Advanced Technical Support

Networking Systems Center

SNA Customization for Tivoli Software Distribution 3.1.3 for Windows NT Communicating with NetView DM/MVS

This document provides three different samples of customizing Tivoli Software Distribution 3.1.3 for Microsoft Windows NT to communicate with NetView DM/MVS using SNA. The samples use IBM Communications Server, IBM Personal Communications, and Microsoft SNA Server. The samples were testing at the Networking Systems Center in Gaithersburg, Maryland. Please contact Neil Armstrong (<u>narmstr@us.ibm.com</u>) if you have questions. Special thanks to Kathryne O'Brien for her work on this document.

SNA Customization for Tivoli Software Distribution 3.1.3 for Windows NT, Using IBM Communications Server and NetView DM/MVS

Purpose:

This section details the definitions necessary to create two-way communications between a Tivoli Software Distribution 3.1.3 Server on MS Windows NT and Netview DM/ MVS 1.6 with the SNA protocol.

Environment:

MS Windows NT Server or Workstation 4.0 with Service Pack 3 IBM Communications Server 5.01 TME 10 Software Distribution Server 3.1.3 with all maintenance through FixPack 0298 Netview DM/MVS 1.6.1 or 1.6.2

Planning your environment:

You will need to replace the names, both network names and software distribution names, used in this document with the appropriate values for your environment. You will need to exactly match values, such as LU name, between IBM Communications Server, Software Distribution 3.1.3 Server and NetView DM/MVS. Please remember that Software Distribution 3.1.3 is case sensitive.

Names are chosen by the user but must match between a Focal Point (NetView DM/MVS) and a Change Control Server (Software Distribution 3.1.3 Server for Windows NT). A list of the names used in this example follow below:

NDMR6	NetView DM/MVS application name
USIBMWZV	SNA network ID
NTCMLU0	SNA LUNAME used for communication at CC server and host
NDM2LU62	SNA LOGMODE entry used at CC server and at host
NTCMLU0	Target address of CC server
WZVCDRM	MVS control point name

Please check with your installation's VTAM system programmer for the correct values for the above parameters in your environment. Although the SNA LUNAME for the CC server and the Target Address of the CC server match in this example, it is NOT required that these two values be identical.

Customization Tasks from MS Windows NT:

On the Windows NT system, you will need to install and customize both Tivoli Software Distribution 3.1.3 Server and IBM Communications Server. The following steps walk you through this process. In addition there is documentation on the IBM Communications Server customization in the 0298 fixpack level of the Software Distribution 3.1.3 Server for Windows NT Quick Beginnings manual, SH19-4335.

- 1. Install IBM Communications Server V5.01. This is the minimum level required to establish communications in a software distribution environment. During the install, you will also install the IBM Link Level 2 (LL2) protocol stack used by IBM Communications Server. IBM LL2 provides link services.
- 2. Install Tivoli Software Distribution Server 3.1.3 with all maintenance through fixpack 0298 or later. Fixpacks are available on the Internet. They can be downloaded from ftp://ftp.software.ibm.com/ps/products/SD_server/fixes/. Follow the instructions that come in the README file. The base code and fixpack 0298 can also be found on the Tivoli Software Distribution CD, order number LCD4-0491-03.
- 3. Modify the Software Distribution Server definition using the "nvdm updtg" command to reflect the correct domain address and target address. The target definition for this example is shown next:

Description: INITIAL TARGET CONFIGURATION RECORD	
Customer name:	
Contact name:	
Telephone number:	
Manager:	
Mailing address:	
Target access key: (none)	
Mode: Push	
Type: SERVER	
Operating system: WINDOWS_NT	
Target address: NTCMLU0	
Domain address: NTCMLU0	
LAN address:	
CM window: 12:00:00AM - 11:59:00PM	
Distribution window: 12:00:00AM - 11:59:00PM	
Network: TCP sdsrvl	
Logging level: Normal	
Tracing state: Off	
Installation parms: BOOTDRIVE=C:	
FREEDRIVE1=B:	
FREEDRIVE2=E:	
FREEDRIVE3=F:	
FREEDRIVE4=G:	
FREEDRIVES=H:	
LOGI=EXTLOGI	
LOG2=EXTLOG2	
LOG3=EXTLOG3	
LOG4=EXTLOG4	
LOG5=EXTLOG5	
RSPFILE=D:\SOFTDIST\work\RSPFILE	
Shared tokens: (none)	
Hardware parms: (none)	
Discovered inventory: (none)	

4. Use the "nvdm addtg" command to add a Software Distribution target definition to represent the NetView DM/MVS host target. Define the target mode as a focal point, the target type as server, and ensure you define the target and domain addresses correctly. The target address must be the same as

the VTAM APPL name for NetView DM, and the domain address must be the SNA network ID. The target definition for the MVS host in our test follows.

Target:	NDMMVS
Description:	
Customer name:	
Contact name:	
Telephone number:	
Manager:	
Mailing address:	
Target access key:	(none)
Mode:	Focal
Type:	SERVER
Operating system:	
Target address:	NDMR6
Domain address:	USIBMWZV
LAN address:	
Network:	APPC USIBMWZV.NDMR6

5. Modify the routetab file found in the softdist\db directory to reflect SNA protocol and the correct filename of your SNA connection file. In this example, connsna is the connection file name. The file name is case sensitive. Be careful not to imbed any null characters in this file. Use 'edit' instead of 'notepad' to modify this file. The example routetab used is shown below:

NETWORK PROTOCOL	:			BOT	H
USIBMWZV.NDMR6	ANY	ANY	ANY	ANY	connsna
.	ANY	ANY	ANY	ANY	connsna

6. Modify the SNA connection file found in softdist\db\snadscon directory to reflect the definitions necessary for your environment. Make sure the next dsu parameter points to the MVS host itself and the TP symbolic names match the CPIC names defined in IBM Communications Server. The example SNA connection file, connsna, is shown below:

PROTOCOL:	APPC
TYPE:	SNA
SEND TP SYMBOLIC DESTINATION:	NVDMSIDS
RECEIVE TP SYMBOLIC DESTINATION:	NVDMSIDR
NEXT DSU:	USIBMWZV.NDMR6
TRANSMISSION TIME-OUT:	60
RETRY LIMIT:	3
SEND MU_ID TIME-OUT:	60
RECEIVE MU_ID TIME-OUT:	120

