE
0	BIT	01	IPMUPR	UNSOLICITED PACING RESPONSE
0	BIT	10	IPMRAK	RESET ACKNOWLEDGEMENT



**Initiate-Self RU (ISHDR)**

<b>Function:</b>	ISHDR from the ILU requests that the SSCP authorize and assist in the initiation of a session between the LU sending the request (that is, the ILU, which also becomes the OLU) and the LU named in the request (the DLU).
<b>RU Header:</b>	X'010681' (NS header) format 0 X'810681' (NS header) format 1
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	4	ISTISHDR	INITIATE SELF (INIT-SELF) RU	
0	(0)	CHARACTER	3	ISHHDR	Common header for Network Services RU	
0	(0)	CHARACTER	1	ISHSST	Logical/Physical RU type indicator	
1	(1)	CHARACTER	1	ISHCAT	NS Subtype/CDRM Indicator	
2	(2)	CHARACTER	1	ISHREQCD	Request code	
3	(3)	CHARACTER	1	ISHFMTYP	Format and type	
		1111 ....		ISHFORM	Format	
		.... 1111		ISHTYPE0	Flags only for Format 0, else reserved	
		.... 11..		*	Reserved	
		.... ..1.		ISHODLU	PLU/SLU Specification INSDLUP (0)- DLU is PLU INSDLUS (1)- DLU is SLU	
		.... ...1		ISH0Q	0=Do not queue request 1=Queue request if it cannot be satisfied immediately	

## INITIATE SELF FORMAT-0 RU, Specific information

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	4	ISTISO		
0	(0)	CHARACTER	4	ISOHDR	Includes common header (ISTISHDR)	
4	(4)	CHARACTER		ISOEND	End of Format 0 specific info	

## INITIATE SELF FORMAT-1 RU, Specific information

0	(0)	STRUCTURE	8	ISTIS1		
0	(0)	CHARACTER	4	IS1HDR	Includes common header (ISTISHDR)	
4	(4)	CHARACTER	1	IS1TYPE	Type	
		11.. ....		IS1REQTP	Initiate Only/ Queue only/ Initiate or Queue	
		..11 11..		*	Reserved	
		.... ..1.		IS1DLU	PLU/SLU Specification INSDLUP (0)- DLU is PLU INSDLUS (1)- DLU is SLU	
		.... ...1		*	Reserved	
5	(5)	CHARACTER	1	IS1QUECD	Queueing Conditions for DLU	
		1... ....		IS1SCT	(0)-Do not queue if session count exceeded (1)-Queue if session count exceeded	
		.1.. ....		IS1ENA	(0)-Do not queue if not enabled (1)-Queue if not enabled	
		..11 1...		*	Reserved	
		.... ..11.		IS1QPOS	HOW TO QUEUE REQUEST 01 = FIFO 10 = LIFO	
		.... ...1		*	Reserved	
6	(6)	CHARACTER	1	IS1CAPS	Capabilities	
		1111 111.		*	Reserved	
		1... ....		IS1BCKUP	(0)-Backup session not requested (1)-Backup session requested	
7	(7)	CHARACTER	1	IS1NOT	Notify flags	
		11.. ....		IS1NOTD	Send RELREQ to LU(s) in session with DLU	
		..11 1111		*	Reserved	
8	(8)	CHARACTER		IS1END	End of Format 1 specific info	

## INITIATE SELF Common information

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	ISTINS	
0	(0)	CHARACTER	8	INSMODE	Mode name
8	(8)	CHARACTER	2	INSNAMEF	Uninterpreted name of DLU
8	(8)	CHARACTER	1	INSNAMET	Resource type
9	(9)	UNSIGNED	1	INSNAMEL	Length of symbolic name
10	(A)	CHARACTER	*	INSNAME	symbolic name

Mapping for reserved fields

0	(0)	STRUCTURE	2	INSRSVD	Location of Reserved fields
0	(0)	CHARACTER	2	*	Reserved fields

Mapping for User Field

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	INSUSRF	Location of User Field
0	(0)	UNSIGNED	1	INSUSRL	Length of user field
1	(1)	CHARACTER	*	INSUSR	Actual user data string

Mapping for User Correlation

NOTE- Format 1 ONLY

0	(0)	STRUCTURE	1	INSURCF	Location of User correlation
0	(0)	UNSIGNED	1	INSURCL	Length of User Correlator
1	(1)	CHARACTER	*	INSURC	User Correlator

## Constants

Len	Type	Value	Name	Description
CONSTANTS FOR ISHFORM				
0	BIT	0000	ISHFORM0	Format 0
0	BIT	0001	ISHFORM1	Format 1
CONSTANTS FOR ISHHDR - ISHHDR0 FOR FORMAT-0 AND ISHHDR1 FOR FORMAT-1				
3	HEX	010681	ISHHDR0	01 - NETWORK SERVICES 06 - SESSION SERVICES 81 - INITIATE SELF REQUEST
3	HEX	810681	ISHHDR1	81 - NETWORK SERVICES, LOGICAL SERVICES 06 - SESSION SERVICES 81 - INITIATE SELF REQUEST
CONSTANT FOR RESOURCE TYPE - INSNMTP				
1	HEX	F3	INSTYPF3	Resource is a Logical Unit
Constants for ISH0DLU and IS1DLU, PLU/SLU Specification				
0	BIT	0	INSDLUP	DLU is PLU
0	BIT	1	INSDLUS	DLU is SLU
Constants for IS1QTYTYP				
0	BIT	01	IS1INO	Initiate only
0	BIT	10	IS1QO	Queue only
0	BIT	11	IS1IOQ	Initiate or Queue
Constants for how to queue - IS1QPOS				
0	BIT	01	IS1FIFO	FIFO
0	BIT	10	IS1LIFO	LIFO
Constants for Notify RELREQ - IS1NOTD				
0	BIT	00	IS1NRR	Do not send RELREQ
0	BIT	10	IS1RRR	Notify all LU(s) in session with DLU, if request is queued

## Cross Reference

Name	Hex Offset	Hex Value	Level
INSMODE	0		2
INSNAME	A		3
INSNAMEF	8		2
INSNAMEL	9		3
INSNAMET	8		3
INSRSVD	0		1
INSURC	1		2
INSURCF	0		1
INSURCL	0		2
INSUSR	1		2
INSUSRF	0		1
INSUSRL	0		2
ISHCAT	1		3
ISHFMTYP	3		2
ISHFORM	3	80	3
ISHHDR	0		2
ISHREQCD	2		3
ISHSST	0		3
ISHTYPE0	3	08	3
ISH0DLU	3	02	4
ISH0Q	3	01	4
ISTINS	0		1
ISTISHDR	0		1
ISTIS0	0		1
ISTIS1	0		1
IS0END	4		2
IS0HDR	0		2
IS1BCKUP	6	80	4
IS1CAPS	6		2
IS1DLU	4	02	3
IS1ENA	5	40	3
IS1END	8		2
IS1HDR	0		2
IS1NOT	7		2
IS1NOTD	7	80	3
IS1QPOS	5	04	3
IS1QUECD	5		2
IS1REQTP	4	80	3
IS1SCT	5	80	3
IS1TYPE	4		2



## Contacted RU (KTDRU)

<b>Function:</b>	The PU issues KTDRU to indicate to the SSCP the completion of the DLC contact procedure. A status parameter conveyed by this request informs SSCP configuration services whether or not the contact procedure was successful; if not successful, the status indicates whether an adjacent node load is required or whether an error occurred on the contact procedure.
<b>RU Header:</b>	X'010280' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTKTDRU	
0	(0)	CHARACTER	3	KTDNSHDR	COMMON HEADER FOR NETWORK SERVICES
3	(3)	CHARACTER	2	KTDNAD	NETWORK ADDRESS OF PU
3	(3)	CHARACTER	2	KTDELEM	ELEMENT ADDRESS
5	(5)	CHARACTER	1	KTDSTAT	STATUS OF PU
6	(6)	CHARACTER	*	KTDRUDTA	MORE DATA FOR TYPE NOT 1,2,3

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
6	(6)	STRUCTURE	13	KTDFRMT1	CONTACTED TYPE4 OR TYPE9 DATA
6	(6)	UNSIGNED	1	KTDGNUM	TRANSMISSION GROUP NUMBER
7	(7)	SIGNED	4	KTDADJSA	ADJACENT SUBAREA
11	(B)	CHARACTER	8	KTDLMNAM	CONTACTED LOAD MODULE NAME
19	(13)	CHARACTER	*	KTDRUDTB	MORE DATA FOR TYPE NOT 4
6	(6)	STRUCTURE	1	KTDFRMT2	CONTACTED TYPE 5,7,8 DATA
6	(6)	CHARACTER	1	KTDXID1	XID1
6	(6)	UNSIGNED	1	KTDXID1L	LENGTH OF XID1
7	(7)	CHARACTER	*	KTDXID1D	XID1 DATA AREA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	KTDXID2	XID2 (FOLLOWS XID1)
0	(0)	UNSIGNED	1	KTDXID2L	LENGTH OF XID2
1	(1)	CHARACTER	*	KTDXID2D	XID2 DATA AREA
0	(0)	STRUCTURE	1	KTDDLCS	SUPPORT FOR DLC, SSSCP, AND CONTACTED NODES - TYPE '0A' (FOLLOWS XID2)
		1... ..		KTDDLACT	DLC ACTIVATION SEQUENCE 0 - IS NOT EXECUTED 1 - EXECUTED
		.1.. ..		KTDDLBS	SSCP TAKEOVER OF INDEPENDENT LUS 0 - NO BSESSINFO RU'S FOLLOW 1 - BSESSINFO RU'S FOLLOW
		..1. ....		KTDDL21	0 - CONTACTED NODE IS NOT T2.1 1 - CONTACTED NODE IS T2.1
		...1 ....		*	RESERVED
		.... 1...		*	RESERVED

END OF TYPE '0A'

.... .111 \* RESERVED

KTDNID IS DEFINED ON KTDRUDTB

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
19	(13)	STRUCTURE	8	KTDNID	NETID - TYPE 9
19	(13)	CHARACTER	8	KTDNETID	NETWORK ID

RU

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR KTDNSHDR				
3	HEX	010280	KTDHDCR	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 80-REQUEST CODE
CONSTANTS FOR KTDSTAT - STATUS AT CONTACT COMPLETION				
1	HEX	01	KTDRULD	PU IS LOADED
1	HEX	02	KTDRULDR	PU NEEDS LOAD
1	HEX	03	KTDRUERR	ERROR ON CONTACT
1	HEX	04	KTDRULD4	CONTACTED-LOADED EXTENDED (TYPE 4)
1	HEX	05	KTDRUEXP	EXCHANGED XID PARAMETERS NOT COMPATIBLE
1	HEX	07	KTDRURTE	NO ROUTING CAPABILITY TO ADJACENT NODE
1	HEX	08	KTDRULSP	INCOMPATIBLE PARAMETERS FOR ADD.LINK STATION
1	HEX	09	KTDRUXNT	CONTACTED LOADED WITH NETID
1	HEX	0A	KTDRUCNX	CONTACTED NODE WITH XID FIELDS PRESENT
1	HEX	0B	KTDRUERX	CONTACT ERROR FOR NODE WITH XID FIELDS PRESENT

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTKTDRU	0		1
KTDADJSA	7		2
KTDDLACT	0	80	2
KTDDL BFS	0	40	2
KTDDL CSS	0		1
KTDDL T21	0	20	2
KTDELEM	3		3
KTDFRMT1	6		1
KTDFRMT2	6		1
KTDLMNAM	B		2
KTDNAD	3		2
KTDNETID	13		2
KTDNID	13		1
KTDNSHDR	0		2
KTDRUDTA	6		2
KTDRUDTB	13		2
KTDSTAT	5		2
KDTGNUM	6		2
KTDXID1	6		2
KTDXID1D	7		3
KTDXID1L	6		3
KTDXID2	0		1
KTDXID2D	1		2
KTDXID2L	0		2

RU

## Lost Control Point RU (LCPRU)

<b>Function:</b>	LCPRU notifies the SSCP that a subarea PU's session with another SSCP failed. The SSCP displays this information for the network operator.
<b>RU Header:</b>	X'410287' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	11	ISTLCPRU	NS_LCP RU
0	(0)	BITSTRING	3	LCPHDR	RU HEADER
3	(3)	BITSTRING	1	LCPRESON	REASON FIELD
4	(4)	CHARACTER	1	LCPRSRVD	RESERVED - NOT AVAILABLE
5	(5)	CHARACTER	6	LCPNETAD	NETWORK ADDRESS OF LCP
5	(5)	CHARACTER	4	LCPSUBAR	SUBAREA FIELD
9	(9)	CHARACTER	2	LCPELEMT	ELEMENT FIELD

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR HEADER FIELD (LCPHDR)				
3	HEX	410287	LCPHDRCD	HEADER CONSTANT
CONSTANTS FOR REASON FIELD (LCPRESON)				
1	HEX	07	LCPVINOP	VIRTUAL ROUTE INOPERATIVE VR_INOP RECEIVED FOR THE VIRTUAL ROUTE USED BY THE SSCP-PU SESSION (WHERE THE SSCP IS THE LOST CONTROL POINT, AND THE PU IS THE ORIGINATOR OF THE NS_LCP)
1	HEX	0A	LCPFDACT	FORCE DEACTIVATE FORCED DEACTIVATION OF THE SSCP-PU SESSION (DACTPU RECEIVED BY THE PU)
1	HEX	0B	LCPVRDEC	VIRTUAL ROUTE DEACTIVATED REQUEST (DACTVR, FORCED) RECEIVED FOR THE VIRTUAL ROUTE USED BY THE SSCP- PU SESSION (WHERE THE SSCP IS THE LOST CONTROL POINT, AND THE PU IS THE ORIGINATOR OF THE NS_LCP)
CONSTANT FOR RESERVED FIELD (LCPRSRVD)				
1	HEX	00	LCPZEROS	ZEROES

RU

**Load Status RU (LDSRU)**

<b>Function:</b>	LDSRU indicates the status of a load.
<b>RU Header:</b>	X'3F0234' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	22	ISTLDSRU	LOAD STATUS REQUEST RU
0	(0)	CHARACTER	3	LDSHDR	NS HEADER X'3F0234'
3	(3)	CHARACTER	4	LDSLDCOR	INITLOAD-LOADSTAT CORRELATOR
7	(7)	BITSTRING	2	LDSNA	NETWORK ADDRESS OF THE PU
7	(7)	CHARACTER	2	LDSELEM	ELEMENT ADDRESS IF THE PU IS ENA CAPABLE
9	(9)	UNSIGNED	1	LDSRQRST	LOAD REQUESTOR STATE
10	(A)	UNSIGNED	1	LDSLOADS	LOAD STATUS
11	(B)	CHARACTER	3	LDSFLREQ	REQUEST CODE OF THE FAILING RU
14	(E)	CHARACTER	4	LDSSENSE	SENSE DATA RETURNED IN THE RESPONSE FOR THE FAILING NS RU
18	(12)	CHARACTER	4	LDSSUB	SUBAREA ADDRESS NOTE: PRESENT ONLY BETWEEN CONFIGURATION SERVICES AND MANAGEMENT SERVICES

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR NS RU HEADER				
3	HEX	3F0234	LDSL DST	
CONSTANT FOR LOAD REQUESTOR STATE				
1	HEX	00	LDSL DUAC	DURING PU ACTIVATION
1	HEX	01	LDSL AFAC	FOLLOWING PU ACTIVATION
CONSTANT FOR LOAD STATUS				
1	HEX	00	LDSL SUCC	LOAD SUCCESSFUL
1	HEX	01	LDSL FULD	LOAD FAILED - UNABLE TO PROCESS LOAD REQUEST, BYTES 11-17 SET TO ZEROS
1	HEX	02	LDSL FOLD	LOAD FAILED - DURING THE LOAD PROCEDURE, BYTES 11-17 CONTAIN ADDITIONAL INFORMATIONS

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTLDSRU	0		1
LDSLDCOR	3		2
LDSELEM	7		3
LDSFLREQ	B		2
LDSHDR	0		2
LDSLOADS	A		2
LDSNA	7		2
LDSRQRST	9		2
LDSSENSE	E		2
LDSSUB	12		2

## Load Required RU (LRDRU)

<b>Function:</b>	A PU type 2 sends LRDRU to request that a specific load module be moved to its node.
<b>RU Header:</b>	X'410237' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTLRDRU	LOAD REQUIRED REQUEST RU
0	(0)	CHARACTER	3	LRDHDR	NS HEADER X'410237'
3	(3)	CHARACTER	8	LRDLMNAM	LOAD MODULE NAME REQUESTED
11	(B)	CHARACTER	1	LRDFLGS	RU FLAGS
		1111 111.		*	RESERVED
		.... ...1		LRDCABL	ADJACENT PU LOAD CAPABILITY 1 = ADJACENT PU CAN LOAD THE PU_T2

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR NS RU HEADER				
3	HEX	410237	LRDLDRQD	



## Set Control Vector RU (MSVRU)

<b>Function:</b>	MSVRU sets the intensive mode (X'08') control vector that is maintained by the PU receiving the request and that is associated with the network address specified in the RU.
<b>RU Header:</b>	X'010311' (NS header) maintenance services X'010222' (NS header) configuration services
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTMSVRU	
0	(0)	CHARACTER	3	MSVHDR	NS HEADER
3	(3)	CHARACTER	2	MSVNA	NETWORK ADDRESS
5	(5)	CHARACTER	1	MSVWECKY	VECTOR KEY
6	(6)	CHARACTER	*	MSVVECDT	VECTOR DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	MSVVEC08	RECORD INTENSIVE MODE CONTROL VECTOR
0	(0)	BITSTRING	1	MSV8TYP	TYPE BYTE
		1... ..		MSV8SET	0 => RESET INTENSIVE MODE 1 => SET INTENSIVE MODE
		.111 1111		MSV8RSV1	RESERVED
1	(1)	UNSIGNED	2	MSV8MAX	MAXIMUM NUMBER OF INTENSIVE MODE RECORDS

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR NS HEADER (MSVHDR)				
3	HEX	010222	MSVHDRCC	ISETCV CONFIGURATION SERVICES
3	HEX	010311	MSVHDRMC	ISETCV MAINTENANCE SERVICES
CONSTANTS FOR VECTOR KEY (MSVWECKY)				
1	HEX	08	MSVV8C	KEY FOR RECORD INTENSIVE MODE

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTMSVRU	0		1
MSVHDR	0		2
MSVNA	3		2
MSVVECDT	6		2
MSVWECKY	5		2
MSVVEC08	0		1
MSV8MAX	1		2
MSV8RSV1	0	40	3
MSV8SET	0	80	3
MSV8TYP	0		2

## Notify RU (NAMRU)

<b>Function:</b>	NAMRU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'8108FF01' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTNAMRU	
0	(0)	CHARACTER	4	NAMHDR	NS HEADER
4	(4)	UNSIGNED	2	NAMPRID	PRID FOR FAILING PROCEDURE, OR ZERO
6	(6)	CHARACTER	8	NAMNAME	NAME OF RESOURCE FROM WHOM REPLY WAS EXPECTED

### Constants

Len	Type	Value	Name	Description
4	HEX	8108FF01	NAMHDRC	

## Network Management Vector Transport RU (NMVRU)

<b>Function:</b>	NMVRU is a network services RU flowing on the LU (TERM) to SSCP session. Management services processes NMVRU in the deliver and forward processors.
<b>RU Header:</b>	X'41038D' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTNMVRU	
0	(0)	CHARACTER	3	NMVNSHDR	REQUEST CODE HEADER
3	(3)	CHARACTER	5	NMVSUB	NETWORK SVCS SUB TYPE
3	(3)	CHARACTER	2	NMVNMVID	RESERVED
5	(5)	BITSTRING	2	NMVRUSUB	CORRELATOR
		1111 ....		*	RESERVED
5	(5)	BITSTRING	1	NMVCORR	PROCEDURE RELATED IDENTIFIER (PRID)
7	(7)	BITSTRING	1	NMVFLG	FLAG BYTE
		1... ....		NMVSOL	1 = SOLICITED NMVT
		.1.. ....		NMVLAST	1 = NOT LAST REQUEST
		..1. ....		NMVFRST	1 = NOT FIRST REQUEST
		...1 ....		NMVSNASV	1 = SNA ADDR LIST SUBVECTOR PRESENT
		.... 1111		*	RESERVED
8	(8)	CHARACTER	*	NMVDATA	NMVT DATA AREA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
8	(8)	STRUCTURE	4	NMVMVCTR	CNM MAJOR VECTORS
8	(8)	CHARACTER	2	NMVSIZ	LENGTH FIELD
		1... ....		NMVCONC	0 = LAST NMVT OF SEQUENCE OR NOT A CONCATENATED NMVT 1 = FIRST OR MIDDLE NMVT OF A SEQUENCE
8	(8)	BITSTRING	1	NMVLNTH	LENGTH OF CNM MAJOR VECTOR
10	(A)	CHARACTER	2	NMVTYPE	HEADER TYPE
12	(C)	CHARACTER	*	NMVSUBVR	CNM SUBVECTORS

NMVSNAADR IS DEFINED ON NMVSUBVR

12	(C)	STRUCTURE	3	NMVSNAADR	SNA ADDRESS LIST SUBVECTOR
12	(C)	UNSIGNED	1	NMVSNALEN	LENGTH (INCLUSIVE) OF LIST
13	(D)	UNSIGNED	1	NMVSNAID	SUBVECTOR ID
14	(E)	UNSIGNED	1	NMVSNAANM	NUMBER OF TARGET ADDRESS FIELDS IN THIS SUBVECTOR
15	(F)	CHARACTER	*	NMVSNAADT	TARGET ADDRESS LISTS

UNLESS DEFINED, THE FOLLOWING OVERLAYS ARE BASED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	NMVTAFSV	TARGET ADDRESS FIELD MAP
0	(0)	BITSTRING	1	NMVTAF1	FLAGS
		1... ....		NMVTAF2	ADDRESS TYPE INDICATOR 1 = NETWORK ADDRESS 0 = LOCAL ADDRESS
		.1.. ....		NMVTAF3	SESSION PARTNER INDICATOR 1 = FOLLOWING TAF IS A SESSION PARTNER
		..1. ....		NMVTODAI	OAF/DAF ASSIGNMENT INDICATOR 0 = ODAI NOT USED
		...1 1111		*	RESERVED
1	(1)	CHARACTER	6	NMVTAFAD	ADDRESS AREA

NMVTAFNA IS DEFINED ON NMVTAFAD

1	(1)	STRUCTURE	6	NMVTAFNA	NETWORK ADDRESS IF PRESENT
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Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
1	(1)	CHARACTER	4	NMVTAFSA	SUBAREA ADDRESS
5	(5)	CHARACTER	2	NMVTAFEA	ELEMENT ADDRESS

NMVTAFID IS DEFINED ON NMVTAFAD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
1	(1)	STRUCTURE	6	NMVTAFID	
1	(1)	CHARACTER	5	*	RESERVED
6	(6)	CHARACTER	1	NMVTAFLA	LOCAL ADDRESS OR SESSION INDEX

PRODUCT SET ID SUBVECTOR MAP

0	(0)	STRUCTURE	3	NMVPSIDV	PSID
0	(0)	UNSIGNED	1	NMVPSLEN	LENGTH OF SUBVECTOR
1	(1)	UNSIGNED	1	NMVPSKEY	SUBVECTOR KEY
2	(2)	UNSIGNED	1	*	RETIRED
3	(3)	CHARACTER	*	NMVPSPID	MAP OF PRODUCT ID

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	NMVPIDV	PRODUCT ID
0	(0)	UNSIGNED	1	NMVPILEN	COMMON SUBVECTOR LENGTH
1	(1)	UNSIGNED	1	NMVPIKEY	COMMON SUBVECTOR KEY
2	(2)	UNSIGNED	1	*	NOT USED BY VTAM
3	(3)	CHARACTER	*	NMVPISUB	PRODUCT SUBFIELDS
0	(0)	STRUCTURE	16	NMVPROD	PRODUCT ID SUBFIELD
0	(0)	UNSIGNED	1	NMVPRLEN	COMMON SUBVECTOR LENGTH
1	(1)	UNSIGNED	1	NMVPRKEY	PID SUBFIELD KEY
2	(2)	UNSIGNED	1	*	NOT USED BY VTAM
3	(3)	CHARACTER	4	NMVMACH	MACHINE TYPE
7	(7)	CHARACTER	9	*	NOT USED BY VTAM

RU

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR REQUEST CODE FIELD (NMVNSHDR)				
3	HEX	41038D	NMVHDC	NMVT RU HEADER CODE
CONSTANT FOR MAJOR VECTORS				
2	HEX	0080	NMVMVRTM	RTM NMVT
2	HEX	0000	NMVALERT	ALERT NMVT
2	HEX	0001	NMVLNKEV	LINK EVENT NMVT
2	HEX	0025	NMVPDSTT	PDSTAT NMVT
2	HEX	0090	NMVMVNAM	NAM NMVT
CONSTANT FOR SUBVECTORS				
1	HEX	04	NMVSNAKY	SNA ADDRESS LIST SUBVECTOR
1	HEX	10	NMVPSID	PRODUCT SET ID SUBVECTOR
1	HEX	11	NMVPID	PRODUCT ID COMMON SUBVECTOR
1	HEX	00	NMVPROD	HARDWARE PRODUCT ID
Machine Types, Note that these fields are defined just before a particular machine is shipped				
4	CHARACTER	3745	NMV3745	MANET MACHINE TYPE,
4	CHARACTER	8825	NMV8825	MANET MACHINE TYPE,
4	CHARACTER	9373	NMV9373	9373 MACHINE TYPE,
4	CHARACTER	9375	NMV9375	9375 MACHINE TYPE,
4	CHARACTER	9377	NMV9377	9377 MACHINE TYPE,

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTNMVRU	0		1
NMVCNC	8	80	3
NMVCORR	5		4
NMVDATA	8		2
NMVFLG	7		3
NMVFRST	7	20	4
NMVLAST	7	40	4
NMVLNTH	8		3
NMVMACH	3		2
NMVMVCTR	8		1
NMVNMVID	3		3
NMVNSHDR	0		2
NMVPIDV	0		1
NMVPIKEY	1		2
NMVPILEN	0		2
NMVPISUB	3		2
NMVPRKEY	1		2
NMVPRLEN	0		2
NMVPRODV	0		1
NMVPSIDV	0		1
NMVPSKEY	1		2
NMVPSLEN	0		2
NMVPSPID	3		2
NMVRUSUB	5		3
NMVSIZE	8		2
NMVSNAADR	C		1
NMVSNA DT	F		2
NMVSNAID	D		2
NMVSNALN	C		2
NMVSANANM	E		2
NMVSNASV	7	10	4
NMVSOL	7	80	4
NMVSUB	3		2
NMVSUBVR	C		2
NMVTAFAD	1		2
NMVTAFAT	0	80	3
NMVTAFEA	5		2
NMVTAFID	1		1
NMVTAFLA	6		2
NMVTAF LG	0		2
NMVTAFNA	1		1
NMVTAFSA	1		2
NMVTAFSP	0	40	3
NMVTAFSV	0		1
NMVTODAI	0	20	3
NMVTYPE	A		2

RU

## Notify RU (NOTRU)

<b>Function:</b>	NOTRU is used to send information from an SSCP to another SSCP or to an LU, or from an LU to an SSCP. NOTRU carries information in the form of a (vector key, vector data) pair.
<b>RU Header:</b>	X'810620' (NS header) session services X'818620' (NS header) session services - CDRM
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTNOTRU	NOTIFY AND CROSS-DOMAIN NOTIFY RU
0	(0)	CHARACTER	3	NOTHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	NOTSST	LOGICAL/PHYSICAL RU TYPE
1	(1)	CHARACTER	1	NOTCAT	NS SUBTYPE-CDRM INDICATOR
2	(2)	CHARACTER	1	NOTREQ	REQUEST CODE
3	(3)	CHARACTER	1	NOTVEC	TYPE VECTOR
4	(4)	CHARACTER	*	NOTREST	NOTIFY VECTOR DATA

UNLESS SPECIFICALLY INDICATED, THE FOLLOWING OVERLAYS ARE  
 BASED AT ADDRESS OF NOTREST.  
 NOTIFY - VECTOR 1, RESOURCE REQUESTED AND SAME NETWORK SESSION

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	NOTVEC1	
0	(0)	CHARACTER	2	NOTLU1	NETWORK NAME OF LU REQUESTED
0	(0)	CHARACTER	1	NOTLU1T	RESOURCE TYPE
1	(1)	UNSIGNED	1	NOTLU1L	LENGTH OF REQUESTED LU NAME
2	(2)	CHARACTER	*	NOTLU1N	NETWORK NAME OF REQUESTED LU

### MAPPING FOR NETWORK NAME OF REQUESTING LU

0	(0)	STRUCTURE	2	NOTLU2	LOCATION BASED ON ADDR(NOTLU1N)+ NOTLU1L
0	(0)	CHARACTER	1	NOTLU2T	RESOURCE TYPE
1	(1)	UNSIGNED	1	NOTLU2L	LENGTH OF REQUESTING LU NAME
2	(2)	CHARACTER	*	NOTLU2N	NETWORK NAME OF REQUESTING LU

NOTIFY - VECTOR 3 : INIT/TERM REQUESTOR NOTIFICATION  
 1 - USED TO SEND NOTIFY TO THE ISSUER OF AN INIT OR  
 TERM REQUEST TO GIVE STATUS OF SESSION.  
 2 - USED TO SEND NOTIFY TO A THIRD PARTY SSCP (THE  
 SSCP WHOSE LU ISSUED AN INIT OTHER OR TERM OTHER  
 REQUEST) TO GIVE THE STATUS OF SESSION SETUP OR  
 TAKEDOWN.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	17	NOTVEC3	
0	(0)	CHARACTER	1	NOT3STAT	SESSION STATUS
1	(1)	CHARACTER	8	NOT3PCID	PCID
9	(9)	CHARACTER	1	NOT3REAS	REASON CODE
10	(A)	CHARACTER	4	NOT3SENS	SENSE DATA
14	(E)	CHARACTER	1	NOT3KEY	SESSION KEY TYPE
15	(F)	CHARACTER	2	NOT3LU1	NETWORK NAME OF LU1
15	(F)	CHARACTER	1	NOT3LU1T	LU1 TYPE
16	(10)	UNSIGNED	1	NOT3LU1L	LU1 NAME LENGTH
17	(11)	CHARACTER	*	NOT3LU1N	LU1 NAME FIELD

### MAPPING FOR LU2 NETWORK NAME

0	(0)	STRUCTURE	2	NOT3LU2	LOCATION BASED ON ADDR(NOT3LU1N)+ NOT3LU1L
0	(0)	CHARACTER	1	NOT3LU2T	LU2 TYPE

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
1	(1)	UNSIGNED	1	NOT3LU2L	LU2 NAME LENGTH
2	(2)	CHARACTER	*	NOT3LU2N	LU2 NAME FIELD

MAPPING FOR USER CORRELATION

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	NOT3URC	LOCATION BASED ON ADDR(NOT3LU2N) + NOT3LU2L
0	(0)	UNSIGNED	1	NOT3URCL	LENGTH OF USER CORRELATION
1	(1)	CHARACTER	*	NOT3URCR	USER CORRELATION VALUE

MAPPING FOR VECTOR3 ADDRESS PAIR SESSION KEY-07

14	(E)	STRUCTURE	4	NOT3KEY7	DEFINED AT NOT3KEY
14	(E)	CHARACTER	2	NOT3PLUA	PLU NETWORK ADDRESS
16	(10)	CHARACTER	2	NOT3SLUA	SLU NETWORK ADDRESS
18	(12)	CHARACTER	*	NOT3END7	ADDRESS RESERVED FOR USER CORRELATION

NOTIFY VECTOR 6- RELREQ. ALL INFORMATION IS IN VECTORS  
 NOTIFY VECTOR 7- RESOURCE AVAILABLE  
 NOTIFY VECTOR 8- RESOURCE AVAILABLE  
 NOTIFY VECTOR 9- CANCEL NOTIFICATION AGREEMENT  
 ALL HAVE A COMMON BASE, WITH ADDITIONAL INFORMATION  
 IN VECTORS.

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	NOTRDATA	
0	(0)	CHARACTER	4	NOTRSENS	SENSE DATA
4	(4)	CHARACTER	*	NOTRVEC	ADDITIONAL INFORMATION

NOTIFY VECTOR 10- NOTIFY SENT TO SSCP THAT  
 A SWITCH OCCURED. VECTOR (X'10') NOTIFY SENT  
 TO SSCP THAT SWITCH OCCURRED.

0	(0)	STRUCTURE	1	NOTVC10	
0	(0)	BITSTRING	1	*	
		1... ..		NOT10SSD	(1)- SESSION STATE DATA CV(29) CONSTRUCTION DELAYED AND MAY THEREFORE NOT REFLECT STATE OF THE SESSION AT THE TIME THE SWITCH OCCURRED (0)- SESSION STATE DATA CV(29) CON- STRUCTION NOT DELAYED
		.111 1111		*	RESERVED
1	(1)	CHARACTER	*	NOT10RST	SESSION KEY BASING LOCATION

**Constants**

Len	Type	Value	Name	Description
CONSTANTS FOR NOTHDR				
3	HEX	810620	NOTNOT	NOTIFY RU 81 - NETWORK SERVICES, LOGICAL SER- VICES 06 - SESSION SERVICES 20 - NOTIFY
3	HEX	818620	NOTCDNOT	CDRM NOTIFY RU 81 - NETWORK SERVICES, LOGICAL SERVICES 86 - SESSION SERVICES, CDRM 20 - NOTIFY
CONSTANT FOR RESOURCE TYPE - NOTLU1T, NOTLU2T, NOT2LU1T, NOT2LU2T, NOT7LU1T, NOT7LU2T				
1	HEX	F3	NOTF3	LOGICAL UNIT
CONSTANT FOR NOT3KEY				
1	HEX	01	NOTKEY1	SINGLE NETWORK NAME
1	HEX	06	NOTKEY6	PAIRED NETWORK NAMES
1	HEX	07	NOTKEY7	PAIRED NETWORK ADDRESSES
CONSTANTS FOR NOTVEC				

RU

Len	Type	Value	Name	Description
1	HEX	01	NOTVEC1C	RESOURCE REQUESTED EQUALS VECTOR1
1	HEX	0C	NOTVECCC	SESSION STATUS EQUALS VECTOR 0C
1	HEX	03	NOTVEC3C	NOTIFICATION EQUALS VECTOR3
1	HEX	06	NOTVEC6C	NOTIFY VECTOR KEY USED WHEN RESOURCE REQUESTED ACROSS GATEWAY
1	HEX	07	NOTVEC7C	NOTIFY ON PLU AVAILABLE - NOT CAPABLE OF PROCESSING CDINIT FORMAT 3 OR 4
1	HEX	08	NOTVEC8C	NOTIFY ON PLU AVAILABLE - SSCP CAPABLE OF PROCESSING CDINIT FORMAT 3 OR 4
1	HEX	09	NOTVEC9C	NOTIFY TO CANCEL NOTIFICATION AGREEMENT
1	HEX	10	NOTVC10C	NOTIFY SENT TO SSCP THAT A SWITCH HAS OCCURRED

CONSTANTS FOR NOTSESS

1	HEX	01	NOTTERM	SESSION TERMINATED
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CONSTANTS FOR NOT3STAT

1	HEX	00	NOTCDRML	CDRM LOST
1	HEX	01	NOTTERMD	SESSION TERMINATED
1	HEX	02	NOTINIT	SESSION INITIATED
1	HEX	03	NOTNSPE	PROCEDURE ERROR
1	HEX	04	NOTSTART	SESSION STARTED

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTNOTRU	0		1	NOT3URC	0		1
NOTCAT	1		3	NOT3URCL	0		2
NOTHDR	0		2	NOT3URCR	1		2
NOTLU1	0		2				
NOTLU1L	1		3				
NOTLU1N	2		3				
NOTLU1T	0		3				
NOTLU2	0		1				
NOTLU2L	1		2				
NOTLU2N	2		2				
NOTLU2T	0		2				
NOTRDATA	0		1				
NOTREQ	2		3				
NOTREST	4		2				
NOTRSENS	0		2				
NOTRVEC	4		2				
NOTSST	0		3				
NOTVC10	0		1				
NOTVEC	3		2				
NOTVEC1	0		1				
NOTVEC3	0		1				
NOT10RST	1		2				
NOT10SSD	0	80	3				
NOT3END7	12		2				
NOT3KEY	E		2				
NOT3KEY7	E		1				
NOT3LU1	F		2				
NOT3LU1L	10		3				
NOT3LU1N	11		3				
NOT3LU1T	F		3				
NOT3LU2	0		1				
NOT3LU2L	1		2				
NOT3LU2N	2		2				
NOT3LU2T	0		2				
NOT3PCID	1		2				
NOT3PLUA	E		2				
NOT3REAS	9		2				
NOT3SENS	A		2				
NOT3SLUA	10		2				
NOT3STAT	0		2				

RU

## Network Services Procedure Error RU (NSPE)

<b>Function:</b>	NSPE is used by the SSCP to inform an ILU or TLU that a session initiation or termination attempt has failed after a positive response was sent to the corresponding initiation or termination request. (NSPE is used only if TMORU or format 0 of ISHDR was issued. Otherwise, NOTRU is used.)
<b>RU Header:</b>	X'010604' (NS header)
<b>RU Type:</b>	FMD

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTNSPE	
0	(0)	CHARACTER	3	NSPHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	NSPSST	LOGICAL OR PHYSICAL RU TYPE
1	(1)	CHARACTER	1	NSPCAT	NS SUBTYPE-CDRM INDICATOR
2	(2)	CHARACTER	1	NSPREQ	REQUEST CODE
3	(3)	CHARACTER	1	NSPREAS	REASON
		1... ....		NSPPLUE	ERROR AT PLU
		.1.. ....		NSPSLUE	ERROR AT SLU
		..1. ....		NSPPLUR	REJECT AT PLU
		...1 ....		NSPSLUR	REJECT AT SLU
		.... 1..		NSPTDF	0=SETUP FAILURE 1=TAKEDOWN FAILURE
		.... .1..		NSPRSV1	RESERVED
		.... ..1.		NSPINTR	INIT REJECT AT SSCP
		.... ...1		NSPFCRMT	0=CONDENSED FORMAT 1=COMPREHENSIVE FORMAT
4	(4)	CHARACTER	4	NSPSENSE	SENSE DATA FROM FAILURE
8	(8)	CHARACTER	*	NSPKYB	BASING POSITION FOR SESSION KEY

NSPKY6 IS AN OVERLAY OF NSPKYB

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	NSPKY6	BASE SESS KEY 6
0	(0)	CHARACTER	1	NSPSESKE	SESSION KEY
1	(1)	CHARACTER	2	NSPLU1	PRIMARY LU NETWORK NAME
1	(1)	CHARACTER	1	NSPLU1TP	RESOURCE TYPE
2	(2)	UNSIGNED	1	NSPLU1LN	LENGTH OF LU1 NAME
3	(3)	CHARACTER	*	NSPLU1NM	LU1 SYMBOLIC NAME

MAPPING FOR LU2 NETWORK NAME

0	(0)	STRUCTURE	2	NSPLU2	
0	(0)	CHARACTER	1	NSPLU2TP	RESOURCE TYPE
1	(1)	UNSIGNED	1	NSPLU2LN	LU2 LENGTH
2	(2)	CHARACTER	*	NSPLU2NM	LU2 NAME

## Constants

Len	Type	Value	Name	Description
1	HEX	06	NSPKY6	NAME PAIR SESS KEY
CONSTANT FOR NSPHDR - NETWORK SERVICES PROCEDURE ERROR				
3	HEX	010604	NSPHDR	01 - NETWORK SERVICES 06 - SESSION SERVICES 04 - NETWORK SERVICES PROCEDURE ERROR
CONSTANT FOR NSPLU1TP AND NSPLU2TP				
1	HEX	F3	NSPF3	LOGICAL UNIT

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTNSPE	0		1
NSPCAT	1		3
NSPFCRMT	3	01	3
NSPHDR	0		2
NSPINITR	3	02	3
NSPKYB	8		2
NSPKY6	0		1
NSPLU1	1		2
NSPLU1LN	2		3
NSPLU1NM	3		3
NSPLU1TP	1		3
NSPLU2	0		1
NSPLU2LN	1		2
NSPLU2NM	2		2
NSPLU2TP	0		2
NSPPLUE	3	80	3
NSPPLUR	3	20	3
NSPREAS	3		2
NSPREQ	2		3
NSPRSV1	3	04	3
NSPSENSE	4		2
NSPSESKE	0		2
NSPSLUE	3	40	3
NSPSLUR	3	10	3
NSPSST	0		3
NSPTDF	3	08	3

RU

## Notify RU (Configuration Services) Sent on SSCP-PU Session (NTFY)

<b>Function:</b>	NTFY provides an overlay for the NOTIFY RU that facilitates synchronization between the gateway SSCP and the gateway node. The gateway SSCP sends NTFY to inform the gateway node that it could not complete the initiation process for some reason. The gateway node sends NTFY to inform the gateway SSCP that one of the following conditions exists: <ul style="list-style-type: none"> <li>• Session initiation could not complete because of inability to activate a VR</li> <li>• SON was received for an active or pending active session</li> <li>• Session terminated normally.</li> </ul>
<b>RU Header:</b>	X'410220'
<b>RU Type:</b>	FMD

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	12	ISTNTFY	NOTIFY RU	
0	(0)	CHARACTER	3	NTFYQHDR	NOTIFY HEADER - 410220	
3	(3)	CHARACTER	2	NTFYNA	ELEMENT PORTION OF NA OF PU	
5	(5)	CHARACTER	1	NTFYKEY	NOTIFY VECTOR KEY	
6	(6)	CHARACTER	6	NTFYDATA	NOTIFY VECTOR DATA	
6	(6)	CHARACTER	1	NTFCAUS	CAUSE NOTIFY SENT TO SSCP OR GWN	
7	(7)	CHARACTER	4	NTFSNS	SENSE FROM NEGATIVE RESPONSE TO BIND WHEN CAUSE IS X'00' OR X'02' - OTHERWISE FIELD IS ZERO	
11	(B)	CHARACTER	1	NTFCIND	CORRELATION INDICATOR	
		1... ..		NTFRET	RETENTION INDICATOR 0 DO NOT RETAIN THE ADDRESS PAIR FOR FUTURE USE 1 ADDRESS PAIR SHOULD BE RETAINED FOR POTENTIAL RE-USE	
		.111 1111		NTFRSVD	RESERVED	
12	(C)	CHARACTER	*	NTFVECS	OVERLAY FOR VECTORS	

### Constants

Len	Type	Value	Name	Description
<p>THIS NOTIFY SUPPORTS 2 CONTROL VECTORS TO BE USED WITH THIS RU- NETWORK QUALIFIED ADDRESS PAIR CONTROL VECTOR X'15' IS MAPPED BY ISTNQAP AND BASED ON ADDR(NTFYVECS) OR ON A PRECEDING VECTOR IF ANY EXISTS. THIS VECTOR IS ALWAYS PRESENT.</p> <p>WHEN THE FLOW IS SSCP-PU, THE NAU1 AND NAU2 ARE BOTH ADDRESSES WITHIN THE NETWORK SPECIFIED IN THE NETWORK ID FIELD OF THE VECTOR. NAU2 IS AN ALIAS ADDRESS ASSIGNED WITHIN THE GATEWAY NODE RECEIVING THE VECTOR.</p> <p>WHEN THE FLOW IS PU-SSCP, THE CONTROL VECTOR MAY IDENTIFY THE SESSION AS KNOWN ON EITHER SIDE OF THE GATEWAY NODE AND THE ADDRESSES MAY BE IN ANY ORDER.</p> <p>VRID LIST CONTROL VECTOR X'1B' IS MAPPED BY ISTVRIDV AND IS BASED ON ADDR(NTFYVECS) OR ON A PRECEDING VECTOR IF ANY EXISTS. THIS CONTROL VECTOR IS INCLUDED FOR A PU-SSCP SESSION FLOW AND WHEN THE CAUSE IS X'00' VR ACTIVATION FAILURE.</p>				
3	HEX	410220	NTFYHDR	NS HEADER FOR NOTIFY
1	HEX	05	NTFYKEY5	VECTOR KEY FOR CROSS NETWORK SYNCHRONISM
<p>CONSTANTS FOR CAUSES THAT THE NOTIFY RU WAS SENT (NTFCAUS)</p> <p>CAUSES 00 - 03 ARE SENT BY PU TO SSCP</p> <p>CAUSES 04 - 06 ARE SENT BY SSCP TO PU</p>				
1	HEX	00	NTFCAUS0	VR ACTIVATION FAILURE
1	HEX	01	NTFCAUS1	SESSION ENDED
1	HEX	02	NTFCAUS2	SESSION ACTIVATION REQUEST REJECTED
1	HEX	03	NTFCAUS3	SESSION STARTED
1	HEX	04	NTFCAUS4	SESSION TERMINATION
1	HEX	05	NTFCAUS5	SESSION SETUP FAILURE



