













IBM Software Group	IBM
Event Collection – Print Utility	
ID=49,073, V=01, TSKID=0106, KEY=BB47AA342328EE00, READ SOCKET           TCPB: LL=0028, BLKID=01, VMR=0202, APAR=0001, PORT#=0037, SOCKET#=001C           SOCKET FLAG=40, PORT FLAG=00, RMT REG LE=N=0000049, RMT ACT LE=N=00000049           SPECIAL RECUEST DATA=0000000, RC-0000049, RMT RSN CODE=0000000           TIME=BB47Aa34053400, ISA=00000000000099	
ID=3D,061, V=01, TSKID=0106, KEY=BB47AA342328EE00, MSG EXIT ENTERED VAR DATA: APAR=0001, EXITN=HWSSMPL0 LEN=000A, APAR=0001, FUNC=READ, FLAG1=40, CONTENT=00 TIME=BB47AA3450854180, LSN=00000000000009A	
ID-41.065, V-01, TSKID-0118, KEY-BB47AA34394E480, MSG SENT TO OTMA DSB: LL=0038, BLKMD-21, FLAG-10, VPRE-0202, PAR-E-0001 DATASTORE, NAME-ACC-MIMD3 , DATA LEH-000001C3, DATA ADDR-004CD0A0 RC-0000000, RSH-0000000, TPIPE NAME-3383, TOKEN-600000000000 OTMA OTL TYPE-TRAN, RSSP-MIONE, COMT-NONE, CMD-NONE, PROC- , CHAIN-FL DUMP OF OTMA CONTROL SECTION FOLLOWS 000 01400000 0000F3F3 F8F34040 4040A0F0 ,3383, 0* 010 0000002 00000F3F3 F8F34040 4040A0F0 ,3383, 0* 010 0000002 00000F3F3 F8F34040 4040A0F0 ,3383, 0*	
ID-3E-D02, V-90, TSKID-0109, KEY-BB47ABA42323EE00, MSG EXT RETURN VAP DD47; APAR-0001, RE-00000000 LEN-0026, APAR-0001, FLWCTD0-MEED0, FLAGI-40, FLAG2-00, UFLAG1-00, CONTENT=98 EXPXXX RC-00000000, EXPXX RSN-0000000 IPV4; FAMIL V-0002, PORT=1005, IP ADDRESS=172.017.069.067 DATA LENGTH-0000225, CLENT DD7 TRAN0008 IRM DATA: SECTION LL=0012, APAR-0001, MSG LL=0050, FS=00, TIMER=00 SOCKET-400, SOCHEMA-00, CLENTDTG-TRAN0008 MSG DATA: LL=004E, APAR-0001, STATUS=80, ONG SN=MIDD , TIED DSN= MSG DATA: LL=004E, APAR-001, STATUS=80, ONG SN=MIDD , TIED DSN= TRADG-CE-APAR-00, TLENTDTG-TRAN0018	
LIERMIE , URRB MEINKONDO, EATI REUUD, FLAGE14, SYNCLEVEL FLAGE20 SOCKET FLAGE0, ALAGE0, AFLAGE140, FTLAGE140, FTLAGE140, FTLAGE140 TIME-BB47A3454D0E50, LSN-000000000000C	







IBM Software Group	IBM
Status Monitor – System Overview	
<u>F</u> ile Menu Form <u>H</u> elp	
Status Monitor - System Overview Row 1 of 13 Command ===>  Scroll ===> PAGE	
Interval <u>2</u> 1. 20 Seconds 3. 01-15 Minutes 5. 31-45 Minutes 7. Hour 2. Minute 4. 16-30 Minutes 6. 46-60 Minutes	
11.31.07 Input Input Accepted Routed REJROUTE Accepted Routed Message Messages Message Message Message Messages Name Type Total Per Sec Total Total Per Sec Per Sec	
TRICKLE         HWS         60         1.00         60         10         0         1.00         0.17           DSS4         DG         38         0.63         28         0         0.47         0.00           DSS4         DG         22         0.37         32         10         0.53         0.17           _TM03         DS         38         0.63         28         0         0.47         0.00           _TM04         DS         22         0.37         32         10         0.53         0.17           _UNA         DS         38         0.63         28         0         0.47         0.00           _MM5         DS         0.00         0         0         0.53         0.17           _UNROWN         DS         0.00         0         0         0.53         0.17           _UNSAWA0         EXIT         0.00         0         0         0.00         <	
Global view of activity across IMS Connect system     Seven intervals: Last 20 seconds, last Minute,last four quarters, last hour     Across various definitions: IMS Connect system , Datastore Groups, Datastores,     User Exits	Page 15