7. Build the IBM Communications Server definitions for the Connection, Link Services, Mode entry, Local LU, Remote LU, SNA Server, and CPIC names for send and receive. The example SNA definitions used are shown below. Remember that the Control Point Name can not be the same as the Logical Unit Name for any resource. Remember to match the CPIC names with the names used in step 6. Look at the Software Distribution Server for Windows NT Up and Running (Quick Beginnings) softcopy manual for detailed information on how to create these definitions using a GUI

```
NODE = (
     ANYNET SUPPORT=ANYNET SUPPORTED
     CP_ALIAS=NTCMPU
     DEFAULT_PREFERENCE=NATIVE
     DISCOVERY SUPPORT=NO
     FQ_CP_NAME=USIBMWZV.NTCMPU
     MAX_COMPRESSION_LEVEL=RLE
     NODE ID=05D35154
     NODE_TYPE=END_NODE
     REGISTER_WITH_CDS=1
     REGISTER_WITH_NN=0
)
PORT=(
     PORT NAME=LAN0 04
     DLC_DATA=0000000000004
     DLC NAME=LAN
     IMPLICIT_CP_CP_SESS_SUPPORT=1
     IMPLICIT_DEACT_TIMER=0
     IMPLICIT_DSPU_SERVICES=NONE
     IMPLICIT_DSPU_TEMPLATE=00000000
     IMPLICIT_HPR_SUPPORT=1
     IMPLICIT LIMITED RESOURCE=NO
     LINK_STATION_ROLE=NEGOTIABLE
     MAX_IFRM_RCVD=8
     MAX_RCV_BTU_SIZE=65535
     PORT TYPE=SATF
     PORT_LAN_SPECIFIC_DATA=(
          ACK_DELAY=100
          ACK_TIMEOUT=10000
          ADAPTER_NUMBER=0
          BUSY STATE TIMEOUT=15
          IDLE STATE TIMEOUT=30
          LOCAL_SAP=04
          OUTSTANDING_TRANSMITS=16
          POLL_TIMEOUT=8000
          POOL SIZE=32
          REJECT_RESPONSE_TIMEOUT=10
          TEST_RETRY_INTERVAL=8
          TEST_RETRY_LIMIT=5
          XID_RETRY_INTERVAL=8
          XID_RETRY_LIMIT=5
     )
)
LINK_STATION=(
     LS NAME=LSMVS
     ACTIVATE AT STARTUP=1
     ADJACENT_NODE_ID=05D12345
     ADJACENT_NODE_TYPE=APPN_NODE
     AUTO ACTIVATE SUPPORT=0
     CP CP SESS SUPPORT=1
     DEFAULT_NN_SERVER=0
     DEST_ADDRESS=40003320278904
     DISABLE REMOTE ACT=0
```

```
DSPU SERVICES=NONE
     FQ_ADJACENT_CP_NAME=USIBMWZV.WZVCDRM
     HPR_SUPPORT=0
     LIMITED_RESOURCE=NO
     LINK DEACT TIMER=0
     LINK STATION ROLE=USE ADAPTER DEFAULTS
     MAX IFRM RCVD=0
     MAX_SEND_BTU_SIZE=65535
     NODE ID=05D35154
     PORT NAME=LAN0 04
     PU NAME=NTCMPU
     SOLICIT_SSCP_SESSION=1
     TARGET_PACING_COUNT=1
     TG NUMBER=0
     USE_DEFAULT_TG_CHARS=1
)
DLUR DEFAULTS=(
     DEFAULT_PU_NAME=NTCMPU
     DLUS_RETRY_LIMIT=3
     DLUS_RETRY_TIMEOUT=5
)
LOCAL LU=(
    LU NAME=NTCMLU0
     LU ALIAS=NTCMLU0
     LU_SESSION_LIMIT=0
     NAU ADDRESS=0
     ROUTE TO CLIENT=0
     SYNCPT_SUPPORT=0
)
MODE=(
     MODE_NAME=NDM2LU62
     AUTO_ACT=2
     COMPRESSION=PROHIBITED
     COS_NAME=#CONNECT
     CRYPTOGRAPHY=NONE
     DEFAULT RU SIZE=1
     MAX NEGOTIABLE SESSION LIMIT=8
     MAX_RU_SIZE_UPPER_BOUND=4096
     MIN CONWINNERS SOURCE=4
     PLU MODE SESSION LIMIT=8
     RECEIVE PACING WINDOW=7
)
PARTNER LU=(
     FQ PLU NAME=USIBMWZV.NDMR6
     ADJACENT_CP_NAME=USIBMWZV.WZVCDRM
     CONV_SECURITY_VERIFICATION=0
     MAX MC LL SEND SIZE=32767
     PARALLEL_SESSION_SUPPORT=0
     PARTNER_LU_ALIAS=NDMR6
     PREFERENCE=USE_DEFAULT_PREFERENCE
)
TP = (
     TP NAME=21007
     API CLIENT USE=0
     CONVERSATION_TYPE=EITHER
     DUPLEX SUPPORT=EITHER DUPLEX
```

```
DYNAMIC LOAD=1
     INCOMING_ALLOCATE_TIMEOUT=30
     LOAD_TYPE=1
     PATHNAME=c:\softdist\bin\fndts.exe
     PIP ALLOWED=1
     QUEUED=1
     RECEIVE ALLOCATE TIMEOUT=3600
     SECURITY_RQD=0
     SYNC_LEVEL=EITHER
     TP INSTANCE LIMIT=0
     TP NAME FORMAT=1
)
TP=(
     TP NAME=21008
     API_CLIENT_USE=0
     CONVERSATION_TYPE=EITHER
     DUPLEX SUPPORT=EITHER DUPLEX
     DYNAMIC_LOAD=1
     INCOMING_ALLOCATE_TIMEOUT=30
     LOAD_TYPE=1
     PATHNAME=C:\SOFTDIST\BIN\FNDTR.EXE
     PIP ALLOWED=1
     QUEUED=1
     RECEIVE ALLOCATE TIMEOUT=3600
     SECURITY_RQD=0
     SYNC_LEVEL=EITHER
     TP INSTANCE LIMIT=0
     TP_NAME_FORMAT=1
)
CPIC_SIDE_INFO=(
     SYM DEST NAME=NVDMSIDR
     CONVERSATION_SECURITY_TYPE=NONE
     MODE_NAME=NDM2LU62
     PARTNER_LU_NAME=USIBMWZV.NDMR6
     TP_NAME=21008
     TP_NAME_TYPE=SNA_SERVICE
)
CPIC_SIDE_INFO=(
     SYM DEST NAME=NVDMSIDS
     CONVERSATION_SECURITY_TYPE=NONE
     MODE NAME=NDM2LU62
     PARTNER LU NAME=USIBMWZV.NDMR6
     TP_NAME = 21007
     TP NAME TYPE=SNA SERVICE
)
ADJACENT_NODE=(
     FQ_CP_NAME=USIBMWZV.WZVCDRM
     LU ENTRY=(
          WILDCARD LU=0
          FQ_LU_NAME=USIBMWZV.NDMR6
     )
)
SPLIT_STACK=(
     POOL NAME = < None >
     STARTUP=1
)
VERIFY=(
```

```
CFG_MODIFICATION_LEVEL=12
CFG_VERSION_LEVEL=1)
```

Customization Tasks for NetView DM/MVS 1.6.2

NetView DM/MVS 1.6.2 installs via standard SMP/E processes, as described in the Program Directory. To tailor NetView DM for your environment you must do the customization tasks outlined below. Reference the NetView DM Release 6.2 Installation and Customization Guide, SH19-6794-05, especially chapters 1,2,11,12,15.

 Code and assemble Stage 1 macros. These macros allow you to specify your unique operating environment. Alternatively, you can use an installation dialog via ISPF. The dialog panels use keywords that are the equivalent, but not always identical, to the keywords shown in the macros below. Stage 1 creates a batch job which you then submit in order to assemble the tables NetView DM needs, define VSAM files NetView DM will use and create other required libraries.

NDMGEN	GENTYPE=INSTALL,
	ADMID=USERID,
	CLISTLB=NVDM.V162.NDMCLST,
	SKELLIB=NVDM.V162.NDMSKLS,
	LOAD=NVDM.V162.SFZDLOAD,
	SMS=YES
NDMNODE	TYPE=SRVR,FUNC=CMEP,XMFUNC=(SEND,RETR,DELE),
	RESTYPE=(0060,0070,0080,0100,0120,0220,0230,0240,0250)
NDMNODE	TYPE=CLNT, FUNC=CMEP, XMFUNC=(SEND, RETR, DELE),
	RESTYPE=(0060,0070,0080,0100,0120,0220,0230,0240,0250)
NDMTCP	APPLID=(NDMR6,*),
	<pre>IAPPLID=(NDMR6IOF,*),</pre>
	APPC=YES,
	AUTOSTR=YES,
	AUTOEND=NO,
	DDPREQ=YES,
	OPCTL=NETV,
	RESWAIT=120,
	RETRY=3,RETINT=10,
	SWDLY=5,SWRTRY=5,
	MAXTASK=(20,1),
	STALINE=1,
	SUFFIX=01,
	TIMEOUT=20,
	NETCHNG=IMMEDIATE,
	HOPCNT=5
NDMGIX	SUFFIX=01,NETCHNG=IMMEDIATE
NDMBATCH	SUFFIX=01,NETCHNG=IMMEDIATE,PSWD=OPTIONAL
NDMCOM	HCCSID=0025,SERVER=NO
NDMCP	CPNAME=NOPOLL, POLLING=NO
NDMRES	TYPE=0070, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMRES	TYPE=0080,TRACK=YES,DEFINE=CAN,ASSIGN=CAN
NDMRES	TYPE=0100,TRACK=NO,DEFINE=CAN,ASSIGN=CAN
NDMRES	TYPE=0120,TRACK=YES,DEFINE=CAN,ASSIGN=CAN
NDMRES	TYPE=0220, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMDEF	
NDMDATA	TYPE=LIBD, DSN=NVDM.V162.NDMLIB, DELETE=NO
NDMDATA	TYPE=LIB,DSN=NVDM.V162.NDMLIBT,DELETE=NO