Len	Type	Value	Name	Description
1	HEX	06	NTFCAUS6	SESSION TAKEDOWN FAILURE

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTNTFY	0		1
NTFCAUS	6		3
NTFCIND	B		3
NTFRET	B	80	4
NTFRSVD	B	40	4
NTFSNS	7		3
NTFVECS	C		3
NTFYDATA	6		2
NTFYKEY	5		2
NTFYNA	3		2
NTFYQHDR	0		2

## OPEN or CLOSE ACB RU (OCRU)

<b>Function:</b>	OCRU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'4106FF01' (NS header) (open ACB) X'4106FF02' (NS header) (close ACB)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTOCRU	OPEN/CLOSE ACB AMRU
0	(0)	CHARACTER	4	OCRHDR	NETWORK SERVICES HEADER
4	(4)	CHARACTER		OCREND	REMAINDER OF RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
4	(4)	STRUCTURE	17	OCROA	OPEN ACB RU
4	(4)	CHARACTER	1	OCROATP	OPEN ACB TYPE
		1... ..		OCROALG	1=MACRF=LOGON WAS CODED
		.1.. ..		OCROASC	1=APPL HAS A SCIP EXIT
		..1. ....		OCROANS	1=APPL HAS A NS EXIT
		...1 ....		OCROAUT	1=APPL IS AUTHORIZED
		.... 1...		OCROALX	1=APPL HAS A LOGON EXIT
		.... .1..		*	RESERVED
		.... ..1.		*	RESERVED - NOT AVAILABLE
		.... ...1		OCROFREE	1=OPEN ACB ERROR HAS OCCURRED
5	(5)	CHARACTER	8	OCROANM	APPLICATION NAME
13	(D)	CHARACTER	8	OCROAPW	PASSWORD FOR OPEN
4	(4)	STRUCTURE	9	OCRCA	CLOSE ACB RU
4	(4)	CHARACTER	1	OCRCATP	CLOSE ACB TYPE
		1... ..		OCRCAAB	1=ABEND CLOSE
		.1.. ..		*	RESERVED - NOT AVAILABLE
		..1. ....		*	RESERVED - NOT AVAILABLE
		...1 ....		*	RESERVED - NOT AVAILABLE
		.... 1...		*	RESERVED - NOT AVAILABLE
		.... .1..		*	RESERVED - NOT AVAILABLE
		.... ..1.		*	RESERVED - NOT AVAILABLE
		.... ...1		OCRCFREE	1=OPEN ACB ERROR HAS OCCURRED
5	(5)	CHARACTER	8	OCRCANM	APPLICATION NAME

MAPPING FOR THE OPEN ACB RESPONSE AMRU (BASED)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	28	ISTOCRSP	OPEN ACB RESPONSE AMRU
0	(0)	CHARACTER	1	*	FLAGS
		11.. ....		*	RESERVED
		..11 1111		*	NOT USED - AVAILABLE
1	(1)	UNSIGNED	3	OCRDEBX	INDEX INTO ACDEB ADDRESS TABLE
4	(4)	CHARACTER	8	OCRNAME	NETWORK NAME
12	(C)	CHARACTER	8	OCRSPNM	SSCPNAME CODED AT START
20	(14)	CHARACTER	8	OCRPUNAM	HOST-PU NAME CODED AT START

RU

## Constants

Len	Type	Value	Name	Description
CONSTANTS FOR OCRHDR				
4	HEX	4106FF01	OCROHDC	HEADER FOR OPEN ACB
4	HEX	4106FF02	OCRCHDC	HEADER FOR CLOSE ACB

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTOCRSP	0		1
ISTOCRU	0		1
OCRCA	4		1
OCRCAAB	4	80	3
OCRCANM	5		2
OCRCATP	4		2
OCRCFREE	4	01	3
OCRDEBX	1		2
OCREND	4		2
OCRHDR	0		2
OCRNAME	4		2
OCROA	4		1
OCROALG	4	80	3
OCROALX	4	08	3
OCROANM	5		2
OCROANS	4	20	3
OCROAPW	D		2
OCROASC	4	40	3
OCROATP	4		2
OCROAUT	4	10	3
OCROFREE	4	01	3
OCRPUNAM	14		2
OCRSCPNM	C		2



## Add Link RU (PLKRU)

<b>Function:</b>	The SSCP sends PLKRU to the PU to obtain a link network address that will be mapped to the locally-used link identifier specified in the request. The PLKRU is used for VTAM internal inter-component communication.
<b>RU Header:</b>	X'4102FFBD' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTPLKRU	ADDLINK REQUEST UNIT
0	(0)	CHARACTER	4	PLKHDR	NS HEADER (AMRU)
4	(4)	CHARACTER	4	PLKCUA	CHANNEL-UNIT ADDRESS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	PLKRSP	ADDLINK RESPONSE UNIT
0	(0)	CHARACTER	2	PLKNAD	LINK NETWORK ADDRESS
0	(0)	CHARACTER	2	PLKELEM	ELEMENT ADDRESS, IF NODE IS ENA CAPABLE

### Constants

Len	Type	Value	Name	Description
NOTE THAT THE NS HEADER AND POSSIBLE SENSE DATA FIELDS OF THE RESPONSE UNIT ARE NOT MAPPED HERE BECAUSE ISTINCF1 AND ISTINCS1 ADD AND REMOVE THOSE FIELDS AUTOMATICALLY (CPCBOPC AND RUPESNS CONTAIN THE RESPONSE NS HEADER (SORT OF) AND THE SENSE DATA, RESPECTIVELY). CONSTANT FOR NETWORK SERVICES HEADER FIELD (PLKHDR)				
4	HEX	4102FFBD	PLKNSH	ADDLINK RU

RU

## Add Link Station RU (PSTRU)

<b>Function:</b>	The SSCP sends PSTRU to the PU to obtain an adjacent link station network address to be associated with the locally-used link station identifier specified in the request. The PSTRU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'4102FFBE' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTPSTRU	ADD_LINK_STATION RU
0	(0)	CHARACTER	4	PSTHDR	NS HEADER (AMRU)
4	(4)	CHARACTER	2	PSTLKA	STATION NETWORK ADDRESS
4	(4)	CHARACTER	2	PSTLKEL	ELEMENT ADDRESS WHEN ENA CAPABLE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	PSTRSP	ADD_LINK_STATION RESPONSE
0	(0)	CHARACTER	2	PSTNAD	STATION NETWORK ADDRESS
0	(0)	CHARACTER	2	PSTELEM	ELEMENT ADDRESS, IF ENA CAPABLE

### Constants

Len	Type	Value	Name	Description
NOTE THAT THE NS HEADER AND POSSIBLE SENSE DATA FIELDS OF THE RESPONSE UNIT ARE NOT MAPPED HERE BECAUSE ISTINCF1 AND ISTINCS1 ADD AND REMOVE THOSE FIELDS AUTOMATICALLY (CPCBOPC AND RUPESNS CONTAIN THE RESPONSE NS HEADER (SORT OF) AND THE SENSE DATA, RESPECTIVELY). CONSTANT FOR NETWORK SERVICES HEADER FIELD (PSTHDR)				
4	HEX	4102FFBE	PSTNSH	ADD_LINK_STATION RU

RU

## Request Network Address Assignment RU (RADRU)

<b>Function:</b>	RADRU requests the PU to update its path control routing table and to assign network addresses. The PU returns the network addresses in the response.
<b>RU Header:</b>	X'410210' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	7	ISTRADRU	REQUEST NETWORK ADDRESS ASSIGNMENT
0	(0)	CHARACTER	3	RADQNSHR	NS HEADER = X'410210' (RNAA)
3	(3)	CHARACTER	2	RADQTAR	NETWORK ADDRESS OF TARGET
3	(3)	CHARACTER	2	RADTELEM	ELEMENT ADDR OF TARGET
5	(5)	CHARACTER	1	RADQTYPE	TYPE
		1111 ....		RADADDTY	ADDRESS TYPE
		.... 1111		RADASITY	ASSIGNMENT TYPE
6	(6)	UNSIGNED	1	RADQNUM	NUMBER OF NETWORK ADDRESSES
7	(7)	CHARACTER	*	RADQADR	LOCATION OF FIRST LOCAL ADDRESS TO REFER TO EACH LINK STATION OR LOCAL ADDR FOR TYPE 0,1

MAPPING FOR ASSIGNMENT TYPE 3 -CROSS NETWORK ADDRESS TRANSFORM

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	33	RADCRNET	
0	(0)	CHARACTER	1	RADSCHAR	SESSION CHARACTERISTICS
		1... ....		RADPSORG	PARALLEL SESSION CAPABILITY OF ADJACENT SSCP ON ORIGIN NAU SIDE OF PU 0=SSCP DOES NOT HAVE PARALLEL SESSION CAPABILITY 0=SSCP-SSCP SESSION RNAA 1=SSCP DOES HAVE PARALLEL SESSION CAPABILITY
		.1.. ....		RADPSDES	PARALLEL SESSION CAPABILITY OF ADJACENT SSCP ON DESTINATION NAU SIDE OF PU 0=SSCP DOES NOT HAVE PARALLEL 0=SSCP-SSCP SESSION RNAA SESSION CAPABILITY 1=SSCP DOES HAVE PARALLEL SESSION CAPABILITY
		..1. ....		RADPSOLU	PRIMARY/SECONDARY NATURE OF OLU (RESERVED FOR SESSION TYPE SSCP-SSCP) 0=OLU IS PLU 1=IS SLU
		...1 ....		RADRF LG	RETENTION FLAG 0=DO NOT RETAIN ADDRESS TRANSFORMS AFTER TERMINATION 1=RETAIN ADDRESS TRANSFORMS AFTER TERMINATION
		.... 1...		RADSTYP	SESSION TYPE 0=LU-LU SESSION 1=SSCP-SSCP SESSION
		.... .1..		RADOENA	OLU ENA CAPABILITIES 0=ADJACENT SSCP ON OLU SIDE OF PU IS PRE-ENA 1=ADJACENT SSCP ON OLU SIDE OF PU IS ENA CAPABLE
		.... ..1.		RADDENA	DLU ENA CAPABILITIES 0=ADJACENT SSCP ON DLU SIDE OF PU IS PRE-ENA 1=ADJACENT SSCP ON DLU SIDE OF PU IS ENA CAPABLE
		.... ...1		RADRSVD1	RESERVED - NOT AVAILABLE
1	(1)	CHARACTER	1	RADRSVD2	RESERVED - NOT AVAILABLE
2	(2)	CHARACTER	6	RADRAORG	ORIGIN NAU ADDRESS AS KNOWN IN NETWORK ADJACENT TO PU ON ORIGIN SIDE OF PU
8	(8)	CHARACTER	8	RADANORG	NETID OF NETWORK ADJACENT TO PU ON ORIGIN NAU SIDE OF PU
16	(10)	CHARACTER	8	RADANDES	NETID OF NETWORK ADJACENT TO PU ON DESTINATION NAU SIDE OF PU
24	(18)	CHARACTER	8	RADNORG	NETID OF ORIGIN NAU'S NETWORK
32	(20)	UNSIGNED	1	RADLNORG	LENGTH OF ORIGIN NAU NAME

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
33	(21)	CHARACTER	*	RADNMORG	ORIGIN NAU NAME(REAL NAME)
0	(0)	STRUCTURE	9	RADNET	
0	(0)	CHARACTER	8	RADNDES	NETID OF DESTINATION NAU'S NETWORK
8	(8)	UNSIGNED	1	RADLNDES	LENGTH OF DESTINATION NAU NAME
9	(9)	CHARACTER	*	RADNMDES	DESTINATION NAU NAME(REALNAME)

MAPPING FOR ASSIGNMENT TYPE 4 - REQUEST IS FOR AN ELEMENT  
 ADDRESS ASSIGNMENT FOR THE TARGET INDEPENDENT PLU OR,  
 DEPENDENT OR INDEPENDENT SLU.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	RADTYP4	
		1111 ....		RADTARGI	TARGET LU INDICATOR
		1... ....		*	RESERVED
		.1.. ....		RADROLE	TARGET ADDRESS ROLE 0 - THE ADDRESS REQUESTED IS FOR ANY SLU ROLE 1 - THE ADDRESS REQUESTED IS FOR ANY PLU ROLE
		..1. ....		RADALUI	AUTHORIZED LU INDICATOR 0 - LU REQUIRES SYS-DEF TO RECEIVE NETWORK SERVICES 1 - LU DOES NOT REQUIRE SYS-DEF TO RECEIVE NETWORK SERVICES
		...1 ....		*	RESERVED
		.... 1111		RAD4XDRI	EXTENDED DYNAMIC RECONFIGURATION INDICATOR X'0' - THIS IS AN 'ADD' OPERATION X'1' - THIS IS A 'MOVE' OPERATION X'2' - THIS IS A 'REPLACE' OPERA- TION
1	(1)	UNSIGNED	2	RADALSEL	ELEMENT ADDRESS OF LU
3	(3)	UNSIGNED	1	RADLENLA	LENGTH OF LOCAL ADDRESS FIELD
4	(4)	CHARACTER	*	RADLOCAD	LOCAL ADDRESS
0	(0)	STRUCTURE	1	RADLUI	LU NAME INFORMATION
0	(0)	UNSIGNED	1	RADLULEN	LENGTH OF LU NAME
1	(1)	CHARACTER	*	RADLUNAM	LU NAME

MAPPING FOR ASSIGNMENT TYPE 5 - REQUEST IS FOR AN ELEMENT  
 ADDRESS ASSIGNMENT OF ADJACENT LINK STATIONS ASSOCIATED WITH  
 THE TARGET LINK.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	RADTYP5	
		1111 ....		*	RESERVED
		.... 1111		RAD5XDRI	EXTENDED DYNAMIC RECONFIGURATION INDICATOR X'0' - THIS IS AN 'ADD' OPERATION X'1' - THIS IS A 'MOVE' OPERATION X'2' - THIS IS A 'REPLACE' OPERA- TION
1	(1)	CHARACTER	2	RADTAELM	ELEMENT ADDRESS OF TARGET ALS
3	(3)	UNSIGNED	1	RADLENLS	LENGTH OF DLC HEADER LINK STATION ADDRESS FIELD
4	(4)	CHARACTER	*	RADLSAD	DLC HEADER LINK STATION ADDRESS
0	(0)	STRUCTURE	1	RADALSI	ADJACENT LINK STATION INFORMATION
0	(0)	UNSIGNED	1	RADADLEN	LENGTH IN BINARY OF ADJACENT LINK STATION NAME FIELD
1	(1)	CHARACTER	*	RADADNAM	ADJACENT LINK STATION NAME

MAP OF RESPONSE UNIT DATA (NOT INCLUDING NS HEADER)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTRADS	RNAA RESPONSE UNIT DATA
0	(0)	CHARACTER	2	RADSTAR	NETWORK ADDRESS AS SET IN RNAA REQUEST
2	(2)	CHARACTER	1	RADSTYPE	TYPE AS SET IN RNAA REQUEST
		1111 ....		RADSADDT	ADDRESS TYPE



Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
		.... 1111		RADSASIG	ASSIGNMENT TYPE	
3	(3)	UNSIGNED	1	RADSNUM	NUMBER OF ADDRESSES RETURNED	
4	(4)	CHARACTER	*	RADSADR	LOCATION OF FIRST NETWORK ADDRESS	
0	(0)	STRUCTURE	12	RADSQNA	NETWORK ADDRESSES FOR TYPE 3 ARE 6 BYTE ADDRESSES	
0	(0)	CHARACTER	6	RADSQDES	DESTINATION NAU ALIAS ADDRESS APPLICABLE IN ADJACENT NETWORK PU-ON THE ORIGN NAU SIDE OF PU	
6	(6)	CHARACTER	6	RADSQORG	ORIGIN NAU ALIAS ADDRESS APPLICABLE IN ADJACENT NETWORK PU-ON THE DESTINATION SIDE OF THE PU	

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR RADQNSHR RNAA-NS HEADER				
3	HEX	410210	RADNSHDR	NS HEADER = RNAA
CONSTANT FOR RADQTYPE-RNAA TYPE FIELD				
1	HEX	00	RADQTYPU	REQUEST IS FOR ELEMENT ADDRESS ASSIGNMENT OF ADJACENT LINK STATION(S) ASSOCIATED WITH TARGET LINK
1	HEX	01	RADQTYLU	REQUEST IS FOR AN UNCONDITIONAL PRE-ENA ELEMENT ADDRESS ASSIGNMENT OF BF.LU(S) ASSOCIATED WITH THE ADJACENT LINK STATION
1	HEX	02	RADQTALU	REQUEST IS FOR ADDITIONAL UNCONDITIONAL PRE-ENA ELEMENT ADDRESS ASSIGNMENT FOR THE TARGET LU - BYTES 3-4 CONTAIN THE LU ELEMENT USED IN SSCP-LU SESSION
1	HEX	03	RADQTYCN	REQUEST IS FOR CROSS NETWORK ADDRESS TRANSFORM
1	HEX	11	RADQTYAC	REQUEST IS FOR A CONDITIONAL NOT PRE-ENA COMPATIBLE ELEMENT ADDRESS ASSIGNMENT OF BF.LU(S) ASSOCIATED WITH THE ADJACENT LINK STATION
1	HEX	12	RADQTAAC	REQUEST IS FOR ADDITIONAL CONDITIONAL NOT PRE-ENA COMPATIBLE ELEMENT ADDRESS ASSIGNMENT FOR THE TARGET LU BYTES 3-4 CONTAIN THE LU ELEMENT USED IN SSCP-LU SESSION
1	HEX	21	RADQTYBC	REQUEST IS FOR A CONDITIONAL CONDITIONAL PRE-ENA COMPATIBLE ELEMENT ADDRESS ASSIGNMENT OF BF.LU(S) ASSOCIATED WITH THE ADJACENT LINK STATION
1	HEX	22	RADQTABC	REQUEST IS FOR ADDITIONAL CONDITIONAL PRE-ENA COMPATIBLE ELEMENT ADDRESS ASSIGNMENT FOR THE TARGET LU BYTES 3-4 CONTAIN THE LU ELEMENT USED IN SSCP-LU SESSION
0	HEX	4	RADRNAT4	LU RNAA TYPE 4
0	HEX	5	RADRNAT5	PU RNAA TYPE 5
CONSTANT FOR EXTENDED SYMAMIC RECONFIGURATION TYPE INDICATORS RAD4XDRI AND RAD5XDRI				
0	HEX	0	RADXDRI0	THIS IS A 'ADD' OPERATION
0	HEX	1	RADXDRI1	THIS IS A 'MOVE' OPERATION
0	HEX	2	RADXDRI2	THIS IS A 'REPLACE' OPERATION

RU



## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRADRU	0		1
ISTRADS	0		1
RADADDTY	5	80	3
RADADLEN	0		2
RADADNAM	1		2
RADALSEL	1		2
RADALSI	0		1
RADALUI	0	20	3
RADANDES	10		2
RADANORG	8		2
RADASITY	5	08	3
RADCRNET	0		1
RADDENA	0	02	3
RADLENLA	3		2
RADLENLS	3		2
RADLNDES	8		2
RADLNORG	20		2
RADLOCAD	4		2
RADLSAD	4		2
RADLUI	0		1
RADLULEN	0		2
RADLUNAM	1		2
RADNDES	0		2
RADNET	0		1
RADNMDES	9		2
RADNMORG	21		2
RADNORG	18		2
RADOENA	0	04	3
RADPSDES	0	40	3
RADPSOLU	0	20	3
RADPSORG	0	80	3
RADQADR	7		2
RADQNSHR	0		2
RADQNUM	6		2
RADQTAR	3		2
RADQTYPE	5		2
RADRAORG	2		2
RADRFLG	0	10	3
RADROLE	0	40	3
RADRSVD1	0	01	3
RADRSVD2	1		2
RADSADDT	2	80	3
RADSADR	4		2
RADSASIG	2	08	3
RADSCHAR	0		2
RADSNUM	3		2
RADSQDES	0		2
RADSQNA	0		1
RADSQORG	6		2
RADSTAR	0		2
RADSTYP	0	08	3
RADSTYPE	2		2
RADTAELM	1		2
RADTARGI	0	80	2
RADTELEM	3		3
RADTYP4	0		1
RADTYP5	0		1
RAD4XDRI	0	08	2
RAD5XDRI	0	08	2



## Request Explicit Route Activation RU (RAERU)

<b>Function:</b>	The ER manager in a subarea node issues RAERU to activate an explicit route. The RAERU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'FF0B' (request code)
<b>RU Type:</b>	AMRU

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	12	ISTRAERU	VIRTUAL ROUTE INOPERATIVE RU
0	(0)	CHARACTER	2	RAEHDR	REQUEST CODE FIELD (NC AMRU)
2	(2)	CHARACTER	4	RAEDSA	DESTINATION SUBAREA NUMBER
6	(6)	CHARACTER	4	RAEADJ	ADJACENT SUBAREA NUMBER
10	(A)	UNSIGNED	1	RAEERN	EXPLICIT ROUTE NUMBER
11	(B)	UNSIGNED	1	*	RESERVED

**Constants**

Len	Type	Value	Name	Description
2	HEX	FF0B	RAERCD	REQ ER ACTIVATE REQUEST CODE



## Record Test Results (RCTRU)

<b>Function:</b>	RCTRU is the reply corresponding to an ETMRU request. It returns the results and status for the test. Multiple reply requests may be sent in answer to a single ETMRU request. When ETMRU initiates a continuous test, the RCTRU(s) is sent in reply to the ETMRU request that terminates the test.
<b>RU Header:</b>	X'410385' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	17	ISTRCTRU	
0	(0)	CHARACTER	3	RCTHDR	NS HEADER
3	(3)	CHARACTER	5	RCTCSMH	STANDARD CSM HEADER
8	(8)	CHARACTER	1	RCTRSV1	RESERVED
9	(9)	UNSIGNED	2	RCTNT	NUMBER OF TEST FRAMES TRANSMITTED
11	(B)	UNSIGNED	2	RCTNR	NUMBER OF TEST FRAMES RECEIVED
13	(D)	UNSIGNED	2	RCTNRWE	NUMBER OF TEST FRAMES RECEIVED WITHOUT ERROR
15	(F)	BITSTRING	2	RCTRTTM	REASON FOR TEST TERMINATION

### Constants

Len	Type	Value	Name	Description
3	HEX	410385	RCTHDRC	
CONSTANT FOR TEST TYPE (NSRTYPE)				
0	BIT	000001	RCTTYP1	LINK LEVEL 2 TEST
CONSTANT FOR REASON CODES FOR TEST TERMINATIONS (RCTRTTM)				
2	HEX	0000	RCTRTWOE	TEST COMPLETE WITHOUT ERROR
2	HEX	0001	RCTRTWE	TEST COMPLETE WITH ERROR
2	HEX	0002	RCTRTINP	TEST ENDED DUE TO LINK INOP
2	HEX	0003	RCTRTTIF	TEST INITIALIZATION FAILURE



## Request Dump RU (RDPRU)

<b>Function:</b>	RDPRU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'4102FFCD' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	40	ISTRDPRU	REQUEST DUMP RQ UNIT
0	(0)	CHARACTER	4	RDPHDR	NS HEADER (AMRU)
4	(4)	CHARACTER	10	RDPLSN	LINK STATION NETWORK NAME
14	(E)	CHARACTER	10	RDPAU	ATTACHED PU NET NAME
24	(18)	CHARACTER	8	RDPDFN	DUMP FILE NAME (E.G., OS DDNAME)
32	(20)	CHARACTER	8	RDPRQPCI	REQUEST DUMP PCID

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	RDPRSP	REQUEST DUMP RESPONSE UNIT
0	(0)	CHARACTER	8	RDPRSPCI	REQUEST DUMP PCID

OVERLAY TO REFER TO NETWORK NAMES (RDPLSN, RDPAU)

0	(0)	STRUCTURE	2	RDPNF	NETWORK NAME FIELD
0	(0)	BITSTRING	1	RDPTYP	RESOURCE TYPE
1	(1)	UNSIGNED	1	RDPLEN	RESOURCE NAME LENGTH
2	(2)	CHARACTER	*	RDPNAM	RESOURCE NAME

### Constants

Len	Type	Value	Name	Description
NOTE THAT THE NS HEADER AND POSSIBLE SENSE DATA FIELDS OF THE RESPONSE UNIT ARE NOT MAPPED HERE BECAUSE ISTINCF1 AND ISTINCS1 ADD AND REMOVE THOSE FIELDS AUTOMATICALLY (CPCBOPC AND RUPESNS CONTAIN THE RESPONSE NS HEADER (SORT OF) AND THE SENSE DATA, RESPECTIVELY).				
CONSTANTS FOR NETWORK SERVICES HEADER (RDPHDR)				
4	HEX	4102FFCD	RDPDMP	NS HDR FOR REQUEST UNCONDITIONAL DUMP
CONSTANTS FOR RESOURCE TYPE (RDPTYP)				
1	HEX	00	RDPN0	NONE (NO NAME)
1	HEX	F1	RDPPU	PHYSICAL UNIT
1	HEX	F3	RDPLU	LOGICAL UNIT
1	HEX	F5	RDPTP	TEST PROCEDURE
1	HEX	F7	RDPLS	LINK STATION
1	HEX	F9	RDPLK	LINK

RU

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRDPUR	0		1
RDPAPU	E		2
RDPDFN	18		2
RDPHDR	0		2
RDPLEN	1		2
RDPLSN	4		2
RDPNAM	2		2
RDPNNF	0		1
RDPRQPCI	20		2
RDPRSP	0		1
RDPRSPCI	0		2
RDPTYP	0		2



## Request Delete Network Resource RU (RDRRU)

<b>Function:</b>	RDRRU requests an SSCP to deactivate an application LU.
<b>RU Header:</b>	X'410286' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTRDRRU	REQUEST DELETE NETWORK RESOURCE
0	(0)	CHARACTER	3	RDRNSHDR	NS HEADER
3	(3)	CHARACTER	1	RDRTYPE	RESOURCE TYPE
4	(4)	CHARACTER	1	RDRDT	DELETE TYPE
5	(5)	CHARACTER	*	RDRADDR	RESOURCE ADDRESS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	RDRLU	RU FORMAT FOR TYPE = LU
0	(0)	CHARACTER	2	RDRNALU	NETWORK ADDRESS OF THE LU
0	(0)	CHARACTER	2	RDRLELM	ELEMENT ADDRESS OF THE LU IF THE LU IS ENA CAPABLE

RU

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR RDRNSHDR				
3	HEX	410286	RDRHDC	
CONSTANTS FOR RDRTYPE				
1	DECIMAL	1	RDRCLU	CLUSTER LU
1	DECIMAL	2	RDRSBLU	SUBAREA LU
1	DECIMAL	3	RDRSBLNK	SUBAREA LINK
CONSTANTS FOR RDRDT				
1	DECIMAL	0	RDRORDY	ORDERLY
1	DECIMAL	1	RDRFORCE	FORCED
1	DECIMAL	2	RDRCLNUP	CLEANUP

## Request Virtual Route Deactivate RU (RDVRU)

<b>Function:</b>	RDVRU deactivates a virtual route. It is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'FF0E' (request code)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	ISTRDVRU	REQUEST_DACTVR (AM)RU
0	(0)	CHARACTER	2	RDVHDR	REQUEST CODE FIELD (NC AMRU)
2	(2)	UNSIGNED	1	RDVTYPE	TYPE OF DACTVR REQUESTED
3	(3)	UNSIGNED	1	RDVCAUSE	CAUSE OF REQUEST_DACTVR
4	(4)	CHARACTER	4	RDVDSA	DESTINATION SUBAREA NUMBER
8	(8)	CHARACTER	2	RDVVRID	VIRTUAL ROUTE IDENTIFIER
8	(8)	UNSIGNED	1	RDVVRN	VIRTUAL ROUTE NUMBER
9	(9)	UNSIGNED	1	RDVTPI	TRANSMISSION PRIORITY INDICATOR

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR REQUEST CODE FIELD (RDVHDR)				
2	HEX	FF0E	RDVRCD	REQ_DACTVR REQUEST CODE
CONSTANTS FOR REQUEST TYPE FIELD (RDVTYPE)				
1	DECIMAL	0	RDVORD	REQUEST DACTVR (ORDERLY)
1	DECIMAL	1	RDVFRC	REQUEST DACTVR (FORCED)
CONSTANTS FOR REQUEST CAUSE FIELD (RDVCAUSE)				
1	DECIMAL	0	RDVSECT	SESSION COUNT FOR VRID = 0
1	DECIMAL	1	RDVABEND	VR PAB ABEND RECOVERY

RU

## Reallocate RU (RELOC)

<b>Function:</b>	RELOC is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'8106FF80' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTRELOC	
0	(0)	CHARACTER	4	RELHDR	REQUEST CODE
4	(4)	CHARACTER	2	RELNAME	NETWORK NAME INFO
4	(4)	CHARACTER	1	RELTYPE	LU TYPE
5	(5)	UNSIGNED	1	RELNMLEN	LU NAME FIELD LENGTH
6	(6)	CHARACTER	*	RELNMFLD	LU NAME FIELD

### Constants

Len	Type	Value	Name	Description
CONSTANTS				
4	HEX	8106FF80	RELHDRC	REALLOCATE AMRU
1	HEX	F3	RELYPLU	LU TYPE





## Resume Access Method RU (RESUM)

<b>Function:</b>	RESUM provides a mapping for the resume AMRU, which is used to redispach a waiting task.
<b>RU Header:</b>	X'8106FF20' (NS header)
<b>RU Type:</b>	AMRU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	18	ISTRESUM		
0	(0)	CHARACTER	4	RESHDR	Resume AMRU Header	
4	(4)	CHARACTER	1	RESFORMAT	Format field	
5	(5)	CHARACTER	8	RESPCID	Correlator	
13	(D)	UNSIGNED	1	RESRETCOD	Return code from resuming event	
14	(E)	CHARACTER	4	RESSENSE	Sense code from RESUMing event	
18	(12)	CHARACTER	*	RESDATA	Format specific data	

MAP for format RESFCRYP

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	16	RESCRYPK		
0	(0)	CHARACTER	8	RESPLUKY	PLU/CDRM cryptographic key	
8	(8)	CHARACTER	8	RESSLUKY	SLU cryptographic key	

### Constants

Len	Type	Value	Name	Description
Resume AMRU Header				
4	HEX	8106FF20	RESUMID	Resume AMRU
Constants for the Resume AMRU format (RESFORMAT)				
1	HEX	01	RESFDIAL	Dial Resume
1	HEX	02	RESFERP	ERP Resume
1	HEX	03	RESFD RIP	DSSIB Routing Complete
1	HEX	04	RESFSEND	Session End Resume
1	HEX	05	RESFOSA	OSA Resume
1	HEX	06	RESFSRIP	SIB Routing Complete
1	HEX	07	RESFREAL	Reallocation Resume
1	HEX	09	RESFCDIO	SLU IO in progress
1	HEX	0A	RESFALIS	Alias appl inactive
1	HEX	10	RESFCDSE	CD Session End Resume
1	HEX	11	RESFCRYP	CRYPTO Resume
1	HEX	12	RESFSMEB	SME BEGIN Resume



**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTRESUM	0		1
RESCRYPK	0		1
RESDATA	12		2
RESFORMAT	4		2
RESHDR	0		2
RESPCID	5		2
RESPLUKY	0		2
RESRETC	D		2
RESSENSE	E		2
RESSLUKY	8		2

RU

## Record Formatted Maintenance Statistics RU (RFMRU)

<b>Function:</b>	RFMRU passes maintenance-related information from a PU to maintenance services at the SSCP.
<b>RU Header:</b>	X'410384' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTRFMRU	
0	(0)	CHARACTER	3	RFMNSHDR	CNM NS HEADER
3	(3)	CHARACTER	2	RFMCNMID	CNM ID - SEE RFMCIDD
5	(5)	BITSTRING	2	RFMCCORR	CORRELATOR
		11.. ....		RFMRSV1	RESERVED
		..11 ....		RFMCIDD	CNM ID DESCRIPTOR - DEFINES CONTENTS OF CNMID
5	(5)	BITSTRING	1	RFMPRID	PROCEDURE RELATION IDENTIFIER
7	(7)	BITSTRING	1	RFMFT	FLAG AND TYPE BYTE
		1... ....		RFMSOL	0 = UNSOLICITED REQUEST 1 = REPLY REQUEST
		.1.. ....		RFMLAST	0 = LAST REQUEST 1 = NOT LAST REQUEST
		..11 1111		RFMTYPE	TYPE CODE
8	(8)	CHARACTER	6	RFMANOD	NODE IDENTIFICATION
8	(8)	BITSTRING	4	RFMNODID	
8	(8)	BITSTRING	1	RFMNDBLN	BLOCK IDENTIFIER
9	(9)	BITSTRING	2	RFMNDIDN	ID NUMBER
12	(C)	CHARACTER	2	RFMRSV2	RESERVED
14	(E)	CHARACTER	*	RFMDATA	SPECIFIC REQUEST/RESPONSE DATA

### REQUEST DATA FOR ALERT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
14	(E)	STRUCTURE	6	RFMALERT	DEFINED ON RFMDATA
14	(E)	CHARACTER	6	RFMACC	ALERT CLASSIFICATION CODE
		11.. ....		RFMAFMT	FORMAT
		..11 1111		RFMRSV3	RESERVED
		1111 ....		RFMATYPE	ALERT TYPE
		.... 1111		RFMAMAJR	MAJOR PROBABLE CAUSE
16	(10)	BITSTRING	1	RFMAMINR	MINOR PROBABLE CAUSE
17	(11)	BITSTRING	1	RFMRSV4	RESERVED
18	(12)	UNSIGNED	1	RFMAUACD	USER ACTION CODE (IF NOT ZERO)
19	(13)	BITSTRING	1	RFMRSV5	RESERVED
20	(14)	CHARACTER	*	RFMADATA	APPENDED RECFMS VECTORS

### APPENDED RECFMS VECTORS FOR ALERT

0	(0)	STRUCTURE	2	RFMAVCTR	(OVERLAYED AT RFMADATA)
0	(0)	UNSIGNED	1	RFMAVLN	VECTOR LENGTH (LENGTH OF 0 INDICATES END OF VECTOR LIST)
1	(1)	BITSTRING	1	RFMAVFTP	FLAG AND TYPE BYTE
		1... ....		RFMAVCB	EVENT CRITICALITY BIT (RESERVED IF RFMAVVT = RFMAVTXT) 0 = NONCRITICAL 1 = CRITICAL
		.1.. ....		RFMRSV6	RESERVED
		..11 1111		RFMAVVT	VECTOR TYPE
2	(2)	CHARACTER	*	RFMAVECT	VECTOR DEPENDENT DATA

### DEFINITION OF EMBEDDED TEXT VECTOR (RFMAVVT = RFMAVTXT)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		RFMAVETV	EMBEDDED TEXT VECTOR DATA (OVERLAYED AT RFMAVECT)



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	CHARACTER	*	RFMATEXT	EBCDIC TEXT (ALERT MESSAGE)
DEFINITION OF EMBEDDED NAME LIST VECTOR (RFMAVVT = RFMAVENL)					
0	(0)	STRUCTURE	2	RFMAVNLV	EMBEDDED NAME LIST VECTOR (OVERLAYED AT RFMAVECT)
0	(0)	CHARACTER	1	RFMAVHNO	HIERARCHY NAME OPTIONS
1	(1)	UNSIGNED	1	RFMAVNNE	NUMBER OF NAME ENTRIES TO FOLLOW (UP TO FIVE)
2	(2)	CHARACTER	*	RFMAVNLD	HIERARCHY NAME LIST DATA
DEFINITION OF EMBEDDED NAME LIST NAME ENTRY					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	RFMAVNLE	NAME LIST ENTRY (OVERLAYED AT RFMAVNLD)
0	(0)	UNSIGNED	1	RFMAVNLL	NAME LIST ENTRY LENGTH
1	(1)	CHARACTER	*	RFMAVNAM	EBCDIC RESOURCE NAME
0	(0)	STRUCTURE	4	RFMAVNLS	(STARTS AT END OF RFMAVNAM)
0	(0)	CHARACTER	4	RFMAVNLT	RESOURCE TYPE
0	(0)	BITSTRING	1	RFMAVN1	SEE EXPLANATION BELOW
1	(1)	BITSTRING	1	RFMAVN2	SEE EXPLANATION BELOW
2	(2)	CHARACTER	2	RFMAVN3	SEE EXPLANATION BELOW

EXPLANATION OF MEANINGS OF RFMAVNLS FIELDS:

IF RFMAVN1 = '00'X  
THEN RFMAVNLT = EBCDIC RESOURCE TYPE (NO TRANSLATION REQUIRED)

IF RFMAVN1 = '00'X AND RFMAVN2 = '00'X  
THEN RFMAVN3 CONTAINS AN ENCODED VALUE TO BE TRANSLATED INTO RESOURCE TYPE

IF RFMAVN1 = '00'X AND RFMAVN2 = '01'X  
THEN RFMAVN3 CONTAINS QUALIFIERS FOR ALERT ORIGINATOR BLOCK NUMBER (RFMNDBLN)

(REMAINDER OF ALGORITHM IS UNSPECIFIED)

DEFINITION OF USER ACTION QUALIFIER VECTOR (RFMAVVT = RFMAVUAQ)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		RFMAVUQV	USER ACTION QUALIFIER VECTOR (OVERLAYED AT RFMAVECT)
0	(0)	CHARACTER	*	RFMAVUQD	USER ACTION QUALIFIER(S)
14	(E)	STRUCTURE	16	RFMNSSAW	DATA AREA FOR START SAW SUB TYPE (DEFINED AT RFMDATA)
14	(E)	CHARACTER	1	*	REPLY SUB TYPE
15	(F)	BITSTRING	1	RFMNMXSA	MAX SUBAREA COUNT
16	(10)	CHARACTER	8	RFMNSSCP	SSCP NAME
24	(18)	CHARACTER	6	RFMNHND	HOST NETWORK ADDRESS
24	(18)	CHARACTER	4	RFMNDSAF	DESTINATION SUBAREA ADDRESS
28	(1C)	CHARACTER	2	RFMNDEF	DESTINATION ELEMENT ADDRESS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
14	(E)	STRUCTURE	3	RFMNSND	DATA AREA FOR SEND PIU BUFFER TYPE (DEFINED AT RFMDATA)
14	(E)	CHARACTER	1	*	REPLY SUB TYPE
15	(F)	UNSIGNED	2	RFMNBSEQ	BUFFER SEQUENCE NUMBER
14	(E)	STRUCTURE	31	RFMNSAW	DATA AREA FOR SESSION AWARENESS RU TYPE (DEFINED AT RFMDATA)
14	(E)	CHARACTER	1	*	REPLY SUB-TYPE
15	(F)	BITSTRING	1	RFMNSIND	SESS. STATUS INDICATOR
16	(10)	CHARACTER	6	RFMNPRAD	PRIMARY NODE ADDRESS
16	(10)	CHARACTER	4	RFMNPSUB	PRIMARY SUBAREA #
20	(14)	CHARACTER	2	RFMNPELM	PRIMARY ELEMENT #
22	(16)	CHARACTER	6	RFMNSCAD	SECONDARY NODE ADDRESS

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
22	(16)	CHARACTER	4	RFMNSSUB	SECONDARY SUBAREA #
26	(1A)	CHARACTER	2	RFMNSELM	SECONDARY ELEMANT #
28	(1C)	CHARACTER	1	RFMNSTYP	SESSION TYPE
29	(1D)	CHARACTER	8	RFMNPRNM	PRIMARY NODE NAME
37	(25)	CHARACTER	8	RFMNSCNM	SECONDARY NODE NAME
45	(2D)	CHARACTER	*	RFMNDATA	DATA FOR SESSION START

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
45	(2D)	STRUCTURE	24	RFMSSESS	SESSION STARTED DATA (DEFINED AT RFMNDATA)
45	(2D)	CHARACTER	8	RFMSSCP	NAME OF SSCP FOR PLU
53	(35)	CHARACTER	8	RFMSSCPS	NAME OF SSCP FOR SLU
61	(3D)	CHARACTER	8	RFMSSCID	SESSION CORRELATION ID
69	(45)	CHARACTER	*	RFMSDATA	PLU/SLU TOPOLOGY LISTS
14	(E)	STRUCTURE	2	RFMPULU	(DEFINED AT RFMNDATA)
14	(E)	CHARACTER	1	RFMPCLID	PU/LU DEPENDENT DATA CLASS ID
15	(F)	CHARACTER	1	RFMPTTID	TRACE TYPE INDICATOR
16	(10)	CHARACTER	*	RFMPDATA	APPENDED NAME PAIR LIST

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
16	(10)	STRUCTURE	1	RFMTCET	(DEFINED AT RFMPDATA)
16	(10)	UNSIGNED	1	RFMTETNO	NUMBER OF NAME PAIRS
17	(11)	CHARACTER	*	RFMTENTS	NAME PAIRS ENTRIES
0	(0)	STRUCTURE	16	RFMNMPR	(OVERLAY)
0	(0)	CHARACTER	8	RFMNAME1	SNA NETWORK NAME OF PU
8	(8)	CHARACTER	8	RFMNAME2	SYMBOLIC LINE NAME

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	RFMSTOPO	TOPOLOGY LIST ELEMENT (OVERLAY)
0	(0)	CHARACTER	1	RFMSNTYP	NODE TYPE
1	(1)	CHARACTER	1	RFMSNLEN	NODE NAME LENGTH
2	(2)	CHARACTER	8	RFMSNAME	NODE NAME

## Constants

Len	Type	Value	Name	Description
CONSTANT VALUE FOR NS HEADER (RFMHDR)				
3	HEX	410384	RFMHDR	
VALUES FOR CNM ID DESCRIPTOR (RFMCIDD)				
0	BIT	00	RFMCLA	CNM ID IS A LOCAL ADDRESS
0	BIT	01	RFMCNA	CNM ID IS NETWORK ADDRESS
VALUES FOR TYPE CODE (RFMTYPE)				
0	BIT	000000	RFMTALRT	ALERT
0	BIT	000001	RFMTSDLC	SDLC TEST COMMAND RESPONSE STATISTICS
0	BIT	000010	RFMTERRD	SUMMARY ERROR DATA
0	BIT	000011	RFMTCAES	COMMUNICATIONS ADAPTER ERROR STATISTICS
0	BIT	000100	RFMTPULU	PU/LU DEPENDENT DATA
0	BIT	000110	RFMTLCSD	LINK CONNECTION SUBSYSTEM DATA
VALUES FOR ALERT VECTOR TYPE (RFMAVVT)				
0	BIT	000000	RFMAVXT	VECTOR CONTAINS TEXT
0	BIT	001100	RFMAVENL	EMBEDDED NAME LIST
0	BIT	001101	RFMAVUAQ	USER ACTION QUALIFIER
CONSTANTS FOR BLOCK NUMBER FIELD (RFMNDBLN)				
1	BIT	000001000100	RFMCHMLN	CHAMELEON BLK ID
1	BIT	000000101101	RFMACMBD	SUPPORTED BLK ID