	2	Stat	us Monite	or - Port	Overview		Row 1	of 1
Command ===:	>					Sc	roll ===>	PAGE
Interval .	<u>2</u> 1.	20 Secor	nds 2.M	inute				
Port	Input Message Total	Input Messages Per Sec	Accepted Message Total	Accepted Messages Per Sec	Routed Message Total	SendOnly Messages Per Sec	RTPIPE Messages Per Sec	
- 3382 - 3383 - 3384 - 3384	30 7 7	0.50 0.12 0.12	30 7 7	0.50 0.12 0.12	0 5 0	0.00 0.00 0.00	0.00 0.00 0.00	
- 3386 - 3386 - 3387 - 3388	, 0 8 0	0.12 0.00 0.13 0.00	, 0 8 0	0.12 0.13 0.00	0050	0.00	0.00	
- 3390 - 3391 - 3392	0000	0.00 0.00 0.00 0.00	0000	0.00 0.00 0.00 0.00	0000	0.00 0.00 0.00	0.00 0.00 0.00	
- 3393	0	0.00	0	0.00	0	0.00	0.00	

















	TC Help
NSE IPIX.IMS610.PMR03284.LOG	Line 00002337 More: > Scroll ===> <u>CSR</u>
Code Description Dat	e 1999-05-06 Thursday Time (Local)
IMS Message UTC=00.54.33.468165 TranCode=NC Terminal=SATHA6A1 OrgUOWID=IMW1	07.54.33.468177 BT413H Userid=SATHA6A1 LTerm=HATHA6A1 /B233C2B3124C3F04
5 Enqueue or Re-Enqueue a Message UTC=00.54.33.468165 TranCode=NC	07.54.33.468205 BT413H OrgUOWID=IMW1/B233C2B3124C3F04
GU from the Message Queue UTC=00.54.33.468657 LTerm=NCBT4 OrgUOWID=IMW1/B233C2B3124C3F04	07.54.33.468662 13H Region=0007
03 IMS Message UTC=00.54.33.468165 TranCode=NC Terminal=SATHA6A1 OrgUOWID=IMW1	07.54.33.469973 BT2SIH Userid=SATHAGA1 LTerm=HATHAGA1 /B233C2B3124C3F04
5 Enqueue or Re-Enqueue a Message UTC=00.54.33.469989 TranCode=NC OrgUOWID=IMW1/B233C2B3124C3F04	07.54.33.469997 BT2SIH Region=0007
302 Archive padding log	07.54.33.470669
302 Archive padding log	07.54.33.470900
7 Transfer Message from Temp to P	erm Dest at SYNCPOINT 07.54.33.476876

<u> </u>	<u>Menu Mode Filter Navigate UTC H</u> elp	
BROWS E Command	IPIX.IMS610.PMR03284.LOG Line	e 00002337 More: > Scroll ===> <u>CSR</u>
code	Description Date 1999-05-06 Thursday	⊤ime (Local)
a 55 - 03 - 4302 - 4302 - 4302 - 37 - 37 - 31 - 37 - 56 - 57 -	Enqueue aver Re-Enqueue a Message Gu from the Message Queue INS Message Enqueue or Re-Enqueue a Message Archive padding log Transfer Message from Temp to Perm Dest at SYNCPOINT Transfer Message from Temp to Perm Dest at SYNCPOINT GU from the Enqueue or Re-Enqueue a Message Enqueue or Re-Enqueue a Message External Subsystem External Subsystem External Subsystem External Subsystem External Subsystem External Subsystem External Subsystem	07, 54, 33, 448205 07, 54, 33, 463652 07, 54, 33, 463907 07, 54, 33, 463907 07, 54, 33, 470600 07, 54, 33, 470600 07, 54, 33, 470600 07, 54, 33, 470600 07, 54, 33, 470804 07, 54, 33, 478504 07, 54, 33, 478504 07, 54, 33, 478504 07, 54, 33, 478504 07, 54, 33, 478146 07, 54, 33, 478146 07, 54, 33, 478140 07, 54, 33, 480400 07, 54, 33, 480400 07, 54, 33, 480400 07, 54, 33, 480400 07, 54, 33, 5404000 07, 54, 33, 54040000 07, 54, 33, 54040000000000000000000000000000000000