NDMDATA	TYPE=HFD,DSN=NVDM.V162.NDMHFDI,DELETE=NO
NDMDATA	TYPE=HF, DSN=NVDM.V162.NDMHFDA, DELETE=NO, CSPC=60
NDMDATA	TYPE=DRD, DSN=NVDM.V162.NDMDRD, DELETE=NO, DSPC=7, ISPC=2
NDMDATA	TYPE=TCF, DSN=NVDM.V162.NDMTCF, DELETE=NO, DSPC=8, ISPC=3
NDMDATA	TYPE=GIX, DSN=NVDM.V162.NDMGIX, DELETE=NO
NDMDATA	TYPE=GIXD,DSN=NVDM.V162.NDMGIXD,DELETE=NO
NDMDATA	TYPE=RQF,DSN=NVDM.V162.NDMRQF,DELETE=NO
NDMDATA	TYPE=RQFD,DSN=NVDM.V162.NDMRQFD,DELETE=NO
NDMDATA	TYPE=CWK, DSN=NVDM.V162.NDMCWK, DELETE=NO
NDMDATA	TYPE=UN01,DSN=NVDM.V162.NDMUN01,DELETE=NO
NDMDATA	TYPE=WF01,DSN=NVDM.V162.NDMWF01,DELETE=NO
NDMDATA	TYPE=MSG,DSN=NVDM.V162.NDMMSGS,DELETE=NO
NDMDATA	TYPE=TBL, DSN=NVDM.V162.NDMTABLE, DELETE=NO
NDMDATA	TYPE=EIF, DSN=NVDM.V162.NDMEIF, DELETE=NO
NDMDATA	TYPE=END
END	

/*EOF

2. Add VTAM definitions for the APPC LU's. An example is shown below, adding a CC server with LU name NTCMLU0.

WNTPU	PU	ADDR=63, DLOGMOD=S3279M2,
		IDBLK=372,
		IDNUM=18705,
		LOGTAB=LOGONTAB,
		MAXDATA=1033,
		MAXOUT=7,
		MAXPATH=1,
		MODETAB=PU3274C,
		PASSLIM=7,
		PUTYPE=2,
		SSCPFM=USSSCS,
		USSTAB=HSL3270A
	PATH	DIALNO=0104400013748705,GRPNM=G6RALL1
NTCMLU0	LU	$\verb LOCADDR=0, DLOGMOD=NDM2LU62, USSTAB=USSEMPTY $
EMULLU2	LU	LOCADDR=2
EMULLU3	LU	LOCADDR=3

3. Add the VTAM definitions for NetView DM as an application.

NDMR6	VBUILD APPL	TYPE=APPL AUTH=ACQ, ACBNAME=NDMR6, APPC=YES, DSESLIM=1, DMINWNL=0, DMINWNR=1, AUTOSES=1, PARSESS=YES, MODETAB=PU3274C, DLOGMOD=NDM2LU62, VPACING=63, EAS=1
NDMR6IOF	APPL	AUTH=ACQ,

 $\begin{array}{l} \texttt{ACBNAME=NDMR6IOF,}\\ \texttt{EAS=1} \end{array}$

4. Add the VTAM definitions for the logmode entry NDM2LU62.

```
NDM2LU62 MODEENT LOGMODE=NDM2LU62,

TYPE=0,

FMPROF=X'13',

TSPROF=X'07',

PRIPROT=X'BO',

COMPROT=X'50B5',

PSNDPAC=X'07',

RUSIZES=X'8888',

PSERVIC=X'060200000000000002F00'
```

5. Add a node definition for a test CC server named NTWITHCM. Below is a batch job that will add the node definition.

//DEFNODE	JOB	(0), 'SMITH', CLASS=B, COND=(4, LT),
//SUBMIT	EXEC	PGM=DSXPREP,
//		PARM= 'FUNCTION=SUBMIT, USERID=SMITH '
//STEPLIB	DD	DSN=NVDM.V162.SFZDLOAD,DISP=SHR
//SYSPRINT	DD	SYSOUT=*
//DSXPRINT	DD	SYSOUT=*
//SYSUDUMP	DD	SYSOUT=*
//SNAP	DD	SYSOUT=*
//DSXLIB	DD	DISP=SHR, DSN=NVDM.V162.NDMLIB
//DSXLIBT	DD	DISP=SHR, DSN=NVDM.V162.NDMLIBT
//DSXHFDI	DD	DISP=SHR, DSN=NVDM.V162.NDMHFDI
//DSXHFDA	DD	DISP=SHR, DSN=NVDM.V162.NDMHFDA
//DSXDRD	DD	DISP=SHR, DSN=NVDM.V162.NDMDRD
//DSXTCF	DD	DISP=SHR, DSN=NVDM.V162.NDMTCF
//DSXGIX	DD	DISP=SHR, DSN=NVDM.V162.NDMGIX
//DSXGIXD	DD	DISP=SHR, DSN=NVDM.V162.NDMGIXD
//NDMRQF	DD	DISP=SHR, DSN=NVDM.V162.NDMRQF
//NDMRQFDA	DD	DISP=SHR, DSN=NVDM.V162.NDMRQFDA
//SYSIN	DD	*
	DEFNODE	NAME=NTWITHCM, LUNAME=NTCMLU0, NODETYPE=SRVR,
		LOGMODE=NDM2LU62,
		RGN=NTCMLU0, REN=NTCMLU0, SRVNAME=NTCMLU0
	END	
/*		

6. Submit job (or procedure) to start the NetView DM Transmission Control Program.

Example is shown below:

//xxxxx // // //NDMR6	JOB EXEC	<pre>(0), 'SMITH', CLASS=B, COND=(4,LT), MSGCLASS=0, MSGLEVEL=(1,1), REGION=4096K, TIME=1440 PGM=DSXTMM00, PARM='OPCTL=IOF, START=COLD, PROFILE=01_CUPTASK=(16,1)'</pre>
	חח	DSN-NUDM V162 SEZDLOAD DISD-SHP
//SYSPRINT	םם ממ	SYSOUT=*
//SYSUDUMP	DD	DUMMY
//SNAP	DD	DUMMY
//DSXTCF	DD	DISP=SHR, DSN=NVDM.V162.NDMTCF
//DSXDRD	DD	DISP=SHR, DSN=NVDM.V162.NDMDRD

//DSXHFDI	DD	DISP=SHR,DSN=NVDM.V162.NDMHFDI
//DSXHFDA	DD	DISP=SHR,DSN=NVDM.V162.NDMHFDA
//DSXLIBT	DD	DISP=SHR, DSN=NVDM.V162.NDMLIBT
//DSXLIB	DD	DISP=SHR,DSN=NVDM.V162.NDMLIB
//NDMEIF	DD	DISP=SHR,DSN=NVDM.V162.NDMEIF
//NDMRQF	DD	DISP=SHR,DSN=NVDM.V162.NDMRQF
//NDMRQFDA	DD	DISP=SHR,DSN=NVDM.V162.NDMRQFD
//DSXCWK	DD	DISP=SHR,DSN=NVDM.V162.NDMCWK
//DSXWF01	DD	DISP=SHR,DSN=NVDM.V162.NDMWF01
//DSXUN01	DD	DISP=SHR,DSN=NVDM.V162.NDMUN01
//DSXJOBS	DD	DISP=SHR,DSN=USER.PDS.JCL
//DSXDDSUB	DD	SYSOUT=(A, INTRDR)
/ *		

SNA Customization for Tivoli Software Distribution 3.1.3 for Windows NT, Using IBM Personal Communications V4.2 and NetView DM/MVS

Purpose:

This section details the definitions necessary to create two-way communications between a TME 10 Software Distribution Server on MS Windows NT and Netview DM/ MVS 1.6 using SNA protocol.

Environment:

MS Windows NT Server or Workstation 4.0 with Service Pack 3 IBM Personal Communications 4.2 plus APAR IC19991 TME 10 Software Distribution Server 3.1.3 with maintenance applied through FixPack 0298 Netview DM/MVS 1.6.1 or 1.6.2

Planning your environment:

You will need to replace the names, both network names and software distribution names, used in this document with the appropriate values for your environment. You will need to exactly match values, such as LU name, between IBM Personal Communications, Software Distribution Server and NetView DM/MVS. Please remember that Software Distribution is case sensitive.

Names are chosen by the user but must match between a Focal Point (NetView DM/MVS) and the Change Control Server (Software Distribution Server for Windows NT). A list of the names used in this example follow below:

NDMR6	NetView DM/MVS application name
USIBMWZV	SNA network ID
NTCMLU0	SNA LUNAME used for communications between CC server and host
NDM2LU62	SNA LOGMODE entry used at CC server and at host
NTCMLU0	Target address of CC server
WZVCDRM	MVS control point name

Please check with your installation's VTAM system programmer for the correct values for the above parameters in your environment. Although the SNA LUNAME and the Target Address of the Software Distribution Windows NT Server match in this example, it is not required that these values be identical.