Len	Type	Value	Name	Description
1	BIT	000001001110	RFMISOLA	ISOLA BLK ID
DEFINITION OF FORMAT TYPE CONSTANTS (FOR RFMAFMT)				
0	BIT	01	RFMAF01	FORMAT = 1 (ONLY VALUE DEFD)
DEFINITION OF HIERARCHY NAME OPTIONS CONSTANTS (FOR RFMAVHNO)				
1	HEX	01	RFMAVHDV	USE NAMES IN DELIVER RU
1	HEX	02	RFMAVHCA	CONCATENATE TO DVR RU NAMES
1	HEX	03	RFMAVHEM	USE ONLY EMBEDDED NAMES
DEFINITIONS OF ALERT TYPE CONSTANTS (FOR RFMATYPE FIELD)				
0	BIT	0001	RFMATPPE	PERMANENT ERROR
0	BIT	0010	RFMATPRE	RECOVERABLE ERROR
0	BIT	0011	RFMATPPF	PERFORMANCE THRESHOLD EXCEED
0	BIT	0100	RFMATPOP	OPERATIONAL/PROCEDURE
0	BIT	0101	RFMATPAG	CUSTOMER APPL GENERATED
0	BIT	0110	RFMATPEU	END USER GENERATED
0	BIT	0111	RFMATPSS	SNA SUMMARY
DEFINITIONS OF MAJOR PROBABLE CAUSE CONSTANTS (FOR RFMAMAJR FLD)				
0	BIT	0001	RFMAJHDW	HARDWARE
0	BIT	0010	RFMAJSFW	SOFTWARE
0	BIT	0011	RFMAJCOM	COMMUNICATIONS EQUIPMENT
0	BIT	0100	RFMAJPRO	INVALID PROTOCOL
0	BIT	0101	RFMAJENV	ENVIRONMENT
0	BIT	0110	RFMAJMED	REMOVABLE MEDIA
0	BIT	0111	RFMAJHSW	EITHER HARDWARE OR SOFTWARE
0	BIT	1000	RFMAJLOG	LOGICAL
0	BIT	1001	RFMAJOPR	OPERATOR OF SENDING PRODUCT
0	BIT	1111	RFMAJUNK	UNDETERMINED
DEFINITIONS OF MINOR PROBABLE CAUSE CONSTANTS (FOR RFMAMINR FLD)				
1	HEX	01	RFMANBAS	BASE PROCESSOR (MAIN ENGINE)
1	HEX	02	RFMANSER	SERVICE PROCESSOR
1	HEX	03	RFMANMUC	MICROCODE
1	HEX	04	RFMANSTO	MAIN STORAGE
1	HEX	05	RFMANDSD	DASD DRIVE
1	HEX	06	RFMANPTR	PRINTER DEVICE
1	HEX	07	RFMANRDR	CARD READER/PUNCH
1	HEX	08	RFMANTAP	TAPE DRIVE
1	HEX	09	RFMANKBD	KEYBOARD
1	HEX	0A	RFMANSEL	SELECTOR PEN
1	HEX	0B	RFMANMSR	MAGNETIC STRIPE READER
1	HEX	0C	RFMANDPT	EITHER DISPLAY OR PRINTER
1	HEX	0D	RFMANDSP	DISPLAY DEVICE
1	HEX	0E	RFMANREM	REMOTE PRODUCT
1	HEX	0F	RFMANPWR	INTERNAL POWER SUPPLY
1	HEX	10	RFMANIOC	I/O ATTACHED CONTROLLER
1	HEX	11	RFMANSNR	COMM CONTROLLER SCANNER
1	HEX	12	RFMANADA	COMMUNICATIONS LINE ADAPTER
1	HEX	13	RFMANLAD	LINE ADAPTER
1	HEX	14	RFMANCHA	S/370 CHANNEL ADAPTER (SEC)
1	HEX	15	RFMANLPA	LOOP ADAPTER
1	HEX	16	RFMANDIR	DIRECT ATTACH ADAPTER
1	HEX	17	RFMANMIS	MISCELLANEOUS ADAPTER
1	HEX	18	RFMANCHN	S/370 CHANNEL
1	HEX	19	RFMANLIN	LINE
1	HEX	1A	RFMANCCL	LINE (COMMON CARRIER)
1	HEX	1B	RFMANCUL	LINE (CUSTOMER)
1	HEX	1C	RFMANLOO	LOOP
1	HEX	1D	RFMANCCO	LOOP (COMMON CARRIER)
1	HEX	1E	RFMANCUO	LOOP (CUSTOMER)
1	HEX	1F	RFMANX21	X21 NETWORK (EXTERNAL)
1	HEX	20	RFMANX25	X25 NETWORK (EXTERNAL)
1	HEX	21	RFMANL21	LOCAL X21 INTERFACE
1	HEX	22	RFMANL25	LOCAL X25 INTERFACE
1	HEX	23	RFMANLMO	LOCAL MODEM
1	HEX	24	RFMANRMO	REMOTE MODEM (SEC)

Len	Type	Value	Name	Description
1	HEX	25	RFMANLMI	LOCAL MODEM INTERFACE
1	HEX	26	RFMANRMI	REMOTE MODEM INTERFACE (SEC)
1	HEX	27	RFMANLPB	LOCAL PROBE
1	HEX	28	RFMANRPB	REMOTE PROBE (SEC)
1	HEX	29	RFMANLPI	LOCAL PROBE INTERFACE
1	HEX	2A	RFMANRPI	REMOTE PROBE INTERFACE (SEC)
1	HEX	2B	RFMANCON	NETWORK CONNECTION
1	HEX	2C	RFMANHST	IBM HOST PROGRAM
1	HEX	2D	RFMANHAP	IBM HOST APPLICATION PROGRAM
1	HEX	2E	RFMANHAM	IBM HOST ACCESS METHOD
1	HEX	2F	RFMANCAP	CUSTOMER HOST APPLICATION PGM
1	HEX	30	RFMANNCP	IBM COMM CONTROLLER PROGRAM
1	HEX	31	RFMANCLU	IBM CLUSTER CONTR PROGRAM
1	HEX	32	RFMANRMP	REMOTE MODEM INTERF OR PGM
1	HEX	33	RFMANLRM	LINE OR REMOTE MODEM
1	HEX	34	RFMANDLC	SDLC FORMAT EXCEPTION
1	HEX	35	RFMANBSC	BSC FORMAT EXCEPTION
1	HEX	36	RFMANSSX	START/STOP FORMAT EXCEPTION
1	HEX	37	RFMANSNA	SNA FORMAT EXCEPTION
1	HEX	38	RFMANXPR	EXTERNAL POWER SUPPLY
1	HEX	39	RFMANTMP	THERMAL
1	HEX	3A	RFMANPPR	PAPER MEDIA
1	HEX	3B	RFMANTPM	TAPE MEDIA
1	HEX	3C	RFMANDSM	DASD REMOVABLE MEDIA
1	HEX	3D	RFMANCRD	CARD REMOVABLE MEDIA
1	HEX	3E	RFMANMAG	MAGNETIC STRIPE CARD MEDIA
1	HEX	3F	RFMANNEG	NEGATIVE SNA RESPONSE
1	HEX	40	RFMANGEN	GENERATION-CUSTOMIZATION
1	HEX	41	RFMANFAC	FACILITY CHANGE
1	HEX	42	RFMANOFF	OFFLINE (NOT INT REQ)
1	HEX	43	RFMANBSY	BUSY
1	HEX	44	RFMANCDE	CONTROLLER OR DEVICE
1	HEX	45	RFMANLPM	LOCAL PROBE OR MODEM
1	HEX	46	RFMANTDV	TAPE OR DEVICE
1	HEX	47	RFMANURD	CARD RDR/PCH OR DISPLAY
1	HEX	48	RFMANAPL	CONTROLLER APPLICATION PGM
1	HEX	49	RFMANKOD	EITHER KEYBOARD OR DISPLAY
1	HEX	50	RFMANDSK	DISKETTE
1	HEX	51	RFMANDOD	DISKETTE OR DRIVE
1	HEX	FF	RFMANUNK	UNDETERMINED
<hr/>				
VALUES FOR PU/LU DEPENDENT DATA CLASS ID (RFMPCLID)				
<hr/>				
1	HEX	06	RFMPTRCE	TRACE DATA
<hr/>				
VALUES FOR TRACE TYPE INDICATOR (RFMPTTID)				
<hr/>				
1	HEX	01	RFMPTLST	LIST OF NAME PAIRS
<hr/>				
VALUES FOR NLDM REQUEST SUB TYPE (RFMNRPLY)				
<hr/>				
1	HEX	51	RFMNRSSP	START SAW PROCESSING
1	HEX	52	RFMNRSP	END SAW PROCESSING
1	HEX	53	RFMNRGPI	GET PIU TRACE BUFFERS
1	HEX	54	RFMNRFP	FREE TRACE BUFFERS
1	HEX	55	RFMNRSTS	START TRACE SPECIFIC
1	HEX	56	RFMNRSTS	END TRACE SPECIFIC
1	HEX	57	RFMNRSTA	START TRACE ALL
1	HEX	58	RFMNRSTA	END TRACE ALL
1	HEX	59	RFMNRSTC	START TRACE FOR CDRMS
1	HEX	5A	RFMNRSTC	END TRACE FOR CDRMS
1	HEX	5B	RFMNRSP	START PU TRACE
1	HEX	5C	RFMNRSP	END PU TRACE
1	HEX	5D	RFMNRSPB	SEND PIU BUFFER
1	HEX	5E	RFMNRSAW	SAW RU
<hr/>				
VALUES FOR SESSION STATUS INDICATOR (RFMNSIND)				
<hr/>				
1	HEX	00	RFMSESST	SESSION STARTED
1	HEX	01	RFMSESEN	SESSION ENDED
<hr/>				
VALUES FOR SESSION TYPE (RFMNSTYP)				
<hr/>				



Len	Type	Value	Name	Description
1	HEX	80	RFMSTSCP	SSCP-SSCP SESSION
1	HEX	81	RFMSTSLU	SSCP-LU SESSION
1	HEX	82	RFMSTSPU	SSCP-PU SESSION
1	HEX	91	RFMSTLLU	LU-LU SESSION

VALUES FOR NODE TYPE (RFMSNTYP)

1	HEX	F1	RFMSPU	NODE IS PU
1	HEX	F9	RFMSLINK	NODE IS LINK
1	HEX	FC	RFMSCUA	VALUE IS CUA

Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTRFMRU	0		1	RFMNPSUB	10		3
RFMACC	E		2	RFMNSAW	E		1
RFMADATA	14		2	RFMNSCAD	16		2
RFMAFMT	E	80	3	RFMNSCNM	25		2
RFMALERT	E		1	RFMNSELM	1A		3
RFMAMAJR	F	08	3	RFMNSHDR	0		2
RFMAMINR	10		3	RFMNSIND	F		2
RFMANOD	8		2	RFMNSND	E		1
RFMATEXT	0		2	RFMNSSAW	E		1
RFMATYPE	F	80	3	RFMNSSCP	10		2
RFMAUACD	12		3	RFMNSSUB	16		3
RFMAVCB	1	80	3	RFMNSTYP	1C		2
RFMAVCTR	0		1	RFMPCLID	E		2
RFMAVECT	2		2	RFMPDATA	10		2
RFMAVETV	0		1	RFMPRID	5		3
RFMAVFTP	1		2	RFMPPTID	F		2
RFMAVHNO	0		2	RFMPULU	E		1
RFMAVLN	0		2	RFMRSV1	5	80	3
RFMAVNAM	1		2	RFMRSV2	C		3
RFMAVNLD	2		2	RFMRSV3	E	20	3
RFMAVNLE	0		1	RFMRSV4	11		3
RFMAVNLL	0		2	RFMRSV5	13		3
RFMAVNLS	0		1	RFMRSV6	1	40	3
RFMAVNLT	0		2	RFMSDATA	45		2
RFMAVNLV	0		1	RFMSNAME	2		2
RFMAVN1	0		3	RFMSNLEN	1		2
RFMAVN2	1		3	RFMSNTYP	0		2
RFMAVN3	2		3	RFMSOL	7	80	3
RFMAVNNE	1		2	RFMSSCID	3D		2
RFMAVUQD	0		2	RFMSSCPP	2D		2
RFMAVUQV	0		1	RFMSSCPS	35		2
RFMAVVT	1	20	3	RFMSSSESS	2D		1
RFMCIDD	5	20	3	RFMSTOPO	0		1
RFMCNMID	3		2	RFMTCET	10		1
RFMCORR	5		2	RFMTENTS	11		2
RFMDATA	E		2	RFMTETNO	10		2
RFMFT	7		2	RFMTYPE	7	20	3
RFMLAST	7	40	3				
RFMNAME1	0		2				
RFMNAME2	8		2				
RFMNBSEQ	F		2				
RFMNDATA	2D		2				
RFMNDBLN	8		4				
RFMNDEF	1C		3				
RFMNDIDN	9		4				
RFMNDSAF	18		3				
RFMNHAD	18		2				
RFMNMPR	0		1				
RFMNMXSA	F		2				
RFMNODID	8		3				
RFMNPELM	14		3				
RFMNPRAD	10		2				
RFMNPRNM	1D		2				

RU



## Request Conditional or Unconditional Load RU (RLDRU)

<b>Function:</b>	RLDRU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'4102FFCE' (NS header) (conditional) X'4102FFCF' (NS header) (unconditional)
<b>RU Type:</b>	AMRU

Offsets		Dec	Hex	Type	Len	Name (Dim)	Description
		0	(0)	STRUCTURE	49	ISTRLDRU	REQUEST LOAD RQ UNIT
		0	(0)	CHARACTER	4	RLDHDR	NS HEADER (AMRU)
		4	(4)	CHARACTER	10	RLDLSN	LINK STATION NETWORK NAME
		14	(E)	CHARACTER	10	RLDAPU	ATTACHED PU NET NAME
		24	(18)	CHARACTER	8	RLDLFN	LOAD FILE NAME (E.G., OS DDNAME)
		32	(20)	CHARACTER	8	RLDLMN	MODULE NAME FOR LOAD
		40	(28)	CHARACTER	8	RLDRQPCI	REQUEST LOAD PCID
		48	(30)	BITSTRING	1	RLDLDDMP	LOAD/DUMP FLAGS
				1... ....		RLDLDDSK	LOAD FROM DISK INDICATOR 1=YES 0=NO
				.1.. ....		RLDSVMOD	SAVE MODULE INDICATOR 1=SAVE
				..1. ....		RLDCCUDP	DISK AUTODUMP INDICATOR - 1=DUMP
				...1 ....		RLDCCULD	DISK AUTOLOAD INDICATOR - 1=LOAD
				.... 1..		RLDIGNOR	DO NOT CHANGE DISK SETTINGS 1=IGNORE
				.... .1..		RLDTYPE	INITIATE OF LOAD 0 - VARY ACT WITH LOAD 1 - MODIFY LOAD
				.... ..11		RLDLMI	MODIFY LOAD ACTION TYPE 00 - ADD 01 - REPLACE 10 - PURGE 11 - CANCEL

Offsets		Dec	Hex	Type	Len	Name (Dim)	Description
		0	(0)	STRUCTURE	8	RLDRSP	REQUEST LOAD RESPONSE UNIT
		0	(0)	CHARACTER	8	RLDRSPCI	REQUEST LOAD PCID

OVERLAY TO REFER TO NETWORK NAMES (RLDLSN, RLDAPU)

0	(0)	STRUCTURE	2	RLDNNF	NETWORK NAME FIELD
0	(0)	BITSTRING	1	RLDTYP	RESOURCE TYPE
1	(1)	UNSIGNED	1	RLDLEN	RESOURCE NAME LENGTH
2	(2)	CHARACTER	*	RLDNAM	RESOURCE NAME

### Constants

Len	Type	Value	Name	Description
NOTE THAT THE NS HEADER AND POSSIBLE SENSE DATA FIELDS OF THE RESPONSE UNIT ARE NOT MAPPED HERE BECAUSE ISTINCF1 AND ISTINCS1 ADD AND REMOVE THOSE FIELDS AUTOMATICALLY (CPCBOPC AND RUPESNS CONTAIN THE RESPONSE NS HEADER (SORT OF) AND THE SENSE DATA, RESPECTIVELY).				
CONSTANTS FOR NETWORK SERVICES HEADER (RLDHDR)				
4	HEX	4102FFCE	RLDCON	CONDITIONAL LOAD
4	HEX	4102FFCF	RLDUNC	UNCONDITIONAL LOAD
CONSTANTS FOR RESOURCE TYPE (RLDTYP)				
1	HEX	00	RLDNO	NONE (NO NAME)
1	HEX	F1	RLDPU	PHYSICAL UNIT
1	HEX	F3	RLDLU	LOGICAL UNIT
1	HEX	F5	RLDTP	TEST PROCEDURE
1	HEX	F7	RLDLS	LINK STATION
1	HEX	F9	RLDLK	LINK



Len	Type	Value	Name	Description
CONSTANTS FOR MODIFY LOAD ACTION TYPE (RLDLMI)				
0	BIT	00	RLDMLAD	CONSTANT FOR ADD
0	BIT	01	RLDMLRP	CONSTANT FOR REPLACE
0	BIT	10	RLDMLPG	CONSTANT FOR PURGE
0	BIT	11	RLDMLCN	CONSTANT FOR CANCEL

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTRDLRU	0		1
RLDAPU	E		2
RLDCCUDP	30	20	3
RLDCCULD	30	10	3
RLDHDR	0		2
RLDIGNOR	30	08	3
RLDLDDMP	30		2
RLDLDDSK	30	80	3
RLDLEN	1		2
RLDLFN	18		2
RLDLMI	30	02	3
RLDLMN	20		2
RLDLSN	4		2
RLDNAM	2		2
RLDNNF	0		1
RLDRQPCI	28		2
RLDRSP	0		1
RLDRSPCI	0		2
RLDSVMOD	30	40	3
RLDTYP	0		2
RLDTYPE	30	04	3

RU

## Record Measurement Data RU (RMDRU)

<b>Function:</b>	RMDRU is used to provide measurement data for tuning statistics.
<b>RU Header:</b>	X'0104FF80' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTRMDRU	
0	(0)	CHARACTER	4	RMDNSHDR	AMRU HEADER
4	(4)	CHARACTER	2	RMDNAD	ELEMENT ADDRESS OF RESOURCE BEING MEASURED
6	(6)	CHARACTER	1	RMDTYPE	SELECTED MEASUREMENT TYPE
7	(7)	CHARACTER	1	*	NOT USED
8	(8)	CHARACTER	*	RMDDATA	MEASUREMENT DATA

### MEASUREMENT DATA FOR TUNING STATISTICS

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
8	(8)	STRUCTURE	40	RMDTUNST	
8	(8)	CHARACTER	8	RMDTOD	TIME STAMP
16	(10)	SIGNED	4	RMDCHWR	NUMBER OF WRITE CHANNEL PROGRAMS
16	(10)	SIGNED	4	RMDCHNWR	COUNT OF NORMAL SIZE WRITE CHANNEL PROGRAMS
20	(14)	SIGNED	4	RMDCHRD	NUMBER OF READ CHANNEL PROGRAMS
20	(14)	SIGNED	4	RMDCHMWR	COUNT OF MAXIMUM SIZE WRITE CHANNEL PROGRAMS
24	(18)	SIGNED	4	RMDATTN	NUMBER OF ATTENTIONS
28	(1C)	SIGNED	4	RMDRDATN	NUMBER OF ATTENTIONS RECEIVED ON A READ
32	(20)	SIGNED	4	RMDPIU	NUMBER OF INBOUND PIUS
36	(24)	SIGNED	4	RMDOPIU	NUMBER OF OUTBOUND PIUS
40	(28)	SIGNED	4	RMDRDBUF	NUMBER OF READ BUFFERS USED
44	(2C)	SIGNED	4	RMDSLODN	NUMBER OF TIMES NCP ENTERED SLOWDOWN

### MEASUREMENT DATA FOR CHANNEL TO CHANNEL ADAPTER TUNING STATISTICS

8	(8)	STRUCTURE	56	RMDCTCA	
8	(8)	CHARACTER	40	*	COMMON TUNING STATISTICS
48	(30)	SIGNED	4	RMDTRDLY	NUMBER OF TIMES THAT A CHANNEL PROGRAM HAS BEEN STARTED DUE TO TIMER DELAY TRIGGER
52	(34)	SIGNED	4	RMDTRQDL	NUMBER OF TIMES THAT A CHANNEL PROGRAM HAS BEEN STARTED DUE TO THE QUEUE DEPTH LIMIT TRIGGER
56	(38)	SIGNED	4	RMDTRDLC	NUMBER OF TIMES THAT A CHANNEL PROGRAM HAS BEEN STARTED DUE TO DESTINATION CAPACITY LIMIT TRIGGER
60	(3C)	SIGNED	4	RMDTRHPR	NUMBER OF TIMES THAT A CHANNEL PROGRAM HAS BEEN STARTED DUE TO THE HIGH PRIORITY REQUEST TRIGGER



**Constants**

Len	Type	Value	Name	Description
4	HEX	0104FF80	RMDHDCR	VALUE FOR AMRU HEADER
1	HEX	00	RMDTYTS	MEASUREMENT TYPE FOR TUNING STATISTICS

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTRMDRU	0		1
RMDATTN	18		2
RMDCHMWR	14		3
RMDCHNWR	10		3
RMDCHRD	14		2
RMDCHWR	10		2
RMDCTCA	8		1
RMDDATA	8		2
RMDIPIU	20		2
RMDNAD	4		2
RMDNSHDR	0		2
RMDOPIU	24		2
RMDRDATN	1C		2
RMDRDBUF	28		2
RMDSLODN	2C		2
RMDTOD	8		2
RMDTRDLC	38		2
RMDTRDLY	30		2
RMDTRHPR	3C		2
RMDTRQDL	34		2
RMDTUNST	8		1
RMDTYPE	6		2

RU

## Request Maintenance Statistics RU (RMSRU)

<b>Function:</b>	RMSRU requests the CNM services associated with the PU to provide maintenance statistics for the resource indicated by the CNM target ID in the CNM header.
<b>RU Header:</b>	X'410304' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)		Description
0	(0)	STRUCTURE	9	ISTRMSRU		
0	(0)	CHARACTER	3	RMSNSHDR		CNM NS HEADER
3	(3)	CHARACTER	2	RMSCNMID		CNM HEADER
5	(5)	BITSTRING	2	RMSCORR		CORRELATOR
		11.. ....		RMSRSV1		RESERVED
		..11 ....		RMSCIDD		CNM ID DESCRIPTOR - DEFINES CONTENTS OF CNMID
5	(5)	BITSTRING	1	RMSPRID		PROCEDURE RELATION IDENTIFIER
7	(7)	BITSTRING	1	RMSFT		FLAG AND TYPE BYTE
		11.. ....		*		RESERVED
		..11 1111		RMSTYPE		TYPE CODE
8	(8)	CHARACTER	1	RMSREQT		REQUEST SUB TYPE
9	(9)	CHARACTER	*	RMSDATA		SPECIFIC REQUEST/RESPONSE DATA

Offsets						
Dec	Hex	Type	Len	Name (Dim)		Description
9	(9)	STRUCTURE	1	RMSPULUD		
9	(9)	UNSIGNED	1	RMSPTYP		TRACE TYPE INDICATOR
9	(9)	STRUCTURE	8	RMSTARGA		DATA AREA FOR START OR END SPECIFIC PIU TRACE
9	(9)	CHARACTER	8	RMSTARGN		NAME OF RESOURCE TO START OR STOP PIU TRACE

Offsets						
Dec	Hex	Type	Len	Name (Dim)		Description
9	(9)	STRUCTURE	3	RMSNGPB		DATA AREA DEFINITION FOR GET PIU TRACE BUFFERS ('53'X)
9	(9)	SIGNED	2	RMSNSIZE		SIZE OF A TRACE BUFFER
11	(B)	UNSIGNED	1	RMSNNUM		NUMBER OF TRACE BUFFERS

### Constants

Len	Type	Value	Name	Description
3	HEX	410304	RMSHDRC	NS HEADER VALUE (RMSNSHDR)
VALUES FOR CNM ID DESCRIPTOR (RMSCIDD)				
0	BIT	00	RMSCLA	CNM ID IS A LOCAL ADDRESS
0	BIT	01	RMSCNA	CNM ID IS NETWORK ADDRESS
VALUES FOR TYPE CODE (RMSTYPE)				
0	BIT	000000	RMSTALRT	ALERT
0	BIT	000001	RMSTSDLC	SDLC TEST COMMAND RESPONSE STATISTICS
0	BIT	000010	RMSTERRD	SUMMARY ERROR DATA
0	BIT	000011	RMSTCAES	COMMUNICATIONS ADAPTER ERROR STATISTICS
0	BIT	000100	RMSTPULU	PU/LU DEPENDENT DATA
0	BIT	000110	RMSTLCSD	LINK CONNECTION SUBSYSTEM DATA
VALUE FOR ALERT VECTOR TYPE (RMSAVVT)				
0	BIT	000000	RMSAVTXT	VECTOR CONTAINS TEXT
VALUES FOR TRACE TYPE RMSPTYP				
1	HEX	01	RMSPTRTP	LIST NAME PAIRS OF RESOURCES BEING TRACED



Len	Type	Value	Name	Description
VALUES FOR NLDM REQUEST SUB TYPE (RMSREQT)				
1	HEX	06	RMSTRAC	TRACE CLASS ID
1	HEX	51	RMSNRSSP	START SESSION AWARENESS
1	HEX	52	RMSNRESP	END SESSION AWARENESS
1	HEX	53	RMSNRGPI	GET PIU TRACE BUFFERS
1	HEX	54	RMSNRFPI	FREE TRACE BUFFERS
1	HEX	55	RMSNRSTS	START TRACE SPECIFIC
1	HEX	56	RMSNRETS	END TRACE SPECIFIC
1	HEX	57	RMSNRSTA	START TRACE ALL
1	HEX	58	RMSNRETA	END TRACE ALL
1	HEX	59	RMSNRSTC	START TRACE FOR CDRMS
1	HEX	5A	RMSNRETC	END TRACE FOR CDRMS
1	HEX	5B	RMSNRSPT	START PU TRACE
1	HEX	5C	RMSNREPT	END PU TRACE
1	HEX	5D	RMSNRSPB	SEND PIU BUFFER

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRMSRU	0		1
RMSCIDD	5	20	3
RMSCNMID	3		2
RMSCORR	5		2
RMSDATA	9		2
RMSFT	7		2
RMSNGPB	9		1
RMSNNUM	B		2
RMSNSHDR	0		2
RMSNSIZE	9		2
RMSPRID	5		3
RMSPTY	9		2
RMSFULUD	9		1
RMSREQT	8		2
RMSRSV1	5	80	3
RMSTARGA	9		1
RMSTARGN	9		2
RMSTYPE	7	20	3

RU

## Request Network Address Assignment RU (RNARU)

<b>Function:</b>	RNARU requests the PU to update its path control routing table and to assign network addresses. The PU returns the network addresses in the RNAA response. RNARU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'4102FF10' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	9	ISTRNARU	
0	(0)	CHARACTER	4	RNAHDR	NETWORK SERVICES HEADER
4	(4)	UNSIGNED	2	RNAPUNA	PHYSICAL UNIT NETWORK ADDRESS
6	(6)	UNSIGNED	1	RNANUMBR	NUMBER OF NETWORK ADDRESSES TO BE REQUESTED
7	(7)	CHARACTER	2	RNAFNAME	NETWORK NAME ASSOCIATED WITH FIRST REQUEST
7	(7)	CHARACTER	1	RNAFTYPE	LU TYPE ('F3' = LU)
8	(8)	UNSIGNED	1	RNAFNMLN	NAME FIELD LENGTH
9	(9)	CHARACTER	*	RNAFMFD	NAME FIELD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	RNANNAME	NETWORK NAME ASSOCIATED WITH ADDITIONAL REQUEST
0	(0)	CHARACTER	1	RNANTYPE	LU TYPE ('F3' = LU)
1	(1)	UNSIGNED	1	RNANNMLN	NAME LENGTH FIELD
2	(2)	CHARACTER	*	RNANNMFD	NAME FIELD
0	(0)	STRUCTURE	2	RNARESP	REQUEST NETWORK ADDRESS RESPONSE
0	(0)	UNSIGNED	2	RNANETA	ELEMENT ADDRESS ASSOCIATED WITH FIRST REQUEST
2	(2)	CHARACTER	*	RNANXTNA	NEXT NETWORK ADDRESS FIELD

RU

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR RNAHDR				
4	HEX	4102FF10	RNAHDC	REQUEST NETWORK ADDRESS AMRH
CONSTANT FOR RNAFTYPE AND RNANTYPE				
1	HEX	F3	RNATYPLU	LU TYPE

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRNARU	0		1
RNAFNAME	7		2
RNAFMFD	9		3
RNAFNMLN	8		3
RNAFTYPE	7		3
RNAHDR	0		2
RNANETA	0		2
RNANNAME	0		1
RNANNMFD	2		2
RNANNMLN	1		2
RNANTYPE	0		2
RNANUMBR	6		2
RNANXTNA	2		2
RNAPUNA	4		2
RNARESP	0		1

## Request Activation of Cross-Network Resource Manager RU (RQACD)

<b>Function:</b>	The gateway node uses RQACD to inform a gateway SSCP of another SSCP's attempt to activate a session.
<b>RU Header:</b>	X'41028A' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	*	ISTRQACD	REQACTCDRM RU	
0	(0)	CHARACTER	3	RQAHDR	NS HEADER -X'41028A'	
3	(3)	CHARACTER	2	RQARSVD1	RESERVED	
5	(5)	CHARACTER	1	RQAFMT	FORMAT BYTE	
6	(6)	CHARACTER	1	RQASBFLG	ACTIVATION SUBFUNCTION INDICATORS	
		1... ....		RQATSREQ	TRANSFORM SETUP REQUIRED 0 - TRANSFORM SETUP NOT REQUIRED ADDRESSES LEFT OVER FROM A PREVIOUS RNAA 1 - RNAA REQUIRED TO SETUP A CROSS NETWORK ADDRESS TRANSFORM	
		.1.. ....		RQAVSREQ	VRID LIST SETUP REQUIRED 0 - VRID LIST NOT REQUIRED 1 - SETCV REQUIRED WITH AT LEAST ONE VRID LIST - THIS IS THE ONLY VALID VALUE FOR THIS BIT (VRID IS ALWAYS REQUIRED)	
		..11 1111		RQARSVD2	RESERVED	
7	(7)	CHARACTER	*	RQADATA	QUALIFIED ADDR PAIR VECTOR FOLLOWED BY RECEIVED ACTCDRM THAT FAILED BECAUSE OF INCOMPLETE PU_T4 NODE TRANSFORM. THIS FIELD CONTAINS THE FID4 PIU WHICH CONTAINS THE TH,RH,AND THE COMPLETE ACTCDRM RU INCLUDING CONTROL VECTORS	

RU

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR NS HEADER				
3	HEX	41028A	RQANSHDR	NS HEADER
CONSTANT FOR FORMAT BYTE				
1	HEX	01	RQAFMT01	FORMAT 01



## Request Contact RU (RQCRU)

<b>Function:</b>	RQCRU notifies the SSCP that a connection with an adjacent secondary link station (in a PU type 1 or 2 node) has been activated by a successful connect-in or connect-out procedure. A DLC-level identification exchange (XID) is required before issuing RQCRU.
<b>RU Header:</b>	X'010284' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	11	ISTRQCRU	REQCONT RU
0	(0)	CHARACTER	3	RQCNSHDR	NS HEADER
3	(3)	CHARACTER	2	RQCLNKNA	ELEMENT ADDRESS IF ENA CAPABLE; NETWORK ADDRESS IF PRE-ENA
5	(5)	CHARACTER	6	RQCSTAID	STATION ID

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR RQCNSHDR				
3	HEX	010284	RQCHDRC	01-NETWORK SERVICES 02-CONFIGURATION SERVICES 84-REQUEST CODE



## Request Echo Test RU (RQERU)

<b>Function:</b>	RQERU requests the SSCP to return the data included in RQERU to the LU in an ECTRU.
<b>RU Header:</b>	X'810387' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTRQERU	
0	(0)	CHARACTER	3	RQEHDR	NS HEADER
3	(3)	UNSIGNED	1	RQECNT	REPETITION COUNT
4	(4)	UNSIGNED	1	RQEDTLN	LENGTH OF ECHO DATA
5	(5)	CHARACTER	*	RQEDATA	DATA TO BE ECHOED

### Constants

Len	Type	Value	Name	Description
3	HEX	810387	RQEHDR	



## Record Storage RU (RSTRU)

<b>Function:</b>	RSTRU carries the storage dump as requested by a DSTRU.
<b>RU Header:</b>	X'010334' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	13	ISTRSTRU	
0	(0)	CHARACTER	3	RSTHDR	NS HEADER
3	(3)	CHARACTER	2	RSTNA	NETWORK ADDRESS OF RESOURCE
5	(5)	CHARACTER	1	RSTTYPE	DISPLAY TYPE
6	(6)	CHARACTER	1	RSTRSV1	RESERVED
7	(7)	UNSIGNED	2	RSTLEN	LENGTH OF DISPLAY
9	(9)	UNSIGNED	4	RSTADDR	STARTING ADDRESS OF DISPLAY
13	(D)	CHARACTER	*	RSTDATA	STORAGE DISPLAY DATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	RSTAPP	OVERLAY FOR DISPLAY DISK DATA
0	(0)	CHARACTER	1	RSTAUIND	AUTOMATIC INDICATORS
		1... ....		RSTAUTOD	AUTOMATIC DUMP, 0 - CCU WILL NOT BE DUMPED TO DISK 1 - CCU WILL BE DUMPED TO DISK
		.1.. ....		RSTAUTOI	AUTOMATIC IPL, 0 - CCU WILL NOT BE IPLED WITH A LOAD MODULE ON DISK 1 - CCU WILL BE IPLED WITH A LOAD MODULE ON DISK
		..11 1111		*	RESERVED
1	(1)	UNSIGNED	1	RSTNUMLD	NUMBER OF LOAD MODULES AND DUMP ENTRIES
2	(2)	CHARACTER	*	RSTENTRY	ENTRY INFORMATION

OVERLAY FOR LOAD MODULE OR DUMP ENTRY					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	17	RSTEFORM	FORMAT FOR ENTRY
0	(0)	UNSIGNED	1	RSTDATAL	ENTRY LENGTH IN BYTES
1	(1)	CHARACTER	1	RSTENTRS	ENTRY TYPE STATUS
		1111 ....		RSTSTLMD	ENTRY TYPE - DUMP OR LOAD MODULE
		.... 1...		RSTLMST	LOAD MODULE STATUS IN CCU 0 - NOT ACTIVE IN CCU 1 - ACTIVE IN CCU
		.... .11.		RSTACTL	LOAD MODULE ACTIVITY STATUS
		.... ...1		*	RESERVED
2	(2)	CHARACTER	8	RSTENAME	ENTRY NAME
10	(A)	CHARACTER	3	RSTDATE	DATE (PACKED DECIMAL)
13	(D)	UNSIGNED	4	RSTTIME	TIME (IN SECONDS, BINARY)

RU

**Constants**

Len	Type	Value	Name	Description
3	HEX	010334	RSTHDC	
CONSTANTS FOR DISPLAY TYPE (RSTTYPE)				
1	HEX	01	RSTNCG	NON-CONGRUENT (BUBBLY) STORAGE
1	HEX	02	RSTSTAT	STATIC SNAPSHOT DISPLAY
1	HEX	12	RSTMOS	MOSS DUMP DISPLAY
1	HEX	18	RSTLMNDP	MOSS DISK DISPLAY
1	HEX	22	RSTCSP	CSP DUMP DISPLAY
1	HEX	32	RSTTHDR	TRANSFER HEADER
1	HEX	42	RSTTNCP	TRANSFER NCP DUMP FROM DISK
CONSTANTS FOR ENTRY TYPE (RSTSTLMD - IN APPENDAGE)				
0	BIT	0100	RSTEDUMP	ENTRY IS A DUMP
0	BIT	1000	RSTELMN	ENTRY IS A LOAD MODULE
CONSTANTS FOR LOAD MODULE ACTIVITY STATUS (RSTACTL)				
0	BIT	00	RSTSLMNC	COMPLETELY STORED
0	BIT	10	RSTSLMNP	STORING IN PROGRESS
0	BIT	11	RSTSLMNS	STORING SUSPENDED

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTRSTRU	0		1
RSTACTL	1	04	3
RSTADDR	9		2
RSTAPP	0		1
RSTAUIND	0		2
RSTAUTOD	0	80	3
RSTAUTOI	0	40	3
RSTDATA	D		2
RSTDATA1	0		2
RSTDATE	A		2
RSTEFORM	0		1
RSTENAME	2		2
RSTENTRS	1		2
RSTENTRY	2		2
RSTHDR	0		2
RSTLEN	7		2
RSTLMST	1	08	3
RSTNA	3		2
RSTNUMLD	1		2
RSTRSV1	6		2
RSTSTLMD	1	80	3
RSTTIME	D		2
RSTTYPE	5		2

**RU**

## Set Routable State RU (RTARU)

<b>Function:</b>	RTARU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'0102FFA2' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTRARU	SET ROUTABLE STATE AM RU
0	(0)	CHARACTER	4	RTANSHDR	RTA HEADER
4	(4)	UNSIGNED	1	RTANDTYP	RESOURCE TYPE
5	(5)	UNSIGNED	1	RTANMLN	RESOURCE NAME LENGTH
6	(6)	CHARACTER	*	RTANAME	RESOURCE NAME

### Constants

Len	Type	Value	Name	Description
4	HEX	0102FFA2	RTAHDR	RTA HEADER CONSTANT
4	DECIMAL	2	RTATYPPU	RESOURCE TYPE PU



## Reset Routable State RU (RTIRU)

<b>Function:</b>	RTIRU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'0102FFA3' (NS header)
<b>RU Type:</b>	AMRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTRIRU	RESET ROUTABLE STATE AM RU
0	(0)	CHARACTER	4	RTINSHDR	RTI HEADER
4	(4)	UNSIGNED	1	RTINDTYP	RESOURCE TYPE
5	(5)	UNSIGNED	1	RTINMLN	RESOURCE NAME LENGTH
6	(6)	CHARACTER	*	RTINAME	RESOURCE NAME

### Constants

Len	Type	Value	Name	Description
4	HEX	0102FFA3	RTIHDRC	RTI HEADER CONSTANT
4	DECIMAL	2	RTITYPPU	RESOURCE TYPE PU



## SNA Request/Response Unit (RU)

**Function:** The RU control block provides a mapping for the following SNA request/response units:

- NSRU (network services RU)
- UNBRU (UNBIND RU)
- DTAKD (cross-domain takedown RU)
- DTAKC (cross-domain takedown complete RU).

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE		ISTRU	BASIC RU STRUCTURE
0	(0)	CHARACTER	*	RUDATA	DATA PORTION OF RU

THIS PORTION DEFINES THE FIELDS WHICH ARE PRESENTED AS SENSE INFORMATION FOR THOSE RU'S WHICH CONTAIN SENSE. IT IS THE INITIAL PORTION OF THE RU. SENRU IS DEFINED TO BEGIN AT RUDATA.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTSENRU	SENSE RU INFORMATION
0	(0)	CHARACTER	4	SRUSENSE	SENSE DATA WORD
0	(0)	CHARACTER	2	SRUSENS1	SYSTEM SENSE BYTES
0	(0)	CHARACTER	1	SRUSNS1	SENSE DATA MAJOR CODE
1	(1)	CHARACTER	1	SRUSNST	SENSE MODIFIER BYTE
2	(2)	CHARACTER	2	SRUSENS2	REMAINING SENSE BYTES
2	(2)	CHARACTER	1	SRUSNS3	THIRD SENSE BYTE
3	(3)	CHARACTER	1	SRUSNS4	FOURTH SENSE BYTE
4	(4)	CHARACTER	*	SENRU	REMAINDER OF RU

THIS PORTION IS A DUMMY LEVEL 1 DECLARE TO ALLOW FOR EASY IMPLEMENTATION. ALL RU DEFINITIONS WHICH FOLLOW ARE DEFINED ON ISTRUB. FOR IMPLEMENTATION RESPECIFY ISTRUB BASED(RUDATA) IF NO SENSE AND ISTRUB BASED(SENRU) IF SENSE. THIS AVOIDS CONSTANT RESPECIFIES FOR EACH RU TYPE.

0	(0)	STRUCTURE		ISTRUB	RU BASE FOR COMMON ADDRESSING
0	(0)	CHARACTER	*	RUBDATA	DATA PORTION OF RU

STANDARD RU. DEFINED TO BEGIN AT ISTRUB.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	ISTSRU	STANDARD RU
0	(0)	CHARACTER	1	SRUQSREQ	REQUEST RESPONSE CODE
1	(1)	CHARACTER	9	SRUDATA	RU DATA
1	(1)	CHARACTER	1	SRUTYPE	RU TYPE
		11.. ....		SRUSPAC	S TO P ACTION CODE
		..11 ....		SRUSPAC	P TO S ACTION CODE
		.... 1111		*	RESERVED
2	(2)	CHARACTER	8	SRULDID	LOAD ID-ACTPU
2	(2)	CHARACTER	2	SRUSPSN	SEQUENCE NUMBER STOP
2	(2)	CHARACTER	1	SRUDFCLV	DFC LEVEL
4	(4)	CHARACTER	2	SRUPSSN	SEQUENCE NUMBER PTOS
6	(6)	CHARACTER	4	SRURSV01	RESERVED

### NETWORK SERVICES RU

0	(0)	STRUCTURE	3	ISTNSRU	NETWORK SERVICES RU
0	(0)	CHARACTER	3	NSRUNETS	NS HEADER
0	(0)	CHARACTER	1	NSRUID	RU TYPE - LOGICAL/PHYSICAL, SYSTEM SERVICE TYPE
1	(1)	CHARACTER	1	NSRUSUB	NETWORK SERVICE SUB TYPE
		1... ....		NSRUCDRM	CDRM INDICATOR

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
		.1.. ....		*	RESERVED - NOT AVAILABLE
		..11 1111		NSRUCAT	CATEGORY
2	(2)	CHARACTER	1	NSRURCD	REQUEST CODE
3	(3)	CHARACTER	*	NSRUDATA	RU DATA

NSRUCSM OVERLAYS NSRUDATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
3	(3)	STRUCTURE	5	NSRUCSM	
3	(3)	CHARACTER	2	NSRCSMID	CSMID - SEE CSM ID DESCRIPTOR
5	(5)	BITSTRING	2	NSRCORR	CORRELATION
		11.. ....		NSRRSV1	RESERVED
		..11 ....		NSRCIDD	CSM ID DESCRIPTOR - DEFINES CONTENTS OF CSMID FIELD
5	(5)	BITSTRING	1	NSRPRID	PROCEDURE RELATION IDENTIFIER
7	(7)	CHARACTER	1	NSRFT	FLAGS PLUS TYPE
		1... ....		NSRRST	REQUEST: 1 = PERFORM RESET
		1... ....		NSRSOL	REPLY: 1 = REPLY IS SOLICITED
		.1.. ....		NSRRSV2	REQUEST: RESERVED
		.1.. ....		NSRNLAST	REPLY: 1 = REPLY IS NOT LAST FOR PRID
		..11 1111		NSRTYPE	INDICATES PRESENCE & FORMAT OF REQUEST/REPLY SPECIFIC DATA
8	(8)	CHARACTER	*	NSRDATA	REQUEST/REPLY SPECIFIC DATA

READY TO GO ON HOOK RU

3	(3)	STRUCTURE	1	NSRUHOOK	READY TO GO ON HOOK RU
3	(3)	CHARACTER	1	NSRUHKTY	TYPE CODE

DATA FIELD (NSRUDATA) FOR SET STATE VECTOR RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
3	(3)	STRUCTURE	4	NSSSVRU	
3	(3)	CHARACTER	2	NSSSVDAF	LINK DAF
5	(5)	CHARACTER	1	NSSSVT	VECTOR TYPE
6	(6)	ADDRESS	1	NSSSVNOD	REMOTE NCP NODE I.D.