<u>F</u> ile	Menu Help		
BROWSE	IPIX.IMS610.PMR0328	4.LOG	Line 0000000
Comman	d ===>		Scroll ===> <u>CSR</u>
******	****	**** Top of data *******	********
+0004	Code OI IMS Mess	age	
+0A3A	STCK B233C2A4649A35	06 LSN 00000000	056CF420
	Date 1999-05-06 Inu	rsday I1me 07.54.18	.076579
+0000	MSGLRLL 0A4A	MSGLRZZ 0000	MSGLCODE 01
+0005	MSGFLAGS D1	MSGDFLG2 81	MSGFPADL 94
+0008	MSGMDRRN 080000ED	MSGRDRRN 080000ED	MSGPRFLL 0264
+0012	MSGCSW 00	MSGDFLG3 00	
+0014	MSGUOW Unit of Wo	rk (UOW) - Tracking	
+0014	MSGORGID 'IMW1 '	MSGORGTK B233C2A464	942D06
+0024	MSGPROID 'IMW1 '	MSGPROTK B233C2A464	942D06
+0034	MSGUFLG1 00	MSGUFLG2 00	
+0036	MSGRSQTY 00	MSGDOFS 0000	MSGDRBN 00000000
+0040	MSGSSEGM Message Pr	efix System Seament: Ite	m ID = 81
+0040	MSGSILL 0040	MSGSIID 81	MSGCFLG1 00
+0044	MSGCFLG2 C8	MSGCFLG3 00	MSGCQSF1 00
+0047	MSGCQSF2 00		
+0048	MSGPTERM Full Physi	cal Input Terminal ID	
+0048	MSGILINE 00000000	MSGITERM 00000000	
+0050	MSGTISEQ 0000	MSGPREFO 0	MSGPREFI 0
+0056	MSGSETS 00	MSGRESO1 00	MSGRECCT 0
+0060	MSGIDSTN FDFFFFFF1D	8AF460	
+0068	MSGODSTN TAST075N	MSGIHSQN 0000000000	000000
+0078	MSGFMTNM		
+0080	MSGEPHDR Extended P	refix System Segment; It	em ID = 86
8	Ø:00.1	, , , , , , , , , , , , , , , , , , , ,	04/1

BROWSE	IPIX.IMS610.PMR03284.LOG		Line 00000028
Comman	d ===>		Scroll ===> <u>CSR</u>
+0080 +0086	MSGSILL 0010 MSGSIID MSGEPFL1 FC MSGEPFL2.	86 00	MSGEPTL 01E4
+0090 +0090 +0094 +0095	LU62PREF MVS APPC System Segme LUP_LENGTH00F6 LUP_MSG_PREFIX_TYPE00 LUP_CONVESATION TYPE 'M'	nt for LU(	5.2; Item ID = 87
+0096	LUP SYNC LEVEL 'N'		
+0097	LUP_MSG_TYPE 89 LUP_MSG_F	LAG	. 80
+0099	LUP_RACF_OPT 00 LUP_NETWO	RK_ID	. 'GTEDCAL '
+00A4	LUP_LUNAME'SAAMVSS3'		
+00AC	LUP_MODENAME 'OPENAPPC'		
+00B4	LUP_SIDENAME		
+00C4	LUP_LUMBLK_TOKEN 1D8AF460		Notice the APPC data in this
+00C8	LUP_USER_ID DTPACGOS		01 mossage record
+0000	LUP_GROUP_NAME 00000000000000000000000000000000	000	of message record
+0008	LUP_TP_ID IC/A06D00004a	94L	IMSPI "understands" the
+00E0	LUP_INANCODE TASTOTSN		information contained in
+00E4	LUP TOKEN B233C2446423C	806	every IMS Log record and
+00FC	LUP FLAGS		makes it available to you.
+0100	LUP_LUWID LUW ID		
+0100	LUP_LUWID_LENGTH 00		
+011A	LUP_TPN_LENGTH 0008		
+011C	LUP_TPNAME 'TASTO75N'		
+0124	UTOKLENGTH 50		
+0125	UTOKNAME		
	+0000 01804655 51555555 55555555	55555555	**
지표	Ø:00.1		04/15