Customization Tasks from MS Windows NT:

On the Windows NT system, you will need to install and customize both Software Distribution 3.1.3 Server and IBM Personal Communications. The following steps walk you through this process. In addition, there is a section on customizing IBM Personal Communications in the fixpack level of the Software Distribution Server for Windows NT Up and Running (Quick Beginnings) manual.

- Install IBM Personal Communications V4.2. During the install, you will also install the IBM Link Level 2 (LL2) protocol stack used by IBM Personal Communications. IBM LL2 provides link services. Please install APAR IC19991 for support of APPC communications with Software Distribution 3.1.3. The APAR fix is available on the internet at <u>ftp://ps.software.ibm.com/ps/products/pcom/fixes/v4.2x/WIN95_WINNT/</u> After installing the fix for this APAR, you must customize PComm to communicate with NetView DM/MVS. In the resulting ACG file, you need to edit the line for DEFAULT_POOL under LOCAL_LU and set DEFAULT_POOL=1. See the sample ACG file included in this section.
- Install Tivoli Software Distribution Server 3.1.3 with all maintenance through fixpack 0298 or later. Fixpacks are available on the Internet. They can be downloaded from ftp://ftp.software.ibm.com/ps/products/SD_server/fixes/. Follow the instructions that come in the README file. The base code and fixpack 0298 can also be found on the Tivoli Software Distribution CD, order number LCD4-0491-03.
- 3. Modify the Software Distribution Server definition using "nvdm updtg" to reflect the correct domain address and target address. The target definition for this example is shown next:

Target:	SDSRV1
Description:	INITIAL TARGET CONFIGURATION RECORD
Customer name:	
Contact name:	
Telephone number:	
Manager:	
Mailing address:	
Target access key:	(none)
Mode:	Push
Type:	SERVER
Operating system:	WINDOWS_NT
Target address:	NTCMLU0
Domain address:	NTCMLU0
LAN address:	
CM window:	12:00:00AM - 11:59:00PM
Distribution window:	12:00:00AM - 11:59:00PM
Network:	TCP sdsrv1
Logging level:	Normal
Tracing state:	Off
Installation parms:	BOOTDRIVE=C:
	FREEDRIVE1=B:
	FREEDRIVE2=E:
	FREEDRIVE3=F:
	FREEDRIVE4=G:
	FREEDRIVE5=H:
	LOG1=EXTLOG1
	LOG2=EXTLOG2
	LOG3=EXTLOG3
	LOG4=EXTLOG4
	LOG5=EXTLOG5
	RSPFILE=D:\SOFTDIST\work\RSPFILE
Shared tokens:	(none)
Hardware parms:	(none)
Discovered inventory:	(none)

4. Add a Software Distribution target definition to represent the NVDM/MVS host. Define the target mode as focal point, the target type as server and ensure you define the target and domain addresses correctly. The target definition for the MVS host follows.

Target:	NDMMVS
Description:	
Customer name:	
Contact name:	
Telephone number:	
Manager:	
Mailing address:	
Target access key:	(none)
Mode:	Focal
Type:	SERVER
Operating system:	
Target address:	NDMR6
Domain address:	USIBMWZV
LAN address:	
Network:	APPC USIBMWZV.NDMR6

5. Modify the routetab file in the softdist\db directory to reflect SNA protocol and the correct filename for your SNA connection file. In this example, connsna, is the connection file. Be careful not to imbed any null characters in this file. Use 'edit' instead of 'notepad' to modify this file. This file is in the softdist\db\snadscon directory. The file name 'connsna' is case sensitive. The example routetab used is shown below:

NETWORK PRO)TOCOL:				BOTH			
USIBMWZV.NI	OMR6	ANY	i	ANY	ANY	ANY	connsna	
* *	ANY	ANY	ANY	ANY	connsna			

6. Modify the SNA connection file found in the softdist\db\snadscon directory. Make sure the next DSU parameter points to the MVS host and the TP symbolic destinations match the CPIC names defined in IBM Personal Communications. The example SNA connection file, connsna, is shown below:

PROTOCOL:	APPC
TYPE:	SNA
SEND TP SYMBOLIC DESTINATION:	NVDMSIDS
RECEIVE TP SYMBOLIC DESTINATION:	NVDMSIDR
NEXT DSU:	USIBMWZV.NDMR6
TRANSMISSION TIME-OUT:	60
RETRY LIMIT:	3
SEND MU_ID TIME-OUT:	60
RECEIVE MU_ID TIME-OUT:	120

7. Build the IBM Personal Communications definitions for the Connection, Link Services, Mode entry, Local LU, Remote LU, SNA Server and CPIC send and receive. The example SNA definitions used are shown below. Remember that the Control Point Name can not be the same as the Logical Unit Name for any resource. Remember to match the CPIC send and receive with the values used in step 6. Look at the Software Distribution Server for Windows NT Up and Running (Quick Beginnings) softcopy manual for detailed information on how to create these definitions using a GUI.

```
*TSTue Jul 7 10:00:16 1998
NODE=(
     ANYNET_SUPPORT=ANYNET_SUPPORTED
     CP ALIAS=NTCMPU
     DEFAULT PREFERENCE=NATIVE
     DISCOVERY SUPPORT=DISCOVERY CLIENT
     FQ_CP_NAME=USIBMWZV.NTCMPU
     NODE_ID=05D35154
     NODE TYPE=END NODE
     REGISTER_WITH_CDS=1
     REGISTER_WITH_NN=1
)
PORT=(
     PORT_NAME=LANX_04
     DLC_DATA=0000000000004
     DLC NAME=LAN
     IMPLICIT_CP_CP_SESS_SUPPORT=1
     IMPLICIT_DEACT_TIMER=0
     IMPLICIT_DSPU_SERVICES=NONE
     IMPLICIT HPR SUPPORT=1
     IMPLICIT LIMITED RESOURCE=NO
     LINK STATION ROLE=NEGOTIABLE
     MAX IFRM RCVD=8
     MAX_RCV_BTU_SIZE=32767
     PORT TYPE=SATF
     PORT LAN SPECIFIC DATA=(
          ACK DELAY=100
          ACK_TIMEOUT=3000
          ADAPTER_NUMBER=9999
          BUSY_STATE_TIMEOUT=60
          IDLE_STATE_TIMEOUT=30
          LOCAL_SAP=04
          OUTSTANDING TRANSMITS=16
          POLL_TIMEOUT=3000
          POOL_SIZE=16
          REJECT RESPONSE TIMEOUT=30
          TEST_RETRY_INTERVAL=8
          TEST_RETRY_LIMIT=5
          XID RETRY INTERVAL=8
          XID RETRY LIMIT=5
     )
)
LINK STATION=(
     LS NAME=LINKMVS
     ACTIVATE_AT_STARTUP=0
     ADJACENT_NODE_TYPE=END_NODE
     AUTO ACTIVATE SUPPORT=0
     CP_CP_SESS_SUPPORT=1
     DEFAULT_NN_SERVER=0
     DEST ADDRESS=40003320278904
     DISABLE_REMOTE_ACT=0
     DSPU_SERVICES=NONE
     ETHERNET FORMAT=0
     FQ ADJACENT CP NAME=USIBMWZV.WZVCDRM
     HPR SUPPORT=0
     LIMITED RESOURCE=NO
```

```
LINK_DEACT_TIMER=0
     LINK_STATION_ROLE=USE_ADAPTER_DEFAULTS
     MAX_IFRM_RCVD=0
     MAX_SEND_BTU_SIZE=32767
     NODE ID=05D35154
     PORT NAME=LANX 04
     PU NAME=NTCMPU
     SOLICIT_SSCP_SESSION=1
     TARGET_PACING_COUNT=1
     TG NUMBER=0
     USE DEFAULT TG CHARS=1
)
DLUR DEFAULTS=(
     DEFAULT PU NAME=NTCMPU
     DLUS_RETRY_LIMIT=3
     DLUS_RETRY_TIMEOUT=5
)
LOCAL_LU=(
    LU_NAME=NTCMLU0
     LU_ALIAS=NTCMLU0
     LU_SESSION_LIMIT=1
     NAU_ADDRESS=0
     ROUTE_TO_CLIENT=0
     DEFAULT POOL=1
)
MODE = (
     MODE_NAME=NDM2LU62
     AUTO ACT=0
     COMPRESSION=PROHIBITED
     COS NAME=#CONNECT
     CRYPTOGRAPHY=NONE
     DEFAULT RU SIZE=1
     MAX_NEGOTIABLE_SESSION_LIMIT=8
     MAX_RU_SIZE_UPPER_BOUND=4096
     MIN CONWINNERS SOURCE=4
     PLU MODE SESSION LIMIT=8
     RECEIVE PACING WINDOW=7
)
PARTNER LU=(
     FQ_PLU_NAME=USIBMWZV.NDMR6
     ADJACENT CP NAME=USIBMWZV.WZVCDRM
     CONV_SECURITY_VERIFICATION=0
     MAX_MC_LL_SEND_SIZE=32767
     PARALLEL_SESSION_SUPPORT=0
     PARTNER LU ALIAS=NDMR6
     PREFERENCE=USE_DEFAULT_PREFERENCE
)
CPIC_SIDE_INFO=(
     SYM DEST NAME=NVDMSIDR
     CONVERSATION SECURITY TYPE=NONE
     MODE NAME=NDM2LU62
     PARTNER_LU_NAME=USIBMWZV.NDMR6
     TP NAME=21008
```

```
TP_NAME_TYPE=SNA_SERVICE
)
CPIC_SIDE_INFO=(
     SYM DEST NAME=NVDMSIDS
     CONVERSATION SECURITY TYPE=NONE
     MODE NAME=NDM2LU62
     PARTNER_LU_NAME=USIBMWZV.NDMR6
     TP NAME=21007
     TP NAME TYPE=SNA SERVICE
)
ADJACENT NODE=(
     FQ_CP_NAME=USIBMWZV.WZVCDRM
     LU_ENTRY=(
          FQ_LU_NAME=USIBMWZV.NDMR6
     )
)
SHARED_FOLDERS=(
     CACHE SIZE=256
)
```