THE FOLLOWING OVERLAYS BEGIN AT NSSSVNOD

6	(6)	STRUCTURE	10	NSSSVT3	SET SWITCHED PU PARAMETERS
6	(6)	CHARACTER	1	NSSSVT3A	SDLC ADDRESS
7	(7)	CHARACTER	1	NSSSVT3B	PU TYPE
8	(8)	CHARACTER	1	NSSSVT3C	
		1... ....		NSSSVT3D	PU IS 3270
		.111 1111		*	RESERVED
9	(9)	CHARACTER	1	NSSSVT3E	MAXOUT
10	(A)	CHARACTER	1	NSSSVT3F	PASSLIM
11	(B)	CHARACTER	1	NSSSVT3G	
		111. ....		*	RESERVED
		...1 ....		NSSSVT3H	IRETRY = YES
		.... 1111		*	RESERVED
12	(C)	CHARACTER	1	NSSSVT3I	SECOND LEVEL PAUSE
13	(D)	CHARACTER	1	NSSSVT3J	SECOND LEVEL LIMIT
14	(E)	SIGNED	2	NSSSVT3K	MAXDATA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
6	(6)	STRUCTURE	4	NSSSVT4	SET SWITCHED LU PARAMETERS
6	(6)	CHARACTER	1	NSSSVT4A	LOCAL ADDRESS
7	(7)	ADDRESS	1	NSSSVT4B	N PACING
8	(8)	ADDRESS	1	NSSSVT4C	M PACING
9	(9)	CHARACTER	1	NSSSVT4D	SCHEDULING PARAM

RU



Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
6	(6)	STRUCTURE	2	NSSSVT5	
6	(6)	CHARACTER	2	NSSSVT5A	

THIS LEVEL 1 DEFINITION IS A FORM OF THE NSRU WHICH CONTAINS THE DAF WITHIN THE DATA FIELD. IT IS AN OVERLAY OF NSRUDATA.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
3	(3)	STRUCTURE	2	NSRUDAT1	NSRU WITH DAF
3	(3)	CHARACTER	2	NSRUDAF	DAF IN RU DATA FIELD
5	(5)	CHARACTER	*	NSRUDAT2	RU DATA

DATA FOR TRACE RU

5	(5)	STRUCTURE	4	ISTTRRU	
5	(5)	BITSTRING	1	TRRTYPE	
		1... ..		TRRTGTRA	1=TRANSMISSION GROUP TRACE
		.1... ..		TRRGPTTR	1=GPT TRACE
		..11 1..		*	RESERVED
		.... .1..		TRREXLN	1=EXTENDED LENGTH RU
		.... ..1.		TRRFMT2	1=FORMAT 2 (CSB TYPE 3) LINE TRACE
		.... ...1		TRRLINTR	1=LINE TRACE (CSB TYPES 1, 2)
6	(6)	BITSTRING	1	TRRTIME	TIME OUT VALUE/TIME STAMP
7	(7)	BITSTRING	1	TRRPEP	VARIABLE FIELD CONTENTS: EP ADDRESS 3 TRRCOUNT BIT(8), OR DATA COUNT LIMIT
7	(7)	BITSTRING	1	TRRTIC	TIC TRACE FROM NTRI
8	(8)	BITSTRING	1	TRRSTAT	TRACE STATUS
9	(9)	CHARACTER	*	TRRDATA	TRACE DATA

EXTENDED RU FOR VARIABLE STATUS LENGTH (TRRDATA)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
9	(9)	STRUCTURE	2	ISTEXTEN	
9	(9)	UNSIGNED	2	TRRLEN	CONTAINS STATUS FIELD LENGTH OF EXTENDED RU

DATA FOR CONTACTED RU (OVERLAYED AT NSRUDAT2)

5	(5)	STRUCTURE	1	ISTCTDRU	DATA PORTION FOR CONTACTED RU
5	(5)	BITSTRING	1	CTDRUSTA	STATUS

INOPERATIVE RU DATA (OVERLAYED AT NSRUDAT2)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
5	(5)	STRUCTURE	1	ISTINORU	DATA PORTION FOR INOPERATIVE RU
5	(5)	BITSTRING	1	INORUET	ELEMENT TYPE

DATA PORTION OF ACTIVATE PHYSICAL UNIT (ACTPU) OR ACTIVATE LOGICAL UNIT (ACTLU) REQUEST

1	(1)	STRUCTURE	8	SRUDAT1	ACT PHYSICAL OR LOGICAN UNIT UNIT REQUIRED
1	(1)	CHARACTER	1	SRUDAT1T	TYPE ACTIVATION DESIRED
2	(2)	CHARACTER	1	SRUDAT1L	LEVEL OF CONTROL
		1111 ....		SRUFMPRO	FM PROFILE
		.... 1111		SRUTSPRO	TS PROFILE
3	(3)	CHARACTER	6	SRUDAT1I	SSCP ID

Offsets									
Dec	Hex	Type	Len	Name (Dim)	Description				
TS PROFILE DEFINITIONS:									
TS PROFILE	SEQ NO	SDT	STSN	CLEAR	PACING	RQR			
0	N	N	N	N	N	N			
1	N	N	N	N	N	N			
2	Y	N	N	Y	Y	N			
3	Y	Y	N	Y	Y	N			
4	Y	Y	Y	Y	Y	Y			
5	Y	Y	N	N	N	N			
7	Y	N	N	N	Y	N			
17	N	Y	N	Y	Y	Y			

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
1	(1)	STRUCTURE	9	SRUDAT2	ACT PHYS UNIT RESPONSE	
1	(1)	CHARACTER	1	SRUDAT2T	TYPE ACTIVATION	
2	(2)	CHARACTER	8	SRUDAT2N	LOAD ID	

MAINTENANCE SERVICES RESPONSE UNIT

0	(0)	STRUCTURE	9	ISTMRU		
0	(0)	CHARACTER	2	MRUPREF	PREFIX	
2	(2)	CHARACTER	1	MRUREQ	REQUEST = EXECUTE TEST	
3	(3)	CHARACTER	2	MRUDAF	NET ADDR OF LINK	
5	(5)	CHARACTER	1	MRUCMND	COMMAND	
6	(6)	CHARACTER	1	MRUMODIF	MODIFIER	
7	(7)	CHARACTER	2	MRURESP	RESPONSE	
9	(9)	CHARACTER	*	MRUDATA	DATA	

Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
1	(1)	STRUCTURE	1	SRUDATA3	DEACTIVATE PHYSICAL UNIT OR UNBIND SESSION
1	(1)	CHARACTER	1	SRUDAT3I	TYPE DEACTIVATION
1	(1)	STRUCTURE	2	*	
1	(1)	CHARACTER	1	*	
2	(2)	CHARACTER	1	SRUDAT3C	DACTPU CAUSE

Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
1	(1)	STRUCTURE	2	SRUDATA4	SWITCH EP OR NCB RU
1	(1)	CHARACTER	2	SRUDAT4D	DAF OF LINE
5	(5)	STRUCTURE	1	NSRUDAT3	CONTACTED RESPONSE
5	(5)	CHARACTER	1	NSRUDA3S	STATE

DATA FOR IPL TEXT RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
5	(5)	STRUCTURE	512	NSRUDAT4	IPL TEXT REQUIRED
5	(5)	CHARACTER	512	NSRUDA4T	TEXT

DATA FOR IPL FINAL RU

5	(5)	STRUCTURE	4	NSRUDAT5	IPL FINAL REQUIRED
5	(5)	CHARACTER	4	NSRUDA5E	ENTRY POINT ADDRESS

DATA FOR DUMP RU

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RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
5	(5)	STRUCTURE	6	NSRUDAT6	DUMP TEXT REQUIRED
5	(5)	CHARACTER	4	NSRUDA6S	STARTING LOCATION
9	(9)	CHARACTER	2	NSRUDA6L	LENGTH

DATA FOR INOPERATIVE RU

5	(5)	STRUCTURE	1	NSRUDAT7	INOP
5	(5)	CHARACTER	1	NSRUDA7T	ELEMENT TYPE

DATA FOR DIAL RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
5	(5)	STRUCTURE	4	NSRUDIL	
5	(5)	CHARACTER	1	NSRUDILA	SDLC STATION ADDRESS
6	(6)	CHARACTER	1	NSRUDILB	*
		1... ..			
		.1.. ..		NSRUDILC	AUTO OR MANUAL DIAL
7	(7)	ADDRESS	1	NSRUDILD	REDIAL COUNT
8	(8)	ADDRESS	1	NSRUDILE	NUMBER OF DIGITS
9	(9)	CHARACTER	*	NSRUDILF	START TELEPHONE NUMBER

DATA FOR ASSIGN NETWORK ADDRESS OR FREE NETWORK ADDRESS RU

5	(5)	STRUCTURE	2	NSRUNA	
5	(5)	ADDRESS	1	NSRUNA1	NUMBER OF ADDRS TO ASSIGN OR FREE
6	(6)	CHARACTER	1	NSRUNA2	
		1... ..		NSRUNA3	CONTIGUOUS OR NOT
7	(7)	CHARACTER	*	NSRUNA4	

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	NSRUNA5	
0	(0)	CHARACTER	2	NSRUNA6	NETWORK ADDR TO ASSIGN

DATA FOR REQUEST NETWORK ADDRESS ASSIGNMENT RU

5	(5)	STRUCTURE	1	NSRURNA	
5	(5)	ADDRESS	1	NSRURNA1	NUMBER OF ADDRESSES

DATA FOR CHANGE LINE SCHEDULING PARAMETER RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
5	(5)	STRUCTURE	1	NSRUCLSP	
5	(5)	ADDRESS	1	NSRULSV	VALUE OF CHANGED PARAMETER

DATA FOR OFFHOOK RU

5	(5)	STRUCTURE	6	NSRUOH1	
5	(5)	CHARACTER	6	NSRUOHID	STATION ID
		1111 ..		NSRUOHFT	FORMAT
		.... 1111		NSRUOHPT	PU TYPE
6	(6)	UNSIGNED	1	NSRUOHIL	INFORMATION FIELD LENGTH
7	(7)	BITSTRING	1	NSRUOHIB	ID BLOCK
8	(8)	BITSTRING	2	NSRUOHIN	ID NUMBER

DATA FOR DUMP INITIAL AND DUMP TEXT RESPONSE UNIT

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
3	(3)	STRUCTURE	512	NSRUDAT8	DUMP INIT AND DUMP TEXT RESPONSE
3	(3)	CHARACTER	512	NSRUDA8T	DUMP DATA

DATA FOR UNBIND RU

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
1	(1)	STRUCTURE	1	ISTUNBRU	UNBIND MINUS OPCODE	
1	(1)	CHARACTER	1	UNBTYPE	TYPE OF UNBIND	
2	(2)	CHARACTER	*	UNBSENSE	UNBIND SENSE CODE	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
2	(2)	STRUCTURE	4	UNBSEN	SENSE INFORMATION	
2	(2)	CHARACTER	2	UNBSEN	SYSTEM SENSE	
4	(4)	CHARACTER	2	UNBUSEN	USER SENSE	

CROSS DOMAIN TAKEDOWN RU

3	(3)	STRUCTURE	10	ISTDTAKD	CROSS DOMAIN TAKEDOWN RU	
3	(3)	CHARACTER	8	DTKDPCID	PROCEDURE CORRELATION ID	
11	(B)	BITSTRING	1	DTKDTYPE	TAKEDOWN TYPE	
		11.. ....		DTKDSSESS	ACTIVE OR QUEUED SESSIONS	
		..11 ....		DTKDLVL	LEVEL OF TAKEDOWN	
		.... 1111		*	RESERVED	
12	(C)	BITSTRING	1	DTKDRESN	TAKEDOWN REASON	
		1... ....		DTKDNMGR	0=USER, 1=TAKEDOWN MANAGER	
		.1.. ....		DTKDABN	0=NORMAL, 1=ABNORMAL	
		..11 1111		DTKDEDET	DETAILED REASON	

CROSS DOMAIN TAKEDOWN COMPLETE RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
3	(3)	STRUCTURE	10	ISTDTAKC	CROSS DOMAIN TAKEDOWN COMPLETE RU	
3	(3)	CHARACTER	8	DTKCPCID	PROCEDURE CORRELATION ID	
11	(B)	CHARACTER	1	DTKCTPST	TYPE STATUS	
12	(C)	CHARACTER	1	DTKCSTAT	STATUS	

LSA RU

3	(3)	STRUCTURE	2	NSLSARU		
3	(3)	CHARACTER	1	NSLSRSN	REASON CODE	
4	(4)	CHARACTER	1	NSLSFMT	RECORD FORMAT	
5	(5)	CHARACTER	*	NSLSSA	SUBAREA INFO	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	4	NSLSRSA	REPEATED SUBAREA FIELDS	
0	(0)	CHARACTER	2	NSLSRSV	RESERVED	
2	(2)	CHARACTER	2	NSLSSAA	SUBAREA ADDRESS	

Constants

Len	Type	Value	Name	Description
VALUES FOR SENSE DATA MAJOR CODE (SRUSNS1)				
1	HEX	80	SRUPE	PATH ERROR
1	HEX	40	SRUCPME	RH ERROR
1	HEX	20	SRUSTATE	STATE ERROR
1	HEX	10	SRUFIE	REQUEST ERROR
1	HEX	08	SRURRE	REQUEST REJECT
1	HEX	00	SRUZERO	USER DATA PRESENT

VALUES FOR SENSE MODIFIER (SRUSENST) FOR PATH ERRORS

1	HEX	01	SRUINF	INTERMED. NODE FAILURE
1	HEX	02	SRULF	LINK FAILURE
1	HEX	03	SRULUI	LU INOPERATIVE
1	HEX	04	SRUNODAF	UNRECOGNIZED DAF
1	HEX	05	SRUNOSES	NO SESSION
1	HEX	06	SRUFID	FID

RU

Len	Type	Value	Name	Description
1	HEX	07	SRUMPF	SEGMENTING ERROR
1	HEX	08	SRUPRI	PU NOT ACTIVE
1	HEX	09	SRUSEC	LU NOT ACTIVE
1	HEX	0A	SRUCODE	RESERVED
1	HEX	0B	SRUINTH	INCOMPLETE TH
1	HEX	0C	SRUDCF	DCF
1	HEX	0D	SRULC	LOST CONTACT
VALUES FOR SENSE DATA WORD (SRUSENSE) FOR PATH ERRORS				
4	HEX	80000000	SRUPESNS	PATH ERROR SENSE
2	HEX	8000	SRUPESEN	PATH ERROR SENSE
VALUES FOR SENSE MODIFIER (SRUSENST) FOR RH ERRORS				
1	HEX	01	SRUPENS	RESERVED
1	HEX	02	SRURRNS	RESERVED
1	HEX	03	SRURNS	BB NOT ALLOWED
1	HEX	04	SRULNS	EB NOT ALLOWED
1	HEX	05	SRUINRH	INCOMPLETE RH
1	HEX	06	SRUEXC	EXCEPTION NOT ALLOWED
1	HEX	07	SRUDRNA	DEFINITE RESPONSE NOT ALLOWED
1	HEX	08	SRUPNS	PACING NOT SUPPORTED
1	HEX	09	SRUCDNA	CD NOT ALLOWED
1	HEX	0A	SRUNRNA	NO RESPONSE NOT ALLOWED
1	HEX	0B	SRUCNS	CHAINING NOT SUPPORTED
1	HEX	0C	SRUBNS	BRACKETS NOT SUPPORTED
1	HEX	0D	SRUCDNS	CD NOT SUPPORTED
1	HEX	0E	SRUSDINA	RESERVED
1	HEX	0F	SRUFINA	FORMAT IND NOT ALLOWED
VALUES FOR SENSE MODIFIER (SRUSENST) FOR STATE ERRORS				
1	HEX	01	SRUSEQNR	SEQUENCE NUMBER
1	HEX	02	SRUCHAIN	CHAINING
1	HEX	03	SRUBRCAT	BRACKET
1	HEX	04	SRUCHDIR	DIRECTION
1	HEX	05	SRUDTR	DATA TRAFFIC RESET
1	HEX	06	SRUDTQ	DATA TRAFFIC QUIESED
1	HEX	07	SRUDTNR	DATA TRAFFIC NOT RESET
VALUES FOR SENSE DATA WORD (SRUSENSE) FOR STATE ERRORS				
4	HEX	20000000	SRUSTERR	STATE ERROR MASK
4	HEX	20010000	SRUSEQNQ	SEQUENCE NUMBER ERROR
VALUES FOR SENSE MODIFIER (SRUSENST) FOR REQUEST ERRORS				
1	HEX	01	SRURUDE	RU DATA ERROR
1	HEX	02	SRURUSE	RU LENGTH ERROR
1	HEX	03	SRUFUNC	FUNCTION NOT SUPPORTED
1	HEX	04	SRUFNS	RESERVED
1	HEX	05	SRUHFE	PARAMETER ERROR
1	HEX	06	SRUVFE	RESERVED
1	HEX	07	SRUCNSP	CATEGORY NOT SUPPORTED
1	HEX	08	SRUIFH	INVALID FM HEADER
VALUES FOR SENSE DATA WORD (SRUSENSE) FOR REQUEST ERRORS				
4	HEX	10000020	SRUFIERR	FUNCTION INTERPRET MASK
2	HEX	1000	SRUFISEN	FUNCTION INTERPRET SENSE
VALUES FOR SENSE MODIFIER (SRUSENST) FOR REQUEST REJECT ERRORS				
1	HEX	01	SRURNA	RESOURCE NOT AVAILABLE
1	HEX	02	SRUINREQ	INTERVENTION REQUIRED
1	HEX	03	SRUMCW	MISSING PASSWORD
1	HEX	04	SRUINCW	INVALID PASSWORD
1	HEX	05	SRUSLE	SESSION LIMIT EXCEEDED
1	HEX	06	SRULUU	RESOURCE UNKNOWN
1	HEX	07	SRULUIN	RESERVED
1	HEX	08	SRUCID	INVALID CONTENTS ID
1	HEX	09	SRUMI	MODE INCOSISTENCY
1	HEX	0A	SRUPR	PERMISSION REJECTED
1	HEX	0B	SRUBER	BRACKET RACE ERROR

Len	Type	Value	Name	Description
1	HEX	0C	SRUFUNS	PROCEDURE NOT SUPPORTED
1	HEX	0D	SRUCDCON	NAU CONTENTION
1	HEX	0E	SRULUNA	LU NOT AUTHORIZED
1	HEX	0F	SRUEUMNA	EU NOT AUTHORIZED
1	HEX	10	SRUMRID	MISSING REQUESTOR ID
1	HEX	11	SRUBREAK	BREAK
1	HEX	12	SRUISR	INSUFFICIENT RESOURCE
1	HEX	13	SRUBRE	BRACKET BID REJECT - NO RTR
1	HEX	14	SRUBBR	BRACKET BID REJECT RTR
1	HEX	15	SRUFA	FUNCTION ACTIVE
1	HEX	16	SRUFD	FUNCTION INACTIVE
1	HEX	17	SRULI	LINK INACTIVE
1	HEX	18	SRULPIP	LINK PROCEDURE IN PROGRESS
1	HEX	19	SRURNR	RTR NOT REQUIRED
1	HEX	1A	SRURSE	REQUEST SEQUENCE ERROR
1	HEX	1B	SRURITM	RECEIVER IN TRANSMIT MODE
1	HEX	1C	SRURNE	REQUEST NOT EXECUTABLE
1	HEX	1D	SRUIS	INVALID STATION/SSCP ID
1	HEX	1E	SRUSRE	SESSION REFERENCE ERROR
1	HEX	1F	SRURVO	RESERVED
1	HEX	20	SRUCVE	CONTROL VECTOR ERROR
1	HEX	21	SRUISP	INVALID SESSION PARAM
1	HEX	22	SRULPF	LINK PROCEDURE FAILED
1	HEX	23	SRUUCV	UNKNOWN CONTROL VECTOR
1	HEX	24	SRUCA	COMPONENT ABORTED
1	HEX	25	SRUCNA	COMPONENT NOT AVAILABLE
1	HEX	26	SRUFFNS	FM FUNCTION NOT SUPPORTED
1	HEX	27	SRUIERR	INTERMITTANT ERROR RETRY REQUESTED
1	HEX	28	SRUNRA	REPLY NOT ALLOWED
1	HEX	29	SRUCDR	CHANGE DIRECTION REQUIRED
1	HEX	2A	SRUPSIE	PRESENTATION SPACE INTEGRAR ERROR

## VALUES FOR SENSE DATA WORD (SRUSENSE) FOR REQUEST REJECT

4	HEX	08000000	SRURRERR	REQUEST REJECT MASK
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## VALUES FOR SENSE DATA WORD (SRUSENSE) FOR USER DEFINED ERRORS

4	HEX	00000001	SRUOPCHK	OPERATION CHK SENSE
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## VALUES FOR REQUEST CODE (SRUQSREQ) FOR SESSION CONTROL

1	HEX	0D	SRACTLU	ACTIVATE LOGICAL UNIT
1	HEX	0E	SRDACTLU	DEACTIVATE LOGICAL UNIT
1	HEX	11	SRACTPU	ACTIVATE PHYSICAL UNIT
1	HEX	12	SRDACTPU	DEACTIVATE PHYSICAL UNIT
1	HEX	14	SRACTCDR	ACTCDRM COMMAND CODE
1	HEX	15	SRDACTCD	DACTCDRM COMMAND CODE
1	HEX	31	SRBIND	BIND SESSION
1	HEX	32	SRUNBIND	UNBIND SESSION
1	HEX	A0	SRSDT	START DATA TRAFFIC
1	HEX	A1	SRCLEAR	CLEAR
1	HEX	A2	SRSTSN	SET AND TEST SEQ NUMBER
1	HEX	A3	SRRQR	REQUEST RECOVERY
1	HEX	C0	SRCRV	CRYPTOGRAPHY VERIFY

## VALUES FOR REQUEST CODE (SRUQSREQ) FOR DATA FLOW CONTROL

1	HEX	04	SRLUS	LOGICAL UNIT STATUS
1	HEX	05	SRRTR	READY TO RECEIVE
1	HEX	70	SRBIS	BRACKET INITIATION STOPPED
1	HEX	71	SRBBI	STOP BRACKET INITIATION
1	HEX	80	SRQEC	QUIESCE AT END OF CHAIN
1	HEX	81	SRQC	QUIESCE COMPLETE
1	HEX	82	SRRELQ	RELEASE QUIESCE
1	HEX	83	SRCANCEL	CANCEL
1	HEX	84	SRCHASE	CHASE
1	HEX	C0	SRSHTD	SHUTDOWN
1	HEX	C1	SRSHTC	SHUTDOWN COMPLETE
1	HEX	C1	SRUSDCOM	SHUTDOWN COMPLETE
1	HEX	C2	SRRSHUTD	REQUEST SHUTDOWN
1	HEX	C8	SRUSRBID	BID

Len	Type	Value	Name	Description
1	HEX	C9	SRSIGNAL	SIGNAL
VALUES FOR REQUEST CODE (SRUQSREQ) FOR NETWORK CONTROL				
1	HEX	06	SRUANSS	ANS START
1	HEX	07	SRUANSC	ANS COMPLETE
1	HEX	08	SRLSTPTH	LOST PATH
1	HEX	50	SRUINITC	INIT COMPLETE
VALUES FOR ANS REASON CODE (FIRST BYTE OF SRUDATA)				
1	HEX	01	SRUANSPL	OPERATOR INITIATED
1	HEX	02	SRUANSTO	CHANNEL TIME OUT
VALUES FOR STSN REQUEST ACTION CODES (SRUSPAC AND SRUPSAC)				
0	BIT	00	SRIGNAC	IGNORE
0	BIT	01	SRSETAC	SET
0	BIT	10	SRINVAC	SENSE
0	BIT	11	SRSTSAC	SET AND TEST
VALUES FOR STSN RESPONSE ACTION CODES (SRUSPAC AND SRUPSAC)				
0	BIT	00	SRRQRAC	REQUEST RESET
0	BIT	01	SRTSPAC	TEST POSITIVE
0	BIT	11	SRTSNAC	TEST NEGATIVE
VALUES FOR DATA FLOW CONTROL LEVEL (SRUDFCLV)				
1	HEX	01	SRDFCL1	LEVEL 1
1	HEX	02	SRDFCL2	LEVEL 2
1	HEX	03	SRDFCL3	LEVEL 3
1	HEX	04	SRDFCL4	LEVEL 4
1	HEX	04	NSRUMES	MEASUREMENT SERVICES
1	HEX	05	NSRUOPS	NETWORK OPERATOR SERVICES
1	HEX	08	NSRUMGS	MANAGEMENT SERVICES
VALUES FOR CSM ID DESCRIPTOR (NSRCIDD)				
0	BIT	00	NSRCLA	CSMID IS A LOCAL ADDRESS
0	BIT	01	NSRCNA	CSMID IS A NETWORK ADDRESS
VALUES FOR NETWORK SERVICES HEADER (NSRUNETS)				
3	HEX	010214	SRUSSEN	SLOWDOWN ENTRY
3	HEX	010215	SRUSSEX	SLOWDOWN EXIT
3	HEX	010280	SRUCONT	CONTACTED
3	HEX	010281	SRUINOP	INOPERATIVE
3	HEX	010383	SRURLNTR	RECORD LINE TRACE
3	HEX	010381	SRURECMS	RECORD MAINT STATS
3	HEX	410243	SRUIPLIN	DSL IPL INIT
3	HEX	410244	SRUIPLTX	DSL IPL TEXT
3	HEX	410245	SRUIPLFN	DSL IPL FINAL
VALUES FOR NETWORK SERVICES TYPE (NSRUID)				
1	HEX	01	NSRUNS	NETWORK SERVICES INDICATOR
1	HEX	01	SRNETSRV	NETWORK SERVICES
1	HEX	40	NSRUPHY	APPLIES TO PHYSICAL
1	HEX	80	NSRULOG	APPLIES TO LOGICAL
1	HEX	C0	NSRUPL	APPLIES TO BOTH
VALUES FOR NETWORK SERVICES CATEGORY (NSRUSUB)				
1	HEX	00	NSRUNCP	BASIC SUPPORT
1	HEX	01	NSREXTST	EXECUTE TEST
1	HEX	02	NSRUPCS	PHYSICAL CONFIGURATION SERVICES
1	HEX	03	NSRUMAT	PHYSICAL MAINTENANCE SERVICES
1	HEX	03	SRPHYMS	PHYSICAL MAINTENANCE
1	HEX	06	NSRUDSS	DATA/SESSION SERVICES
1	HEX	27	NSRUDSER	DIRECT SEARCH LIST RU
VALUES FOR REQUEST CODE (NSRURCD) FOR PHYSICAL CONFIGURATION SERVICES				
1	HEX	01	NSRUCT	CONTACT
1	HEX	02	NSRUDSCT	DISCONTACT
1	HEX	03	NSRUIPLI	IPL INITIAL



Len	Type	Value	Name	Description
1	HEX	04	NSRUIPLT	IPL TEXT
1	HEX	05	NSRUIPLF	IPL FINAL
1	HEX	06	NSRUDMPI	DUMP INITIAL
1	HEX	07	NSRUDMP	DUMP
1	HEX	08	NSRUDMPF	DUMP FINAL
1	HEX	0A	NSRUACTL	ACTIVATE LINK
1	HEX	0B	NSRUDCTL	DEACTIVATE LINK
1	HEX	09	NSRURPO	REMOTE POWER OFF
1	HEX	0E	NSRUDIAL	DIAL
1	HEX	0F	NSRUACON	ABANDON CONNECTION
1	HEX	10	NSRRUNA	REQUEST NETWORK ADDRESS ASSIGNMENT
1	HEX	11	NSRUSSV	SET STATE VECTOR
1	HEX	16	NSRUANS	ENABLE ANSWER
1	HEX	17	NSRUAANS	ABANDON ANSWER
1	HEX	18	NSRUADIL	ABANDON DIAL
1	HEX	19	NSRUANA	ASSIGN NET ADDRESS
1	HEX	1A	NSRUFNA	FREE NET ADDRESS
1	HEX	80	NSRUCTD	CONTACTED
1	HEX	81	NSRUINOP	INOPERATIVE
1	HEX	82	NSRRECTD	RECORD TEST DATA
1	HEX	83	NSRRECLD	RECORD LINE TRACE
1	HEX	84	NSRUOH	OFF HOOK
1	HEX	85	NSRULSA	LOST SUBAREA

VALUES OF REQUEST CODE (NSRURCD) FOR MAINTAINENCE SERVICES

1	HEX	02	NSRUATRC	ACTIVATE TRACE
1	HEX	03	NSRUDTRC	DEACTIVATE TRACE
1	HEX	05	NSRUETM	ENTER TESTMODE
1	HEX	81	SRRMSTAT	RECORD MAINTAINENCE STATISTICS
1	HEX	85	NSRURCTR	RECORD TEST RESULTS

VALUES OF REQUEST CODE (NSRURCD) FOR PRE-SNA SERVICES

1	HEX	01	NSRUXTL	CHANGE TRANS LIMIT
1	HEX	02	NSRUCNPL	CHANGE NEGATIVE POLL
1	HEX	03	NSRUCSL	CHANGE SESSION LIMIT
1	HEX	04	NSRUCPL	CHANGE POLL

VALUES OF REQUEST CODE (NSRURCD) FOR SESSION SERVICES

1	HEX	04	NSRUNSPE	NS PROCEDURE ERROR
1	HEX	1B	NSRUONHK	READY TO GO ON HOOK
1	HEX	20	NSRUNOTF	NOTIFY
1	HEX	29	NSRUCLEN	CLEANUP
1	HEX	40	NSRUCDIO	CROSS DOMAIN INITIATE OTHER
1	HEX	41	NSRUCDIN	CROSS DOMAIN INITIATE
1	HEX	43	NSRUCDTM	CROSS DOMAIN TERMINATE
1	HEX	45	NSRUCDSF	CROSS DOMAIN SESSION SETUP FAILURE
1	HEX	46	NSRUCDSS	CROSS DOMAIN SESSION STARTED
1	HEX	48	NSRUCDSE	CROSS DOMAIN SESSION ENDED
1	HEX	49	NSRUDMTD	CROSS DOMAIN TAKEDOWN
1	HEX	4A	NSRUDMTC	CROSS DOMAIN TAKEDOWN COMPLETED
1	HEX	4B	NSRUCDCI	CROSS DOMAIN INIT COMPLETE
1	HEX	81	NSRUINSF	INITATE-SELF
1	HEX	83	NSRUTMSF	TERMINATE-SELF

VALUES OF READY TO GO ON HOOK TYPE CODES (NSRUHKTY)

1	HEX	00	NSRUHKNR	NORMAL
1	HEX	80	NSRUHKI	IMMEDIATE
1	HEX	01	NSBATCH	BATCH
1	HEX	02	NSINTER	INTERACTIVE
1	HEX	05	NSDELAY	
2	HEX	0000	NS0DELAY	

CONSTANTS FOR NSSSVT

1	HEX	01	NSTIME	SET TIME AND DATE
1	HEX	02	NSNODE	SET NODE ID
1	HEX	03	NSPU	SET PU PARAMS
1	HEX	04	NSLU	SET LU PARAMS

RU



Len	Type	Value	Name	Description
VALUES FOR TRACE TYPE (TRRTYPE)				
0	HEX	1	TRRLT12	LINE TRACE TYPE 1, 2
1	HEX	01	TRRLT12A	LINE TRACE TYPE 1, 2, USED TO TEST ENTIRE BYTE
0	HEX	3	TRRLT3	LINE TRACE TYPE 3
1	HEX	03	TRRLT3A	LINE TRACE TYPE 3, USED TO TEST ENTIRE BYTE
0	HEX	4	TRRGPT	GPT TRACE
0	HEX	5	TRRLT2E	EXTENDED TYPE 2 RU
1	HEX	05	TRRLT2	EXTENDED TYPE 2 RU, USED TO TEST ENTIRE BYTE
0	HEX	7	TRRLT3E	EXTENDED TYPE 3 RU
1	HEX	08	TRRCUT	NETCNTR TYPE TRACE CODE, USED TO TEST ENTIRE BYTE
1	HEX	89	TRRNTRI	RECORD TRACE DATA FROM NTRI RATHER THAN FROM NCP
0	HEX	9	TRRMTR	NORMAL TYPE TRACE
0	HEX	D	TRRLNTR	LINE TYPE TRACE
VALUES FOR TIME OUT VALUE (TRRTIME)				
1	HEX	00	TRLNTIM2	TIME OUT RESET WHEN TRACE STOPPED
1	HEX	FF	TRLNTIM1	TIME OUT VALUE WHEN TRACE ACTIVATED
VALUES FOR TRRTIC - ONLY TRRTICTR DEFINED MEANING TIC TRACE				
1	HEX	C6	TRRTICTR	TIC FROM NTRI
VALUES FOR TRACE STATUS (TRRSTAT)				
1	HEX	01	TTRACT	LINE TRACE ACTIVE
1	HEX	01	TRRNLR	NOT LAST RECORD
1	HEX	01	TRLN	LINE TRACE DESIRED
1	HEX	02	TRRDEACT	TRACE TERMINATED BECAUSE OF DEACTIVATE
1	HEX	02	TRRLDREC	LAST RECORD DEACT
1	HEX	03	TRRLEREC	LAST RECORD ERROR
1	HEX	03	TRRSLOW	TRACE TERMINATED BECAUSE OF SLOWDOWN
1	HEX	08	TRRSITF	SIT TRACE FAILED
VALUES FOR STATUS (CTDRUSTA) FIELD				
1	HEX	01	CTDRULD	LOADED
1	HEX	02	CTDRULDR	LOAD REQUIRED
1	HEX	03	CTDRUERR	ERROR ON CONTACT
VALUES FOR ELEMENT TYPE FIELD (INORUET)				
1	HEX	01	INORUPU	PHYSICAL UNIT
1	HEX	02	INORULNK	LINK
1	HEX	FE	INORURNS	SOFT FAILURE OF LOCAL RN
1	HEX	FF	INORURNH	HARD FAILURE OF LOCAL RN
VALUES FOR TYPE OF ACTIVATION (SRUDAT1T AND SRUDAT2T)				
1	HEX	01	SRUCOLD	COLD ACTIVATION
1	HEX	02	SRUERP	ERP ACTIVATION
1	HEX	04	SRUWARM	WARM ACTIVATION
VALUES FOR FM PROFILE (SRUFMPRO) AND (BINFM) IN ISTBIND				
0	BIT	0000	SRUFMP0	FM PROFILE 0
0	BIT	0101	SRUFMP5	FM PROFILE 5
0	BIT	0111	SRUFMP7	FM PROFILE 7
1	HEX	11	SRUFMP17	FM PROFILE 17
VALUES FOR TS PROFILE (SRUTSPRO) AND (BINTS) IN ISTBIND				
0	BIT	0000	SRUTSP0	TS PROFILE 0
0	BIT	0001	SRUTSP1	TS PROFILE 1
0	BIT	0010	SRUTSP2	TS PROFILE 2
0	BIT	0011	SRUTSP3	TS PROFILE 3
0	BIT	0100	SRUTSP4	TS PROFILE 4
0	BIT	0101	SRUTSP5	TS PROFILE 5
0	BIT	0111	SRUTSP7	TS PROFILE 7
1	HEX	11	SRUTSP17	TS PROFILE 17
VALUES FOR TYPE OF DEACTIVATION (SRUDAT3I)				
1	HEX	01	SRUFINAL	FINAL USE

RU

Len	Type	Value	Name	Description
1	HEX	02	SRUNOFIN	NOT FINAL USE
1	HEX	03	SRUSON	SESSION OUTAGE NOTIFICATION
1	HEX	01	SRUNORM	NORMAL END SESSION
1	HEX	02	SRUBF	BIND FAILURE
1	HEX	04	SRUVS	CLEAR SESSION PROCEDURE
VALUES FOR CAUSE OF DEACTIVATION (SRUDAT3C)				
1	HEX	07	SRUVRIN	VIRTUAL ROUTE INOPERATIVE
1	HEX	0E	SRURFAIL	RECOVERABLE FAILURE
VALUES FOR STATE (NSRUDA3S)				
1	HEX	01	NSRULOAD	LOADED
1	HEX	02	NSRUNLOD	LOAD REQUIRED
1	HEX	03	NSRUCERR	CONTACT FAILED
VALUES FOR ELEMENT TYPE (NSRUDA7T)				
1	HEX	01	NSRUBOX	PHYSICAL UNIT FAILED
1	HEX	02	NSRULINK	LINK FAILED
VALUES FOR NUMBER OF ADDRESSES TO ASSIGN OR FREE (NSRUNA1)				
1	HEX	00	NSRUFALL	FREE ALL
CONTROL VECTORS X'60' AND/OR X'35' MAY OPTIONALLY BE APPENDED TO THE UNBIND RU VALUES FOR UNBIND TYPE (UNBTYPE)				
1	HEX	01	UNBNORM	NORMAL END SESSION (E.G. FOLLOWING A TERM REQUEST)
1	HEX	02	UNBHOLD	BIND FORTHCOMING - RETAIN THE NODE RESOURCES ALLOCATED TO THIS SESSION, IF POS- SIBLE
1	HEX	06	UNBSESP	INVALID SESSION PARAMETERS: THE BIND NEGOTI- ATION FAILED DUE TO AN INABILITY OF THE PRIMARY HALF SESSION TO SUPPORT PARAMETERS SPECIFIED BY THE SECONDARY
1	HEX	07	UNBVRIN	VIRTUAL ROUTE INOPERATIVE: THE VIRTUAL ROUTE USED BY THE (LU,LU) SESSION HAS BECOME INOP- ERATIVE THUS FORCING THE DEACTIVATION OF THE IDENTIFIED (LU,LU) SESSION
1	HEX	08	UNBREX	ROUTE EXTENSION INOPERATIVE: THE ROUTE EXTEN- SION USE BY THE (LU,LU) SESSION HAS BECOME INOPERATIVE THUS FORCING THE DEACTIVATION OF THE IDENTIFIED (LU,LU) SESSION
1	HEX	09	UNBHRST	HIERARCHICAL RESET: THE IDENTIFIED (LU,LU) SESSION IS BEING DEACTIVATED DUE TO A +RSP(ACTPU   ACTLU, COLD)
1	HEX	0A	UNBSSCP	SSCP GONE: THE IDENTIFIED (LU,LU) SESSION HAD TO BE DEACTIVATED BECAUSE OF A FORCED DEAC- TIVATION OF THE (SSCP,PU) OR (SSCP,LU) SESSION (E.G. DACTPU, DACTLU, OR DISCONTACT)
1	HEX	0B	UNBVRDE	VIRTUAL ROUTE DEACTIVATED: THE IDENTIFIED (LU,LU) SESSION HAD TO BE DEACTIVATED BECAUSE OF A FORCED DEACTIVATION OF VIRTUAL ROUTE BEING USED BY THE (LU,LU) SESSION
1	HEX	0C	UNBFAIL	FAIL: THE IDENTIFIED (LU,LU) SESSION HAD TO BE DEACTIVATED BECAUSE OF AN ABNORMAL TERMI- NATION OF THE PLU OR SLU
1	HEX	0E	UNBRFAIL	RECOVERABLE FAILURE: THE IDENTIFIED (LU,LU) SESSION HAD TO BE DEACTIVATED BECAUSE OF AN ABNORMAL TERMINATION OF THE PLU OR SLU
1	HEX	0F	UNBCLEAN	CLEANUP: THE LU SENDING THE UNBIND IS RESET- TING IT'S HALF SESSION BEFORE RECEIVING THE RESPONSE FROM THE PARTNER LU OR THE LU IS SENDING AN UNBIND AS A RESULT OF THE CLEAN UP RU BEING RECEIVED FROM THE HOST SSCP
1	HEX	7F	UNBINHBI	HIGH BOUNDARY FOR THE RANGE OF AN IMMEDIATE TYPE UNBIND. AN IMMEDIATE TYPE UNBIND IS DEFINED IN THE RANGE X'07' TO X'7F'

RU

Len	Type	Value	Name	Description
1	HEX	11	UNBGWCLN	GATEWAY NODE CLEANUP: A GATEWAY NODE IS CLEANING-UP THE SESSION BECAUSE A GATEWAY SSCP HAS DIRECTED THE GATEWAY NODE (VIA NOTIFY) TO DEACTIVATE THE SESSION
1	HEX	12	UNBINBHR	HARP BACKUP HIERARCHICAL RESET: HARP BACKUP SESSION IS BEING DEACTIVATED BECAUSE THE RELATED HARP PRIMARY SESSION TERMINATED NORMALLY
1	HEX	13	UNBINPHR	HARP PRIMARY HIERARCHICAL RESET: HARP BACKUP SESSION IS BEING DEACTIVATED BECAUSE THE RELATED HARP BACKUP SESSION PREFORMED FORCED TAKEOVER OF THIS SESSION (VIA SWITCH)
1	HEX	FE	UNBINVSP	INVALID SESSION PROTOCOL: THE SESSION HAS FAILED BECAUSE A PROTOCOL VIOLATION HAS BEEN DETECTED. MAY ALSO INDICATE THE APPLICATION HAS PROVIDED SENSE INFORMATION ON THE UNBIND RU
VALUES FOR DTKDSESS FIELD				
0	BIT	00	DTKDACT	ACTIVE ONLY
0	BIT	01	DTKDACQ	ACTIVE AND QUEUED
0	BIT	10	DTKDQ	QUEUED ONLY
VALUES FOR DTKDLVL FIELD				
0	BIT	00	DTKDQSC	QUIESCE
0	BIT	01	DTKDORD	ORDERLY
0	BIT	10	DTKDFRCD	FORCED
0	BIT	11	DTKDCLEN	CLEANUP
VALUES FOR TYPE STATUS FIELD (DTKCTPST)				
1	HEX	01	DTKCSUMM	SUMMARY
VALUES FOR STATUS FIELD IF TYPE = '01' (DTKCSTAT)				
1	HEX	01	DTKAOK	ALL GOOD
1	HEX	02	DTKCLSYN	POSSIBLE LOSS OF SYNCH
CONSTANTS FOR NSLSFMT				
1	HEX	01	NSLSFMT1	FORMAT 1
MISCELLANEOUS VALUES				
1	HEX	51	SRUSWNCP	SW TO NCP
1	HEX	52	SRUSWEP	SW TO EP
1	HEX	15	SRUAIDS	ALREADY IN DESIRED STATE

RU

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
CTDRUSTA	5		2	ISTNSRU	0		1
DTKCPCID	3		2	ISTRU	0		1
DTKCSTAT	C		2	ISTRUB	0		1
DTKCTPST	B		2	ISTSENRU	0		1
DTKDABN	C	40	3	ISTSRU	0		1
DTKDDET	C	20	3	ISTTRRU	5		1
DTKDLVL	B	20	3	ISTUNBRU	1		1
DTKDNMGR	C	80	3	MRUCMND	5		2
DTKDPCID	3		2	MRUDAF	3		2
DTKDRESN	C		2	MRUDATA	9		2
DTKDSSESS	B	80	3	MRUMODIF	6		2
DTKDTYPE	B		2	MRUPREF	0		2
INORUET	5		2	MRUREQ	2		2
ISTCTDRU	5		1	MRURESP	7		2
ISTDTAKC	3		1	NSLSARU	3		1
ISTDTAKD	3		1	NSLSFMT	4		2
ISTEXTEN	9		1	NSLSRSA	0		1
ISTINORU	5		1	NSLSRSN	3		2
ISTMRU	0		1	NSLSRSV	0		2

Name	Hex Offset	Hex Value	Level
NSLSSA	5		2
NSLSSAA	2		2
NSRCIDD	5	20	3
NSRCORR	5		2
NSRCSMID	3		2
NSRDATA	8		2
NSRFT	7		2
NSRNLAST	7	40	4
NSRPRID	5		3
NSRRST	7	80	3
NSRRSV1	5	80	3
NSRRSV2	7	40	3
NSRSOL	7	80	4
NSRTYPE	7	20	3
NSRUCAT	1	20	4
NSRUCDRM	1	80	4
NSRUCLSP	5		1
NSRUCSM	3		1
NSRUDAF	3		2
NSRUDATA	3		2
NSRUDAT1	3		1
NSRUDAT2	5		2
NSRUDAT3	5		1
NSRUDAT4	5		1
NSRUDAT5	5		1
NSRUDAT6	5		1
NSRUDAT7	5		1
NSRUDAT8	3		1
NSRUDA3S	5		2
NSRUDA4T	5		2
NSRUDA5E	5		2
NSRUDA6L	9		2
NSRUDA6S	5		2
NSRUDA7T	5		2
NSRUDA8T	3		2
NSRUDIL	5		1
NSRUDILA	5		2
NSRUDILB	6		2
NSRUDILC	6	40	3
NSRUDILD	7		2
NSRUDILE	8		2
NSRUDILF	9		2
NSRUHKTY	3		2
NSRUHOOK	3		1
NSRUID	0		3
NSRULSV	5		2
NSRUNA	5		1
NSRUNA1	5		2
NSRUNA2	6		2
NSRUNA3	6	80	3
NSRUNA4	7		2
NSRUNA5	0		1
NSRUNA6	0		2
NSRUNETS	0		2
NSRUOHFT	5	80	3
NSRUOHIB	7		3
NSRUOHID	5		2
NSRUOHIL	6		3
NSRUOHIN	8		3
NSRUOHPT	5	08	3
NSRUOH1	5		1
NSRURCD	2		3
NSRURNAA	5		1
NSRURNA1	5		2
NSRUSUB	1		3
NSSSVDAF	3		2
NSSSVNOD	6		2

RU

Name	Hex Offset	Hex Value	Level
NSSSVRU	3		1
NSSSVT	5		2
NSSSVT3	6		1
NSSSVT3A	6		2
NSSSVT3B	7		2
NSSSVT3C	8		2
NSSSVT3D	8	80	3
NSSSVT3E	9		2
NSSSVT3F	A		2
NSSSVT3G	B		2
NSSSVT3H	B	10	3
NSSSVT3I	C		2
NSSSVT3J	D		2
NSSSVT3K	E		2
NSSSVT4	6		1
NSSSVT4A	6		2
NSSSVT4B	7		2
NSSSVT4C	8		2
NSSSVT4D	9		2
NSSSVT5	6		1
NSSSVT5A	6		2
RUBDATA	0		2
RUDATA	0		2
SENRU	4		2
SRUDATA	1		2
SRUDATA3	1		1
SRUDATA4	1		1
SRUDAT1	1		1
SRUDAT1I	3		2
SRUDAT1L	2		2
SRUDAT1T	1		2
SRUDAT2	1		1
SRUDAT2N	2		2
SRUDAT2T	1		2
SRUDAT3C	2		2
SRUDAT3I	1		2
SRUDAT4D	1		2
SRUDFCLV	2		5
SRUFMPRO	2	80	3
SRULDID	2		3
SRUPSAC	1	20	4
SRUPSSN	4		4
SRUQSREQ	0		2
SRURSV01	6		4
SRUSENSE	0		2
SRUSENS1	0		3
SRUSENS2	2		3
SRUSNST	1		4
SRUSNS1	0		4
SRUSNS3	2		4
SRUSNS4	3		4
SRUSPAC	1	80	4
SRUSPSN	2		4
SRUTSPRO	2	08	3
SRUTYPE	1		3
TRRDATA	9		2
TRREXLN	5	04	3
TRRFMT2	5	02	3
TRRGPTTR	5	40	3
TRRLEN	9		2
TRRLINTR	5	01	3
TRRPEP	7		2
TRRSTAT	8		2
TRRTGTRA	5	80	3
TRRTIC	7		3
TRRTIME	6		2
TRRTYPE	5		2

Name	Hex Offset	Hex Value	Level
UNBSEN	2		1
UNBSENSE	2		2
UNBSSEN	2		2
UNBTYPE	1		2
UNBUSEN	4		2



## Set Control Vector RU (SCVRU)

<b>Function:</b>	SCVRU sets the control vector that is maintained by the PU receiving the request and that is associated with the network address specified in the RU.
<b>RU Header:</b>	X'010211' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTSCVRU	SET CONTROL VECTOR RU MAP
0	(0)	CHARACTER	3	SCVNSH	NS HEADER (X'010211' = SCV)
3	(3)	CHARACTER	2	SCVNAD	NETWORK ADDRESS FIELD
3	(3)	CHARACTER	2	SCVELEM	ELEMENT ADDRESS
5	(5)	CHARACTER	1	SCVTYP	VECTOR TYPE
6	(6)	CHARACTER	*	SCVVEC	CONTROL VECTOR (SEE BELOW)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	ISTSVRSP	SCV RU RESPONSE MAP
0	(0)	CHARACTER	1	SCVRTYP	VECTOR TYPE

FOR CROSS NETWORK SESSION SETUP SETCV NOW SUPPORTS 4 NEW VECTORS -

- 1 - NETWORK QUALIFIED ADDRESS PAIR CONTROL VECTOR -15 WHICH IS MAPPED BY ISTNQAP BASED ON ADDR(SCVTYP) OR PRECEDING VECTOR. THIS MAPPING INCLUDES THE TYPE BYTE.