IBM Software C	Group	IBM
IMS PI - Log Red	cord Flags	
<u>F</u> ile <u>M</u> enu <u>H</u> elp		
BROWSE IPIX.IMS610.F Command ===>	MR03284.LOG	Line 00000000 Scroll ===> <u>CSR</u>
+0006 MSGDFLG2 81	Flags from QDFLG2 of QDEST	
<b>On</b> QDF2PRM 80	This Destination is permanent and implies that fields exist for I. Average Msg length 2. Enqueue and Dequeue counts 3. Name field If the above bit is off, the fields are assumed to be abse	IMSPI "knows" about Flags. Zoom to see which bits are on or off.
off QDF2BKR 40	Backup queue is required, either for Resend or Conversational proces	55
off QDF2QMOV 20	QMOVE in Process : XRF	
off ODF2CLOB 08	Cleanup Check Request Flag : XRF	
off QDF2MDEL 04	Message Deletion in Progress Flag	: XRF
Off QDF2BTYP 03	Destination Type bits	
On QDF2SMB 81 Off QDF2CNT 82	Generated SMB - Transaction Generated CNT - Logical Terminal ********* End of data ****************	***
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IBM Software Group
IMS PI - Zooming-in on Log Record Fields
<ul> <li>Zoom allows you to drill down to obtain more information about a log record's fields</li> <li>From the Formatted Record display (previous foils), simply position the cursor at any field of interest and press Enter</li> </ul>
Zoom provides additional field analysis and detailed field description
<u>F</u> ile Menu <u>H</u> elp
Command ==>> Scroll ===> CSR +0068 MSGODSTN 'NCBT2SIH'
Command ==>> Scroll ==>> CSR +0068 MsGoDSTN 'NCBT2SIH' Destination CNT Name or SMB Name. For APPC transaction, Dest field made up of 2 parts: Dest Type and Dest address - valid only if MsGoZAPP flag on. 1. MsGoDSZ1 APPC (LU6.2) Dest Type QAB/TIB 2. MsGoDSZ1 APPC (LU6.2) Dest Addr QAB/TIB 2. MsGoDSZ1 APPC (LU6.2) Cost Addr QAB/TIB

IBM Software Group	IBM
IMS PI – Other Features	
Formatted display or ISPF browse	
► ISPF dialog or command interface	
Batch reporting option	
Forms to personalize record reporting layouts	
DBRC log selection and sysplex support	
Extract function to produce reduced log files	
Support for IMS Versions 6, 7 and 8	
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IBM Software Group	IBM
Setting Up a Monitoring Run	
The ISPF interface is used to build a Report Set	
1. Choose the report category	
E.g. Log Transit Time Analysis or Monitor System IWAIT reports	
<ol><li>For each category, select specific reports required</li></ol>	
User-friendly 'Windows Explorer'-like interface	
3. For each report choose one or more report sequences and selection criteria	
Selection can be by wild card or using a predefined "object list"	
E.g. transit time report sorted by USERID where trancode is "ACC*"	
<ol><li>"Activate" the actual reports you want to print from the report set</li></ol>	
5. SAVE the report set (if required) and RUN the analysis	
Run Time Options	
Generate JCL and run it	
<ul> <li>Generate JCL, EDIT JCL, and run it</li> </ul>	
<ul> <li>Generate JCL with control statements, edit control statements, and run it</li> </ul>	
For IMS Log analysis, DBRC can be used to select log files	
<ul> <li>Generated control statements can reference log date by relative day number (to = 0)</li> </ul>	day
Same job can be run every day without editing	
	Page 38