8. Run the FNDTPSET.EXE program found in the softdist/bin directory to configure the local software distribution transaction programs. FNDTPSET will invoke a blank entry panel. You will need to invoke this program twice, once for the send function and once for the receive function. The information entered will be added to the Windows NT registry. You need to follow the directions in the Windows NT Software Distribution Up and Running document carefully. The entry requirements for this example are shown below. After you have run FNDTPSET, you can check or modify the values entered via REGEDT32. You will find the values within the tree structure of: HKEY_LOCAL_MACHINE\SYSTEM\CurrentControlSet\Services\SnaBase\Parameters\TPs\SNAD0 07 or SNAD008\Parameters

NOTE: DO NOT CHANGE TRANSACTION PROGRAM NAMES, SNAD007 and SNAD008.

For the Send Function

TP Program: SNAD007 Command Line: c:\softdist\bin\fndts.exe Deselect Register as Service Deselect Queued Program Local LU Alias: NTCMLU0

For the Receive Function

```
TP Program: SNAD008
Command Line: c:\softdist\bin\fndtr.exe
Deselect Register as Service
Deselect Queued Program
Local LU Alias: NTCMLU0
```

9. Set Environment Variable **APPCLLU**. You will need to add the system environment variable APPCLLU to the NT system via the Control Panel - System - Environment Page. The APPCLLU should equal the LU Name for the Software Distribution Server. Please refer to the Up and Running documentation for an example. In our example, APPCLLU=NTCMLU0

Customization Tasks for NetView DM/MVS 1.6.2:

NetView DM/MVS 1.6.2 installs via standard SMP/E processes, as described in the Program Directory. To tailor NetView DM for your environment you must do the customization tasks outlined below. Reference the NetView DM Release 6.2 Installation and Customization Guide, SH19-6794-05, especially chapters 1,2,11,12,15.

 Code and assemble Stage 1 macros. These macros allow you to specify your unique operating environment. Alternatively, you can use an installation dialog via ISPF. The dialog panels use keywords that are the equivalent, but not always identical, to the keywords shown in the macros below. Stage 1 creates a batch job which you then submit in order to assemble the tables NetView DM needs, define VSAM files NetView DM will use and create other required libraries.

NDMGEN	GENTYPE=INSTALL,
	ADMID =USERID,
	CLISTLB=NVDM.V162.NDMCLST,
	SKELLIB=NVDM.V162.NDMSKLS,
	LOAD=NVDM.V162.SFZDLOAD,
	SMS=YES
NDMNODE	TYPE=SRVR,FUNC=CMEP,XMFUNC=(SEND,RETR,DELE),
	RESTYPE=(0060,0070,0080,0100,0120,0220,0230,0240,0250)
NDMNODE	TYPE=CLNT,FUNC=CMEP,XMFUNC=(SEND,RETR,DELE),
	RESTYPE=(0060,0070,0080,0100,0120,0220,0230,0240,0250)
NDMTCP	APPLID=(NDMR6,*),
	<pre>IAPPLID=(NDMR6IOF,*),</pre>
	APPC=YES,
	AUTOSTR=YES,
	AUTOEND=NO,
	DDPREQ=YES,
	OPCTL=NETV,
	RESWAIT=200,
	RETRY=3,RETINT=10,
	SWDLY=5,SWRTRY=5,
	MAXTASK=(10,1),
	STALINE=1,
	SUFFIX=01,
	TIMEOUT=20,
	NETCHNG=IMMEDIATE,
	HOPCNT=5
NDMGIX	SUFFIX=01,NETCHNG=IMMEDIATE
NDMBATCH	SUFFIX=01,NETCHNG=IMMEDIATE,PSWD=OPTIONAL
NDMCOM	HCCSID=0025,SERVER=NO
NDMCP	CPNAME=NOPOLL, POLLING=NO
NDMRES	TYPE=0070, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMRES	TYPE=0080, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMRES	TYPE=0100, TRACK=NO, DEFINE=CAN, ASSIGN=CAN
NDMRES	TYPE=0120, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMRES	TYPE=0220, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMDEF	

NDMDATA	TYPE=LIBD, DSN=NVDM.V162.NDMLIB, DELETE=NO
NDMDATA	TYPE=LIB, DSN=NVDM.V162.NDMLIBT, DELETE=NO
NDMDATA	TYPE=HFD,DSN=NVDM.V162.NDMHFDI,DELETE=NO
NDMDATA	TYPE=HF, DSN=NVDM.V162.NDMHFDA, DELETE=NO, CSPC=60
NDMDATA	TYPE=DRD, DSN=NVDM.V162.NDMDRD, DELETE=NO, DSPC=7, ISPC=2
NDMDATA	TYPE=TCF, DSN=NVDM.V162.NDMTCF, DELETE=NO, DSPC=8, ISPC=3
NDMDATA	TYPE=GIX,DSN=NVDM.V162.NDMGIX,DELETE=NO
NDMDATA	TYPE=GIXD,DSN=NVDM.V162.NDMGIXD,DELETE=NO
NDMDATA	TYPE=RQF,DSN=NVDM.V162.NDMRQF,DELETE=NO
NDMDATA	TYPE=RQFD,DSN=NVDM.V162.NDMRQFD,DELETE=NO
NDMDATA	TYPE=CWK, DSN=NVDM.V162.NDMCWK, DELETE=NO
NDMDATA	TYPE=UN01,DSN=NVDM.V162.NDMUN01,DELETE=NO
NDMDATA	TYPE=WF01,DSN=NVDM.V162.NDMWF01,DELETE=NO
NDMDATA	TYPE=MSG,DSN=NVDM.V162.NDMMSGS,DELETE=NO
NDMDATA	TYPE=TBL,DSN=NVDM.V162.NDMTABLE,DELETE=NO
NDMDATA	TYPE=EIF, DSN=NVDM.V162.NDMEIF, DELETE=NO
νσματα	TYPE=END
END	

2. Add VTAM definitions for the APPC LU's. An example is shown below, adding a CC server with LU name NTCMLU0.

WNTPU	PU	ADDR=63, DLOGMOD=S3279M2,
		IDBLK=372,
		IDNUM=18705,
		LOGTAB=LOGONTAB,
		MAXDATA=1033,
		MAXOUT=7,
		MAXPATH=1,
		MODETAB=PU3274C,
		PASSLIM=7,
		PUTYPE=2,
		SSCPFM=USSSCS,
		USSTAB=HSL3270A
	PATH	DIALNO=0104400013748705,GRPNM=G6RALL1
NTCMLUO EMULLU2 EMULLU3	LU LU LU	LOCADDR=0,DLOGMOD=NDM2LU62,USSTAB=USSEMPTY LOCADDR=2 LOCADDR=3

3. Add the VTAM definitions for NetView DM as an application.

VBUILD TYPE=APPL NDMR6 APPL AUTH=ACQ, ACBNAME=NDMR6, APPC=YES, DSESLIM=1, DMINWNL=0, DMINWNR=1, AUTOSES=1, PARSESS=YES, MODETAB=PU3274C, DLOGMOD=NDM2LU62,