NAU1 AND NAU2 ARE BOTH ADDRESSES WITHIN THE NETWORK CARRIED IN THE NETWORK ID FIELD OF THE VECTOR. NAU2 CONTAINS AN ALIAS ADDRESS ASSIGNED WITHIN THE GATEWAY NODE RECEIVING THIS VECTOR.

- 2 - NAMES SUBSTITUTION CONTROL VECTOR -16 WHICH IS MAPPED BY ISTNSCV BASED ON ADDR(SCVTYP) OR PRECEDING VECTOR . THIS MAPPING INCLUDES THE TYPE BYTE.
- 3 - NAU ADDRESS CONTROL VECTOR - 1A WHICH IS MAPPED BY ISTNAUA BASED ON ADDR(SCVTYP) OR PRECEDING VECTOR . THIS MAPPING INCLUDES THE TYPE BYTE.
- 4 - VRID LIST CONTROL VECTOR - 1B WHICH IS MAPPED BY ISTVRIDV BASED ON ADDR(SCVTYP) OR PRECEDING VECTOR . THIS MAPPING INCLUDES THE TYPE BYTE.

VECTOR 15 MUST PRECEDE VECTORS 16, 1A, AND 1B AND IS USED TO IDENTIFY THE SESSION TO WHICH THESE VECTORS APPLY. THE OTHER VECTORS HAVE NO ORDER REQUIREMENT.

DEFINITION OF VECTOR (SCVVEC) FOR SET TIME AND DATE RU  
NOTE: SCVNAD = NETWORK ADDRESS OF PU TYPE 4 (370X)

0	(0)	STRUCTURE	20	SCV01	VECTOR TYPE '01' (STD)
0	(0)	CHARACTER	20	SCVDAT	DATA = 'MM/DD/YY.DDDHH.MM.SS'
0	(0)	CHARACTER	2	SCVMON	MONTH
2	(2)	CHARACTER	1	SCVDF1	DELIMITER FIELD 1 (C'/)
3	(3)	CHARACTER	2	SCVDOM	DAY OF THE MONTH
5	(5)	CHARACTER	1	SCVDF2	DELIMITER FIELD 2 (C'/)
6	(6)	CHARACTER	2	SCVYRS	YEAR
8	(8)	CHARACTER	1	SCVDF3	DELIMITER FIELD 3 (C':)
9	(9)	CHARACTER	3	SCVDOY	DAY OF THE YEAR
12	(C)	CHARACTER	2	SCVHRS	HOUR OF THE DAY
14	(E)	CHARACTER	1	SCVDF4	DELIMITER FIELD 4 (C':)
15	(F)	CHARACTER	2	SCVMIN	MINUTES OF THE HOUR
17	(11)	CHARACTER	1	SCVDF5	DELIMITER FIELD 5 (C':)
18	(12)	CHARACTER	2	SCVSEC	SECONDS OF THE MINUTE

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
DEFINITION OF VECTOR (SCVVEC) FOR SET SDLC SECONDARY STATION PARAMETER					
NOTE: SCVNAD = NETWORK ADDRESS OF LINK STATION (PU, PUX)					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	SCVV03	VECTOR TYPE '03' (SSS)
0	(0)	CHARACTER	1	SCVADR	SDLC ADDRESS
1	(1)	CHARACTER	1	SCVPUT	PU TYPE
2	(2)	CHARACTER	1	SCVF00	FLAGS
		1... ....		SCVBNN	PU TYPE 4 PROVIDES BNN SUPPORT
		.1.. ....		SCVANS	ANS=CONTINUE
		..1. ....		*	RESERVED - NOT AVAILABLE
		...1 ....		SCVNLPSA	1 = NO LPDA TESTING
		.... 1111		SCVR00	RESERVED - NOT AVAILABLE
3	(3)	CHARACTER	1	SCVMXO	SDLC BTU SEND LIMIT MAXOUT PARAMETER VALUE
4	(4)	CHARACTER	1	SCVPLM	MAX CONSECUTIVE BTUS SENT FROM PRIMARY STATION TO SPECIFIED SECONDARY STATION PASSLIM PARAMETER VALUE
5	(5)	CHARACTER	1	SCVF01	FLAGS
		111. ....		SCVR01	RESERVED - NOT AVAILABLE
		...1 ....		SCVIRT	IRETRY = YES
		.... 1111		SCVR02	RESERVED - NOT AVAILABLE
6	(6)	CHARACTER	1	SCV2LP	SECOND LEVEL PAUSE
7	(7)	CHARACTER	1	SCV2LL	SECOND LEVEL LIMIT
8	(8)	SIGNED	2	SCVMXD	MAXDATA PARAMETER VALUE

NOTE: SCVNAD = NETWORK ADDRESS OF NETWORK ADDRESSABLE UNIT (LU)

0	(0)	STRUCTURE	4	SCVV04	VECTOR TYPE '04' (NAU)
0	(0)	CHARACTER	1	SCVLOC	LOCAL ADDRESS
1	(1)	ADDRESS	1	SCVNPV	'N' PACING VALUE
2	(2)	ADDRESS	1	SCVMPV	'M' PACING VALUE
3	(3)	CHARACTER	1	SCVSCH	SCHEDULING PARAMETER

DEFINITION OF VECTOR (SCVVEC) FOR SET ATTENTION TIMING DELAY RU

NOTE: SCVNAD = NETWORK ADDRESS OF PU TYPE 4 (370X)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	SCVV05	VECTOR TYPE '05' (ATD)
0	(0)	CHARACTER	2	SCVATV	ATTENTION TIMEOUT VALUE

## Constants

Len	Type	Value	Name	Description
CONSTANT FOR SCVNSH (NS HEADER)				
3	HEX	010211	SCVSCV	NS HDR = SET CTL VECTOR
CONSTANTS FOR SCVTYP (VECTOR TYPE)				
1	HEX	01	SCVSTD	SET TIME AND DATE
1	HEX	02	SCVSAR	SET SUBAREA ROUTING
1	HEX	03	SCVSSS	SET SDLC SECONDARY STATION PARAMETER
1	HEX	04	SCVNAU	SET NETWORK ADDRESS UNIT PARAMETER
1	HEX	05	SCVATD	SET ATTENTION TIMING DELAY
CONSTANT FOR SCVPUT (PU TYPE)				
1	HEX	04	SCVPT1	PU TYPE = 1
1	HEX	02	SCVPT2	PU TYPE = 2
CONSTANTS FOR SCVSCH (SCHEDULING PARAMETER)				
1	HEX	01	SCVBCH	BATCH

Len	Type	Value	Name	Description
1	HEX	02	SCVINT	INTERACTIVE
CONSTANT FOR SCVATV (ATTENTION TIMEOUT VALUE)				
2	HEX	0000	SCVAT0	ATTN TIMEOUT DELAY = 0 SEC

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTSCVRU	0		1
ISTSVRSP	0		1
SCVADR	0		2
SCVANS	2	40	3
SCVATV	0		2
SCVBNN	2	80	3
SCVDAT	0		2
SCVDF1	2		3
SCVDF2	5		3
SCVDF3	8		3
SCVDF4	E		3
SCVDF5	11		3
SCVDOM	3		3
SCVDOY	9		3
SCVELEM	3		3
SCVF00	2		2
SCVF01	5		2
SCVHRS	C		3
SCVIRT	5	10	3
SCVLOC	0		2
SCVMIN	F		3
SCVMON	0		3
SCVMPV	2		2
SCVMXD	8		2
SCVMXO	3		2
SCVNAD	3		2
SCVNLPCA	2	10	3
SCVNPV	1		2
SCVNSH	0		2
SCVPLM	4		2
SCVPUT	1		2
SCVRTYP	0		2
SCVR00	2	08	3
SCVR01	5	80	3
SCVR02	5	08	3
SCVSCH	3		2
SCVSEC	12		3
SCVTYP	5		2
SCVVEC	6		2
SCVV01	0		1
SCVV03	0		1
SCVV04	0		1
SCVV05	0		1
SCVYRS	6		3
SCV2LL	7		2
SCV2LP	6		2

RU



## NCP Dynamic Path Update SETCV RU Header (SRUHD)

<b>Function:</b>	SRUHD provides a mapping for the NCP dynamic path update SETCV RU header.
<b>Pointed to by:</b>	RRNPTRU (RRN)

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	16	ISTSRUHD	
0	(0)	ADDRESS	4	SRUCHN	SETCV RU CHAIN POINTER
4	(4)	SIGNED	2	SRULEN	SETCV RU LENGTH
6	(6)	SIGNED	2	SRUDLEN	TOTAL STORAGE ALLOCATED
8	(8)	SIGNED	4	SRUDSACT	DESTINATION SUBAREA COUNT
12	(C)	BITSTRING	1	SRUFLGS	FLAGS
		1... ....		SRUERESA	THIS RU CONTAINS AN UPDATE FOR AN ER > 7
		.1.. ....		SRUADESA	THIS RU CONTAINS AN UPDATE FOR AN ADJSA > 255
		..11 1111		*	NOT USED - AVAILABLE
13	(D)	CHARACTER	3	*	NOT USED - AVAILABLE
16	(10)	UNSIGNED	4	SRUDSATB (*)	DESTINATION SUBAREA ARRAY

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSRUHD	0		1
SRUADESA	C	40	3
SRUCHN	0		2
SRUDLEN	6		2
SRUDSACT	8		2
SRUDSATB	10		2
SRUERESA	C	80	3
SRUFLGS	C		2
SRULEN	4		2



**Session Ended RU (SSERU)**

<b>Function:</b>	SSERU is sent, with no-response requested, to notify the SSCP that the session between the specified LUs was successfully deactivated.
<b>RU Header:</b>	X'810688' (NS header)
<b>RU Type:</b>	FMD

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	9	ISTSSERU	
0	(0)	CHARACTER	6	SSERU	SESSION SERVICES SESSION END MAP
0	(0)	CHARACTER	3	SSEHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	SSESST	LOGICAL OR PHYSICAL RU TYPE
1	(1)	CHARACTER	1	SSECAT	NS SUBTYPE-CDRM INDICATOR
2	(2)	CHARACTER	1	SSEREQCD	REQUEST CODE
3	(3)	CHARACTER	1	SSEINFRM	FORMAT INFORMATION
		1111 ....		SSEFORMT	FORMAT FIELD
		.... 1111		SSERSV00	RESERVED
4	(4)	CHARACTER	1	SSECAUSE	REASON FOR UNBIND NOTE - SEE UNBIND RU FOR VALUES
5	(5)	CHARACTER	1	SSEACTON	ACTION TO BE TAKEN
6	(6)	CHARACTER	1	SSEKEYTP	SESSION KEY TYPE
7	(7)	CHARACTER	2	SSEKEY	SESSION KEY
7	(7)	CHARACTER	1	SSELU1T	RESOURCE TYPE
8	(8)	UNSIGNED	1	SSELU1LN	LU1 (PLU) LENGTH
9	(9)	CHARACTER	*	SSELU1NM	LU1 (PLU) NAME

## MAPPING FOR LU2 (SLU) NETWORK NAME OF PAIR

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	SSELU2	
0	(0)	CHARACTER	1	SSELU2T	RESOURCE TYPE
1	(1)	UNSIGNED	1	SSELU2LN	LU2 (SLU) LENGTH
2	(2)	CHARACTER	*	SSELU2NM	LU2 (SLU) NAME

## MAPPING FOR SESSION KEY-07

7	(7)	STRUCTURE	4	SSESKEY	
7	(7)	CHARACTER	2	SSEPLUNA	PLU NETWORK ADDRESS
9	(9)	CHARACTER	2	SSESLUNA	SLU NETWORK ADDRESS

**Constants**

Len	Type	Value	Name	Description
CONSTANT FOR SSEHDR - SESSION ENDED				
3	HEX	810688	SSEHDRC	81 - NETWORK SERVICES, LOGICAL SERVICES 06 - SESSION SERVICES 88 - SESSION ENDED
CONSTANT FOR SSEFORMT				
0	BIT	0010	SSEFMT2	FORMAT 2
CONSTANT FOR SSEKEYTP				
1	HEX	06	SSEKEY6	PAIRED NETWORK NAMES
1	HEX	07	SSEKEY7	PAIRED NETWORK ADDRESSES
CONSTANT FOR SSELU1T AND SSELU2T				
1	HEX	F3	SSETYPF3	LOGICAL UNIT
CONSTANT FOR SSEACTON				

Len	Type	Value	Name	Description
1	HEX	01	SSENORML	NORMAL
1	HEX	02	SSEPREST	PRIMARY HALF SESSION WILL RESTART NOTE - IGNORED BY VTAM 4.2
1	HEX	03	SSESREST	SECONDARY HALF SESSION WILL RESTART NOTE - IGNORED BY VTAM 4.2

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSSERU	0		1
SSEACTON	5		3
SSECAT	1		4
SSECAUSE	4		3
SSEFORMAT	3	80	4
SSEHDR	0		3
SSEINFRM	3		3
SSEKEY	7		2
SSEKEYTP	6		2
SSELU1LN	8		3
SSELU1NM	9		3
SSELU1T	7		3
SSELU2	0		1
SSELU2LN	1		2
SSELU2NM	2		2
SSELU2T	0		2
SSEPLUNA	7		2
SSEREQCD	2		4
SSERSV00	3	08	4
SSERU	0		2
SSESKEY	7		1
SSESLUNA	9		2
SSESST	0		4



## Session Started RU (SSSRU)

<b>Function:</b>	The PLU sends SSSRU, with no response requested, to notify the SSCP that the session between the specified LUs was successfully activated.
<b>RU Header:</b>	X'810686' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTSSSRU	
0	(0)	CHARACTER	3	SSSHDR	COMMON HEADER FOR NETWORK SERVICES RUS
0	(0)	CHARACTER	1	SSSSST	LOGICAL OR PHYSICAL RU TYPE
1	(1)	CHARACTER	1	SSSCAT	NS SUBTYPE-CDRM INDICATOR
2	(2)	CHARACTER	1	SSSREQCD	REQUEST CODE
3	(3)	CHARACTER	1	SSSFMT	FORMAT ID
4	(4)	CHARACTER	1	SSSDAREA	DATA AREA
4	(4)	CHARACTER	1	SSSSKEY	SESSION KEY TYPE
5	(5)	CHARACTER	*	SSSDATA	DATA

MAPPING FOR SESSION KEY-06  
MAPPING FOR LU1 (PLU) NETWORK NAME OF PAIR

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
5	(5)	STRUCTURE	2	SSSSPRNM	SESSION KEY 06 DATA
5	(5)	CHARACTER	1	SSSSLU1	RESOURCE TYPE
6	(6)	UNSIGNED	1	SSSLU1LN	LU1 (PLU) LENGTH
7	(7)	CHARACTER	*	SSSLU1NM	LU1 (PLU) NAME

MAPPING FOR LU2 (SLU) NETWORK NAME OF PAIR

0	(0)	STRUCTURE	2	SSSSLU2	
0	(0)	CHARACTER	1	SSSSLU2T	RESOURCE TYPE
1	(1)	UNSIGNED	1	SSSLU2LN	LU2 (SLU) LENGTH
2	(2)	CHARACTER	*	SSSLU2NM	LU2 (SLU) NAME

MAPPING FOR SESSION KEY-07

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
5	(5)	STRUCTURE	4	SSSKEY	SESSION KEY 07 DATA AREA
5	(5)	CHARACTER	2	SSSPLUNA	PLU NETWORK ADDRESS
7	(7)	CHARACTER	2	SSSSLUNA	SLU NETWORK ADDRESS

## Constants

Len	Type	Value	Name	Description
CONSTANT FOR SSSHDR - SESSION STARTED				
3	HEX	810686	SSSHDR	81 - NETWORK SERVICES, LOGICAL SERVICES 06 - SESSION SERVICES 86 - SESSION STARED
CONSTANT FOR FORMAT ID BYTE (SSSFMT)				
1	HEX	00	SSSFMT0	FORMAT 0
1	HEX	01	SSSFMT1	FORMAT 1
CONSTANT FOR SESSION KEY TYPE BYTE (SSSKEY)				
1	HEX	06	SSSKEY6	PAIRED NETWORK NAMES
1	HEX	07	SSSKEY7	PAIRED NETWORK ADDRESSES
1	HEX	15	SSSKEY15	QUALIFIED NETWORK ADDRESS PAIR SESSION KEY
CONSTANT FOR SSSSLU1 AND SSSSLU2T				
1	HEX	F3	SSSF3	LOGICAL UNIT

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSSSRU	0		1
SSSCAT	1		3
SSSDAREA	4		2
SSSDATA	5		3
SSSFMT	3		2
SSSHDR	0		2
SSSKEY	5		1
SSSLU1LN	6		2
SSSLU1NM	7		2
SSSLU2LN	1		2
SSSLU2NM	2		2
SSSPLUNA	5		2
SSSREQCD	2		3
SSSKEY	4		3
SSSSLUNA	7		2
SSSSLU1	5		2
SSSSLU2	0		1
SSSSLU2T	0		2
SSSSPRNM	5		1
SSSSST	0		3



## Switch RU (SWTRU)

<b>Function:</b>	SWTRU provides a mapping for the switch RU.
<b>RU Header:</b>	X'33' (request code)
<b>RU Type:</b>	SC

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTSWTRU	SWITCH RU
0	(0)	CHARACTER	1	SWTCODE	REQUEST CODE
1	(1)	BITSTRING	1	*	RESERVED - NOT AVAILABLE
		1111 ....		SWTTYPE	SWITCH REQUEST TYPE
		.... 1111		SWTSTATE	SWITCH REQUEST STATE

### Constants

Len	Type	Value	Name	Description
VALUE FOR SWTCODE				
1	HEX	33	SWTREQRU	SWITCH REQUEST CONSTANT IS X'33'
VALUE FOR SWTTYPE				
0	BIT	0001	SWTCOND	SESSION STATE IS CONDITIONAL
0	BIT	0010	SWTFORCE	SESSION STATE IS FORCED
VALUES FOR SWTSTATE				
0	BIT	0001	SWTBAKUP	PRIMARY PLU IS READY TO BECOME BACKUP-PLU
0	BIT	0010	SWTPRIUP	BACKUP PLU IS READY TO BECOME PRIMARY-PLU

RU

## Terminate Other RU (TMORU)

<b>Function:</b>	TMORU requests that the SSCP assist in terminating session(s) between the two LUs named in the RU. The requestor may be a third-party LU or one of the two named RUs.
<b>RU Header:</b>	X'810682' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	ISTTMORU		
0	(0)	CHARACTER	3	TMOHDR	Terminate other RU header	
3	(3)	BITSTRING	1	TMOFMTFD	Format field	
		1111 ....		TMOFMT	Ru format	
		.... 1111		*	Reserved	
4	(4)	BITSTRING	1	TMOSPEC	Specifications for terminate request	
		11.. ....		TMOSCOPE	Scope of termination request. What sessions are affected. Possible values: TMOACTPD (00) - Active and pending sessions TMOALL (01) - All sessions TMOQUED (10) - Queued sessions TMOQUEPD (11) - Queued and pending sessions	
		..1. ....		TMOORFOR	Orderly or forced termination flavor Reserved if TMOCLNUP = 1. Possible values: TMOORDLY (1) - Orderly terminate TMOFORCE (0) - Forced terminate	
		...1 ....		TMOLAST1	There will be no more sessions for LU1. (1) - Last session for LU1	
		.... 1...		TMOLAST2	There will be no more sessions for LU2. (1) - Last session for LU2	
		.... .11.		TMOPOLAR	LU polarity. Indicates what sessions are effected. Possible values: TMOL1PLU (00) - LU1 is PLU, LU2 is SLU TMOL1SLU (01) - LU1 is SLU, LU2 is PLU TMOL1LU (10) - LU1 is PLU or SLU, LU2 is PLU or SLU (LUs are NON-POLAR) RESERVED (11) - NOT AVAILABLE	
5	(5)	BITSTRING	1	TMOCLNUP	Cleanup flavor of terminate (1) - Cleanup terminate	
		.... ...1		TMOREASN	Termination reason	
		1... ....		TMOORIGN	Termination originator Possible values: TMOMANGR (1) - Network manager TMOUSER (0) - Network user	
		.1.. ....		TMOTTYPE	Termination type Possible values: TMOABNOR (1) - Abnormal TMONRMAL (0) - Normal For forced and cleanup flavor termination, TMOORIGN and TMOTTYPE is used by LUS to determine how to notify the PLU application of session termination and determines the correct return code to be used when posting the application's I/O when a session terminates.	
6	(6)	BITSTRING	1	* TMONTSPC	RESERVED Notify specifications	
		1111 11..		* TMONOTFY	RESERVED Is notification needed Possible values: (1) - YES, notify terminate requestor (0) - NO, Do not notify terminate requestor	
		.... ...1		* TMOSPECX	RESERVED Specification extention. Additional information.	
7	(7)	BITSTRING	1	TMONORML	Normal flavor terminate (1) - Normal flavor terminate	
		1... ....		TMOINTRN	Internal flavor terminate (1) - Internal terminate	
		.1.. ....		TMOSPECL	Special termination (1) - Terminate queued sessions where the LU is the OLU for the session	
8	(8)	CHARACTER	*	* TMOSKEY	Available Imbedded Session key	

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	TMOKEY	Mapping to the length portion of a normal session key

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	CHARACTER	1	TMOKEYID	Session key identifier
0	(0)	STRUCTURE	3	TMOREST	Rest of RU (After the imbedded session key)
0	(0)	CHARACTER	2	*	RESERVED
2	(2)	CHARACTER	1	TMOURCLN	Length of the URC
3	(3)	CHARACTER	*	TMOURC	User request correlator (URC)

**Constants**

Len	Type	Value	Name	Description
Constant for the Terminate Other header (TMOHDR)				
3	HEX	810682	TMOHDRC	
Constant for the Terminate Other format (TMOFMT)				
0	BIT	0001	TMOFMT1	Format 1
Constants for the termination scope (TMOSCOPE)				
0	BIT	00	TMOACTPD	Active and pending sessions
0	BIT	01	TMOALL	All sessions
0	BIT	10	TMOQUED	Queued sessions
0	BIT	11	TMOQUEPD	Queued and pending sessions
Constants for the termination flavor (TMOORFOR)				
0	BIT	1	TMOORDLY	Orderly termination request
0	BIT	0	TMOFORCE	Forced termination request
Constants for the termination polarity (TMOPOLAR)				
0	BIT	00	TMOL1PLU	LU1 is the PLU
0	BIT	01	TMOL1SLU	LU1 is the SLU
0	BIT	10	TMOL1LU	LU1 is the PLU or the SLU Polarity does not matter
Constants for the termination originator (TMOORGIN)				
0	BIT	1	TMOMANGR	Network manager
0	BIT	0	TMOUSER	Network user
Constants for the termination type (TMOTTYPE)				
0	BIT	1	TMOABNOR	Abnormal
0	BIT	0	TMONRMAL	Normal

RU

**Cross Reference**

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTTMORU	0		1	TMOSPECX	7		2
TMOCLNUP	4	01	3	TMOTTYPE	5	40	3
TMOFMT	3	80	3	TMOURC	3		2
TMOFMTFD	3		2	TMOURCLN	2		2
TMOHDR	0		2				
TMOINTRN	7	40	3				
TMOKEY	0		1				
TMOKEYID	0		2				
TMOLAST1	4	10	3				
TMOLAST2	4	08	3				
TMONORML	7	80	3				
TMONOTFY	6	02	3				
TMONTSPC	6		2				
TMOORFOR	4	20	3				
TMOORIGN	5	80	3				
TMOPOLAR	4	04	3				
TMOREASN	5		2				
TMOREST	0		1				
TMOSCOPE	4	80	3				
TMOSKEY	8		2				
TMOSPEC	4		2				
TMOSPECL	7	20	3				



## Translate Inquiry RU (TRINQ)

<b>Function:</b>	TRINQ serves as input to the alias application to perform the translation request.
<b>RU Header:</b>	X'3F0814' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTRINQ	Translate Inquiry
0	(0)	CHARACTER	3	TRIHDR	FMD Header
3	(3)	CHARACTER	5	TRICNMHD	CNM Header
3	(3)	CHARACTER	2	TRIRSV1	Reserved
5	(5)	CHARACTER	2	TRICORR	Correlator
		1111 ....	*		Reserved
5	(5)	BITSTRING	1	TRIPRID	Procedure Correlator (PRID)
7	(7)	CHARACTER	1	TRIFT	Flags
		1... ....		TRISOL	0 - Unsolicited 1 - Solicited
		.1.. ....		TRILAST	0 - Last Request 1 - Not last Request
		..11 1111	*		Reserved
8	(8)	UNSIGNED	2	TRICNT	Number of included vectors
10	(A)	CHARACTER	4	*	Reserved
14	(E)	CHARACTER	*	TRIDATA	Translate Request Data

Each translate request is respresented as one count in the TRICNT field. The request data structure is represented by the substructures of TRIRQDAT, TRIN1, AND TRIN2

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	TRIRQDAT	Request vector data
0	(0)	UNSIGNED	1	TRIRQLEN	Length of request (includes TRIRQDAT, TRIN1, AND TRIN2
1	(1)	CHARACTER	4	TRIINPUT	Input name characteristics
1	(1)	CHARACTER	1	*	Reserved
2	(2)	UNSIGNED	1	TRIRQCLS	Input name class (REAL or ALIAS)
3	(3)	CHARACTER	1	TRIINTYP	Input name type (LU, COS, or LOGMODE)
4	(4)	UNSIGNED	1	TRIINLEN	Length of input name
5	(5)	CHARACTER	*	TRIINNAM	Name to be translated

TRIN1 specifies the network in which TRIINNAM is defined

0	(0)	STRUCTURE	2	TRIN1	Netid of name to be translated
0	(0)	CHARACTER	1	TRIN1TYP	Type NETID
1	(1)	UNSIGNED	1	TRIN1LEN	Length of network ID
2	(2)	CHARACTER	*	TRIN1NAM	Network in which TRIINNAM is known

TRIN2 specifies the network for which the translated data is desired. For CLASS=ALIAS, the network will be omitted indicating for Alias to determine the real network for the specified name

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	TRIN2	Specific network for which name is to be determined
0	(0)	CHARACTER	1	TRIN2TYP	Type NETID
1	(1)	UNSIGNED	1	TRIN2LEN	Length of network ID
2	(2)	CHARACTER	*	TRIN2NAM	Network ID for which information is to be determined (omitted if Alias is to determined applicable network ID

RU

**Constants**

Len	Type	Value	Name	Description
Constant for RU header				
3	HEX	3F0814	TRIHDR	
Constants for request class (TRITRCLS)				
1	HEX	00	TRIALIAS	Input name is alias name
1	HEX	01	TRIREAL	Input name is real name
Constants for request type (TRIINTYP, TRI1TYP, TRI2TYP)				
1	HEX	F3	TRITPLU	Resource name (LU)
1	HEX	FB	TRITPCOS	Class Of Service name
1	HEX	FD	TRITPLOG	Logmode name
1	HEX	FE	TRITPNID	Network ID

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTTRINQ	0		1
TRICNMHD	3		2
TRICNT	8		2
TRICORR	5		3
TRIDATA	E		2
TRIFT	7		3
TRIHDR	0		2
TRIINLEN	4		3
TRIINNAM	5		3
TRIINPUT	1		2
TRIINTYP	3		3
TRILAST	7	40	4
TRIN1	0		1
TRIN1LEN	1		2
TRIN1NAM	2		2
TRIN1TYP	0		2
TRIN2	0		1
TRIN2LEN	1		2
TRIN2NAM	2		2
TRIN2TYP	0		2
TRIPRID	5		4
TRIRQCLS	2		3
TRIRQDAT	0		1
TRIRQLEN	0		2
TRIRSV1	3		3
TRISOL	7	80	4

RU

## Translate Reply RU (TRPLY)

<b>Function:</b>	TRPLY is a reply from the alias application in response to a TRINQ request to perform translations.
<b>RU Header:</b>	X'3F0816' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTTRPLY	Translate Reply RU
0	(0)	CHARACTER	3	TRPHDR	FMD header
3	(3)	CHARACTER	5	TRPCNMHD	CNM header
3	(3)	CHARACTER	2	*	Reserved
5	(5)	CHARACTER	2	TRPCORR	Correlator
		1111 ....		*	Reserved
5	(5)	BITSTRING	1	TRPPRID	Procedure Correlator (PRID)
7	(7)	CHARACTER	1	TRPFT	Flags
		1... ....		TRPSOL	0 - Unsolicited request 1 - Solicited request
		.1.. ....		TRPLAST	0 - Last request 1 - Not last request
		..11 1111		*	Reserved
8	(8)	UNSIGNED	2	TRPCNT	Number of reply vectors
10	(A)	CHARACTER	4	TRPSEN	Sense code for reply - this applies to entire reply
14	(E)	CHARACTER	*	TRPDATA	Reply vectors

Each translate reply is represented as one count in the TRPCNT field. The response data structure is represented by the substructures of TRPRPDAT, TRPN1, TRPN2, TRPOUTPT, and TRPDSTNM

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	TRPRPDAT	Reply vector mapping
0	(0)	UNSIGNED	1	TRPRPLNG	Length of vector (includes TRPRPDAT, TRPN1, TRPN2, TRPOUTPT, and TRPDSTNM)
1	(1)	CHARACTER	4	TRPREPLY	Reply name characteristics
1	(1)	CHARACTER	1	*	Reserved
2	(2)	UNSIGNED	1	TRPRQCLS	Class of input name
3	(3)	CHARACTER	1	TRPINTYP	Type of input name
4	(4)	UNSIGNED	1	TRPINLEN	Length of input name
5	(5)	CHARACTER	*	TRPINNAM	Name for which translate was requested

Network in which name for which translate was requested is defined. This was specified on Translate Inquiry

0	(0)	STRUCTURE	2	TRPN1	Netid of TRPINNAM
0	(0)	CHARACTER	1	TRPN1TYP	Type Network ID
1	(1)	UNSIGNED	1	TRPN1LEN	Length of network ID
2	(2)	CHARACTER	*	TRPN1NAM	Network ID of TRPINNAM

Network in which the translated name is known. If specified on Translate Inquiry the netid is from Translate Inquiry corresponding field otherwise it is the netid as determined by Alias

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	TRPN2	Translated name netid
0	(0)	CHARACTER	1	TRPN2TYP	Type Network ID
1	(1)	UNSIGNED	1	TRPN2LEN	Length of network ID
2	(2)	CHARACTER	*	TRPN2NAM	Netid of translated name

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
Translated name associated with TRPN2. Note that the sense code specifies the status of this vector only					
0	(0)	STRUCTURE	6	TRPOUTPT	
0	(0)	CHARACTER	4	TRPRPSEN	Sense code for this vector
4	(4)	CHARACTER	1	TRPRPTYP	Translated name type
5	(5)	UNSIGNED	1	TRPRPLEN	Length of translated name
6	(6)	CHARACTER	*	TRPRPNAM	Translated name
Owning SSCP associated with translated name if the name is of type LU					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	TRPDSTNM	
0	(0)	CHARACTER	1	TRPDSTYP	Type SSCP
1	(1)	UNSIGNED	1	TRPDSLEN	Length of SSCP name
2	(2)	CHARACTER	*	TRPDSNAM	Owning SSCP name

### Constants

Len	Type	Value	Name	Description
Translate Reply FMD header				
3	HEX	3F0816	TRPHDRC	
Name class (TRPCLS)				
1	HEX	00	TRPALIAS	Input name is alias
1	HEX	01	TRPREAL	Input name is real
Translate request type				
1	HEX	F3	TRPTPLU	Resource name (LU)
1	HEX	F4	TRPTPSCP	SSCP name
1	HEX	FB	TRPTPCOS	Class of Service
1	HEX	FD	TRPTPLOG	LOGMODE
1	HEX	FE	TRPTPNID	Network ID

RU

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTTRPLY	0		1	TRPOUTPT	0		1
TRPCNMHD	3		2	TRPPRID	5		4
TRPCNT	8		2	TRPREPLY	1		2
TRPCORR	5		3	TRPRPDAT	0		1
TRPDATA	E		2	TRPRPLEN	5		2
TRPDSLEN	1		2	TRPRPLNG	0		2
TRPDSNAM	2		2	TRPRPNAM	6		2
TRPDSTNM	0		1	TRPRPSEN	0		2
TRPDSTYP	0		2	TRPRPTYP	4		2
TRPFT	7		3	TRPRQCLS	2		3
TRPHDR	0		2	TRPSEN	A		2
TRPINLEN	4		3	TRPSOL	7	80	4
TRPINNAM	5		3				
TRPINTYP	3		3				
TRPLAST	7	40	4				
TRPN1	0		1				
TRPN1LEN	1		2				
TRPN1NAM	2		2				
TRPN1TYP	0		2				
TRPN2	0		1				
TRPN2LEN	1		2				
TRPN2NAM	2		2				
TRPN2TYP	0		2				

## Route Test RU (TRTRU)

<b>Function:</b>	TRTRU requests the PU services manager to return the status (for example, active, operative, not defined), as known in the control blocks in the node, of various explicit or virtual routes.
<b>RU Header:</b>	X'410307' (NS header)
<b>RU Type:</b>	FMD

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	35	ISTTRTRU	NS_ROUTE_TEST REQUEST UNIT	
0	(0)	CHARACTER	3	TRTHDR	REQUEST CODE FIELD (FMD RU)	
3	(3)	CHARACTER	2	TRTNAD	NETWORK ADDRESS OF PU	
5	(5)	CHARACTER	1	TRTFMT	FORMAT IDENTIFIER	
6	(6)	UNSIGNED	1	TRTTYP	TEST TYPE CODE	
7	(7)	UNSIGNED	1	TRTRTQ	CHOICE OF ROUTES TO BE TESTED	
8	(8)	BITSTRING	1	TRTTP	TRANSMISSION PRIORITY	
		1111 11..		*	RESERVED	
		.... ..11		TRTTPF	TRANSMISSION PRIORITY FIELD - RESERVED IF TRTTYP = X'04'	
9	(9)	BITSTRING	1	TRTRTDATA	FLAG BYTE	
		1... ....		TRTCNFIG	0 - COLLECT CONFIGURATION DATA 1 - DO NOT COLLECT CONFIGURATION DATA	
		.1.. ....		TRTCNGES	0 - DO NOT COLLECT CONGESTION DATA 1 - COLLECT CONGESTION DATA	
		..1. ....		TRTRSFMT	VR DATA COLLECTION INDICATOR 0 - SEND FORMAT 1 RSP(ROUTE-TEST) 1 - SEND FORMAT 2 RSP(ROUTE-TEST)	
		...1 1111		*	RESERVED	
10	(A)	UNSIGNED	1	TRTMAX	MAXIMUM EXPLICIT ROUTE LENGTH	
11	(B)	CHARACTER	4	TRTDSA	DESTINATION SUBAREA NUMBER	
15	(F)	BITSTRING	2	TRTMSK	ER OR VR ROUTE MASK	
17	(11)	CHARACTER	10	TRTURC	USER REQUEST CORRELATOR	
27	(1B)	CHARACTER	8	TRTNETID	NETWORK ID OF THE ROUTE TO BE TESTED	

### NS\_ROUTE\_TEST RESPONSE UNIT MAP

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	1	TRTRSP	NS_ROUTE_TEST RESPONSE UNIT	
0	(0)	CHARACTER	1	TRTRFMT	FORMAT IDENTIFIER	
1	(1)	CHARACTER	*	TRTRDATA	DATA AREA FOR RESPONSE UNIT	
DATA AREA FOR FORMAT 1 ROUTE TEST						
0	(0)	STRUCTURE	1	TRTRFMT1	FORMAT 1 DATA AREA	
0	(0)	UNSIGNED	1	TRTCNT	COUNT OF ROUTE STATUS FIELDS	
1	(1)	CHARACTER	*	TRTRSF	ROUTE STATUS FIELDS, ONE FOR EACH ROUTE, MAPPED BY TRTSTA	
DATA AREA FOR FORMAT 2 ROUTE TEST						
0	(0)	STRUCTURE	12	TRTADATA	ADDITIONAL DATA	
0	(0)	SIGNED	4	TRTSAADD	SUBAREA ADDRESS AT THE ROUTE ORIGIN	
4	(4)	CHARACTER	8	TRTNID	NETWORK ID	
DATA AREA FOR FORMAT 2 ROUTE TEST						
0	(0)	STRUCTURE	13	TRTRFMT2	FORMAT 2 DATA AREA	
0	(0)	CHARACTER	1	*	RESERVED	
1	(1)	CHARACTER	4	TRTF2SA	SUBAREA ADDRESS OF ROUTE ORIGIN	
5	(5)	CHARACTER	8	TRTF2NID	NETWORK ID	
13	(D)	CHARACTER	*	TRTF2CV	CONTROL VECTORS (3A OR 3B)	

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
ROUTE STATUS FIELD (ONE FOR EACH ROUTE)					

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	TRTSTA	ROUTE STATUS FIELD
0	(0)	CHARACTER	1	TRTVRID	VIRTUAL ROUTE IDENTIFIER
		1111 ....		TRTVRN	VIRTUAL ROUTE NUMBER
		.... 11..		*	RESERVED
		.... ..11		TRTTPI	TRANSMISSION PRIORITY INDICATOR
1	(1)	UNSIGNED	1	TRTVRS	VIRTUAL ROUTE STATUS
2	(2)	UNSIGNED	1	TRTERN	EXPLICIT ROUTE NUMBER
		1111 ....		*	RESERVED
3	(3)	UNSIGNED	1	TRTERS	EXPLICIT ROUTE STATUS
4	(4)	SIGNED	4	TRTOASAS	SUBAREA OF NODE ADJACENT TO ORIGIN SUBAREA OF ROUTE BEING REPORTED
8	(8)	UNSIGNED	1	TRTTGNS	TRANSMISSION GROUP NUMBER FOR TG TO THE NODE IDENTIFIED IN TRTOASAS FOR THE ER BEING REPORTED
9	(9)	UNSIGNED	1	*	RESERVED

## Constants

Len	Type	Value	Name	Description
3	HEX	410307	TRTRCD	NS_ROUTE_TEST REQUEST CODE
CONSTANTS FOR FORMAT IDENTIFIERS (TRTFMT, TRTSFMT)				
1	HEX	01	TRTF01	FORMAT 1 TYPE CODE
1	HEX	02	TRTF02	FORMAT 2 TYPE CODE
CONSTANTS FOR TEST TYPE CODE (TRTTYP)				
4	DECIMAL	1	TRTUNC	TEST REGARDLESS OF ER STATE
4	DECIMAL	2	TRTNIN	TEST EACH ER THAT IS NOT INOPERATIVE
4	DECIMAL	3	TRTINO	TEST EACH ER THAT IS INOPERATIVE
4	DECIMAL	4	TRTNOT	DO NOT TEST ER (PROVIDE STATUS ONLY)
CONSTANTS FOR TRANSMISSION PRIORITY (TRTTPF)				
0	BIT	00	TRTTP0	LOW PRIORITY
0	BIT	01	TRTTP1	MEDIUM PRIORITY
0	BIT	10	TRTTP2	HIGH PRIORITY
CONSTANTS FOR ROUTE TYPE QUALIFIER (TRTRTQ)				
4	DECIMAL	1	TRTTER	TRTMSK = EXPLICIT ROUTE MASK
4	DECIMAL	2	TRTTVR	TRTMSK = VIRTUAL ROUTE MASK
4	DECIMAL	3	TRTTDER	TRTMSK = TEST ONLY DEFINED ERS NOT USED BY VTAM
CONSTANTS FOR VIRTUAL ROUTE STATUS (TRTVRS)				
4	DECIMAL	0	TRTUND	VIRTUAL ROUTE IS UNDEFINED
4	DECIMAL	1	TRTINA	VIRTUAL ROUTE IS INACTIVE
4	DECIMAL	2	TRTEAP	ER_ACT SENT (NOT SET BY VTAM)
4	DECIMAL	3	TRTVAP	ACTVR SENT, RSP(ACTVR) NOT RECEIVED (VR PENDING ACTIVE)
4	DECIMAL	4	TRTPVR	ACTVR RECEIVED, RSP(ACTVR) NOT SENT (NOT SET BY VTAM)
4	DECIMAL	5	TRTPIN	DACTVR(ORDERLY) SENT, RSP(DACTVR) NOT RECEIVED (PENDING INACTIVE)
4	DECIMAL	6	TRTFIP	DACTVR(ORDERLY) RECEIVED, RSP(DACTVR) NOT SENT (FLUSH IN PROGRESS--SECONDARY OR MIGRATION)
4	DECIMAL	7	TRTDFR	DACTVR(FORCED) RECEIVED, RSP(DACTVR) NOT SENT (NOT SET BY VTAM)
4	DECIMAL	8	TRTDFS	DACTVR(FORCED) SENT, RSP(DACTVR) NOT RECEIVED (NOT SET BY VTAM)

Len	Type	Value	Name	Description
4	DECIMAL	9	TRTVRA	VIRTUAL ROUTE IS ACTIVE (OR FLUSH IN PROGRESS--PRIMARY)
4	DECIMAL	10	TRTVRB	VIRTUAL ROUTE IS BLOCKED
4	DECIMAL	0	TRTEUN	EXPLICIT ROUTE IS UNDEFINED
4	DECIMAL	1	TRTEIN	EXPLICIT ROUTE IS INOPERATIVE
4	DECIMAL	2	TRTEOP	EXPLICIT ROUTE IS OPERATIVE, BUT NOT ACTIVE
4	DECIMAL	3	TRTEPA	ER_ACT SENT, ER_ACT_REPLY NOT RECEIVED (ER PENDING ACTIVE)
4	DECIMAL	4	TRTEAR	ER_ACT RECEIVED, ER_ACT_REPLY NOT SENT (NOT SET BY VTAM)
4	DECIMAL	5	TRTARO	EXPLICIT ROUTE IS ACTIVE - ER_ACT RECEIVED AND ER_ACT_REPLY SENT, AND ER_ACT SENT BUT NO ER_ACT_REPLY RECEIVED
4	DECIMAL	6	TRTAND	ER_ACT RECEIVED FOR UNDEFINED ER
4	DECIMAL	7	TRTARV	EXPLICIT ROUTE IS ACTIVE - ER_ACT RECEIVED AND ER_ACT_REPLY SENT, BUT NO ER_ACT SENT
4	DECIMAL	8	TRTERA	EXPLICIT ROUTE IS ACTIVE - ER_ACT SENT AND ER_ACT_REPLY RECEIVED
4	DECIMAL	9	TRTOND	ER_OP RECEIVED FOR UNDEFINED ER
4	DECIMAL	10	TRTMIG	EXPLICIT ROUTE IS ACTIVE, MIGRATION