Log Reports         IBM Software Group           Full Function Analysis Report	orts	You have a large selection to choose from!	IBM
<ul> <li>Scheduler</li> <li>Latch management</li> <li>Logger</li> <li>Dispatcher (TCBs)/ Dynamic SAPs</li> <li>Numbers of conversations</li> <li>Recany buffer usage</li> <li>RACF SIGN-ON</li> <li>Message Queue Utilisation</li> <li>Data Base Update Activity</li> <li>OSAM Sequential Buffering</li> <li>Deadlock (new in IMS PA 3.2)</li> <li>Checkpoint (new in IMS PA 3.2)</li> <li>BMP Checkpoint (new in IMS PA 3.3)</li> </ul>	■ Trans ■ Trans IMS P ■ Resol ■ CPU U ■ Pools → M → DI = EPI → C. BQ ■ Progr ■ IRLM ■ DL/I c	action Transit Time Analysi action Resource Usage (ne A 3.2) irce Availability Jsage essage queue, MFS, DB buffer MB, PSB, DMB Work, PSB Wo CB OP, HIOP, CESS, AOIP, EMHI VP, LUMP and LUMC ontrol blocks (DDIR, SMB, TCB EL, etc. etc.) am isolation statistics alls	is w in s, rk, B, T,
		_	Page 41

■Prov	oard vides a	Repo	ort « overv	view o	f critica	al syste	m perfo	rmance www.
		<u> </u>	Dashbr	ard				
Start : 27	/Aug2003 00.	.09.00.07	End :	: 27Aug200	3 23.59.00.	06 In	terval : 23	.50.00 (HHHH.MM.SS)
		Tr	ansaction T	íransit Ti	me (millise	conds)		
	Count	t	In Q	Exec	Out Q	Total		
MPP	43809	9	387	217	67	671		
JMP	10	)				2,072		
01MA	120	o 2	.,860	1,113	0	3,9/3		
CDIC	420	9 122	,301	2,440	0	101,/4/		
MSC	1425	9	23	20	0	51		
MSC Send	370	8	23	2.9		31		
RMP		· · ·	056	1 736	0	2 792		
JBP	î	0	,050	1,/00				
IFP	1314	7 9	9.448	2,158	0	11,606		
DBCTL	96	6		-,				
Unknown		1	0	2,001	0	2,001		
		Me	ssage Queue	Pool Sta	tistics			
Locater	1 220	640	Doads .	2	160 TWA	ITe .	200	
In Pool:	1,229	380	Writes:	1.8	00 I/0	Frrors	200	
111 1 0011	1,229,	500	111003.	1,0	<i>yy</i> 1/0	LITOT3.	•	
			0SAM	1 Buffer P	'ool Statist	ics		
-ID-	Size C	ount	Locates	In	i Pool	Read IO	Write IO	Waits
A1DD	512	4	70,844	7	0,840	4	0	1
BIDD	1,024	64	1,071		1,059	94	0	2
C100	2,048	4	U		0	U	0	U
D10P	4,096	256	6 244		5 004	000	710	0
E203 2	2 768	250	0,244	c	5,904	156	149	10
FIDD 5	2,768	4	95,029	9	3,018	120	149	10