/*EOF

		VPACING=63,
		EAS=1
NDMR6IOF	APPL	AUTH=ACQ,
		ACBNAME=NDMR6IOF,
		EAS=1

4. Add the VTAM definitions for the logmode entry NDM2LU62

```
NDM2LU62 MODEENT LOGMODE=NDM2LU62,

TYPE=0,

FMPROF=X'13',

TSPROF=X'07',

PRIPROT=X'B0',

COMPROT=X'50B5',

PSNDPAC=X'07',

RUSIZES=X'8888',

PSERVIC=X'0602000000000000002F00'
```

5. Add a node definition for a test CC server named SDSNT1. Below is a batch job that will add the node definition.

//DEFNODE //SUBMIT	JOB EXEC	(0), 'SMITH',CLASS=B,COND=(4,LT), PGM=DSXPREP,
//		PARM='FUNCTION=SUBMIT,USERID=SMITH'
//STEPLIB	DD	DSN=NVDM.V162.SFZDLOAD,DISP=SHR
//SYSPRINT	DD	SYSOUT=*
//DSXPRINT	DD	SYSOUT=*
//SYSUDUMP	DD	SYSOUT=*
//SNAP	DD	SYSOUT=*
//DSXLIB	DD	DISP=SHR, DSN=NVDM.V162.NDMLIB
//DSXLIBT	DD	DISP=SHR, DSN=NVDM.V162.NDMLIBT
//DSXHFDI	DD	DISP=SHR, DSN=NVDM.V162.NDMHFDI
//DSXHFDA	DD	DISP=SHR, DSN=NVDM.V162.NDMHFDA
//DSXDRD	DD	DISP=SHR, DSN=NVDM.V162.NDMDRD
//DSXTCF	DD	DISP=SHR, DSN=NVDM.V162.NDMTCF
//DSXGIX	DD	DISP=SHR, DSN=NVDM.V162.NDMGIX
//DSXGIXD	DD	DISP=SHR, DSN=NVDM.V162.NDMGIXD
//NDMRQF	DD	DISP=SHR, DSN=NVDM.V162.NDMRQF
//NDMRQFDA	DD	DISP=SHR, DSN=NVDM.V162.NDMRQFDA
//SYSIN	DD	*
	DEFNODE	NAME=NTWITHCM, LUNAME=NTCMLU0, NODETYPE=SRVR,
		LOGMODE=NDM2LU62,
		RGN=NTCMLU0, REN=NTCMLU0, SRVNAME=NTCMLU0
	END	

/*

6. Submit job (or procedure) to start the NetView DM Transmission Control Program. Example is shown below:

//xxxxx // //	JOB	<pre>(0),'SMITH',CLASS=B,COND=(4,LT), MSGCLASS=0,MSGLEVEL=(1,1),REGION=4096K, TIME=1440</pre>
//NDMR6	EXEC	<pre>PGM=DSXTMM00,PARM='OPCTL=IOF,START=COLD, PROFILE=01'</pre>
//STEPLIB //SYSPRINT //SYSUDUMP	DD DD DD	DSN=NVDM.V162.SFZDLOAD,DISP=SHR SYSOUT=* DUMMY

//SNAP	DD	DUMMY
//DSXTCF	DD	DISP=SHR, DSN=NVDM.V162.NDMTCF
//DSXDRD	DD	DISP=SHR,DSN=NVDM.V162.NDMDRD
//DSXHFDI	DD	DISP=SHR,DSN=NVDM.V162.NDMHFDI
//DSXHFDA	DD	DISP=SHR,DSN=NVDM.V162.NDMHFDA
//DSXLIBT	DD	DISP=SHR,DSN=NVDM.V162.NDMLIBT
//DSXLIB	DD	DISP=SHR,DSN=NVDM.V162.NDMLIB
//NDMEIF	DD	DISP=SHR,DSN=NVDM.V162.NDMEIF
//NDMRQF	DD	DISP=SHR,DSN=NVDM.V162.NDMRQF
//NDMRQFDA	DD	DISP=SHR,DSN=NVDM.V162.NDMRQFD
//DSXCWK	DD	DISP=SHR, DSN=NVDM.V162.NDMCWK
//DSXWF01	DD	DISP=SHR,DSN=NVDM.V162.NDMWF01
//DSXUN01	DD	DISP=SHR,DSN=NVDM.V162.NDMUN01
//DSXJOBS	DD	DISP=SHR,DSN=USER.PDS.JCL
//DSXDDSUB	DD	SYSOUT=(A, INTRDR)
/*		

SNA Customization for Tivoli Software Distribution 3.1.3 for Windows NT, Using Microsoft SNA Server and NetView DM/MVS

Purpose:

This section details the definitions necessary to create two-way communications between a Tivoli Software Distribution 3.1.3 Server with MS Windows NT and Netview DM/ MVS 1.6 using SNA protocol .

Environment:

MS Windows NT Server 4.0 with Service Pack 3 MS SNA Server 3.0 TME 10 Software Distribution Server 3.1.3 with maintenance applied through FixPack 0298 Netview DM/MVS 1.6.1 or 1.6.2

Planning your environment:

You will need to replace the names, both network names and software distribution names, used with the appropriate values for your environment. You will need to exactly match values, such as LU name, between MS SNA Server, Software Distribution 3.1.3 Server and NetView DM/MVS. Please remember that Software Distribution is case sensitive.

Names are uniquely chosen the user but must match at the Focal Point (NetView DM/MVS) and at the CC Server (Software Distribution 3.1.3 Server for Windows NT):

NDMR6NetView DM/MVS application nameUSIBMWZVSNA network IDNTCML00SNA LUNAME used for communication at CC server and hostNDM2LU62SNA LOGMODE entry used at CC server and at hostSDSNT1Target address of CC serverWZVCDRMMVS control point name

Please check with your installation's VTAM system programmer for the correct values for these parameters in your environment.

Customization Tasks for MS Windows NT:

On the Windows NT system, you will need to install and customize both Software Distribution 3.1.3 Server and MS SNA Server. The following steps walk you through this process. In addition there is documentation on MS SNA Manager setup in the fixpack level of the Software Distribution Server for Windows NT Up and Running manual.

- 1. Install Microsoft SNA Server. In this example, MS SNA Server 3.0 was installed using the MS Backoffice 2.5 CD-ROM.
- 2. Install the MS 802.2 LLC Protocol. This is done via adding the protocol to the Network. The network setup is found in the Control Panel of Microsoft Windows NT. Note that to add the protocol, the MS Windows NT source code must be available.
- 3. Install Tivoli Software Distribution Server 3.1.3 with all maintenance through fixpack 0298 or later. Fixpacks are available on the Internet. They can be downloaded from <u>ftp://ftp.software.ibm.com/ps/products/SD_server/fixes/</u>. Follow the instructions that come in the README file. The base code and fixpack 0298 can also be found on the Tivoli Software Distribution CD, LCD4-0491-03.
- 4. Modify the Software Distribution Server definition using "nvdm updtg" to reflect the correct domain address and target address. The target definition for this example is shown next:

Target:	SDSNT1
Description:	INITIAL TARGET CONFIGURATION RECORD
Customer name:	
Contact name:	
Telephone number:	
Manager:	
Mailing address:	
Target access key:	(none)
Mode:	Push
Type:	SERVER
Operating system:	WINDOWS_NT
Target address:	SDSNT1
Domain address:	SDSNT1
LAN address:	
CM window:	12:00:00AM - 11:59:00PM
Distribution window:	12:00:00AM - 11:59:00PM
Network:	TCP sdsnt1
Logging level:	Normal
Tracing state:	Off
Installation parms:	BOOTDRIVE=C:
	FREEDRIVE1=B:
	FREEDRIVE2=E:
	FREEDRIVE3=F:
	FREEDRIVE4=G:
	FREEDRIVE5=H:
	LOG1=EXTLOG1
	LOG2=EXTLOG2
	LOG3=EXTLOG3
	LOG4=EXTLOG4
	LOG5=EXTLOG5
	RSPFILE=D:\SOFTDIST\work\RSPFILE
Shared tokens:	(none)
Hardware parms:	(none)
Discovered inventory:	(none)

5. Add a Software Distribution target definition to represent the NetView DM/MVS host. Define the target mode as focal point, the target type is server and ensure you define the target and domain addresses correctly. The target definition for the MVS host in this example follows:

Target:	NDMMVS
Description:	
Customer name:	
Contact name:	
Telephone number:	
Manager:	
Mailing address:	
Target access key:	(none)
Mode:	Focal
Type:	SERVER
Operating system:	
Target address:	NDMR6
Domain address:	USIBMWZV
LAN address:	
Network:	APPC USIBMWZV.NDMR6

6. Modify the routetab file found in softdist\db directory to reflect SNA protocol and the correct filename for the SNA connection file. Be careful not to imbed any null characters in this file. Use 'edit' instead of 'notepad' to modify this file. This file points to connsna found in softdist\db\snadscon for the connection information. The file name 'connsna' is case sensitive. The example routetab used is shown below:

NETWORK	PROTOCOL:				BOTH			
USIBMWZ	/.NDMR6	ANY	A	YY	ANY	ANY	connsna	
.	ANY	ANY	ANY	ANY	connsna			

7. Modify the SNA connection file found in softdist\db\snadscon directory to reflect the definitions necessary for your environment. Make sure the next dsu parameter points to the MVS host itself and that the TP symbolic names match the CPIC names defined in MS SNA Server. The symbolic names used here are the CPIC symbolic names used in MS SNA Server, and should NOT be the names of the Software Distribution transaction programs (SNAD007 and SNAD008). The example SNA connection file used, connsna, is shown below:

PROTOCOL:	APPC
TYPE:	SNA
SEND TP SYMBOLIC DESTINATION:	SENDAIX
RECEIVE TP SYMBOLIC DESTINATION:	RCVAIX
NEXT DSU:	USIBMWZV.NDMR6
TRANSMISSION TIME-OUT:	60
RETRY LIMIT:	3
SEND MU_ID TIME-OUT:	60
RECEIVE MU_ID TIME-OUT:	120

8. Build the MS SNA Server definitions for the Connection, Link Services, Mode entry, Local LU, Remote LU, SNA Server and CPIC names for send and receive. The example SNA definitions used are shown below. Remember that the Control Point Name can not be the same as the Logical Unit Name for any resource. Remember to match the CPIC names with the names used in step 7, and to NOT make the CPIC names SNAD007 or SNAD008. MS SNA Server provides the ability to add the definitions through the SNA Server Manager. The output file shown below was generated using the command, SNACFG /display > filename.ext. Look at the Software Distribution Server for Windows NT Up and Running online manual for additional reference information.

MODE NDM2LU62

Mode Name	NDM2LU62
Comment	MODE NAME for SWD
Session Limit	1
Min Con Winners	0
Min Con Losers	0
Autoactivation Lim	0
Enable Autopartner	No
High Priority	Yes
Pacing Send Count	7
Pacing Recv Count	7
Max Send RU	1024
Max Receive RU	1024

SERVER SDSNT1

Server 1	Name		SDSNT	1		
Comment			Local	LU -	Server	Address
Control	Point	Name	CPSDS	NT1		
Network	Name		USIBM	WZV		

Link Services associated with this Server: SNADLC1 SnaDlc1

Connections associated with this Server: 802CONN DLC Connection to MVS

APPC Local LUs associated with this Server: NTCMLU0 Local SDSNT1 LU Name

LINK SNADLC1

Link Service Name	SNADLC1
Server Name	SDSNT1
Comment	SnaDlc1
Link Service Type	Token Ring

Connections associated with this Link Service: 802CONN DLC Connection to MVS

CONNECTION 802CONN

Connection Name	802CONN
Server Name	SDSNT1
Comment	DLC Connection to MVS
Remote End	Host
Activation type	Initially Active
Dynamic LU Definition	No
Call Direction	Both
Local Block Number	05D
Local Node Number	35154
Control Point Name	WZVCDRM
Network Name	USIBMWZV
Remote Block Number	05D
Remote Node Number	12345
Primary Link Service	SNADLC1
Connection Type DLC Type	802.2 DLC Token

XID Format	Format3
Remote Network Address	400033202789
Remote SAP Address	4
Max BTU Length	1929
Receive ACK Threshold	2
NAK Send Limit	8
Retry Limit	10
XID Retry Limit	3
T1 Timeout	Default
T2 Timeout	Default
Ti Timeout	Default
Reactivation Delay	Default
Reactivation Retry Limit	None

No 3270 LUs assigned to this Connection.

No LUA LUs assigned to this Connection.

No Downstream LUs assigned to this Connection.

APPC LUs assigned to this Connection: NDMR6 nvdm lu

APPCRLU NDMR6

LU Alias	NDMR6
Connection Name	802CONN
Network Name	USIBMWZV
LU Name	NDMR6
Uninterpreted LU Name	NDMR6
Comment	nvdm lu
Parallel sessions	No
Automatic partnering	No
Session level security	None
Implicit Mode	NDM2LU62

This LU has no partner LUs.

APPCLLU NTCMLU0

LU Alias	NTCMLU0
Server Name	SDSNT1
Independent LU	Yes
Network Name	USIBMWZV
LU Name	NTCMLU0
Comment	Local SDSNT1 LU Name
Automatic partnering	No
Member of def. pool	Yes
Implicit remote LU	<none></none>
Timeout for TP start	60

This LU has no partner LUs.

CPIC RCVAIX

SymDest Name		RCVAIX	
Comment		SD Receive	CPIC
Service TP Name	<u>e</u>	21F0F0F8	
Partner LU Netw	vork Name	USIBMWZV	
Partner LU Name	È	NDMR6	
Mode Name		NDM2LU62	
Conversation Security Type		None	

CPIC SENDAIX

SymDest	Name	SENDAIX
Comment		SD Send CPIC
Service	TP Name	21F0F0F7
Partner	LU Network Name	USIBMWZV
Partner	LU Name	NDMR6
Mode Nat	ne	NDM2LU62
Conversa	ation Security Type	None

DIAGNOSTIC

Audit Level	Level 10
Popup Server	<local system=""></local>
Logging Server	<local system=""></local>
Network Management Conn	<none></none>
Display/CNOS Conn	<none></none>

9. Run the FNDTPSET.EXE program found in softdist\bin directory to set the software distribution transaction programs. FNDTPSET is a Software Distribution Program that will bring up a blank entry panel. The information entered here will be added to the Windows NT registry. Note: Follow the directions found in the Windows NT Software Distribution Up and Running document carefully. The exact entry requirements for these programs are noted below. Do NOT have these programs registered as services to Windows NT. After you have run FNDTPSET, you can check or modify the values entered from REGEDT32. You will find the values within the SNABASE tree structure of HKEY_LOCAL_MACHINE\SOFTWARE.

NOTE: DO NOT CHANGE TRANSACTION PROGRAM NAMES, SNAD007 and SNAD008.

Send Program: SNAD007 Program: c:\softdist\bin\fndts.exe Deselect Register as Service Deselect Queued Program Local LU Alias: NTCMLU0

Receive Program: SNAD008 Program: c:\softdist\bin\fndtr.exe Deselect Register as Service Deselect Queued Program Local LU Alias: NTCMLU0

Customization Tasks for NetView DM/MVS 1.6.2:

NetView DM/MVS 1.6.2 installs via standard SMP/E processes, as described in the Program Directory. To tailor NetView DM for your environment you must do the customization tasks outlined below. Reference the NetView DM Release 6.2 Installation and Customization Guide, SH19-6794-05, especially chapters 1,2,11,12,15.

 Code and assemble Stage 1 macros. These macros allow you to specify your unique operating environment. Alternatively, you can use an installation dialog via ISPF. The dialog panels use keywords that are the equivalent, but not always identical, to the keywords shown in the macros below. Stage 1 creates a batch job which you then submit in order to assemble the tables NetView DM needs, define VSAM files NetView DM will use and create other required libraries.