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTTRTRU	0		1
TRTADATA	0		1
TRTCNFIG	9	80	3
TRTCNGES	9	40	3
TRTCNT	0		2
TRTDSA	B		2
TRTERN	2		2
TRTERS	3		2
TRTFMT	5		2
TRTF2CV	D		2
TRTF2NID	5		2
TRTF2SA	1		2
TRTHDR	0		2
TRTMAX	A		2
TRTMSK	F		2
TRTNAD	3		2
TRTNETID	1B		2
TRTNID	4		2
TRTOASAS	4		2
TRTRDATA	1		2
TRTRFMT	0		2
TRTRFMT1	0		1
TRTRFMT2	0		1
TRTRSF	1		2
TRTRSFMT	9	20	3
TRTRSP	0		1
TRTRTDTA	9		2
TRTRTQ	7		2
TRTSAADD	0		2
TRTSTA	0		1
TRTTGNS	8		2
TRTTP	8		2
TRTTPF	8	02	3
TRTTPI	0	02	3
TRTTYP	6		2
TRTURC	11		2
TRTVRID	0		2
TRTVRN	0	80	3
TRTVRS	1		2



## Terminate Self Format 0 RU (TS0RU)

<b>Function:</b>	TS0RU requests that the SSCP assist in the termination of one or more sessions between the sender of the request and the DLU.
<b>RU Header:</b>	X'010683' (NS header)
<b>RU Type:</b>	FMD

RU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	6	ISTTS0RU		
0	(0)	CHARACTER	3	TS0HDR	Terminate self format 0 header	
3	(3)	BITSTRING	1	TS0SPEC	Specifications for terminate request	
	11.. ....			TS0SCOPE	Scope of termination request. What session are affected.	
					Possible values: TS0ACTPD (00) - Active and pending sessions TS0ALL (01) - All sessions TS0QUED (10) - Queued sessions RESERVED (11) -	
				TS0ORFOR	Orderly or forced termination flavor Reserved if	
					TS0CLNUP = 1. Possible values: TS0ORDLY (1) - Orderly terminate TS0FORCE (0) - Forced terminate	
				TS0LAST1	There will be no more sessions for LU1. (1) - Last session for LU1	
				TS0CLNUP	Cleanup flavor of terminate (1) - Cleanup terminate	
				TS0POLAR	LU polarity. Indicates what sessions are affected. Possible values: TS0L2PLU (00) - LU2 is PLU, LU1 is SLU TS0L2SLU (01) - LU2 is SLU, LU1 is PLU TS0L2LU (10) - LU2 is PLU or SLU, LU1 is PLU or SLU (LUs are NON-POLAR) RESERVED (11) - Not available	
					Format indicator Possible values: (0) - Byte 3(this byte) is the specification byte and this is a format 0 RU	
				TS0FMTID	DLU name type Possible values: TS0LU (F3) - LU	
4	(4)	CHARACTER	1	TS0NTYPE	Length of the DLU name	
5	(5)	UNSIGNED	1	TS0NAMLN	DLU name	
6	(6)	CHARACTER	*	TS0NAME		

### Constants

Len	Type	Value	Name	Description
Constant for the Terminate Self header (TS0HDR)				
3	HEX	010683	TS0HDRC	
Constants for the termination scope (TS0SCOPE)				
0	BIT	00	TS0ACTPD	Active and pending sessions
0	BIT	01	TS0ALL	All sessions
0	BIT	10	TS0QUED	Queued sessions
Constants for the termination flavor (TS0ORFOR)				
0	BIT	1	TS0ORDLY	Orderly termination request
0	BIT	0	TS0FORCE	Forced termination request
Constants for the termination polarity (TS0POLAR)				
0	BIT	00	TS0L2PLU	LU2 is the PLU
0	BIT	01	TS0L2SLU	LU2 is the SLU
0	BIT	10	TS0L2LU	LU2 is the PLU or the SLU Polarity does not matter
Constant for the DLU name type (TS0NTYPE)				
1	HEX	F3	TS0LU	The DLU is a logical unit



## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTTS0RU	0		1
TS0CLNUP	3	08	3
TS0FMTID	3	01	3
TS0HDR	0		2
TS0LAST1	3	10	3
TS0NAME	6		2
TS0NAMLN	5		2
TS0NTYPE	4		2
TS0ORFOR	3	20	3
TS0POLAR	3	04	3
TS0SCOPE	3	80	3
TS0SPEC	3		2



## Terminate Self Format 1 RU (TS1RU)

<b>Function:</b>	TS1RU requests that the SSCP assist in the termination of one or more sessions between the sender of the request and the DLU.
<b>RU Header:</b>	X'810683' (NS header)
<b>RU Type:</b>	FMD

RU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTTS1RU	
0	(0)	CHARACTER	3	TS1HDR	Terminate self format 1 header
3	(3)	BITSTRING	1	TS1FMFTD	Format field
		1111 ....		TS1FMT	Ru format
		.... 111.		*	Reserved
		.... ...1		TS1FMTID	Format indicator Possible values: (1) - Byte 3(this byte) is the format byte
4	(4)	BITSTRING	1	TS1SPEC	Specifications for terminate request
		11.. ....		TS1SCOPE	Scope of termination request. What sessions are affected. Possible values: TS1ACTPD (00) - Active and pending sessions TS1ALL (01) - All sessions TS1QUED (10) - Queued sessions RESERVED (11) -
		..1. ....		TS1ORFOR	Orderly or forced termination flavor Reserved if
		...1 ....		TS1LAST1	TS1CLNUP = 1. Possible values: TS1ORDLY (1) - Orderly terminate TS1FORCE (0) - Forced terminate
		.... 1..		*	There will be no more sessions for LU1. (1) - Last session for LU1
		.... .11.		TS1POLAR	RESERVED - Not available
		.... ...1		TS1CLNUP	LU polarity. Indicates what sessions are affected. Possible values: TS1L2PLU (00) - LU2 is PLU, LU1 is SLU
5	(5)	BITSTRING	1	TS1REASN	TS1L2SLU (01) - LU2 is SLU, LU1 is PLU TS1L2LU (10) -
		1... ....		TS1ORIGN	LU2 is PLU or SLU, LU1 is PLU or SLU (LUs are NON-POLAR) RESERVED (11) - Not available
		.1.. ....		TS1TTYPE	Cleanup flavor of terminate (1) - Cleanup terminate
		..11 1111		*	Termination reason
6	(6)	BITSTRING	1	TS1NTSPC	Termination originator Possible values: TS1MANGR (1) -
		1111 11..		*	Network manager TS1USER (0) - Network user
		.... ...1		TS1NOTFY	Termination type Possible values: TS1ABNOR (1) -
		.... ...1		*	Abnormal TS1NRMAL (0) - Normal For forced and cleanup
7	(7)	CHARACTER	1	*	flavor termination, TS1ORIGN and TS1TTYPE is used by
8	(8)	CHARACTER	*	TS1SKEY	LUS to determine how to notify the PLU application of
					session termination and determines the correct return
					code to be used when posting the application's I/O when
					a session terminates.
					RESERVED
					Notify specifications
					RESERVED
					RESERVED
					Is notification needed Possible values: (1) - YES, notify
					terminate requestor (0) - NO, Do not notify terminate
					requestor
					RESERVED
					RESERVED

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	TS1KEY	Mapping to the length portion of a normal session key
0	(0)	CHARACTER	1	TS1KEYID	Session key identifier

Mapping for reserved fields

0	(0)	STRUCTURE	1	TS1RSVD1	RETIRED
0	(0)	UNSIGNED	1	TS1RSL1	Length of data

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
1	(1)	CHARACTER	*	TS1RSD1	Variable data

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	TS1RSVD2	Retired
0	(0)	UNSIGNED	1	TS1RSL2	Length of data
1	(1)	CHARACTER	*	TS1RSD2	Variable data

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Mapping for User Request Correlator

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	TS1URCF	URC FIELD
0	(0)	UNSIGNED	1	TS1URCLN	Length of URC
1	(1)	CHARACTER	*	TS1URC	User request correlator (URC)

### Constants

Len	Type	Value	Name	Description
Constant for the Terminate Self header (TS1HDR)				
3	HEX	810683	TS1HDRC	
Constant for the format (TS1FMT)				
0	BIT	0001	TS1FMT1	Format 1
Constants for the termination scope (TS1SCOPE)				
0	BIT	00	TS1ACTPD	Active and pending sessions
0	BIT	01	TS1ALL	All sessions
0	BIT	10	TS1QUED	Queued sessions
Constants for the termination flavor (TS1ORFOR)				
0	BIT	1	TS1ORDLY	Orderly termination request
0	BIT	0	TS1FORCE	Forced termination request
Constants for the termination polarity (TS1POLAR)				
0	BIT	00	TS1L2PLU	LU2 is the PLU
0	BIT	01	TS1L2SLU	LU2 is the SLU
0	BIT	10	TS1L2LU	LU2 is the PLU or the SLU Polarity does not matter
Constants for the termination originator (TS1ORGIN)				
0	BIT	1	TS1MANGR	Network manager
0	BIT	0	TS1USER	Network user
Constants for the termination type (TS1TTYTYPE)				
0	BIT	1	TS1ABNOR	Abnormal
0	BIT	0	TS1NRMAL	Normal

RU

### Cross Reference

Name	Hex Offset	Hex Value	Level	Name	Hex Offset	Hex Value	Level
ISTTS1RU	0		1	TS1RSD1	1		2
TS1CLNUP	4	01	3	TS1RSD2	1		2
TS1FMT	3	80	3	TS1RSL1	0		2
TS1FMTFD	3		2	TS1RSL2	0		2
TS1FMTID	3	01	3	TS1RSVD1	0		1
TS1HDR	0		2	TS1RSVD2	0		1
TS1KEY	0		1	TS1SCOPE	4	80	3
TS1KEYID	0		2	TS1SKEY	8		2
TS1LAST1	4	10	3	TS1SPEC	4		2
TS1NOTFY	6	02	3	TS1TTYTYPE	5	40	3
TS1NTSPC	6		2	TS1URC	1		2
TS1ORFOR	4	20	3	TS1URCF	0		1
TS1ORIGN	5	80	3	TS1URCLN	0		2
TS1POLAR	4	04	3				
TS1REASN	5		2				

**Unbind Failure RU (UBFRU)**

<b>Function:</b>	UBFRU is sent, with no-response requested, by the PLU to notify the SSCP that the attempt to deactivate the session between the specified LUS failed (for example, because of a path failure).
<b>RU Header:</b>	X'810687' (NS header)
<b>RU Type:</b>	FMD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	11	ISTUBFRU	
0	(0)	CHARACTER	8	UBFRU	SESSION SERVICES UNBIND FAIL MAP
0	(0)	CHARACTER	3	UBFHDR	COMMON HEADER FOR NETWORK SERVICES
0	(0)	CHARACTER	1	UBFSST	81-NETWORK SERVICES, LOGICAL SERVICES
1	(1)	CHARACTER	1	UBFCAT	06-SESSION SERVICES
2	(2)	CHARACTER	1	UBFREQ	87-REQUEST CODE
3	(3)	CHARACTER	4	UBFSENSE	SENSE DATA
7	(7)	CHARACTER	1	UBFREAS	REASON DATA
		1... ..		UBFRSV1	RESERVED-NOT AVAILABLE
		.1.. ....		UBFUERS	1 = UNBIND ERROR REACHING SLU
		..1. ....		UBFCREJ	1 = TAKEDOWN REJECT AT PLU
		...1 1111		UBFRSV2	RESERVED- NOT AVAILABLE
8	(8)	CHARACTER	1	UBFKEYTP	SESSION KEY TYPE
9	(9)	CHARACTER	2	UBFKEY	SESSION KEY
9	(9)	CHARACTER	1	UBFLU1TP	RESOURCE TYPE
10	(A)	UNSIGNED	1	UBFLU1LN	NETWORK NAME LENGTH FOR PLU
11	(B)	CHARACTER	*	UBFLU1NM	SYMBOLIC NAME FOR PLU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	UBFLU2FD	
0	(0)	CHARACTER	1	UBFLU2TP	SLU TYPE
1	(1)	UNSIGNED	1	UBFLU2LN	SLU NAME LENGTH
2	(2)	CHARACTER	*	UBFLU2NM	SLU NAME
9	(9)	STRUCTURE	8	UBFSKEY5	FOR SESSION KEY - PCID
9	(9)	CHARACTER	8	UBFRID	PCID

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
9	(9)	STRUCTURE	4	UBFSKEY	FOR SESSION KEY- ADDRESS PAIR
9	(9)	CHARACTER	2	UBFPLUNA	PLU NETWORK ADDRESS
11	(B)	CHARACTER	2	UBFSLUNA	SLU NETWORK ADDRESS

RU

## Constants

Len	Type	Value	Name	Description
CONSTANT FOR UBFHDR				
3	HEX	810687	UBFHDR	81-NETWORK SERVICES, LOGICAL SERVICES 06-SESSION SERVICES 87-REQUEST CODE
CONSTANT FOR UBFKEYTP-SESSION KEY TYPE				
1	HEX	05	UBFKEY5	PCID SESSION KEY
1	HEX	06	UBFKEY6	PAIR OF NETWORK NAMES
1	HEX	07	UBFKEY7	PAIRED NETWORK ADDRESSES
THE NETWORK QUALIFIED ADDRESS PAIR SESSION KEY (X'15' - ISTAPSK) IS SUPPORTED FOR THIS RU AND SHOULD BE BASED ON UBFKEYTP CONSTANT FOR UBFLU1TP & UBFLU2TP				
1	HEX	F3	UBFF3	LU TYPE

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTUBFRU	0		1
UBFCAT	1		4
UBFCREJ	7	20	4
UBFHDR	0		3
UBFKEY	9		2
UBFKEYTP	8		2
UBFLU1LN	A		3
UBFLU1NM	B		3
UBFLU1TP	9		3
UBFLU2FD	0		1
UBFLU2LN	1		2
UBFLU2NM	2		2
UBFLU2TP	0		2
UBFPLUNA	9		2
UBFREAS	7		3
UBFREQ	2		4
UBFRID	9		2
UBFRSV1	7	80	4
UBFRSV2	7	10	4
UBFRU	0		2
UBFSSENSE	3		3
UBFSKEY	9		1
UBFSKEY5	9		1
UBFSLUNA	B		2
UBFSST	0		4
UBFUERS	7	40	4



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**UNBIND RU (UNB)**

<b>Function:</b>	UNBIND is used to deactivate an active session between two logical units.
<b>RU Header:</b>	X'32' (request code)
<b>RU Type:</b>	SC
<b>Additional Note:</b>	For mapping, see RU.

## Activate Virtual Route RU (VRARU)

<b>Function:</b>	VRARU initializes the state and attributes of the VR at each of its end nodes.
<b>RU Header:</b>	X'0D' (request code)
<b>RU Type:</b>	NC

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	19	ISTVRARU	ACTIVATE VIRTUAL ROUTE RU	
0	(0)	CHARACTER	1	VRAHDR	REQUEST CODE FIELD (NC RU)	
1	(1)	CHARACTER	2	VRAR00	RESERVED - NOT AVAILABLE	
3	(3)	CHARACTER	1	VRAFMT	FORMAT IDENTIFIER	
4	(4)	CHARACTER	1	VRAR01	RESERVED - NOT AVAILABLE	
5	(5)	BITSTRING	2	VRARERM	RECEIVE ERN MASK	
7	(7)	BITSTRING	2	VRASERM	SEND ERN MASK	
9	(9)	CHARACTER	2	VRASSEQ	INITIAL VR SEND SEQUENCE NUMBER	
		1111 ....		*	RESERVED - NOT AVAILABLE	
9	(9)	BITSTRING	1	*	INITIAL VR SEND SEQUENCE NUMBER IN ARCHITECTURE	
11	(B)	CHARACTER	1	VRAR02	RESERVED - NOT AVAILABLE	
12	(C)	UNSIGNED	1	VRAMAXW	MAXIMUM VR PACING WINDOW SIZE	
13	(D)	CHARACTER	1	VRAR03	RESERVED - NOT AVAILABLE	
14	(E)	UNSIGNED	1	VRAMINW	MINIMUM VR PACING WINDOW SIZE	
15	(F)	CHARACTER	2	VRAMAXSP	MAXIMUM SEND PIU SIZE	
17	(11)	CHARACTER	2	VRAMAXRP	MAXIMUM RECEIVE PIU SIZE	

### Constants

Len	Type	Value	Name	Description
1	HEX	0D	VRARCD	ACTIVATE VR REQUEST CODE
CONSTANTS FOR FORMAT IDENTIFIERS (VRAFMT)				
1	HEX	01	VRAF01	TO INDICATE FORMAT = 1
CONSTANTS FOR RESERVED FIELDS				
2	HEX	0000	VRAZ00	TO VERIFY VRAR00 = 0
1	HEX	00	VRAZ01	TO VERIFY VRAR01 = 0
1	HEX	00	VRAZ02	TO VERIFY VRAR02 = 0
1	HEX	00	VRAZ03	TO VERIFY VRAR03 = 0

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTVRARU	0		1
VRAFMT	3		2
VRAHDR	0		2
VRAMAXRP	11		2
VRAMAXSP	F		2
VRAMAXW	C		2
VRAMINW	E		2
VRARERM	5		2
VRAR00	1		2
VRAR01	4		2
VRAR02	B		2
VRAR03	D		2
VRASERM	7		2
VRASSEQ	9		2

RU

**Deactivate Virtual Route RU (VRDRU)**

<b>Function:</b>	VRDRU deactivates a virtual route.
<b>RU Header:</b>	X'0E' (request code)
<b>RU Type:</b>	NC

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	5	ISTVRDRU	DEACTIVATE VIRTUAL ROUTE RU	
0	(0)	CHARACTER	1	VRDHDR	REQUEST CODE FIELD (NC RU)	
1	(1)	CHARACTER	2	VRDR00	RESERVED - NOT AVAILABLE	
3	(3)	CHARACTER	1	VRDFMT	FORMAT IDENTIFIER	
4	(4)	UNSIGNED	1	VRDTYP	TYPE OF DEACTIVATION REQUESTED	

**Constants**

Len	Type	Value	Name	Description
1	HEX	0E	VRDRCD	DEACTIVATE VR REQUEST CODE
CONSTANTS FOR FORMAT IDENTIFIERS (VRDFMT)				
1	HEX	01	VRDF01	TO INDICATE FORMAT = 1
4	DECIMAL	1	VRDORD	DEACTIVATION TYPE = ORDERLY
4	DECIMAL	2	VRDFRC	DEACTIVATION TYPE = FORCED
CONSTANTS FOR RESERVED FIELDS				
2	HEX	0000	VRDZ00	TO VERIFY VRDR00 = 0

RU



## Virtual Route Status RU (VRSRU)

<b>Function:</b>	VRSRU is used for VTAM internal intercomponent communication.
<b>RU Header:</b>	X'FFFF' (request code)
<b>RU Type:</b>	AMRU

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	9	ISTVRSRU	VIRTUAL ROUTE STATUS REQUEST UNIT	
0	(0)	CHARACTER	2	VRSHDR	REQUEST CODE FIELD (NC AMRU)	
2	(2)	UNSIGNED	1	VRSFCD	FUNCTION CODE (SEE BELOW)	
3	(3)	CHARACTER	4	VRSDSA	DESTINATION SUBAREA NUMBER	
7	(7)	CHARACTER	2	VRSVRID	VIRTUAL ROUTE IDENTIFIER	
7	(7)	UNSIGNED	1	VRSVRN	VIRTUAL ROUTE NUMBER	
8	(8)	UNSIGNED	1	VRSTPI	TRANSMISSION PRIORITY INDICATOR	

### Constants

Len	Type	Value	Name	Description
2	HEX	FFFF	VRSRCD	VR STATUS REQUEST CODE
CONSTANTS FOR FUNCTION CODE FIELD (VRSFCD)				
4	DECIMAL	0	VRSUSE	VIRTUAL ROUTE IS USABLE
4	DECIMAL	1	VRSNOU	VIRTUAL ROUTE IS NOT USABLE
4	DECIMAL	2	VRSINT	INITIATE VR LIST ACTIVATION



RU

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# Chapter 5. Session Keys and Control Vectors

## Vector and Session Key Table

The following table lists the control vectors and session keys that may be included in RUs. The **Hex Value** column shows the hex numbers present in the first byte of the vector or session key. The **Vector or Key Name** is the descriptive name of the vector or session key. The **VTAM Data Area** column lists the data area that maps VTAM's implementation of the vector or session key.

Hex Value	Vector or Key Name	VTAM Data Area
01	Date-Time	SCVRU
01	Network or Uninterpreted Name Session Key	K01
02	Subarea Routing	--
03	SDLC Secondary Station	SCVRU
04	LU	SCVRU
05	PCID Session Key	K05
05	Attention Timing Delay	SCVRU
06	Name Pair Session Key	K06
07	Network Address Pair Session Key	K07
08	Intensive Mode	MSVRU
09	Activation Request Sequence Identifier Vector	ARSI
0A	User Request Correlator	K0A
0B	SSCP-PU Capabilities Control Vector	VEC0B
0C	LU Capabilities Vector	SSV
0D	Class-of-Service and Virtual Route List Control Vector	V0D
0E	SNA Network Name Control Vector	V0E
0F	Link Capabilities and Status Control Vector	V0F
11	Load Module Correlator Control Vector	V11
12	Network Identifier Control Vector	V12
13	Gateway Support Capabilities Control Vector	GSCCV
14	Session Initiation Control Vector	SIV
15	Network-Qualified Address Pair Control Vector	NQAP
15	Network-Qualified Address Pair Session Key	APSK
16	Name Substitution Control Vector	NSCV
17	SSCP Identification Control Vector	SIC
18	SSCP Name Vector	SSCPN
19	Resource Identifier Control Vector	RIC
1A	NAU Address Control Vector	NAUA
1B	VRID List Control Vector	VRIDV
1C	Network-Qualified Name Pair Control Vector	V1C
1E	VR-ER Mapping Data Control Vector	V1E
1F	ER Test Results Configuration Data Control Vector	V1F
22	XID Negotiation Error Control Vector	V22
23	Local Session Identifier Control Vector	V23
24	IPL Load Module Request	--
25	Security Identification Control Vector	V25
29	Session State Data Control Vector	V29
2A	Session Information Control Vector	V2A
2C	COS and TPF Control Vector	V2C
2D	Mode Name Control Vector	V2D
2F	LU Definition Control Vector	V2F
30	Assign LU Characteristics Control Vector	V30
31	Bind Vector	V31
35	Extended Sense Data Control Vector	V35
38	Short-Hold Mode Emulation Control Vector	V38
3A	Route Status Data Control Vector	V3A
3B	VR Congestion Data Control Vector	V3B
42	Routing Data Control Vector	V42
43	SDLC Station Control Vector	V43
56	Call Security Verification Control Vector	V56

Hex Value	Vector or Key Name	VTAM Data Area
5E	Related Request Control Vector	V5E
60	Fully-Qualified PCID Control Vector	V60
80	DSA and NETID Data Control Vector	V80
81	Explicit Route Data Control Vector	V81
82	Virtual Route Data Control Vector	V82
83	Virtual Window Size Data Control Vector	V83
FE	Unrecognized Vector Keys	UNVEC

**Note:** An entry of "--" indicates there is no VTAM data area associated with that vector.

## Network or Uninterpreted Name Session Key (K01)

<b>Function:</b>	K01 provides a mapping for the network or uninterpreted name session key (key X'01').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	ISTK01	
0	(0)	CHARACTER	1	K01KEY	Session Key X'01'
1	(1)	CHARACTER	2	K01LU	
1	(1)	CHARACTER	1	K01TYPE	Name type Possible values: K01LU(F3) - LU Name
2	(2)	UNSIGNED	1	K01LEN	Length of the name
3	(3)	CHARACTER	*	K01NAME	The name

### Constants

Len	Type	Value	Name	Description
Constant for the KEY field (K01KEY)				
1	HEX	01	K01KEYC	KEY = 01
Constants for the session type field (K01TYPE)				
1	HEX	F3	K01LUC	LU name

## PCID Session Key (K05)

<b>Function:</b>	K05 provides a mapping for the PCID session key (key X'05').
<b>Size in bytes:</b>	9

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	9	ISTK05	
0	(0)	CHARACTER	1	K05KEY	Session Key X'05'
1	(1)	CHARACTER	8	K05PCID	PCID
1	(1)	CHARACTER	2	K05NETA	Network address of the SSCP generating this PCID
3	(3)	CHARACTER	6	K05CORR	Correlator generated by the SSCP initiating a cross domain procedure and used by all requests dealing with that procedure

### Constants

Len	Type	Value	Name	Description
Constant for the KEY field (K05KEY)				
1	HEX	05	K05KEYC	KEY = 05

SESSION KEY

## Name Pair Session Key (K06)

<b>Function:</b>	K06 provides a mapping for the name pair session key (key X'06').
<b>Size in bytes:</b>	Variable.

Offsets		Dec	Hex	Type	Len	Name (Dim)	Description
		0	(0)	STRUCTURE	3	ISTK06	
		0	(0)	CHARACTER	1	K06KEY	Session Key X'06'
		1	(1)	CHARACTER	2	K06LU1	
		1	(1)	CHARACTER	1	K06TYPE1	Name type of first name Possible values: K06LU(F3) - LU Name
		2	(2)	UNSIGNED	1	K06LEN1	Length of the first name
		3	(3)	CHARACTER	*	K06NAME1	The first name

Offsets		Dec	Hex	Type	Len	Name (Dim)	Description
		0	(0)	STRUCTURE	2	K06LU2	
		0	(0)	CHARACTER	1	K06TYPE2	Name type of second name Possible values: K06LU(F3) - LU Name
		1	(1)	UNSIGNED	1	K06LEN2	Length of the second name
		2	(2)	CHARACTER	*	K06NAME2	The second name

### Constants

Len	Type	Value	Name	Description
Constant for the KEY field (K06KEY)				
1	HEX	06	K06KEYC	KEY = 06
Constants for the session type field (K06STYPE)				
1	HEX	F3	K06LU	LU name

### Cross Reference

**SESSION KEY**

Name	Hex Offset	Hex Value	Level
ISTK06	0		1
K06KEY	0		2
K06LEN1	2		3
K06LEN2	1		2
K06LU1	1		2
K06LU2	0		1
K06NAME1	3		3
K06NAME2	2		2
K06TYPE1	1		3
K06TYPE2	0		2



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## Network Address Pair Session Key (K07)

<b>Function:</b>	K07 provides a mapping for the network address pair session key (key X'07').
<b>Size in bytes:</b>	5

### Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTK07	
0	(0)	CHARACTER	1	K07KEY	Session Key X'07'
1	(1)	CHARACTER	2	K07PLUA	Network address of the PLU
3	(3)	CHARACTER	2	K07SLUA	Network address of the SLU

### Constants

Len	Type	Value	Name	Description
Constant for the KEY field (K07KEY)				
1	HEX	07	K07KEYC	KEY = 07

---

## User Request Correlator (URC) Session Key (K0A)

<b>Function:</b>	K0A provides a mapping for the URC session key (key X'0A').
<b>Size in bytes:</b>	Variable.

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTK0A	
0	(0)	CHARACTER	1	K0AKEY	Session Key X'0A'
1	(1)	UNSIGNED	1	K0ALEN	Length of the URC
2	(2)	CHARACTER	*	K0AURC	The URC

**Constants**

Len	Type	Value	Name	Description
Constant for the KEY field (K0AKEY)				
1	HEX	0A	K0AKEYC	KEY = X'0A'

## SSCP-PU Capabilities Control Vector (VEC0B)

<b>Function:</b>	VEC0B provides a mapping for the SSCP-PU capabilities control vector (key X'0B').
<b>Size in bytes:</b>	6

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	6	ISTVEC0B	SSCP-PU CAPABILITIES VECTOR
0	(0)	CHARACTER	1	VEC0BKEY	VECTOR KEY X'0B'
1	(1)	UNSIGNED	1	VEC0BLNG	LENGTH IN BINARY OF DATA
2	(2)	CHARACTER	4	VEC0BDA	VECTOR DATA
2	(2)	CHARACTER	1	VEC0BYT1	VEC0B BYTE 1
		1... ....		VEC0BLSA	0 = NS.LSA REQUIRED 1 = NS.LSA NOT REQUIRED
		.1.. ....		VEC0BALS	0 = ADJ LINK STATION NETWORK ADDR NOT SUPPORTED 1 = ADJ LINK STATION NETWORK ADDR SUPPORTED
		...1. ....		VECGWCAP	0 = NO GATEWAY SUPPORT 1 = COMPONENT SUPPORTS THE GATEWAY FUNCTION
		...1 ....		VECLRTXN	0 = NOTIFICATION OF OTHER NET LOST ROUTE NOT SUPPORTED 1 = NOTIFICATION OF OTHER NET LOST ROUTE IS SUPPORTED
		.... 1...		VECLRTTN	0 = NOTIFICATION OF SAME NET LOST ROUTE NOT SUPPORTED 1 = NOTIFICATION OF SAME NET LOST ROUTE IS SUPPORTED
		.... .1..		VECCNTD	0 = CONTACTED TYPE X'09' NOT SUPPORTED, TYPE X'04' REQUIRED FOR LOADED CONDITION 1 = CONTACTED TYPE X'09' SUPPORTED
		.... ..1.		VEC0BENA	0 = NOT ENA CAPABLE 1 = ENA CAPABLE
		.... ...1		VEC0BT1	T2.1 NODE AND EXTENDED BIND SUPPORT INDICATOR 0 = T2.1 NODES AND EXTENDED BINDS NOT SUPPORTED 1 = T2.1 NODES AND EXTENDED BINDS SUPPORTED
3	(3)	CHARACTER	1	VEC0BYT2	VEC0B BYTE 2
		1... ....		VEC0BMLM	MULTIPLE LOAD MODULE (MLM) 0 = MLM NOT SUPPORTED 1 = MLM SUPPORTED
		.1.. ....		*	NOT USED
		..1. ....		VEC0BMPU	1 = MOVE PU SUPPORT
		...1 1...		*	NOT USED
		.... .1..		*	RESERVED
		.... ..1.		VEC0BSSC	SWITCHED SESSION CONTINUATION SUPPORT INDICATOR 0 = NON-DISRUPTIVE TAKEOVER OF SESSIONS FOR SWITCHED LINKS NOT SUPPORTED 1 = NON-DISRUPTIVE TAKEOVER OF SESSIONS FOR SWITCHED LINKS SUPPORTED
		.... ...1		VEC0BPTH	DYNAMIC PATH TABLE UPDATE (DPTU) CAPABILITY 0 = DPTU NOT SUPPORTED 1 = DPTU SUPPORTED

THE FOLLOWING BYTE WILL NOT EXIST FOR PRE-ESA NODES WHICH BUILD THIS VECTOR.

4	(4)	CHARACTER	1	VEC0BFLG	ESA CAPABILITIES
		1... ....		VEC0BESA	1 = ESA SUPPORTED
		.111 ....		*	RESERVED
		.... 1111		VEC0BSLM	ESA ADDRESS LIMIT 0000 = 255 0001 = 511 0010 = 1023 0011 = 2047 0100 = 4095 0101 = 8191 0110 = 16383 0111 = 32767 1000 = 65535
5	(5)	CHARACTER	1	VEC0BYT4	VEC0B BYTE 4
		1... ....		VEC0BRQS	1 = EXTENDED REQUEST CONTACT SUPPORTED
		.1.. ....		*	RESERVED
		..1. ....		*	RESERVED
		...1 1111		*	NOT USED - AVAILABLE

**Constants**

Len	Type	Value	Name	Description
VALUE FOR VECTOR KEY (VEC0BKEY)				
1	HEX	0B	VEC0BX	0B VECTOR

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTVEC0B	0		1
VECCNTD	2	04	4
VECGWCAP	2	20	4
VECLRRTN	2	08	4
VECLRTXN	2	10	4
VEC0BALS	2	40	4
VEC0BDA	2		2
VEC0BENA	2	02	4
VEC0BESA	4	80	4
VEC0BFLG	4		3
VEC0BKEY	0		2
VEC0BLNG	1		2
VEC0BLSA	2	80	4
VEC0BMLM	3	80	4
VEC0BMPU	3	20	4
VEC0BPTH	3	01	4
VEC0BRQS	5	80	4
VEC0BSLM	4	08	4
VEC0BSSC	3	02	4
VEC0BT21	2	01	4
VEC0BYT1	2		3
VEC0BYT2	3		3
VEC0BYT4	5		3

**SESSION  
KEY**

## LU Capabilities Vector (SSV)

<b>Function:</b>	SSV (vector key X'0C') defines whether a logical unit may participate in a session.
<b>Size in bytes:</b>	Variable.
<b>Located in:</b>	SSV is found in the ALURU and NOTRU RUs.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	8	ISTSSV	Session Services Control Block	
0	(0)	UNSIGNED	1	SSVKEY	Vector Key X'0C'	
1	(1)	UNSIGNED	1	SSVLEN	Vector length	
2	(2)	CHARACTER	6	SSVWDF	Vector data	
2	(2)	CHARACTER	1	SSVFSM	LU Capabilities	
		1111 ....		SSVPRI	Capabilities as PLU	
		.... 1111		SSVSEC	Capabilities as SLU	
3	(3)	UNSIGNED	2	SSVLIM	Session limit	
5	(5)	UNSIGNED	2	SSVCNT	Active session count	
7	(7)	BITSTRING	1	SSVLUC	LU capabilities	
		1... ....		SSVPAR	1 = Parallel session supported	
		.1. ....		SSVNOT	1 = Notify support	
		..1. ....		SSVSLUSS	1 = Session Start sent by LU when acting as SLU	
		...1 ....		SSVHARP	1 = LU is HARP (XRF) capable	
		.... 1..		*	RESERVED	
		.... .1.		SSVNQNSI	1 = Network qualified names supported	
		.... ..1.		SSVSXBSI	1 = Extended BIND supported	
		.... ...1		*	Reserved	
8	(8)	CHARACTER	*	SSVEXT	End of base vector	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	9	SSVEXF	Vector Extension	
0	(0)	CHARACTER	8	SSVLMT	Retired	
8	(8)	BITSTRING	1	SSVACAP	Additional Capabilities	
		1... ....		SSVUNRCV	1 = Receipt of unrecognized CVs on CINIT supported	
		.111 1111		*	Available	

### Constants

Len	Type	Value	Name	Description
Vector key (SSVKEY)				
1	HEX	0C	SSVSSV	Vector key constant
Constants for fields SSVPRI and SSVSEC				
0	BIT	0000	SSVINH	Inhibited
0	BIT	0001	SSVNEN	Not enabled
0	BIT	0011	SSVENA	Enabled
1	HEX	00	SSCZ00	Zero constant

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTSSV	0		1
SSVACAP	8		2
SSVCNT	5		3
SSVEXF	0		1
SSVEXT	8		3
SSVFSM	2		3
SSVHARP	7	10	4
SSVKEY	0		2
SSVLEN	1		2
SSVLIM	3		3
SSVLMT	0		2
SSVLUC	7		3
SSVNOT	7	40	4
SSVNQNSI	7	04	4
SSVPAR	7	80	4
SSVPRI	2	80	4
SSVSEC	2	08	4
SSVSLUSS	7	20	4
SSVSXBSI	7	02	4
SSVUNRCV	8	80	3
SSVWDF	2		2

**SESSION  
KEY**

## Class-of-Service and Virtual Route List Control Vector (V0D)

**Function:** V0D provides a mapping for the class-of-service and virtual route list control vector (key X'0D').  
**Size in bytes:** Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	22	ISTV0D	
0	(0)	CHARACTER	1	V0DKEY	Vector Key X'0D'
1	(1)	UNSIGNED	1	V0DLENTN	Length of vector data
2	(2)	CHARACTER	20	V0DDATA	Vector data fields
2	(2)	CHARACTER	8	V0DMODE	Logmode name
10	(A)	CHARACTER	8	V0DCOSNM	Class of service name
18	(12)	UNSIGNED	1	V0DVRLN	VR List length
19	(13)	CHARACTER	3	V0DVRINF	VR list information
19	(13)	CHARACTER	1	V0DVRFMT	VR List format
20	(14)	CHARACTER	1	V0DVRTYP	VR Type required
21	(15)	UNSIGNED	1	V0DVRNBR	Number of entries in VR list
22	(16)	CHARACTER	*	V0DVRLST	VR List

Mapping for VR list entry

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	V0DVRENT	VR Entry mapping
0	(0)	UNSIGNED	1	V0DVRNUM	VR Number
1	(1)	UNSIGNED	1	V0DVRTPF	Transmission Priority

### Constants

Len	Type	Value	Name	Description
Value for V0DKEY				
1	HEX	0D	V0DKEYC	Key is '0D'X
1	HEX	00	V0DVRFM0	Format 0
1	HEX	01	V0DVRERX	No ER restriction

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV0D	0		1
V0DCOSNM	A		3
V0DDATA	2		2
V0DKEY	0		2
V0DLENTN	1		2
V0DMODE	2		3
V0DVRENT	0		1
V0DVRFMT	13		4
V0DVRINF	13		3
V0DVRLN	12		3
V0DVRLST	16		4
V0DVRNBR	15		4
V0DVRNUM	0		2
V0DVRTPF	1		2
V0DVRTYP	14		4

## SNA Network Name Control Vector (VOE)

**Function:** VOE provides a mapping for the SNA network name control vector (key X'0E').

**Size in bytes:** Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	ISTV0E	
0	(0)	CHARACTER	1	VOEKEY	VECTOR KEY X'0E'
1	(1)	UNSIGNED	1	VOELENTH	LENGTH OF VECTOR DATA
2	(2)	CHARACTER	1	VOEDATA	VECTOR DATA FIELDS
2	(2)	UNSIGNED	1	VOETYPE	NETWORK QUALIFIED NAME TYPE
3	(3)	CHARACTER	*	VOENAME	NETWORK QUALIFIED NAME

### Constants

Len	Type	Value	Name	Description
VALUE FOR VOEKEY				
1	HEX	0E	VOEKEYC	VECTOR KEY IS '0E'X
VALUES FOR VOETYPE				
1	HEX	F1	VOETYPUP	TYPE IS FOR PU NAME
1	HEX	F3	VOETYPUL	TYPE IS FOR LU NAME
1	HEX	F4	VOETYPUP	TYPE IS FOR CP NAME
1	HEX	F6	VOETYPNC	TYPE IS FOR NNCP NAME
1	HEX	F7	VOETYPULS	TYPE IS FOR LINK STATION NAME - NOT NETWORK QUALIFIED

SESSION KEY



## Link Capabilities and Status Control Vector (V0F)

**Function:** V0F provides the capabilities and status of the link being activated.  
**Size in bytes:** 3

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	ISTV0F	
0	(0)	CHARACTER	1	V0FKEY	VECTOR KEY X'0F'
1	(1)	UNSIGNED	1	V0FLENTN	LENGTH OF DATA PORTION
2	(2)	CHARACTER	1	V0FDATA	DATA PORTION OF THE VECTOR
		1... ....		V0FCV43S	CONTROL VECTOR 43 SUPPORT 0 = CV 43 NOT SUP- SUPPORTED 1 = CV 43 SUPPORTED
		.1.. ....		V0FDLGB	DACTLINK GIVE BACK SUPPORT 0 = DACTLINK GIVEBACK NOT SUPPORTED 1 = DACTLINK GIVEBACK SUPPORTED
		..1. ....		V0FLCONS	LINK CONNECTION STATUS 0 = LINK DOES NOT HAVE A SWITCHED CONNECTION 1 = LINK DOES HAVE A SWITCHED CONNECTION
		...1 ....		*	RESERVED
		.... 1111		V0FRSVD	RESERVED

### Constants

Len	Type	Value	Name	Description
1	HEX	0F	V0FKEYC	VECTOR KEY IS '0F'X

SESSION  
KEY

---

## Load Module Correlator Control Vector (V11)

<b>Function:</b>	V11 is used to verify that the NCP and VTAM have matching load modules.
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTV11	LOAD MODULE CORRELATOR CONTROL VECTOR
0	(0)	CHARACTER	1	V11KEY	VECTOR KEY X'11'
1	(1)	UNSIGNED	1	V11LNG	LENGTH IN BINARY OF DATA
2	(2)	CHARACTER	*	V11DATA	LOAD MODULE CORRELATOR

### Constants

Len	Type	Value	Name	Description
CONSTANTS FOR V11KEY (VECTOR KEY)				
1	HEX	11	V11KEYC	X'11' VECTOR KEY

## Network Identifier Control Vector (V12)

<b>Function:</b>	V12 provides a mapping for the network identifier control vector (key X'12').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTV12	Network Identifier control vector
0	(0)	CHARACTER	2	V12HEAD	Vector Key X'12'
2	(2)	CHARACTER		V12DATA	Vector data field
2	(2)	CHARACTER	*	V12NWI	Unique network identifier 1 to 8 bytes long

Mapping for V12HEAD, depending on parsing rule

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	V12KEYLN	Structure for key/length parsing rule
0	(0)	UNSIGNED	1	V12KLKEY	Key
1	(1)	UNSIGNED	1	V12KLEN	Length
0	(0)	STRUCTURE	2	V12LNTYP	Structure for length/type parsing rule
0	(0)	UNSIGNED	1	V12LTLEN	Length
1	(1)	UNSIGNED	1	V12LTKEY	Key

### Constants

Len	Type	Value	Name	Description
Constant for Vector key				
1	HEX	12	V12KEYC	Vector Key

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV12	0		1
V12DATA	2		2
V12HEAD	0		2
V12KEYLN	0		1
V12KLKEY	0		2
V12KLEN	1		2
V12LNTYP	0		1
V12LTKEY	1		2
V12LTLEN	0		2
V12NWI	2		3

SESSION KEY

## Gateway Support Capabilities Control Vector (GSCCV)

**Function:** GSCCV is appended to the ACTCDRM request and the ACTCDRM response (both are mapped by ACTCD) to allow the two gateway SSCPs to identify themselves to each other and to indicate the functions they support. GSCCV is followed by vector X'15', the network-qualified address pair session key, which is mapped by APSK.