IMS	Conne	et <sub>IBM</sub>	Sof	twar	e G	rour	,														I	BJ	Ā
IMS	s Co	nne	ct	T	ra	ns	it	Ar	nal	lys	sis	R	ер	or	t				MM4,	74- i	Nev n 3	M2 N .3	- NMM
					Fr	rom 01	IMS Apr2(	Conn 004 1	ect Tr 6.30.(	<u>ansit</u> 36.98	Ana To	lysis 21Apr20	004 1:	3.55.1	10.56			P	age	Z.	m	N42	
Transact Code	Time	Message Count		Respo Tir	onse me	Pre-	OTMA	READ	Input Sock	READ	Ex	SAF	-Pro 0'	ocess- TMA	Ci	onfirm	Output Post-OTM4	XMIT	Ra Ex /S	te T iec (	Time Outs	NAK	
DSPALLI	16.57.00	40	Avg 80%	627	.906	351 461	.026	34 45	5.913	0.1	.15 140	0.000	17	79.67	5 —	0.000	97.205 202.327	0.1	34 72	1	0	0	
	16.58.00	60	Avg 80%	739. 1.029	.120	405 538	.811	39 52	7.993 7.321	0.2	.05 /42	0.000	22 4	24.443 35.416	7 6	0.000	108.861 206.930	0.1	76 25	1	0	0	
	15.00.00	1	Avg 80%	379. 379.	.674	303 303	.223	30) 30)	2.479	0.1	.31 131	0.000		74.694	4	0.000	1.755	0.1	25 25	0	1	0	
DSPALLI	15.01.00 Subtotal	10	Avg 80% Avg	289. 309 655	.210 .454 .272	255 278 371	.241	25 27 36	4.592 7.839 5.446	0.1 0.1 0.1	33 .68 166	0.000	1	29.550 33.428 89.409	3 8 9	0.000	4.519 8.854 94.29f	0.1	16 49 55	0 2	0	2	
IN	1S C	Conr	۱e	ct	T	rar	าร 	it	Lo	g	Re	epc	Ort	DA					Dago		1		
Start HH.MM.S	Time S.THmiju	Transact Code	; Tar Data	rget aStor	Por Num	rt ber	Res T	ponse ime	Pre	-OTMA	READ	Input Sock	READ	Ex S	SAF	-Proce OTM	ess A Cor	ifinm	Page Output Post=0	TMA	XMIT	Ex E	
10.48.3 10.48.3 10.48.4	0.652239 1.165843 44.439308	DVPTRANS DVPTRANS DVPTRANS	IMD4 5 IMD4 5 IMD4	4 3	1	3801 8801 8801	51 63	2.956 2.746 8.705	23	1.262 0.719 3.365	23	0.355 0.275 32.164	0.2	39 0 47 0 50 0	0.000	131. 0 145	.904 37 .689 .504 25	9.666 0.000 9.803	379. 1. 259.	789 337 836	0.1 0. 13.	143 105 N 581	1
10.48.4 10.48.4 10.48.4 10.48.4	5.479782 6.407703 17.455008 18.403977	DVPTRANS DVPTRANS DVPTRANS DVPTRANS	IMD3 IMD3 IMD3 IMD3 IMD3	3	8	3801 3801 8801 8801	61 63 64 63	9.949 1.340 1.975 8.017	5	J.983 1.198 0.839 0.725		0.373 0.507 0.388 0.357	0.1	74 ( 43 ( 61 ( 32 )	0.000 0.000 0.000 0.000	65. 60. 43 15	.249 bb .516 56 .400 59 .356 62	3.684 9.538 7.644 0.419	553. 569. 597. 1.	715 626 735 516	0.1	.19 105 117 228	
10.49.0 10.49.0 10.49.0	16.240175 16.837155 17.549765	IVTCV IVTCV IVTCV	IMD3 IMD3 IMD3	3	-	3801 8801 8801	29 71	4.089 2.028 2.668	s (	).743 0.745 0.523		0.249 0.392 0.234	0.1	99 ( 35 ( 88	0.000	75 101 0	.222 21 .217 61 .749	8.048 0.034 0.000	218. 610. 1.	123 065 394	0.1	116 122 045 1	Ņ
																					Pa	je 4	7

IMS Connect	BM Software Group		NNMUIEM
IMS Con	nect Resource Usa	age Reports	New Min 3.3
	IMS Connect Exception Su From 22Apr2004 09.02.04.64 To ID Description	mmar <u>y - DVPCEGDA</u> 22Apr2004 09.02.04.81 Total	- MMM
	11 Datastore Un-Available 13 TMember leaves XCF group 41 Msg to OTMA response is NAK 42 Msg from OTMA response is NAK RSN-14 Second client-bid sent, fi RSN-24 Previous conversation stil 45 OTMA time-out 47 Session error	65 64 156 12 12 1 in progress 11 342 173	
Event Time	IMS C	onnect Exception Report - DVPCFGDA Report from 04Mar2004 10.19.36.22 Information	
10.19.36.229174 10.19.36.234938 10.19.36.376444 10.19.36.380776 10.27.50.682345 10.27.50.684494 10.27.50.944613 08.49.02.395660 08.50.20.882001 08.50.20.882091	11 Datastore Un-Available 11 Datastore Un-Available 13 TMember leaves XCF group 11 Datastore Un-Available 13 Tatastore Un-Available 13 TMember leaves XCF group 13 TMember leaves XCF group 14 Msg to OTMA response is NAK 11 Datastore Un-Available 47 Session error	DSname+XCFMIMD3 DSname+HVSDEV3 DSname+HVSDEV3 DSname+KVSDEV4 DSname+CKFMIMD3 DSname+CKFMIMD4 DSname+HVSDEV3 DSname+CKFMIMD4 DSname+CKFMIMD4 DSname+CKFMIMD3 Type=FERM	-0000