NDMGEN	GENTYPE=INSTALL,
	ADMID =USERID,
	CLISTLB=NVDM.V162.NDMCLST,
	SKELLIB=NVDM.V162.NDMSKLS,
	LOAD=NVDM.V162.SFZDLOAD,
	SMS=YES
NDMNODE	TYPE=SRVR, FUNC=CMEP, XMFUNC=(SEND, RETR, DELE),
	RESTYPE=(0060,0070,0080,0100,0120,0220,0230,0240,0250)
NDMNODE	TYPE=CLNT, FUNC=CMEP, XMFUNC=(SEND, RETR, DELE),
	RESTYPE=(0060,0070,0080,0100,0120,0220,0230,0240,0250)
NDMTCP	APPLID=(NDMR6,*),
	IAPPLID=(NDMR6IOF,*),
	APPC=YES,
	AUTOSTR=YES,
	AUTOEND=NO,
	DDPREO=YES,
	OPCTL=NETV,
	RESWAIT=200,
	RETRY=3, RETINT=10,
	SWDLY=5,SWRTRY=5,
	MAXTASK=(10,1),
	STALINE=1,
	SUFFIX=01,
	TIMEOUT=20,
	NETCHNG=IMMEDIATE,
	HOPCNT=5
NDMGIX	SUFFIX=01,NETCHNG=IMMEDIATE
NDMBATCH	SUFFIX=01,NETCHNG=IMMEDIATE,PSWD=OPTIONAL
NDMCOM	HCCSID=0025,SERVER=NO
NDMCP	CPNAME=NOPOLL, POLLING=NO
NDMRES	TYPE=0070, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMRES	TYPE=0080, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMRES	TYPE=0100,TRACK=NO,DEFINE=CAN,ASSIGN=CAN
NDMRES	TYPE=0120, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMRES	TYPE=0220, TRACK=YES, DEFINE=CAN, ASSIGN=CAN
NDMDEF	
NDMDATA	TYPE=LIBD, DSN=NVDM.V162.NDMLIB, DELETE=NO
NDMDATA	TYPE=LIB, DSN=NVDM.V162.NDMLIBT, DELETE=NO
NDMDATA	TYPE=HFD,DSN=NVDM.V162.NDMHFDI,DELETE=NO
NDMDATA	TYPE=HF, DSN=NVDM.V162.NDMHFDA, DELETE=NO, CSPC=60
NDMDATA	TYPE=DRD,DSN=NVDM.V162.NDMDRD,DELETE=NO,DSPC=7,ISPC=2
NDMDATA	TYPE=TCF, DSN=NVDM.V162.NDMTCF, DELETE=NO, DSPC=8, ISPC=3
NDMDATA	TYPE=GIX,DSN=NVDM.V162.NDMGIX,DELETE=NO
NDMDATA	TYPE=GIXD, DSN=NVDM.V162.NDMGIXD, DELETE=NO
NDMDA'I'A	TYPE=RQF, DSN=NVDM.V162.NDMRQF, DELETE=NO
NDMDATA	TYPE=RQFD, DSN=NVDM.V162.NDMRQFD, DELETE=NO
	IYPE-CWK, DSN=NVDM.VI62.NDMCWK, DELEIE=NO
	IIEE=UNUI, USN=NVUM.VI62.NDMUNUI, DELETE=NO
	IIFE-WFUL, DSN=NVDM, VI62, NDMWFUL, DELETE=NO
	LIFE-MGG, USN=NVUM.VIOZ.NUMMIGGS, UELETE=NU
	IIFE-IDL, USN-NVUM.VIOZ.NUMIABLE, UELELEINU TVDE-ETE DSN-NVDM V162 NDMETE DETETE-NO
END	

/*EOF

2. Add VTAM definitions for the APPC LU's. An example is shown below, adding a CC server with LU name NTCMLU0.

PU	ADDR=63, DLOGMOD=S3279M2,
	IDBLK=372,
	IDNUM=18705,
	LOGTAB=LOGONTAB,
	MAXDATA=1033,
	MAXOUT=7,
	MAXPATH=1,
	MODETAB=PU3274C,
	PASSLIM=7,
	PUTYPE=2,
	SSCPFM=USSSCS,
	USSTAB=HSL3270A
PATH	DIALNO=0104400013748705,GRPNM=G6RALL1
LU LU	LOCADDR=0,DLOGMOD=NDM2LU62,USSTAB=USSEMPTY LOCADDR=2 LOCADDR=3
	PU PATH LU LU LU

3. Add the VTAM definitions for NetView DM as an application.

NDMR6	VBUILD APPL	TYPE=APPL AUTH=ACQ, ACBNAME=NDMR6, APPC=YES, DSESLIM=1, DMINWNL=0, DMINWNR=1, AUTOSES=1, PARSESS=YES, MODETAB=PU3274C, DLOGMOD=NDM2LU62, VPACING=63,
NDMR610F	APPL	AUTH=ACQ, ACBNAME=NDMR6IOF, EAS=1

4. Add the VTAM definitions for the logmode entry NDM2LU62

NDM2LU62 MODEENT LOGMODE=NDM2LU62, TYPE=0, FMPROF=X'13', TSPROF=X'07', PRIPROT=X'80', COMPROT=X'50B5', PSNDPAC=X'07', RUSIZES=X'8888', PSERVIC=X'060200000000000002F00'

5. Add a node definition for a test CC server named SDSNT1. Below is a batch job that will add the node definition.

//DEFNODE	JOB	(0), 'SMITH', CLASS=B, COND=(4, LT),		
//SUBMIT	EXEC	PGM=DSXPREP,		
11		PARM= 'FUNCTION=SUBMIT, USERID=SMITH '		
//STEPLIB	DD	DSN=NVDM.V162.SFZDLOAD,DISP=SHR		
//SYSPRINT	DD	SYSOUT=*		
//DSXPRINT	DD	SYSOUT=*		
//SYSUDUMP	DD	SYSOUT=*		
//SNAP	DD	SYSOUT=*		
//DSXLIB	DD	DISP=SHR, DSN=NVDM.V162.NDMLIB		
//DSXLIBT	DD	DISP=SHR, DSN=NVDM.V162.NDMLIBT		
//DSXHFDI	DD	DISP=SHR, DSN=NVDM.V162.NDMHFDI		
//DSXHFDA	DD	DISP=SHR, DSN=NVDM.V162.NDMHFDA		
//DSXDRD	DD	DISP=SHR, DSN=NVDM.V162.NDMDRD		
//DSXTCF	DD	DISP=SHR, DSN=NVDM.V162.NDMTCF		
//DSXGIX	DD	DISP=SHR, DSN=NVDM.V162.NDMGIX		
//DSXGIXD	DD	DISP=SHR, DSN=NVDM.V162.NDMGIXD		
//NDMRQF	DD	DISP=SHR, DSN=NVDM.V162.NDMRQF		
//NDMRQFDA	DD	DISP=SHR, DSN=NVDM.V162.NDMRQFDA		
//SYSIN	DD	*		
	DEFNODE	NAME=NTWITHCM, LUNAME=NTCMLU0, NODETYPE=SRVR,		
		LOGMODE=NDM2LU62,		
		RGN=NTCMLU0, REN=NTCMLU0, SRVNAME=NTCMLU0		
	END			

/*

6. Submit job (or procedure) to start the NetView DM Transmission Control Program. Example is shown below:

//xxxxxx	JOB	(0), 'SMITH', CLASS=B, COND=(4, LT),
11		MSGCLASS=0,MSGLEVEL=(1,1),REGION=4096K,
11		TIME=1440
//NDMR6	EXEC	<pre>PGM=DSXTMM00,PARM='OPCTL=IOF,START=COLD,</pre>
		PROFILE=01'
//STEPLIB	DD	DSN=NVDM.V162.SFZDLOAD,DISP=SHR
//SYSPRINT	DD	SYSOUT=*
//SYSUDUMP	DD	DUMMY
//SNAP	DD	DUMMY
//DSXTCF	DD	DISP=SHR,DSN=NVDM.V162.NDMTCF
//DSXDRD	DD	DISP=SHR, DSN=NVDM.V162.NDMDRD
//DSXHFDI	DD	DISP=SHR,DSN=NVDM.V162.NDMHFDI
//DSXHFDA	DD	DISP=SHR, DSN=NVDM.V162.NDMHFDA
//DSXLIBT	DD	DISP=SHR,DSN=NVDM.V162.NDMLIBT
//DSXLIB	DD	DISP=SHR,DSN=NVDM.V162.NDMLIB
//NDMEIF	DD	DISP=SHR,DSN=NVDM.V162.NDMEIF
//NDMRQF	DD	DISP=SHR,DSN=NVDM.V162.NDMRQF
//NDMRQFDA	DD	DISP=SHR,DSN=NVDM.V162.NDMRQFD
//DSXCWK	DD	DISP=SHR,DSN=NVDM.V162.NDMCWK
//DSXWF01	DD	DISP=SHR,DSN=NVDM.V162.NDMWF01
//DSXUN01	DD	DISP=SHR,DSN=NVDM.V162.NDMUN01
//DSXJOBS	DD	DISP=SHR,DSN=USER.PDS.JCL
//DSXDDSUB	DD	SYSOUT=(A, INTRDR)
/*		