**Size in bytes:** Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTGSCCV	GATEWAY SUPPORT CAPABILITIES CONTROL VECTOR
0	(0)	CHARACTER	1	GSCCVKEY	VECTOR KEY X'13'
1	(1)	UNSIGNED	1	GSCCVLNG	LENGTH OF VECTOR DATA
2	(2)	CHARACTER	*	GSCCVECS	VECTOR DATA FOLLOWS

### Constants

Len	Type	Value	Name	Description
		THIS RU SUPPORTS A PAIR OF NETWORK QUALIFIED ADDRESS PAIR SESSION KEYS MAPPED BY ISTAPSK AT LOCATION GSCCVECS. X'15' NETWORK QUALIFIED ADDRESS PAIR SESSION KEY - NAU1 AND NAU2 DEFINE THE SENDER'S ADDRESS AND THE DESTINATION ADDRESSES RESPECTIVELY AS KNOWN IN THE NETWORK OF THE SENDER X'15' NETWORK QUALIFIED ADDRESS PAIR SESSION KEY - NAU1 AND NAU2 DEFINE THE ORIGIN ADDRESS AND THE DESTINATION ADDRESSES RESPECTIVELY AS KNOWN IN THE NETWORK ADJACENT TO THE SENDER (BASED ON ADDR OF THE END OF THE PREVIOUS KEY - APSEND). THE NEXT SECTION MAPS THE USAGE INDICATORS. THE DSECT IS CODED IN THIS MANNER TO ALLOW THE POSSIBILITY OF MORE BYTES OF USAGE INDICATORS IN THE FUTURE. SINCE THIS SECTION FOLLOWS THE SESSION KEYS IT SHOULD BE BASED ON ADDR(APSEND). ELIMINATE GATEWAY SUPPORT USAGE FLAG BYTE CONSTANT FOR VECTOR KEY		
1	HEX	13	GSCKEY13	CONSTANT FOR VECTOR KEY

SESSION KEY

## Session Initiation Control Vector (SIV)

<b>Function:</b>	SIV provides a mapping for the session initiation control vector. This control vector is attached to an RU to carry session initiation information to the gateway SSCPs along the path of the proposed LU-LU session.
<b>Size in bytes:</b>	Variable.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	55	ISTSIV	SESSION INITIATION CONTROL VECTOR	
0	(0)	CHARACTER	1	SIVKEY	VECTOR KEY: X'14'	
1	(1)	UNSIGNED	1	SIVLNG	LENGTH OF CONTROL VECTOR DATA FIELDS	
2	(2)	CHARACTER	53	SIVDATA	CONTROL VECTOR DATA	
2	(2)	CHARACTER	8	SIVNET1	NETWORK ID 1: FOR CDINIT THIS IS THE NETWORK ID OF THE DESTINATION NETWORK. FOR CDINIT RESPONSE THIS IS THE NETWORK ID ON THE DLU SIDE OF THE GWN.	
10	(A)	CHARACTER	8	SIVCOS1	COS NAME 1 AS KNOWN IN THE NETWORK SPECIFIED IN SIVNET1	
NOTE: SIVNET1 AND SIVCOS1 ARE RESERVED IN CDINIT IF THE ORIGINATOR OF THE REQUEST DID NOT SPECIFY COS NAME OR TRANSLATION HAS NOT OCCURED ON THE DLU ALIAS NAME						
18	(12)	CHARACTER	8	SIVNET2	NETWORK ID 2: RESERVED FOR CDINIT. FOR CDINIT RESPONSE THIS FIELD REPRESENTS THE NETWORK ID ON THE DLU SIDE OF THE GWN IF THE REQUEST IS FLOWING BETWEEN TWO SSCPS WHO SHARE CONTROL OF THE GWN, OTHERWISE THE FIELD IS RESERVED	
26	(1A)	CHARACTER	8	SIVCOS2	COS NAME 2 AS KNOWN IN THE NETWORK SPECIFIED IN SIVNET2 NOTE - THIS FIELD IS RESERVED IF SIVCONFG IS ZERO	
34	(22)	CHARACTER	1	SIVFLG	USAGE INDICATORS	
		1... ..		SIVPARL	PARALLEL SESSION CAPABILITIES OF ADJACENT SSCP ON THE OLU SIDE OF THE GWN: =0, PARALLEL SESSIONS NOT SUPPORTED =1, PARALLEL SESSIONS SUPPORTED	
		.1.. ....		SIVCONFG	CONFIGURATION INFORMATION =0, RU NOT FLOWING BETWEEN SSCPS IN THE SAME GATEWAY =1, RU FLOWING BETWEEN SSCPS IN THE SAME GATEWAY	
		..1. ....		SIVALSUP	SENDER OF THIS RU IS PREDESIGNATED TO PERFORM GWN I/O	
		...1 1111		*	NOT USED-AVAILABLE	
35	(23)	CHARACTER	8	SIVMODE	MODE NAME AS KNOWN IN THE DESTINATION NETWORK	
43	(2B)	SIGNED	4	SIVGWNAD	SUBAREA ADDRESS OF THE GWN THAT IS TO BE USED FOR SESSION SETUP	
47	(2F)	CHARACTER	8	SIVGWNET	NETWORK ID OF THE NETWORK IN WHICH SIVGWNAD IS A VALID SUBAREA ADDRESS	
55	(37)	CHARACTER	*	SIVSESKY	2 NETWORK-QUALIFIED ADDRESS PAIR SESSION KEYS (ISTAPSK) ARE ADDED TO DEFINE THE SESSION ON THE DLU AND OLU SIDES OF THE GWN. NOTE - THE SECOND SESSION KEY IS RESERVED WHEN SIVCONFG IS ZERO	

SESSION KEY

**Constants**

Len	Type	Value	Name	Description
1	HEX	14	SIV14	CONSTANT FOR VECTOR KEY

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTSIV	0		1
SIVALSUP	22	20	4
SIVCONFIG	22	40	4
SIVCOS1	A		3
SIVCOS2	1A		3
SIVDATA	2		2
SIVFLG	22		3
SIVGWNAD	2B		3
SIVGWNET	2F		3
SIVKEY	0		2
SIVLNG	1		2
SIVMODE	23		3
SIVNET1	2		3
SIVNET2	12		3
SIVPARL	22	80	4
SIVSESKY	37		3

SESSION  
KEY

## Network-Qualified Address Pair Control Vector (NQAP)

<b>Function:</b>	NQAP is carried in SSCP-PU RUs to identify the related cross-network session. It may be found in deactivate transforms (DEXF), NOTIFY (NTFY), REQACTCDRM (RQACD), and SETCV (SCVRU) RUs.
<b>Size in bytes:</b>	22 (X'16')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	22	ISTNQAP	NETWORK-QUALIFIED ADDRESS PAIR CONTROL VECTOR
0	(0)	CHARACTER	1	NQAKEY	VECTOR KEY:X'15'
1	(1)	UNSIGNED	1	NQALNG	LENGTH OF VECTOR DATA FIELD
2	(2)	CHARACTER	20	NQADATA	VECTOR DATA FIELD
2	(2)	CHARACTER	6	NQAADR1	NAU 1 NETWORK ADDRESS
8	(8)	CHARACTER	6	NQAADR2	NAU 2 NETWORK ADDRESS
14	(E)	CHARACTER	8	NQANETID	NETWORK ID OF THE NETWORK IN WHICH THE ABOVE ADDRESSES ARE VALID

### Constants

Len	Type	Value	Name	Description
1	HEX	15	NQA15	CONSTANT FOR VECTOR KEY

SESSION KEY

## Network-Qualified Address Pair Session Key (APSK)

<b>Function:</b>	APSK is carried in cross-domain and cross-network RUs to provide 6-byte network addresses as session keys.
<b>Located in:</b>	Session awareness buffer (SWBFR) CDINIT (CDIN) CDCINIT (CDCIN) CDESSEND (CRSE) CDESSESF (CDSF) CDTERM (CDTRM) CDESSESST (CSESS) CDESSESTF (CTKF)
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	14	ISTAPSK	NETWORK-QUALIFIED ADDRESS PAIR SESSION KEY
0	(0)	CHARACTER	1	APSKEY	SESSION KEY: X'15'
1	(1)	UNSIGNED	1	APSLNG	LENGTH OF KEY DATA
2	(2)	CHARACTER	12	APSDATA	KEY DATA
2	(2)	CHARACTER	6	APSADR1	NAU 1 NETWORK ADDRESS
8	(8)	CHARACTER	6	APSADR2	NAU 2 NETWORK ADDRESS
14	(E)	CHARACTER	*	APSOPT	BASE FOR OPTIONAL NETID

### Constants

Len	Type	Value	Name	Description
1	HEX	15	APS15	CONSTANT FOR SESSION KEY

SESSION KEY



## Names Substitution Control Vector (NSCV)

**Function:** NSCV contains the names that the gateway node should substitute in the bind if the gateway node translates alias network names. In SETCV (SCVRU) RUs, vector X'15' (the network-qualified address pair control vector) always accompanies this vector.

**Size in bytes:** 3

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	3	ISTNSCV	NAMES SUBSTITUTION CONTROL VECTOR	
0	(0)	CHARACTER	1	NSCVKEY	VECTOR KEY X'16'	
1	(1)	UNSIGNED	1	NSCVLNG	LENGTH OF VECTOR DATA FIELD	
2	(2)	CHARACTER	1	NSCVDATA	VECTOR DATA FIELD	
2	(2)	UNSIGNED	1	NSCVPLNG	LENGTH OF PLU ALIAS NAME	
3	(3)	CHARACTER	*	NSCVPANM	PLU ALIAS NAME	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	1	NCSVM2	LENGTH OF SLU REAL NAME	
0	(0)	UNSIGNED	1	NSCVSLNG	LENGTH OF PLU ALIAS NAME	
1	(1)	CHARACTER	*	NSCVSANM	SLU REAL NAME	

### Constants

Len	Type	Value	Name	Description
1	HEX	16	NSCV16	CONSTANT FOR VECTOR KEY

 SESSION  
KEY

## SSCP Identification Control Vector (SIC)

**Function:** SIC provides an overlay for the SSCP identification control vector, which is used to identify an SSCP in qualified format using name, network ID, and a visit count for routing purposes.

**Size in bytes:** Variable.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	5	ISTSIC	SSCP ID CONTROL VECTOR	
0	(0)	CHARACTER	1	SICKEY	VECTOR KEY X'17'	
1	(1)	UNSIGNED	1	SICLNG	VECTOR LENGTH	
2	(2)	CHARACTER	3	SICDATA	VECTOR DATA	
2	(2)	UNSIGNED	1	SICVISIT	VISIT COUNT	
3	(3)	CHARACTER	1	SICFLGS	FLAG INDICATORS	
		1... ..		*	RESERVED	
		.1.. ....		SICTARGET	1 = RESOURCE IS TARGET	
		..11 1111		*	RESERVED	
4	(4)	UNSIGNED	1	SICNETLN	NETWORK ID LENGTH	
5	(5)	CHARACTER	*	SICNETID	NETWORK ID	

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	SICSSNME	
0	(0)	UNSIGNED	1	SICNAMLN	RESOURCE NAME LENGTH
1	(1)	CHARACTER	*	SICNAME	RESOURCE NAME

### Constants

Len	Type	Value	Name	Description
1	HEX	17	SICKEY17	VECTOR KEY CONSTANT

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTSIC	0		1
SICDATA	2		2
SICFLGS	3		3
SICKEY	0		2
SICLNG	1		2
SICNAME	1		2
SICNAMLN	0		2
SICNETID	5		3
SICNETLN	4		3
SICSSNME	0		1
SICTARGET	3	40	4
SICVISIT	2		3

SESSION KEY

## SSCP Name Vector (SSCPN)

<b>Function:</b>	SSCPN contains the name and network ID of an SSCP. It may be appended to an ACTPU (APURU) or ACTCDRM (ACTCD) request for a cross-network session.
<b>Size in bytes:</b>	18 (X'12')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	18	ISTSSCPN	
0	(0)	CHARACTER	1	SSCPNKEY	VECTOR KEY X'18'
1	(1)	CHARACTER	1	SSCPNLEN	LENGTH OF DATA
2	(2)	CHARACTER	8	SSCGWNME	NAME OF SSCP
10	(A)	CHARACTER	8	SSCNETID	NETWORK ID OF THE NETWORK CONTAINING THE SSCP

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR SSCPKEY				
1	HEX	18	SSCHDR	

## Resource Identifier Control Vector (RIC)

<b>Function:</b>	RIC identifies a resource in a qualified format using the LU name, network ID, and the SSCP name, as appropriate. It is found in the CDINIT (CDIN), DSRLST (DSL), INIT OTHER CD (CRDIO), and NOTIFY (NOTRU) RUs and is passed to the session management exit routine.
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTRIC	RESOURCE IDENTIFIER CONTROL VECTOR
0	(0)	CHARACTER	1	RICKEY	VECTOR KEY: X'19'
1	(1)	UNSIGNED	1	RICLNG	LENGTH OF THE VECTOR DATA FIELD
2	(2)	CHARACTER	3	RICDATA	VECTOR DATA FIELD
2	(2)	UNSIGNED	1	RICVISIT	SSCP VISIT COUNT
3	(3)	CHARACTER	1	RICFLGS	USAGE INDICATORS
		1... ....		RICTRANS	=0, TRANSLATION HAS NOT OCCURRED FOR THIS NAME =1, TRANSLATION HAS OCCURRED FOR THIS NAME
		.1.. ....		RICTARGET	=0, THIS RESOURCE IS NOT THE TARGET RESOURCE =1, THIS RESOURCE IS THE TARGET RESOURCE FOR REQUESTS CONTAINING THIS VECTOR
		..11 1...		RICRSV1	RESERVED
		.... .1..		*	RESERVED
		.... ..11		*	RESERVED
4	(4)	UNSIGNED	1	RICSCPLN	LENGTH OF SSCP NAME
5	(5)	CHARACTER	*	RICSCPNM	NAME OF SSCP WHICH CONTROLS THIS LU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	RICRLNT	NETID PORTION OF QUALIFIED REAL NAME
0	(0)	UNSIGNED	1	RICRNTL	LENGTH OF NETWORK ID
1	(1)	CHARACTER	*	RICRNTN	NETID OF NETWORK CONTAINING THE LU
0	(0)	STRUCTURE	1	RICRLNM	NAME PORTION OF QUALIFIED REAL NAME
0	(0)	UNSIGNED	1	RICRNML	LENGTH OF LU NAME
1	(1)	CHARACTER	*	RICRNMN	REAL NAME OF LU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	RICALNT	NETWORK IN WHICH ALIAS NAME IS KNOWN
0	(0)	UNSIGNED	1	RICANTL	LENGTH OF NETWORK ID
1	(1)	CHARACTER	*	RICANTN	NETID OF NETWORK IN WHICH ALIAS IS KNOWN
0	(0)	STRUCTURE	1	RICALNM	RICALNM BASED ON ADDR (RICANTN) + (RICANTL) NAME PORTION OF QUALIFIED ALIAS NAME
0	(0)	UNSIGNED	1	RICANML	LENGTH OF LU NAME
1	(1)	CHARACTER	*	RICANMN	ALIAS NAME OF LU

SESSION KEY

## Constants

Len	Type	Value	Name	Description
1	HEX	19	RIC19	CONSTANT FOR VECTOR KEY

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTRIC	0		1
RICALNM	0		1
RICALNT	0		1
RICANML	0		2
RICANMN	1		2
RICANTL	0		2
RICANTN	1		2
RICDATA	2		2
RICFLGS	3		3
RICKEY	0		2
RICLNG	1		2
RICRLNM	0		1
RICRLNT	0		1
RICRNML	0		2
RICRNMN	1		2
RICRNTL	0		2
RICRNTN	1		2
RICRSV1	3	20	4
RICSCPLN	4		3
RICSCPNM	5		3
RICTARGT	3	40	4
RICTRANS	3	80	4
RICVISIT	2		3

## NAU Address Control Vector (NAUA)

<b>Function:</b>	NAUA is used in establishing cross-network sessions and contains the network address of a particular resource. It may be found in the CDINIT (CDIN) and SETCV (SCVRU) RUs.
<b>Size in bytes:</b>	10 (X'1A')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	10	ISTNAUA	NAU ADDRESS CONTROL VECTOR
0	(0)	CHARACTER	1	NAUKEY	VECTOR KEY: X'1A'
1	(1)	UNSIGNED	1	NAULNG	LENGTH OF THE VECTOR DATA FIELD
2	(2)	CHARACTER	8	NAUDATA	VECTOR DATA FIELD
2	(2)	CHARACTER	6	NAUNTAD	NETWORK ADDRESS OF THE NAU
IF FROM A PRE-ENA NODE, THE REMAINDER OF THE VECTOR WILL NOT EXIST					
8	(8)	CHARACTER	1	NAUFLAGS	NAUA VECTOR FLAG BYTE
		1... ....		NAUENA	0 - NAU DOES NOT SUPPORT ENA 1 - NAU SUPPORTS ENA
		.111 1111		NAURSRV	AVAILABLE
IF FROM A PRE-ESA NODE, THE REMAINDER OF THE VECTOR WILL NOT EXIST					
9	(9)	BITSTRING	1	NAUESACP	ESA CAPABILITIES
		1... ....		NAUESA	0 - NAU DOES NOT SUPPORT ESA 1 - NAU SUPPORTS ESA
		.111 ....		*	RESERVED - NOT AVAILABLE
		.... 1111		NAUSALMT	ESA SUBAREA LIMIT

### Constants

Len	Type	Value	Name	Description
1	HEX	1A	NAU1A	CONSTANT FOR VECTOR KEY

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTNAUA	0		1
NAUDATA	2		2
NAUENA	8	80	4
NAUESA	9	80	4
NAUESACP	9		3
NAUFLAGS	8		3
NAUKEY	0		2
NAULNG	1		2
NAUNTAD	2		3
NAURSRV	8	40	4
NAUSALMT	9	08	4

SESSION KEY

## VRID List Control Vector (VRIDV)

<b>Function:</b>	VRIDV provides an overlay for the VRID list control vector, which is carried on SETCV, so the gateway node can set up the virtual route in the sender's network, and associate it with the virtual route in the adjacent network.
<b>Size in bytes:</b>	Variable.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	13	ISTVRIDV	VRID LIST CONTROL VECTOR	
0	(0)	CHARACTER	1	VRIDKEY	VECTOR KEY X'1B'	
1	(1)	UNSIGNED	1	VRIDLNG	LENGTH OF VECTOR DATA FIELD	
2	(2)	CHARACTER	11	VRIDDATA	VECTOR DATA FIELD	
2	(2)	CHARACTER	8	VRIDNTID	NETWORK ID	
10	(A)	CHARACTER	3	VRIDF	VIRTUAL ROUTE INFORMATION FIELD	
10	(A)	CHARACTER	1	VRIDFMT	FORMAT OF VIRTUAL ROUTE LIST	
11	(B)	CHARACTER	1	VRIDTYP	TYPE OF VIRTUAL ROUTE REQUIRED	
12	(C)	UNSIGNED	1	VRIDNUM	NUMBER OF ENTRIES IN THE VIRTUAL ROUTE INFORMATION FIELD	
13	(D)	CHARACTER	*	VRIDLST	VIRTUAL ROUTE LIST ENTRY	

MAPPING OF VIRTUAL ROUTE LIST ENTRY

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	VRLIST	VIRTUAL ROUTE LIST ENTRY	
0	(0)	UNSIGNED	1	VRLVRN	VIRTUAL ROUTE NUMBER	
1	(1)	UNSIGNED	1	VRLTPF	TRANSMISSION PRIORITY	

### Constants

Len	Type	Value	Name	Description
1	HEX	1B	VRID1B	CONSTANT FOR VECTOR KEY
CONSTANTS FOR VRIDFMT - VRID LIST FORMAT FIELD				
1	HEX	00	VRIDFMT0	FORMAT 0
CONSTANTS FOR VRIDTYP - TYPE OF VIRTUAL ROUTE REQUIRED				
1	HEX	00	VRIDTYP0	TYPE X'00'-ONLY VIRTUAL ROUTES MAPPING TO ERO FROM THE SUBAREA OF THE SLU TO THE SUBAREA OF THE PLU MAY BE USED
1	HEX	01	VRIDTYP1	VIRTUAL ROUTES MAPPING TO ANY VR MAY BE USED

SESSION KEY

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTVRIDV	0		1
VRIDDATA	2		2
VRIDF	A		3
VRIDFMT	A		4
VRIDKEY	0		2
VRIDLNG	1		2
VRIDLST	D		4
VRIDNTID	2		3
VRIDNUM	C		4
VRIDTYP	B		4
VRLIST	0		1
VRLTPF	1		2
VRLVRN	0		2

**SESSION  
KEY**



## Network-Qualified Name Pair Control Vector (V1C)

<b>Function:</b>	V1C provides a mapping for the network-qualified name pair control vector (key X'1C').
<b>Size in bytes:</b>	Variable.
<b>Included Blocks:</b>	V0E

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	ISTV1C	
0	(0)	CHARACTER	1	V1CKEY	Vector Key X'1C'
1	(1)	UNSIGNED	1	V1CLENTH	Vector Data Length
2	(2)	CHARACTER	1	V1CVDATA	Vector Data
2	(2)	CHARACTER	1	V1CSTYPE	Session type Possible values: V1CSSCP(00) - SSCP-SSCP V1CLULU(01) - LU-LU
3	(3)	CHARACTER	*	V1CVECS	Additional vectors

### Constants

Len	Type	Value	Name	Description
Constant for the KEY field (V1CKEY)				
1	HEX	1C	V1CKEYC	KEY = 1C
Constants for the session type field (V1CSTYPE)				
1	HEX	00	V1CSSCP	SSCP-SSCP session
1	HEX	01	V1CLULU	LU-LU session



## VR-ER Mapping Data Control Vector (V1E)

<b>Function:</b>	V1E provides a mapping for the VR-ER mapping data control vector (key X'1E').
<b>Size in bytes:</b>	5

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTV1E	
0	(0)	CHARACTER	1	V1EKEYCH	Vector Key X'1E' - Declared in character so length will be computed properly
0	(0)	BITSTRING	1	V1EKEY	Vector Key X'1E'
1	(1)	CHARACTER	1	V1ELENCH	Vector data length declared in character so length will be computed properly
1	(1)	BITSTRING	1	V1ELEN	VECTOR DATA LENGTH
2	(2)	CHARACTER	3	V1EVDATA	VECTOR DATA
2	(2)	BITSTRING	1	V1EVRTP	VIRTUAL ROUTE (VR) AND TRANSMISSION PRIORITY DATA
		1111 ....		V1EVRN	VR NUMBER ASSIGNED TO THE SESSION DEFINED IN THE BASE BASE RU
		.... 11..		*	RESERVED
		.... ..11		V1ETP	TRANSMISSION PRIORITY FIELD ASSIGNED TO THE SESSION DEFINED IN THE BASE RU
3	(3)	BITSTRING	1	V1EER	EXPLICIT ROUTE (ER) DATA
		1111 ....		*	RESERVED
		.... 1111		V1EERN	OUTBOUND ER NUMBER
4	(4)	BITSTRING	1	V1ERER	REVERSE ER INFORMATION
		1111 ....		*	RESERVED
		.... 1111		V1ERERN	REVERSE ER NUMBER CORRESPOND- ING TO V1EERN

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR KEY FIELD (V1EKEY)				
1	HEX	1E	V1EKEYC	KEY = 1E

### Cross Reference

SESSION KEY

Name	Hex Offset	Hex Value	Level
ISTV1E	0		1
V1EER	3		3
V1EERN	3	08	4
V1EKEY	0		3
V1EKEYCH	0		2
V1ELEN	1		3
V1ELENCH	1		2
V1ERER	4		3
V1ERERN	4	08	4
V1ETP	2	02	4
V1EVDATA	2		2
V1EVRN	2	80	4
V1EVRTP	2		3

## ER Test Results Configuration Data Control Vector (V1F)

<b>Function:</b>	V1F provides a mapping for the ER test results configuration data control vector (key X'1F').
<b>Size in bytes:</b>	Variable.
<b>Additional Notes:</b>	May be found in the ER_TEST_REPLY and ER_TESTED (ETRRU) RUs.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	18	ISTV1F	MAP FOR X'1F' ER CONFIGURATION CONTROL VECTOR
0	(0)	BITSTRING	1	V1FID	VECTOR KEY X'1F'
1	(1)	BITSTRING	1	V1FLN	VECTOR LENGTH
2	(2)	CHARACTER	16	V1FDATA	VECTOR DATA
2	(2)	BITSTRING	1	V1FTGOUT	TG ON WHICH RU WAS SENT FROM NODE APPENDING THIS VECTOR (RESERVED IF LAST VECTOR)
3	(3)	BITSTRING	1	V1FTGIN	TG ON WHICH RU WAS RECEIVED BY NODE APPENDING THIS VECTOR (RESERVED IF FIRST VECTOR)
4	(4)	BITSTRING	4	V1FSA	SUBAREA OF NODE APPENDING THIS VECTOR
8	(8)	CHARACTER	9	V1FSSCP	SSCP INFORMATION
8	(8)	BITSTRING	1	V1FSSCPC	SSCP COUNT
9	(9)	CHARACTER	8	V1FSSCPA	SSCP ADDRESS FIELD
9	(9)	CHARACTER	1	*	RESERVED
10	(A)	BITSTRING	1	V1FFLAGS	ACTIVATION FLAGS
		1111 11..		*	RESERVED
		.... ..1.		V1FATOUT	SSCP HAS ACTIVATED TG-OUT
		.... ..1		V1FATIN	SSCP HAS ACTIVATED TG-IN
11	(B)	BITSTRING	6	V1FSCPAD	SSCP ADDRESS
17	(11)	BITSTRING	1	V1FSSCPL	LENGTH OF NETWORK ID
18	(12)	CHARACTER	*	V1FNETID	NETWORK ID

### Constants

Len	Type	Value	Name	Description
CONSTANT FOR V1FID				
1	HEX	1F	V1FKEY	

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV1F	0		1
V1FATIN	A	01	6
V1FATOUT	A	02	6
V1FDATA	2		2
V1FFLAGS	A		5
V1FID	0		2
V1FLN	1		2
V1FNETID	12		3
V1FSA	4		3
V1FSCPAD	B		5
V1FSSCP	8		3
V1FSSCPA	9		4
V1FSSCPC	8		4
V1FSSCPL	11		3
V1FTGIN	3		3
V1FTGOUT	2		3

SESSION  
KEY

## XID Negotiation Error Control Vector (V22)

**Function:** V22 provides an XID negotiation error control vector (key X'22') that may be sent on an XID exchange. V22 contains the offset bit and byte of the error.

**Size in bytes:** 5

### Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTV22	
0	(0)	BITSTRING	1	V22KEY	VECTOR KEY X'22'
1	(1)	UNSIGNED	1	V22LENTH	LENGTH OF THE DATA PORTION
2	(2)	CHARACTER	3	V22DATA	DATA PORTION OF VECTOR
2	(2)	UNSIGNED	2	V22EBYTE	ERROR BYTE OFFSET OF FIRST BYTE OF OF FIELD IN ERROR
4	(4)	UNSIGNED	1	V22EBIT	ERROR BIT OFFSET OF FIRST BIT OF OF FIELD IN ERROR

### Constants

Len	Type	Value	Name	Description
VALUE FOR V22KEY				
1	HEX	22	V22KEYC	VECTOR KEY IS '22'X

## Local Session Identifier Control Vector (V23)

<b>Function:</b>	V23 provides a VTAM mapping for the local session identifier control vector (key X'23').
<b>Size in bytes:</b>	Variable.
<b>Additional Notes:</b>	May be found in SSSST (SSSRU) RUs.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	2	ISTV23	SESSION IDENTIFER CONTROL VECTOR	
0	(0)	CHARACTER	1	V23KEY	VECTOR KEY X'23'	
1	(1)	UNSIGNED	1	V23LENTH	LENGTH OF VECTOR DATA FIELD	
2	(2)	CHARACTER	*	V23DATA	VECTOR DATA	

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
2	(2)	STRUCTURE	4	ISTV23F2	FORMAT 2 DATA USED FOR FID2 TH (PU_TYPE2)	
2	(2)	UNSIGNED	1	V23F2MAT	FORMAT TYPE	
3	(3)	UNSIGNED	1	V23F2OAF	OAF' FROM FID2 TH	
4	(4)	UNSIGNED	1	V23F2DAF	DAF' FROM FID2 TH	
5	(5)	CHARACTER	1	V23FLAGS	VECTOR FLAGS	
		1111 11..		*	RESERVED	
		.... ..1.		V23ODAI	ASSIGNMENT INDICATOR	
		.... ..1		*	RESERVED	
2	(2)	STRUCTURE	2	ISTV23F3	FORMAT 3 DATA USED FOR FID3 TH (PU_TYPE1)	
2	(2)	UNSIGNED	1	V23F3MAT	FORMAT TYPE	
3	(3)	UNSIGNED	1	V23FLSID	LSID FROM FID3 TH - NOTE: THE HIGH ORDER 2 BITS REPRESENT SSCP_PU/LU SESSIONS AND WILL NEVER BE ON IN A SESSION STARTED RU	

### Constants

Len	Type	Value	Name	Description
VALUES FOR FORMAT ID FIELD				
1	HEX	02	V23FD2	FID 2 TH (PU_TYPE2)
1	HEX	03	V23FD3	FID 3 TH (PU_TYPE1)
VALUE FOR V23KEY				
1	HEX	23	V23KEYNO	VECTOR KEY IS '23'X

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV23	0		1
ISTV23F2	2		1
ISTV23F3	2		1
V23DATA	2		2
V23FLAGS	5		2
V23FLSID	3		2
V23F2DAF	4		2
V23F2MAT	2		2
V23F2OAF	3		2
V23F3MAT	2		2
V23KEY	0		2
V23LENTH	1		2
V23ODAI	5	02	3

## Security Identification Control Vector (V25)

<b>Function:</b>	V25 provides a mapping for the security identification control vector (key X'25').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTV25	
0	(0)	CHARACTER	2	V25LTHD	VECTOR HEADER (LT FORMAT)
0	(0)	UNSIGNED	1	V25LTLEN	LENGTH OF CONTROL VECTOR
1	(1)	CHARACTER	1	V25LTKEY	TYPE OF CONTROL VECTOR
2	(2)	CHARACTER	2	V25DATA	VECTOR DATA FIELDS
2	(2)	CHARACTER	1	*	RESERVED
3	(3)	CHARACTER	1	V25SCID	SECURITY ID INFORMATION
3	(3)	UNSIGNED	1	V25SCIDL	LENGTH OF SECURITY ID STRING
4	(4)	CHARACTER	*	V25SCIDS	SECURITY ID STRING

### Constants

Len	Type	Value	Name	Description
VALUE FOR V25LTKEY				
1	HEX	25	V25KEYNO	VECTOR KEY IS '25'X

## Session State Data Control Vector (V29)

<b>Function:</b>	V29 provides a mapping for the session state data control vector (key X'29').
<b>Size in bytes:</b>	91 (X'5B')

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	91	ISTV29	SESSION STATE DATA CONTROL VECTOR	
0	(0)	CHARACTER	1	V29KEY	VECTOR KEY X'29'	
1	(1)	UNSIGNED	1	V29LENTH	LENGTH OF VECTOR DATA	
2	(2)	CHARACTER	89	V29VEFDA	VECTOR DATA	
2	(2)	BITSTRING	1	V29SWTYP	SWITCH TYPE	
		1111 ....		V29SWTRQ	SWITCH REQUEST	
		.... 1111		V29SWTST	SWITCH STATE	
3	(3)	BITSTRING	1	V29DAFLW	DATA FLOW INDICATORS	
		1... ....		V29DFSTP	LAST REQUEST OR RESPONSE WAS: 0 = SENT PLU-TO-SLU 1 = SENT SLU-TO-PLU	
		.1.. ....		V29DFLPX	LAST REQUEST OR RESPONSE WAS: 0 = NORMAL-FLOW 1 = EXPEDITED-FLOW	
		..1. ....		V29DFLPS	THE LAST PIU 0 = A REQUEST 1 = A RESPONSE	
		...1 ....		V29DFNXP	EXPEDITED RESPONSE REQUIRED FROM THE SLU 0 = EXPEDITED RESPONSE WAS SENT TO THE PLU 1 = EXPEDITED RESPONSE WAS NOT SENT TO THE PLU	
		.... 1...		V29DFNXS	EXPEDITED RESPONSE REQUIRED FROM THE PLU 0 = EXPEDITED RESPONSE WAS SENT TO THE SLU 1 = EXPEDITED RESPONSE WAS NOT SENT TO THE SLU	
		.... .1..		V29DFPBF	IF PACING REQUEST WAS SENT TO THE PLU 0 = PACING RESPONSE WAS SENT TO THE SLU BY THE PLU 1 = PACING RESPONSE WAS SENT TO THE SLU	
		.... ..11		*	BY BOUNDARY FUNCTION	
4	(4)	CHARACTER	1	*	RESERVED-NOT AVAILABLE	
5	(5)	CHARACTER	43	V29PS	RESERVED-NOT AVAILABLE	
5	(5)	CHARACTER	24	V29PSNFL	PRIMARY TO SECONDARY DATA	
5	(5)	CHARACTER	5	V29PSNCH	PLU-TO-SLU NORMAL FLOW INFORMATION	
5	(5)	UNSIGNED	2	V29PSNCS	LAST REQUEST SENT PLU-TO-SLU	
7	(7)	CHARACTER	3	V29PSNCR	SEQUENCE NUMBER OF THE FOLLOWING RH	
					RH OF FIRST IN CHAIN OR ONLY IN CHAIN REQUEST SENT TO SLU	
10	(A)	CHARACTER	10	V29PSNTH	NORMAL FLOW REQUEST INFORMATION FROM THE TH	
10	(A)	UNSIGNED	2	V29PSNTS	LAST REQUEST SEQUENCE NUMBER SENT PLU-TO-SLU	
12	(C)	CHARACTER	3	V29PSNRH	RH ASSOCIATED WITH THE FOLLOWING RU	
15	(F)	CHARACTER	5	V29PSNTU	FIRST 5 BYTES OF LAST NORMAL- FLOW REQUEST RU SENT PLU-TO-SLU	
20	(14)	CHARACTER	9	V29PSLRP	LAST RESPONSE SENT PLU-TO-SLU	
20	(14)	UNSIGNED	2	V29PSLRS	SEQUENCE NUMBER OF THE LAST RESPONSE SENT	
22	(16)	CHARACTER	2	V29PSLRH	FIRST 2 BYTES OF THE RH ASSOCIATED WITH FOL- LOWING RESPONSE	
24	(18)	CHARACTER	5	V29PSLRU	FIRST 5 BYTES OF THE LAST NORMAL FLOW RESPONSE SENT PLU-TO-SLU	
29	(1D)	CHARACTER	19	V29PSEFL	PLU-TO-SLU EXPEDITED FLOW INFORMATION	
29	(1D)	CHARACTER	10	V29PSEFQ	LAST EXPEDITED-FLOW REQUEST SENT PLU-TO-SLU	
29	(1D)	UNSIGNED	2	V29PSEQS	LAST REQUEST SEQUENCE NUMBER SENT PLU-TO-SLU	
31	(1F)	CHARACTER	3	V29PSEQH	RH ASSOCIATED WITH THE FOLLOWING REQUEST RU	
34	(22)	CHARACTER	5	V29PSEQU	FIRST 5 BYTES OF LAST NORMAL- FLOW REQUEST RU SENT PLU-TO-SLU	
39	(27)	CHARACTER	9	V29PSEFP	LAST EXPEDITED-FLOW RESPONSE SENT PLU-TO-SLU	
39	(27)	UNSIGNED	2	V29PSEFS	LAST EXPEDITED-FLOW RESPONSE SEQUENCE NUMBER SENT TO PLU-SLU	
41	(29)	CHARACTER	2	V29PSEFH	BYTE 0 AND 1 OF RH ASSOCIATED WITH FOLLOWING RESPONSE RU	
43	(2B)	CHARACTER	5	V29PSEFU	FIRST 5 BYTES OF LAST NORMAL- FLOW RESPONSE RU SENT PLU-TO-SLU	
48	(30)	CHARACTER	43	V29SP	SECONDARY TO PRIMARY DATA	

SESSION  
KEY

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
48	(30)	CHARACTER	24	V29SPNFL	SLU-TO-PLU NORMAL FLOW INFORMATION
48	(30)	CHARACTER	5	V29SPNCH	LAST REQUEST SENT SLU-TO-PLU
48	(30)	UNSIGNED	2	V29SPNCS	SEQUENCE NUMBER OF THE FOLLOWING RH
50	(32)	CHARACTER	3	V29SPNCR	RH OF FIRST IN CHAIN OR ONLY IN CHAIN REQUEST SENT TO PLU
53	(35)	CHARACTER	10	V29SPNTH	NORMAL FLOW REQUEST INFORMATION FROM THE TH
53	(35)	UNSIGNED	2	V29SPNTS	LAST REQUEST SEQUENCE NUMBER SENT SLU-TO-PLU FROM THE TH
55	(37)	CHARACTER	3	V29SPNRH	RH ASSOCIATED WITH THE FOLLOWING RU
58	(3A)	CHARACTER	5	V29SPNTU	FIRST 5 BYTES OF LAST NORMAL- FLOW REQUEST RU SENT SLU-TO-PLU
63	(3F)	CHARACTER	9	V29SPLRP	LAST RESPONSE SENT SLU-TO-PLU
63	(3F)	UNSIGNED	2	V29SPLRS	SEQUENCE NUMBER OF THE LAST RESPONSE SENT
65	(41)	CHARACTER	2	V29SPLRH	FIRST 2 BYTES OF THE RH ASSOCIATED WITH FOLLOWING RESPONSE
67	(43)	CHARACTER	5	V29SPLRU	FIRST 5 BYTES OF THE LAST NORMAL FLOW RESPONSE SENT SLU-TO-PLU
72	(48)	CHARACTER	19	V29SPEFL	SLU-TO-PLU EXPEDITED FLOW INFORMATION
72	(48)	CHARACTER	10	V29SPERQ	LAST EXPEDITED-FLOW REQUEST SENT SLU-TO-PLU
72	(48)	UNSIGNED	2	V29SPEQS	LAST REQUEST SEQUENCE NUMBER SENT SLU-TO-PLU
74	(4A)	CHARACTER	3	V29SPEQH	RH ASSOCIATED WITH THE FOLLOWING REQUEST RU
77	(4D)	CHARACTER	5	V29SPEQU	FIRST 5 BYTES OF LAST NORMAL- FLOW REQUEST RU SENT SLU-TO-PLU
82	(52)	CHARACTER	9	V29SPERP	LAST EXPEDITED-FLOW RESPONSE SENT SLU-TO-PLU
82	(52)	UNSIGNED	2	V29SPEPS	LAST EXPEDITED-FLOW RESPONSE SEQUENCE NUMBER SENT TO SLU-TO-PLU
84	(54)	CHARACTER	2	V29SPEPH	BYTE 0 AND 1 OF RH ASSOCIATED WITH FOLLOWING RESPONSE RU
86	(56)	CHARACTER	5	V29SPEPU	FIRST 5 BYTES OF LAST NORMAL- FLOW RESPONSE RU SENT SLU-TO-PLU
91	(5B)	CHARACTER		V29END	END OF V29 CONTROL BLOCK

## Constants

Len	Type	Value	Name	Description
VALUE FOR V29KEY				
1	HEX	29	V29KEYNO	VECTOR KEY IS '29'X
VALUES FOR SWITCH REQUEST				
0	BIT	0001	V29COND	SESSION TYPE IS CONDITIONAL
0	BIT	0010	V29FORCE	SESSION TYPE IS FORCED
0	BIT	0011	V29PRIER	PRIMARY SESSION ERROR
VALUES FOR SWITCH STATE				
0	BIT	0001	V29BAKUP	PRIMARY PLU IS READY TO BECOME BACKUP-PLU
0	BIT	0010	V29PRIUP	BACKUP PLU IS READY TO BECOME PRIMARY PLU
VALUES TO TEST RH FOR RECEIPT BY BOUNDARY FUNCTION				
1	HEX	FF	V29BFREQ	VALUE USED TO TEST FIRST BYTE OF REQUEST HEADER TO DETERMINE IF THE REQUEST HAS BEEN RECEIVED BY BOUNDRY FUNCTION
1	HEX	00	V29BFRSP	VALUE USED TO TEST FIRST BYTE OF RESPONSE HEADER TO DETERMINE IF THE RESPONSE HAS BEEN RECEIVED BY BOUNDRY FUNCTION

**SESSION KEY**



## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV29	0		1
V29DAFLW	3		3
V29DFLPS	3	20	4
V29DFLPX	3	40	4
V29DFNXP	3	10	4
V29DFNXS	3	08	4
V29DFPBF	3	04	4
V29DFSTP	3	80	4
V29END	5B		2
V29KEY	0		2
V29LENTH	1		2
V29PS	5		3
V29PSEFL	1D		4
V29PSEPH	29		6
V29PSEPS	27		6
V29PSEPU	2B		6
V29PSEQH	1F		6
V29PSEQS	1D		6
V29PSEQU	22		6
V29PSERP	27		5
V29PSERQ	1D		5
V29PSLRH	16		6
V29PSLRP	14		5
V29PSLRS	14		6
V29PSLRU	18		6
V29PSNCH	5		5
V29PSNCR	7		6
V29PSNCS	5		6
V29PSNFL	5		4
V29PSNRH	C		6
V29PSNTH	A		5
V29PSNTS	A		6
V29SPNTU	F		6
V29SP	30		3
V29SPEFL	48		4
V29SPEPH	54		6
V29SPEPS	52		6
V29SPEPU	56		6
V29SPEQH	4A		6
V29SPEQS	48		6
V29SPEQU	4D		6
V29SPERP	52		5
V29SPERQ	48		5
V29SPLRH	41		6
V29SPLRP	3F		5
V29SPLRS	3F		6
V29SPLRU	43		6
V29SPNCH	30		5
V29SPNCR	32		6
V29SPNCS	30		6
V29SPNFL	30		4
V29SPNRH	37		6
V29SPNTH	35		5
V29SPNTS	35		6
V29SPNTU	3A		6
V29SWTRQ	2	80	4
V29SWTST	2	08	4
V29SWTYP	2		3
V29VECDA	2		2

## Session Information Control Vector (V2A)

<b>Function:</b>	V2A provides a mapping for the session information control vector (key X'2A').
<b>Size in bytes:</b>	Variable.

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	3	ISTV2A		
0	(0)	UNSIGNED	1	V2AKEY	Vector Key X'2A'	
1	(1)	UNSIGNED	1	V2ALEN	Vector data length	
2	(2)	CHARACTER	1	V2ADATA	Vector information	
2	(2)	UNSIGNED	1	V2AROLE	Role indicators	
		1... ..		V2ALURLE	LU role Possible Values are : V2APLU (1) - The subject LU is the PLU. V2ASLU (0) - The subject LU is the SLU.	
		.111 1111		*	Reserved	
3	(3)	CHARACTER	*	V2AVECS	Control vectors	

### Constants

Len	Type	Value	Name	Description
Value for V2AKEY				
1	HEX	2A	V2AKEYC	Vector key is 2A
Value for V2ALURLE				
0	BIT	1	V2APLU	Subject LU is PLU
0	BIT	0	V2ASLU	Subject LU is SLU

## COS and TPF Control Vector (V2C)

<b>Function:</b>	V2C provides a mapping for the class-of-service and transmission priority field control vector (key X'2C').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTV2C	
0	(0)	CHARACTER	1	V2CKEY	Vector Key X'2C'
1	(1)	UNSIGNED	1	V2CLENGTH	Length of vector data
2	(2)	CHARACTER	2	V2CDATA	Vector data fields
2	(2)	BITSTRING	1	*	Miscellaneous flags
		1111 11..		*	Reserved
		.... ..11		V2CTPF	Transmission Priority Field V2CTPFL (00)- Low priority V2CTPFM (01)- Medium priority V2CTPFH (10)- High priority
3	(3)	UNSIGNED	1	V2CCOSL	COS Name length
4	(4)	CHARACTER	*	V2CCOSN	COS Name

### Constants

Len	Type	Value	Name	Description
Value for V2CKEY				
1	HEX	2C	V2CKEYC	Key is '2C'X
Value for V2CTPF, Transmission Priority Field				
0	BIT	00	V2CTPFL	Low priority
0	BIT	01	V2CTPFM	Medium priority
0	BIT	10	V2CTPFH	High priority

## Mode Name Control Vector (V2D)

<b>Function:</b>	V2D provides a mapping for the mode name control vector (key X'2D').
<b>Size in bytes:</b>	Variable.

### Offsets

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	ISTV2D	
0	(0)	CHARACTER	1	V2DKEY	Vector Key X'2D'
1	(1)	UNSIGNED	1	V2DLENTH	Length of vector data
2	(2)	CHARACTER	1	V2DDATA	Vector data fields
2	(2)	UNSIGNED	1	V2DMODEL	Mode Name length
3	(3)	CHARACTER	*	V2DMODEN	Mode Name

### Constants

Len	Type	Value	Name	Description
Value for V2DKEY				
1	HEX	2D	V2DKEYC	Key is '2D'X

## LU Definition Control Vector (V2F)

<b>Function:</b>	V2F provides a mapping for the LU definition control vector (key X'2F').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTV2F	
0	(0)	CHARACTER	1	V2FKEY	Vector Key X'2F'
1	(1)	UNSIGNED	1	V2FLENTH	Vector Data Length
2	(2)	CHARACTER		V2FVDATA	Vector Data
2	(2)	CHARACTER	*	V2FSUBF	Subfield Data

Additional Mode Characteristics Subfield (x'80')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	3	V2F80SF	
0	(0)	CHARACTER	2	*	RESERVED
0	(0)	UNSIGNED	1	V2F80LEN	Subfield length
1	(1)	CHARACTER	1	V2F80KEY	Key X'80'
2	(2)	CHARACTER	1	V2F80CHR	Characteristics
		1... ....		V2F80TYP	Type of terminal 0 - Keyboard and Printer 1 - Keyboard and Display
		.111 1111		*	Available

### Constants

Len	Type	Value	Name	Description
Constant for the key field (V2FKEY)				
1	HEX	2F	V2FKEY2F	KEY = 2F
Constants for the subfield keys				
1	HEX	80	V2FKEY80	Subfield key = 80

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV2F	0		1
V2FKEY	0		2
V2FLENTH	1		2
V2FSUBF	2		3
V2FVDATA	2		2
V2F80CHR	2		2
V2F80KEY	1		3
V2F80LEN	0		3
V2F80SF	0		1
V2F80TYP	2	80	3

SESSION KEY

## Assign LU Characteristics Control Vector (V30)

<b>Function:</b>	V30 provides the number of session resources that the boundary function is to reserve.
<b>Size in bytes:</b>	4

**Offsets**

Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTV30	
0	(0)	CHARACTER	1	V30KEY	VECTOR KEY X'30'
1	(1)	UNSIGNED	1	V30LENTH	LENGTH OF THE DATA PORTION
2	(2)	UNSIGNED	2	V30RSVRS	THE NUMBER OF SESSION RESOURCES TO BE RESERVED BY THE BF

### Constants

Len	Type	Value	Name	Description
VALUE FOR V30KEY				
1	HEX	30	V30KEYC	VECTOR KEY IS '30'X

**SESSION  
KEY**

---

## Bind Vector (V31)

<b>Function:</b>	V31 provides a mapping for the bind vector (key X'31').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTV31	
0	(0)	CHARACTER	1	V31KEY	VECTOR TYPE KEY X'31'
1	(1)	UNSIGNED	1	V31LENTH	LENGTH OF THE DATA PORTION
2	(2)	CHARACTER	*	V31DATA	BIND DATA

## Constants

Len	Type	Value	Name	Description
VALUE FOR V31KEY				
1	HEX	31	V31KEYC	VECTOR KEY IS '31'X

## Extended Sense Data Control Vector (V35)

<b>Function:</b>	V35 provides a mapping for the extended sense data control vector. This is a subset of the full X'35' vector.
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTV35	
0	(0)	CHARACTER	1	V35HDR	VECTOR KEY X'35'
1	(1)	UNSIGNED	1	V35LGTH	LENGTH OF THE DATA PORTION
2	(2)	CHARACTER	6	V35DVECT	DATA PORTION OF VECTOR
2	(2)	CHARACTER	4	V35SENSE	SENSE CODE FIELD
6	(6)	CHARACTER	1	V35FLGFD	FLAG FIELD
6	(6)	BITSTRING	1	V35FLAGS	VECTOR X'35' FLAGS
		1... ....		V35RUINC	0 = RU INFORMATION NOT INCLUDED 1 = RU INFORMATION INCLUDED
		.11. ....		V35RUCAT	RU CATEGORY 00 = FMD 01 = NC 10 = DFC 11 = SC
		...1 ....		*	RESERVED
		.... 1..		V35ESGT	0 = EXTENDED SENSE GENERATED BY THE TERMINATION PROCEDURE ORIGIN 1 = EXTENDED SENSE GENERATED BY A NODE OTHER THAN THE TERMINATION PROCEDURE ORIGIN
		.... .1..		V35PODES	0 = PROCEDURE ORIGIN NAME FIELD CONTAINS THE NAME OF THE TERMINATION ORIGINATOR 1 = PROCEDURE ORIGIN NAME FIELD CONTAINS THE NAME OF THE SENSE GENERATOR
		.... ..11		*	RESERVED
7	(7)	CHARACTER	1	V35RUID	RU IDENTIFIER DATA
7	(7)	CHARACTER	1	V35RUIF	FIXED PORTION OF RU IDENTIFIER DATA
7	(7)	UNSIGNED	1	V35LRUI	LENGTH OF RU IDENTIFIER FIELD
8	(8)	CHARACTER	*	V35RUI	RU IDENTIFIER FIELD

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	V35PODAT	PROCEDURE ORIGIN DATA
0	(0)	CHARACTER	1	V35POFIX	FIXED PORTION OF PROCEDURE ORIGIN DATA
0	(0)	UNSIGNED	1	V35POLEN	PROCEDURE ORIGIN LENGTH FIELD
1	(1)	CHARACTER	*	V35PONAM	PROCEDURE ORIGIN NAME
0	(0)	STRUCTURE	1	V35RRD	RELATED RESOURCE DATA
0	(0)	CHARACTER	1	V35RRFIX	FIXED PORTION OF RELATED RESOURCE DATA
0	(0)	UNSIGNED	1	V35RRLEN	RELATED RESOURCE LENGTH
1	(1)	CHARACTER	*	V35RRNAM	RELATED RESOURCE NAME

SESSION KEY



## Constants

Len	Type	Value	Name	Description
1	HEX	35	V35HDRC	VECTOR KEY IS '35'X
2	DECIMAL	26	V35MAXPO	LONGEST POSSIBLE PROCEDURE ORIGIN NAME LENGTH
2	DECIMAL	26	V35MAXRU	LONGEST POSSIBLE RU IDENTIFIER LENGTH
2	DECIMAL	17	V35MAXRR	LONGEST POSSIBLE RELATED RESOURCE NAME LENGTH

### CONSTANT FOR V35RUCAT RU CATEGORY

0	BIT	00	V35RCFMD	FUNCTION MANAGEMENT DATA
0	BIT	01	V35RCNC	NETWORK CONTROL
0	BIT	10	V35RCDFC	DATA FLOW CONTROL
0	BIT	11	V35RCSC	SESSION CONTROL

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV35	0		1
V35DVECT	2		2
V35ESGT	6	08	5
V35FLAGS	6		4
V35FLGFD	6		3
V35HDR	0		2
V35LGTH	1		2
V35LRUI	7		5
V35PODAT	0		1
V35PODES	6	04	5
V35POFIX	0		2
V35POLEN	0		3
V35PONAM	1		2
V35RRD	0		1
V35RRFIX	0		2
V35RRLEN	0		3
V35RRNAM	1		2
V35RUCAT	6	40	5
V35RUI	8		4
V35RUID	7		3
V35RUIF	7		4
V35RUINC	6	80	5
V35SENSE	2		3

## Short-Hold Mode Emulation Control Vector (V38)

<b>Function:</b>	V38 provides a mapping for the short-hold mode emulation control vector (key X'38'), which carries subarea dial SHM parameters used to establish short-hold mode connections through non-X.21 networks.
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTV38	SHM Emulation control vector
0	(0)	CHARACTER	2	V38HEAD	Vector header
2	(2)	CHARACTER	2	V38DATA	Vector data field
2	(2)	CHARACTER	1	*	Reserved
3	(3)	UNSIGNED	1	V38DNLEN	Dial Number Length
4	(4)	CHARACTER	*	V38DIALN	Dial Number

Mapping for Connection Identifier

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	1	V38DATA1	Structure for Connection Identifier
0	(0)	UNSIGNED	1	V38CONLN	Connection Identifier Length
1	(1)	CHARACTER	*	V38CONID	Connection Identifier

Mapping for Short Hold Mode Token

0	(0)	STRUCTURE	1	V38DATA2	Structure for Short Hold Mode Token
0	(0)	UNSIGNED	1	V38SHMLN	Short Hold Mode Token Length
1	(1)	CHARACTER	*	V38SHMTK	Short Hold Mode Token

Mapping for V38HEAD, depending on parsing rule

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	V38KEYLN	Structure for key/length parsing rule
0	(0)	UNSIGNED	1	V38KLKEY	Key
1	(1)	UNSIGNED	1	V38KLLEN	Length
0	(0)	STRUCTURE	2	V38LNTYP	Structure for length/type parsing rule
0	(0)	UNSIGNED	1	V38LTLEN	Length
1	(1)	UNSIGNED	1	V38LTKEY	Key

### Constants

Len	Type	Value	Name	Description
Constant for Vector key				
1	HEX	38	V38KEYC	Vector Key

SESSION KEY

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV38	0		1
V38CONID	1		2
V38CONLN	0		2
V38DATA	2		2
V38DATA1	0		1
V38DATA2	0		1
V38DIALN	4		3
V38DNLEN	3		3
V38HEAD	0		2
V38KEYLN	0		1
V38KLKEY	0		2
V38KLEN	1		2
V38LNTYP	0		1
V38LTKEY	1		2
V38LTLEN	0		2
V38SHMLN	0		2
V38SHMTK	1		2

## Route Status Data Control Vector (V3A)

**Function:** V3A creates a route status field in the form of a control vector (key X'3A') to be mapped onto the RSP(Route\_Test).

**Size in bytes:** 15 (X'F')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	15	ISTV3A	
0	(0)	CHARACTER	1	V3AKEY	VECTOR KEY X'3A'
1	(1)	UNSIGNED	1	V3ALEN	LENGTH OF VECTOR DATA
2	(2)	CHARACTER	13	V3ADATA	VECTOR DATA AREA
2	(2)	UNSIGNED	1	V3AVRN	VIRTUAL ROUTE NUMBER
3	(3)	UNSIGNED	1	V3ATPI	TRANSMISSION PRIORITY INDICATOR
4	(4)	UNSIGNED	1	V3AVRS	VIRTUAL ROUTE STATUS
5	(5)	ADDRESS	4	V3AERN	EXPLICIT ROUTE NUMBER
9	(9)	UNSIGNED	1	V3AERS	EXPLICIT ROUTE STATUS
10	(A)	SIGNED	4	V3AOASAS	SUBAREA OF NODE ADJACENT OF ROUTE BEING REPORTED
14	(E)	UNSIGNED	1	V3ATGNS	TRANSMISSION GROUP NUMBER FOR THE GROUP TO THE SUBAREA

### Constants

Len	Type	Value	Name	Description
1	HEX	3A	V3AKEYC	VECTOR KEY CODE

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV3A	0		1
V3ADATA	2		2
V3AERN	5		3
V3AERS	9		3
V3AKEY	0		2
V3ALEN	1		2
V3AOASAS	A		3
V3ATGNS	E		3
V3ATPI	3		3
V3AVRN	2		3
V3AVRS	4		3

SESSION  
KEY

## VR Congestion Data Control Vector (V3B)

<b>Function:</b>	V3B is used in Format 2 RSP(Route_Test) and when congestion data is being collected.
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	15	ISTV3B	
0	(0)	CHARACTER	1	V3BKEY	VECTOR KEY X'3B'
1	(1)	UNSIGNED	1	V3BLEN	LENGTH OF VECTOR DATA
2	(2)	CHARACTER	13	V3BDATA	VECTOR DATA AREA
2	(2)	UNSIGNED	1	V3BVRN	VR ROUTE IDENTIFIER
3	(3)	UNSIGNED	1	V3BTPI	TRANSMISSION PRIORITY INDICATOR
4	(4)	SIGNED	2	V3BDWMAX	MAXIMUM PACING WINDOW SIZE
6	(6)	SIGNED	2	V3BDWMIN	MINIMUM PACING WINDOW SIZE
8	(8)	SIGNED	2	V3BDWCUR	CURRENT PACING WINDOW SIZE
10	(A)	SIGNED	2	V3BDQSNB	NEXT SEQUENCE NUMBER TO BE SENT
12	(C)	SIGNED	2	V3BDQRNB	NEXT SEQUENCE NUMBER TO BE RECEIVED
14	(E)	BITSTRING	1	V3BDFLG	VR FLAG BYTE
		1... ..		V3BDBLK	0 = VR NOT BLOCKED 1 = VR BLOCKED
		.1.. ..		V3BXDTID	EXTENDED DATA FIELD 0 = NO EXTENDED DATA 1 = EXTENDED DATA

IF NO EXTENDED DATA (V3BXDTID = 0) THE FOLLOWING TWO FIELDS ARE RESERVED

		..1. ....		V3BVRPRS	WITHHOLDING VRPRS INDICATOR 0 = VRPRS'S NOT WITHHELD 1 = VRPRS'S WITHHELD
		...1 ....		V3BNOPIU	DISCARDING PIU INDICATOR 0 = PIU'S IN SEQUENCE AND NOT DISCARDED 1 = PIU'S OUT OF SEQUENCE AND BEING DISCARDED
		.... 1111		*	RESERVED
15	(F)	CHARACTER	*	V3BEXDAT	EXTENDED V3B DATA AREA

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
15	(F)	STRUCTURE	6	V3BXDATA	EXTENDED DATA FIELDS
15	(F)	CHARACTER	2	V3BXVRCN	CONTENTS OF IMPLEMENTATION-DEFINED VR CONTROL BLOCK
17	(11)	CHARACTER	2	V3BXINTH	INBOUND VR PIU THRESHOLD
19	(13)	CHARACTER	2	V3BXINCT	INBOUND VR PIU BUFFER POOL COUNT

### Constants

Len	Type	Value	Name	Description
1	HEX	3B	V3BKEYC	VECTOR CODE KEY

SESSION KEY

**Cross Reference**

Name	Hex Offset	Hex Value	Level
ISTV3B	0		1
V3BDATA	2		2
V3BDBLK	E	80	4
V3BDFLG	E		3
V3BDQRCV	C		3
V3BDQSND	A		3
V3BDWCUR	8		3
V3BDWMAX	4		3
V3BDWMIN	6		3
V3BEXDAT	F		3
V3BKEY	0		2
V3BLEN	1		2
V3BNOPIU	E	10	4
V3BTPI	3		3
V3BVRN	2		3
V3BVRPRS	E	20	4
V3BXDATA	F		1
V3BXDTID	E	40	4
V3BXINCT	13		2
V3BXINTH	11		2
V3BXVRCN	F		2

SESSION  
KEY

## Routing Data Control Vector (V42)

<b>Function:</b>	V42 provides a mapping for the routing data control vector (key X'42').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTV42	
0	(0)	UNSIGNED	1	V42KEY	VECTOR KEY X'42'
1	(1)	UNSIGNED	1	V42LEN	VECTOR DATA LENGTH
2	(2)	CHARACTER	*	V42SUBF	VECTOR SUBFIELDS

### Constants

Len	Type	Value	Name	Description
		THE DSA/NETID DATA (X'80') MUST BE THE FIRST SUBFIELD, THEN ALL EXPLICIT ROUTE DATA (X'81'), ALL VIRTUAL ROUTE DATA (X'82') AND THEN ALL VIRTUAL ROUTE WINDOW SIZE DATA (X'83') MUST COME IN ORDER VALUE FOR V42KEY		
1	HEX	42	V42KEYC	VECTOR KEY IS 42

## SDLC Station Control Vector (V43)

<b>Function:</b>	V43 provides a mapping for the SDLC station control vector (key X'43').
<b>Size in bytes:</b>	17 (X'11')
<b>Pointed to by:</b>	SCVRU, RADRU

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	17	ISTV43	
0	(0)	CHARACTER	1	V43KEY	VECTOR KEY X'43'
1	(1)	UNSIGNED	1	V43LENTH	LENGTH OF THE DATA PORTION
2	(2)	CHARACTER	1	V43PUT	PU TYPE
3	(3)	CHARACTER	1	V43F00	FLAGS
		1... ....		V43TSP	RESERVED - EXCEPT WHEN PU_1 0 → TS PROFILE 2 1
					TS PROFILE 2
		.1.. ....		V43ANS	ANSWER = CONTINUE
		..1. ....		V43POL	POLLING FOR THE SPU 0 = SNRM POLLING FOR THE
					SPU 1 = XID(NULL) POLLING FOR SPU
		...1 ....		V43NLPDA	0 = LPDA TESTING 1 = NO LPDA TESTING
		.... 1...		V43DATAM	DATA MODE 0 = HALF DUPLEX 1 = FULL DUPLEX
		.... .111		*	RESERVED - NOT AVAILABLE
4	(4)	CHARACTER	1	V43MXO	SDLC BTU SEND LIMIT MAXOUT PARAMETER VALUE
5	(5)	CHARACTER	1	V43PLM	MAX CONSECUTIVE BTUS SENT FROM PRIMARY
					STATION TO SPECIFIED SECONDARY STATION PASSLIM
					PARAMETER VALUE
6	(6)	CHARACTER	1	V43ERR	ERROR RETRY INDICATOR X'00' - NO IMMEDIATE RETRY
					X'10' - IMMEDIATE RETRY
7	(7)	CHARACTER	1	V432LP	SECOND LEVEL PAUSE
8	(8)	CHARACTER	1	V432LL	SECOND LEVEL LIMIT
9	(9)	SIGNED	2	V43MXD	MAXDATA PARAMETER VALUE
11	(B)	CHARACTER	4	*	THRESHOLD CONTROL INFORMATION
11	(B)	UNSIGNED	2	V43TNXMS	TOTAL NUMBER OF TRANSMISSIONS
13	(D)	UNSIGNED	2	V43TNERR	TOTAL NUMBER OF ERROR RETRIES
15	(F)	SIGNED	2	V43AVNOB	AVERAGE NUMBER OF BYTES EXPECTED WHEN
					STATION POLLED

### Constants

Len	Type	Value	Name	Description
1	HEX	43	V43KEYC	VECTOR KEY IS '43'X
CONSTANT FOR V43PUT (PU TYPE)				
1	HEX	04	V43PT1	PU TYPE = 1
1	HEX	02	V43PT2	PU TYPE = 2
1	HEX	01	V43PT5	PU TYPE = 4/5

SESSION KEY



## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV43	0		1
V43ANS	3	40	3
V43AVNOB	F		2
V43DATAM	3	08	3
V43ERR	6		2
V43F00	3		2
V43KEY	0		2
V43LENTH	1		2
V43MXD	9		2
V43MXO	4		2
V43NLPDA	3	10	3
V43PLM	5		2
V43POL	3	20	3
V43PUT	2		2
V43TNERR	D		3
V43TNXMS	B		3
V43TSP	3	80	3
V432LL	8		2
V432LP	7		2

## Call Security Verification Control Vector (V56)

<b>Function:</b>	V56 provides a mapping for the call security verification control vector (key X'56').
<b>Size in bytes:</b>	20 (X'14')

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	20	ISTV56	
0	(0)	CHARACTER	2	V56HEAD	Vector header
2	(2)	CHARACTER	1	*	Reserved
3	(3)	CHARACTER	17	V56ID	Security ID
3	(3)	UNSIGNED	1	V56IDLEN	Length of security ID
4	(4)	CHARACTER	8	V56DATA1	First 8 bytes of random or encrypted random data
12	(C)	CHARACTER	8	V56DATA2	Second 8 bytes of random or encrypted random data

Mapping for V56HEAD, depending on parsing rule

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	V56KEYLN	Structure for key/length parsing rule
0	(0)	UNSIGNED	1	V56KLKEY	Key
1	(1)	UNSIGNED	1	V56KLLLEN	Length
0	(0)	STRUCTURE	2	V56LNTYP	Structure for length/type parsing rule
0	(0)	UNSIGNED	1	V56LTLEN	Length
1	(1)	UNSIGNED	1	V56LTKEY	Key

### Constants

Len	Type	Value	Name	Description
Value for V56KEY				
1	HEX	56	V56KEYC	Vector Key

### Cross Reference

SESSION KEY

Name	Hex Offset	Hex Value	Level
ISTV56	0		1
V56DATA1	4		3
V56DATA2	C		3
V56HEAD	0		2
V56ID	3		2
V56IDLEN	3		3
V56KEYLN	0		1
V56KLKEY	0		2
V56KLLLEN	1		2
V56LNTYP	0		1
V56LTKEY	1		2
V56LTLEN	0		2

## Related Request Control Vector (V5E)

<b>Function:</b>	V5E provides a mapping for the related request control vector (key X'5E').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTV5E	
0	(0)	CHARACTER	1	V5EHDR	Vector Key X'5E'
1	(1)	UNSIGNED	1	V5ELGTH	Length of the data portion
2	(2)	CHARACTER	2	V5EDVECT	Data Portion of vector
2	(2)	BITSTRING	1	V5EFLAGS	Vector X'5E' flags
		11.. ....		V5ERUCAT	RU Category 00 = FMD 01 = NC 10 = DFC 11 = SC
		..1. ....		V5EMUTYP	FMD Message unit type 0 = RU 1 = GDS Variable ( Reserved when RU Category = FMD )
		...1 1111		*	Reserved
3	(3)	UNSIGNED	1	V5ERIFLN	Length Request Identifier field
4	(4)	CHARACTER	*	V5ERIF	Request Identifier field

### Constants

Len	Type	Value	Name	Description
Constant for V5EHDR Vector Header				
1	HEX	5E	V5EHDRC	Vector key is '5E'X
Constant for V5EMUTYP FMD message unit type				
0	BIT	1	V5EGDSV	GDS Variable
Constant for V5ERUCAT RU Category				
0	BIT	00	V5ERCFMD	Function Management Data
0	BIT	01	V5ERCNC	Network Control
0	BIT	10	V5ERCDFC	Data Flow Control
0	BIT	11	V5ERCSC	Session Control

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV5E	0		1
V5EDVECT	2		2
V5EFLAGS	2		3
V5EHDR	0		2
V5ELGTH	1		2
V5EMUTYP	2	20	4
V5ERIF	4		3
V5ERIFLN	3		3
V5ERUCAT	2	80	4

SESSION KEY

## Fully-Qualified PCID Control Vector (V60)

<b>Function:</b>	V60 provides a mapping for the fully-qualified PCID control vector (key X'60').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	11	ISTV60	
0	(0)	CHARACTER	1	V60KEY	Vector Key X'60'
1	(1)	UNSIGNED	1	V60LENTH	Length of vector data
2	(2)	CHARACTER	9	V60DATA	Vector data fields
2	(2)	CHARACTER	8	V60PCID	Procedure correlation ID
10	(A)	UNSIGNED	1	V60CPLEN	Length of the network qualified CP name
11	(B)	CHARACTER	*	V60CPNAM	Network qualified CP name

### Constants

Len	Type	Value	Name	Description
Value for the vector key (V60KEY)				
1	HEX	60	V60KEYNO	Vector Key is '60'X
Constant for CP name length (V60CPLEN)				
1	DECIMAL	17	V60MAXCP	Longest possible CP name length

## DSA and NETID Data Control Vector (V80)

**Function:** V80 provides a mapping for the DSA and NETID data control vector (key X'80').  
**Size in bytes:** Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	8	ISTV80	
0	(0)	UNSIGNED	1	V80LEN	VECTOR DATA LENGTH
1	(1)	UNSIGNED	1	V80KEY	VECTOR KEY X'80'
2	(2)	CHARACTER	6	V80DATA	VECTOR INFORMATION
2	(2)	UNSIGNED	1	V80TYPE	VECTOR TYPE CODE POSSIBLE VALUES ARE : V80TCD00 - REQUEST V80TCD20 - INVALID NETWORK ID V80TCD21 - CONTROL BLOCK ALLOC FAILED V80TCD22 - REJECTED EXPLICIT ROUTE, VIRTUAL ROUTE OR VIRTUAL ROUTE WINDOW SIZE DATA
3	(3)	CHARACTER	4	V80DSUBA	DESTINATION SUBAREA ADDRESS
7	(7)	UNSIGNED	1	V80LNET	LENGTH OF NETWORK IDENTIFIER FIELD
8	(8)	CHARACTER	*	V80NETID	NETWORK IDENTIFIER

### Constants

Len	Type	Value	Name	Description
VALUE FOR V80KEY				
1	HEX	80	V80KEYC	VECTOR KEY IS 80
VALUES FOR V80TYPE				
1	HEX	00	V80TCD00	REQUEST
1	HEX	20	V80TCD20	INVALID NETWORK ID
1	HEX	21	V80TCD21	CONTROL BLOCK ALLOC FAILED
1	HEX	22	V80TCD22	INVALID EXPLICIT ROUTE, VIRTUAL ROUTE OR VIRTUAL ROUTE WINDOW SIZE DATA
1	HEX	23	V80TCD23	INVALID DESTINATION SUBAREA

SESSION  
KEY

## Explicit Route Data Control Vector (V81)

<b>Function:</b>	V81 provides a mapping for the explicit route data control vector (key X'81').
<b>Size in bytes:</b>	Variable.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	ISTV81	
0	(0)	UNSIGNED	1	V81LEN	VECTOR DATA LENGTH
1	(1)	UNSIGNED	1	V81KEY	VECTOR KEY X'81'
2	(2)	CHARACTER	3	V81DATA	VECTOR INFORMATION
2	(2)	UNSIGNED	1	V81TYPE	VECTOR TYPE CODE POSSIBLE VALUES ARE : V81TCD00 - ADD OR REPLACE THE ERN DEFINITION V81TCD01 - DELETE THE ERN DEFINITION V81TCD20 - THE ER IS OPERATIVE V81TCD21 - CONTROL BLOCK ALLOC FAILED
3	(3)	CHARACTER	1	V81ERNF	ERN FIELD
		1111 ....		*	RESERVED
		.... 1111		V81ERN	ERN OF EXPLICIT ROUTE TO BE
4	(4)	UNSIGNED	1	V81LNTGI	LENGTH OF TRANSMISSION GROUP INFORMATION
5	(5)	CHARACTER	*	V81TGIBS	TRANSMISSION GROUP INFO BASE'

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	5	V81TGINF	TG GROUP INFORMATION
0	(0)	UNSIGNED	1	V81TGNUM	TRANSMISSION GROUP NUMBER
1	(1)	CHARACTER	4	V81ASUBA	ADJACENT SUBAREA ADDRESS
5	(5)	CHARACTER	*	V81THBS	THRESHOLD INFO BASE
0	(0)	STRUCTURE	12	V81THRES	THRESHOLD INFORMATION
0	(0)	CHARACTER	3	V81THLPR	LOW PRIORITY THRESHOLD
3	(3)	CHARACTER	3	V81THMPR	MEDIUM PRIORITY THRESHOLD
6	(6)	CHARACTER	3	V81THHPR	HIGH PRIORITY THRESHOLD
9	(9)	CHARACTER	3	V81THTPR	TOTAL THRESHOLD

### Constants

Len	Type	Value	Name	Description
VALUE FOR V81KEY				
1	HEX	81	V81KEYC	VECTOR KEY IS 81
VALUES FOR V81TYPE				
1	HEX	00	V81TCD00	ADD/REP THE ERN DEFINITION
1	HEX	01	V81TCD01	DELETE THE ERN DEFINITION
1	HEX	20	V81TCD20	THE ER IS OPERATIVE
1	HEX	21	V81TCD21	CONTROL BLOCK ALLOC FAILED
1	HEX	22	V81TCD22	INVALID ADJACENT SUBAREA
1	HEX	23	V81TCD23	ER-ERLIMIT CONFLICT

SESSION KEY

## Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV81	0		1
V81ASUBA	1		2
V81DATA	2		2
V81ERN	3	08	4
V81ERNF	3		3
V81KEY	1		2
V81LEN	0		2
V81LNTGI	4		3
V81TGIBS	5		3
V81TGINF	0		1
V81TGNUM	0		2
V81THBS	5		2
V81THHPR	6		2
V81THLPR	0		2
V81THMPR	3		2
V81THRES	0		1
V81THTPR	9		2
V81TYPE	2		3

## Virtual Route Data Control Vector (V82)

**Function:** V82 provides a mapping for the virtual route data control vector (key X'82').

**Size in bytes:** 4

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	4	ISTV82	
0	(0)	UNSIGNED	1	V82LEN	VECTOR DATA LENGTH
1	(1)	UNSIGNED	1	V82KEY	VECTOR KEY X'82'
2	(2)	CHARACTER	2	V82DATA	VECTOR INFORMATION
2	(2)	UNSIGNED	1	V82TYPE	VECTOR TYPE CODE POSSIBLE VALUES ARE : V82TCD00 - ADD OR REPLACE THE VRN DEFINITION V82TCD20 - NO CORRESPONDING ER SUBFIELD PROCESSED V82TCD21 - VRN IS ACTIVE ON A DIFFERENT ER VRN/ERN FIELD
3	(3)	CHARACTER	1	V82VRERF	VRN/ERN FIELD
		1111 ....		V82VRN	VRN
		.... 1111		V82ERN	ERN

### Constants

Len	Type	Value	Name	Description
VALUE FOR V82KEY				
1	HEX	82	V82KEYC	VECTOR KEY IS 82
VALUES FOR V82TYPE				
1	HEX	00	V82TCD00	ADD/REP THE VRN DEFINITION
1	HEX	20	V82TCD20	NO CORRESPONDING ER SUBFIELD PROCESSED
1	HEX	21	V82TCD21	VRN IS ACT ON A DIFF ER
1	HEX	22	V82TCD22	ER-ERLIMIT CONFLICT

SESSION  
KEY



## Virtual Window Size Data Control Vector (V83)

<b>Function:</b>	V83 provides a mapping for the virtual window size data control vector (key X'83').
<b>Size in bytes:</b>	6

Offsets						
Dec	Hex	Type	Len	Name (Dim)	Description	
0	(0)	STRUCTURE	6	ISTV83		
0	(0)	UNSIGNED	1	V83LEN	VECTOR DATA LENGTH	
1	(1)	UNSIGNED	1	V83KEY	VECTOR KEY X'83'	
2	(2)	CHARACTER	4	V83DATA	VECTOR INFORMATION	
2	(2)	UNSIGNED	1	V83TYPE	VECTOR TYPE CODE POSSIBLE VALUES ARE : V83TCD00 - ADD OR REPLACE THE VR WINDOW SIZES V83TCD20 - NO CORRESPONDING VR SUBFIELD PROCESSED V83TCD21 - VRN/TPF IS ALREADY ACTIVE V83TCD22 - CONTROL BLOCK ALLOC FAILED	
3	(3)	CHARACTER	1	V83VRTPF	VRN/TPF FIELD	
		1111 ....		V83VRN	VRN	
		.... 1111		V83TPF	TPF	
4	(4)	CHARACTER	1	V83MINWS	MINIMUM WINDOW SIZE	
5	(5)	CHARACTER	1	V83MAXWS	MAXIMUM WINDOW SIZE	

### Constants

Len	Type	Value	Name	Description
VALUE FOR V83KEY				
1	HEX	83	V83KEYC	VECTOR KEY IS 83
VALUES FOR V83TYPE				
1	HEX	00	V83TCD00	ADD/REP THE VR WINDOW SIZE
1	HEX	20	V83TCD20	NO CORRESPONDING VR SUBFIELD PROCESSED
1	HEX	21	V83TCD21	VRN/TPF IS ALREADY ACTIVE
1	HEX	22	V83TCD22	CONTROL BLOCK ALLOC FAILED

### Cross Reference

Name	Hex Offset	Hex Value	Level
ISTV83	0		1
V83DATA	2		2
V83KEY	1		2
V83LEN	0		2
V83MAXWS	5		3
V83MINWS	4		3
V83TPF	3	08	4
V83TYPE	2		3
V83VRN	3	80	4
V83VRTPF	3		3



## Unrecognized Vector Keys (UNVEC)

<b>Function:</b>	UNVEC maps the unrecognized vector keys vector (key X'FE').
<b>Size in bytes:</b>	Variable.
<b>Located in:</b>	UNVEC may be found in response data to ACTCDRM, ACTLU, ACTPU, and CINIT request units.

Offsets					
Dec	Hex	Type	Len	Name (Dim)	Description
0	(0)	STRUCTURE	2	ISTUNVEC	UNRECOGNIZED VECTOR KEY
0	(0)	CHARACTER	1	UNVECKEY	VECTOR KEY X'FE'
1	(1)	UNSIGNED	1	UNVECLEN	LENGTH OF VECTOR DATA
2	(2)	CHARACTER	*	UNVECFLD	VECTOR KEY FIELD - ONE BYTE VECTOR VALUE FOR EACH VECTOR KEY NOT RECOGNIZED

### Constants

Len	Type	Value	Name	Description
VALUES FOR UNVECKEY				
1	HEX	FE	UNVECKFE	CONTROL VECTOR FOR KEYS NOT RECOGNIZED

---

## Appendixes

<b>Appendix A. VTAM Control Block ID Codes</b> . . . . .	849
<b>Appendix B. VSCS Storage and Control Block Identifiers</b> . . . . .	851

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## Appendix A. VTAM Control Block ID Codes

You can identify certain VTAM control blocks in a storage dump by checking the ID code which begins in the first byte (offset 0) of the control block. In most control blocks, the ID code is 1 byte long. The following list shows the control block IDs. In case of duplicate codes, use other means (such as the operating environment or the control block's context) to determine the type of control block.

ID (Hex)	Control Block	ID (Hex)	Control Block
00	RPL	FE	XCNCB, YCNCB
01	RPH	FF	OCA
03	FMCB	\$PIO	PIO
05	VRBLK		
06	ICNCB		
07	LDNCB		
09	HALCB		
0A	BSCLB		
0F	ACDEB		
10	UECB		
11	DYPAB		
14	ERT		
19	PDVT		
29	LMPCB		
45	POIA		
46	POCB		
47	POMCB		
48	PORCB		
49	POWE		
4A	MALT		
50	DLRPL		
52	LUCB		
54	RUPE		
5A	PRQAB		
5B	PRBLK		
5F	CPCB		
60	NCSPL		
61	PST		
62	AMU		
63	SMP		
64	OCB		
6A	NOSPL		
6B	DSSIB		
6C	IOSIB		
75	WRE		
77	ADJSR		
81	EXLST		
96	SIBX		
97	SIBIX		
98	SIB		
99	TSCB		
9A	TSPL		
A0	ACB		
BD	UDT		
BE	INT1		
BF	COS		
C0	LOGMD		
C1	RPL6X		
D0	NIB		
EB	AUTOE		

---

## Appendix B. VSCS Storage and Control Block Identifiers

You can identify certain VSCS control blocks in a storage dump by checking an identification code at offset 0 in the control block.

### *Storage Identifiers*

<b>ID</b>	<b>Storage Type</b>
SS	Static storage
SD	Dynamic storage
ZZ	Dummy storage prefix

### *Control Block Identifiers*

<b>ID</b>	<b>Control Block</b>
CG	DTICGB
CI	DTICIA
CL	DTICLB
CM	DTICMD
DTICXWB	DTISWBs for communication services
DTIPSWB	DTISWBs for presentation services
DTISPSB	DTISWBs for presentation services abends
DTISUTB	DTISWBs for utility services abends
DTISVSB	DTISWBs for VTAM services abends
DTITXWB	DTISWBs for timer services
DTIUSWB	DTISWBs for utility services
DTIVSWB	DTISWBs for VTAM services
DTIVXWB	DTISWBs for VTAM exit services
DTIESWB	Error save area
IN	DTIWEB internal
PB	DTIPDB
PD	DTIDSB for presentation services
PG	DTIPGB
PL	DTIPLB
SA	DTISAB
SM	DTISDB
TA	DTITAB
TD	DTIGTD
TR	DTITHDR
UG	DTIUGB
VD	DTIDSB for VTAM services
VE	DTIVEIB
VG	DTIVGB
VL	DTIVLB
4I	DTIWEB IREAD internal read buffer
1R	DTIWEB IRECEIVE one-way reply
2R	DTIWEB IRECEIVE one-way send
1S	DTIWEB ISEND one-way reply
2S	DTIWEB ISEND one-way send
3R	DTIWEB IRECEIVE two-way reply
4R	DTIWEB IRECEIVE two-way send
3S	DTIWEB ISEND two-way reply
4S	DTIWEB ISEND two-way send

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VTAM V3R3 Publications . . . . .	855
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## Bibliography

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### VTAM Publications

#### VTAM V3R3 Publications

The following paragraphs describe the library for VTAM V3R3 running under both MVS and VM.

*VTAM Directory of Migration Information* (GC31-6429)

This manual contains an overview of the new functions in VTAM V3R3. For each function, it includes a brief description and references to the manuals which contain new information related to the function.

*VTAM Network Implementation Guide* (SC31-6404)

This manual contains information about how to install VTAM, how to define a network to VTAM, how to test your network definitions, and how to tune VTAM. Use this manual in conjunction with the *VTAM Resource Definition Reference*.

*VTAM Resource Definition Reference* (SC31-6412)

This manual contains the VTAM definition statements and start options. It also has information on the operands of NCP definition statements that affect VTAM. To assist VM users, this book contains an appendix describing VSCS start options. Use this book in conjunction with the *VTAM Network Implementation Guide*.

*VTAM Storage Estimates* (SK2T-2010, a diskette)

This diskette helps you estimate the storage requirements for VTAM. It contains an interactive program that guides you step-by-step through the process for estimating storage.

*VTAM Customization* (LY43-0046)

This manual enables a system programmer to customize VTAM. It discusses VTAM, VSCS, and TSO/VTAM installation exit routines, the replaceable constants module, and the communication network management (CNM) routing table.

*VTAM Operation* (SC31-6408)

This manual enables a system programmer to prepare a "run book" for a VTAM network. This book also serves as a reference manual to programmers and operators requiring detailed information about specific operator commands.

*VTAM Messages and Codes* (SC31-6405)

This manual contains, in alphanumeric order, all messages and codes issued by VTAM. These messages include VTAM messages for network operators, TSO/VTAM messages for network operators, TSO/VTAM messages for terminal users, USS messages for terminal users, and VSCS messages. This manual can be inserted into the operating system messages manual, if desired, or used as a stand-alone manual.

*VTAM Programming* (SC31-6409)

This manual describes how to use VTAM macroinstructions to send data to and receive data from (1) a terminal in either the same or a different domain, or (2) another application program in either the same or a different domain. Also included is a dictionary of VTAM macroinstructions.

*VTAM Programming for LU 6.2* (SC31-6410)

This manual describes the VTAM LU 6.2 programming interface for host application programs. This manual applies to programs that use only LU 6.2 sessions or that use LU 6.2 sessions along with other session types. (Only LU 6.2 sessions are covered in this manual, however.)

*VTAM Diagnosis* (LY43-0042)

This manual assists system programmers in identifying a VTAM problem, classifying it, and collecting information about the problem in preparation for calling the IBM Support Center. The information collected includes traces, dumps, and other problem documentation.

*VTAM Data Areas for MVS* (LY43-0043)

*VTAM Data Areas for VM* (LY43-0045)

These manuals describe VTAM data areas and can be used to read a VTAM dump. They are intended for IBM programming service representatives and customer personnel who are diagnosing problems with VTAM.

*VTAM Reference Summary* (LY43-0047)

This manual is designed as a quick reference for system programmers. This manual contains selected reference information that includes VTAM and VSCS commands, VTAM definition statements, VTAM start options, VTAM macroinstructions, and VTAM and VSCS trace formats.

*Planning and Reference for NetView, NCP, and VTAM* (SC31-6811)

This manual describes how to plan for NetView V2R1, NCP V5R3, SSP V3R5, and VTAM V3R3. It explains the functions available with NetView, NCP, and VTAM, the advantages of using them in different situations, and how to plan for the functions readers want to use. The reference part of the manual contains cross-product or cross-task reference information, which may or may not be related to planning. The manual also contains NCP storage estimates.

*Bibliography and Master Index for NetView, NCP, and VTAM* (GC31-6815)

This book contains a list of manuals that might be useful to someone planning, installing, or using a network that contains NetView V1R3, NCP V5R3, SSP V3R5, and VTAM V3R3 MVS and VM/SP. It also contains an index of topics discussed in the products' libraries. Each entry in the index is followed by the titles of the manuals discussing that topic.

## **VTAM V3R2 Publications**

You may order additional copies of the VTAM V3R2 publications by the following order numbers.

**Note:** Several of these manuals also contain information about VTAM V3R1.2 for VM and VSE, V3R1.1 for MVS and VM, and V3R1 for VSE.

*VTAM Installation and Resource Definition* (SC23-0111)

*VTAM Customization* (LY30-5614)

*VTAM Directory of Programming Interfaces for Customers* (GC31-6403)

*VTAM Operation* (SC23-0113)

*VTAM Messages and Codes* (SC23-0114)

*VTAM Programming* (SC23-0115)

*VTAM Programming for LU 6.2* (SC30-3400)

*VTAM Diagnosis* (LY30-5601)

*VTAM Data Areas for MVS* (LY30-5592)

*VTAM Data Areas for VM* (LY30-5593)

*VTAM Data Areas for VSE* (LY30-5594)

*VTAM Reference Summary* (LY30-5600)

*VTAM V3R2 Enhancements* (LD35-0270)

*VTAM Version 3 for VM/9370* (SD35-0271)

*Network Program Products General Information* (GC30-3350)

*Network Program Products Planning* (SC30-3351)

*Network Program Products Bibliography and Master Index* (GC31-6095)

## **VTAM V3R1.2 Publications**

You may order additional copies of the VTAM V3R1.2 publications by the following order numbers:

*VTAM Expanded Network Capabilities Support* (LD21-0019)

*VTAM Directory of Programming Interfaces for Customers* (GC31-6402)

## **VTAM V3R1.1 Publications**

You may order additional copies of the VTAM V3R1.1 publications by the following order numbers:

*VTAM Installation and Resource Definition* (SC23-0111)

*VTAM Customization* (SC23-0112)

*VTAM Operation* (SC23-0113)

*VTAM Messages and Codes* (ST23-0114)

*VTAM Programming* (SC23-0115)

*VTAM Diagnosis Guide* (SC23-0116)

*VTAM Diagnosis Reference* (LY30-5582)

*VTAM Data Areas for MVS* (LY30-5584)

*VTAM Data Areas for VM* (LY30-5583)

*VTAM Reference Summary* (SC23-0135)

## **VTAM V3R1 Publications**

You may order additional copies of the VTAM V3R1 publications by using the following pseudonumbers:

*VTAM Installation and Resource Definition* (ST23-0110)

*VTAM Customization* (ST23-0112)

*VTAM Operation* (ST23-0113)



*VTAM Programming* (ST23-0115)

*VTAM Diagnosis Reference* (LT70-5582)

*VTAM Messages and Codes* (ST23-0114)

*Network Program Products General Information*  
(GC30-3350)

*Network Program Products Planning* (SC30-3351)

*Network Program Products Bibliography and Master Index* (GC30-3353)

The following VTAM V3R1 publications are still orderable by their original order numbers:

*VTAM Messages and Codes for VM* (SC30-3275)

*VTAM Data Areas for MVS* (LY30-5581)

*VTAM Data Areas for VM* (LY30-5580)

*VTAM Data Areas for VSE* (LY30-5579)

*VTAM Library Supplement for X.21 SHMIMPS*  
(SD21-0010)

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## Related Publications

### NetView Release 3 Publications

The following list shows the publications associated with Release 3 of the NetView program.

*Learning About NetView: Operator Training*  
(SK2T-0292)

*NetView Installation and Administration Guide*  
(SC31-6018)

*NetView Administration Reference* (SC31-6014)

*NetView Tuning Guide* (SC31-6079)

*NetView Customization Guide* (SC31-6016)

*NetView Customization: Using PL/I and C* (SC31-6037)

*NetView Customization: Using Assembler* (SC31-6078)

*NetView Customization: Writing Command Lists*  
(SC31-6015)

*NetView Operation Primer* (SC31-6020)

*NetView Operation* (SC31-6019)

*NetView Command Summary* (SX75-0026)

*NetView Problem Determination and Diagnosis*  
(LY43-0001)

*NetView Problem Determination Supplement for Management Services Major Vectors 0001 and 0025*  
(LD21-0023)

*NetView Resource Alerts Reference* (SC31-6024)

*NetView Application Programming Guide: Program-to-Program Interface* (SC31-6093)

*NetView Storage Estimates* (SK2T-1988)

*Console Automation Using NetView: Planning*  
(SC31-6058)

*Console Automation Using NetView: Implementing*  
(LY43-0007)

### NCP Version 4 Publications

The following list shows the publications for NCP Version 4.

*NCP, SSP, and EP Generation and Loading Guide*  
(SC30-3348)

*NCP Migration Guide* (SC30-3252)

*NCP, SSP, and EP Resource Definition Guide*  
(SC30-3349)

*NCP, SSP, and EP Resource Definition Reference*  
(SC30-3254)

*NCP Customization Guide* (LY30-5571)

*NCP Customization Reference* (LY30-5612)

*SSP Customization* (LY43-0021)

*NCP, SSP, and EP Messages and Codes* (SC30-3169)

*NCP, SSP, and EP Diagnosis Guide* (LY30-5591)

*NCP and EP Reference* (LY30-5569)

*NCP and EP Reference Summary and Data Areas*  
(LY30-5570)

### NCP Version 5 Publications

The following list shows the publications for NCP Version 5.

*NCP, SSP, and EP Generation and Loading Guide*  
(SC30-3348)

*NCP Migration Guide (SC30-3440)*

*NCP, SSP, and EP Resource Definition Guide  
(SC30-3447)*

*NCP, SSP, and EP Resource Definition Reference  
(SC30-3448)*

*NCP Customization Guide (LY30-5606)*

*NCP Customization Reference (LY30-5607)*

*SSP Customization (LY43-0021)*

*NCP, SSP, and EP Messages and Codes (SC30-3169)*

*NCP, SSP, and EP Diagnosis Guide (LY30-5591)*

*NCP and EP Reference (LY30-5605)*

*NCP and EP Reference Summary and Data Areas  
(LY30-5603)*

## **Other Publications**

The following are Systems Network Architecture and other related publications.

*Systems Network Architecture Network Product  
Formats (LY43-0081)*

*Systems Network Architecture Formats (GA27-3136-9)*

*Systems Network Architecture Format and Protocol  
Reference Manual: Architectural Logic (SC30-3112)*

*OS/VS2 System Programming Library: Debugging  
Handbooks (CG0F-3821)*

Volume 1 (CG28-1047)

Volume 2 (CG28-1048)

Volume 3 (GC28-1049)

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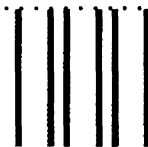
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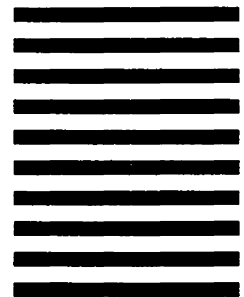
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Program Number  
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Printed in USA

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