



**Program Directory for
Tivoli NetView for OS/390
US English**

Version 1 Release 3

Program Number 5697-B82

FMID HPZ8400

for Use with
OS/390

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GI10-4801-01

Note!

Before using this information and the product it supports, be sure to read the general information under "Notices" on page ix.

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1.0 Introduction

This program directory is intended for the system programmer responsible for program installation and maintenance. It contains information concerning the material and procedures associated with the installation of Tivoli NetView for OS/390. This publication refers to Tivoli NetView for OS/390 as Tivoli NetView for OS/390 Version 1 Release 3. You should read all of this program directory before installing the program and then keep it for future reference.

The program directory contains the following sections:

- 2.0, "Program Materials" on page 9 identifies the basic and optional program materials and documentation for Tivoli NetView for OS/390 Version 1 Release 3.
- 3.0, "Program Support" on page 19 describes the IBM support available for Tivoli NetView for OS/390 Version 1 Release 3.
- 4.0, "Program and Service Level Information" on page 21 lists the APARs (program level) and PTFs (service level) incorporated into Tivoli NetView for OS/390 Version 1 Release 3.
- 5.0, "Installation Requirements and Considerations" on page 22 identifies the resources and considerations for installing and using Tivoli NetView for OS/390 Version 1 Release 3.
- 6.0, "Installation Instructions" on page 58 provides detailed installation instructions for Tivoli NetView for OS/390 Version 1 Release 3. It also describes the procedures for activating the functions of Tivoli NetView for OS/390 Version 1 Release 3, or refers to appropriate publications.
- Appendix A, "Tivoli NetView for OS/390 Version 1 Release 3 Install Logic" on page 82 provides the install logic for Tivoli NetView for OS/390 Version 1 Release 3.
- Appendix B, "Program Level Information" on page 83 provides program level information for Tivoli NetView for OS/390 Version 1 Release 3.

Before installing Tivoli NetView for OS/390 Version 1 Release 3, read 3.2, "Preventive Service Planning" on page 19. This section tells you how to find any updates to the information and procedures in this program directory.

Do not use this program directory if you are installing Tivoli NetView for OS/390 Version 1 Release 3 with an MVS* Custom-Built Installation Process Offering (CBIPO*), SystemPac, or ServerPac. When using these offerings, use the jobs and documentation supplied with the offering. This documentation may point you to specific sections of the program directory as required.

ServerPac or CBPDO* OS/390 ordering options allow you to select from a checklist of products. Because of the overall ease of installing, IBM recommends that you choose ServerPac. Use CBPDO only if the majority of products at your installation are equivalent to the OS/390 Release 3 integrated level. If you order ServerPac, refer to *OS/390 Planning for Installation Release 3, GC28-1726*, for detailed information. If you order CBPDO, refer to *MVS Custom-Built Offerings Planning, SC23-0352*, for additional information.

If you are installing Tivoli NetView for OS/390 Version 1 Release 3 using the MVS Custom-Built Product Delivery Offering (CBPDO), use the softcopy program directory provided on the CBPDO tape. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for Tivoli NetView for OS/390 Version 1 Release 3 are included on the CBPDO tape.

1.1 Tivoli NetView for OS/390 Version 1 Release 3 Description

Tivoli NetView for OS/390 combines the power of three key management products to deliver a single, integrated, and enhanced product that provides comprehensive network and systems management. It addresses the challenges of network and systems management by focusing on operator productivity through the use of graphical displays and embedded automation capability. Tivoli NetView for OS/390 provides:

- Network and system information to aid in quickly analyzing and resolving network computing problems
- Policy-driven, production-ready network automation to enhance problem resolution
- Dynamic topology and status across the enterprise for SNA and/or non-SNA resources
- Bidirectional management capability between S/390 and distributed environments when implemented with Tivoli Global Enterprise Manager
- Year 2000 support to protect your vital resource from turn-of-the-century impacts

Tivoli NetView for OS/390 Version 1 Release 3 focuses on management of IP networks and SNMP-based devices, management of IP clients accessing mainframe applications, and integration with third-party network and element management vendors. Tivoli NetView for OS/390 continues its leadership in SNA management and is addressing the management of mixed network architecture environments.

TCP/IP management can be accomplished through the use of native OS/390 TCP/IP management or in cooperation with management applications on distributed platforms.

Building on the rich functionality and strength of Tivoli NetView for OS/390, Release 3 provides these additional enhancements:

- TCP/IP Network Management is now extended to include cooperation with popular Unix- and NT-based TCP/IP management applications. This includes IP agents available for Tivoli NetView on AIX, Sun Solaris, or Windows/NT and HP OpenView on Sun Solaris or HP-UX.
- The management of TCP/IP clients is extended beyond the functions of the prior release by now supporting an SNMP stack and SNMP services (MIB compiler/loader, MIB browser) to improve the management of TCP/IP resources and sessions. In addition, NetView can receive and process any SNMP V1 trap.
- Full function SNMP command support from 3270 panels or command procedures, support for logical groupings of MIB variables, remote Ping support, MIB polling and thresholding aid in resource monitoring and automation.

- Any socket connection can now be monitored for availability. If the socket is down, then automation can attempt to restart its associated application, job or task.
- Support for managing TN3270 sessions now includes both Cisco's remote TN3270 server feature on the Channel Interface Processor card and Channel Port Adapter (CPAs) and IBM's remote TN3270 server feature on the 2210/2216 processors.
- NetView provides the ability to launch a web interface for any vendor application from the NetView Management Console (NMC). Uses of this function include CiscoWorks Blue and IBM Nways Manager Element Manager.
- Retrieval of inventory data from NMC for IBM and Cisco network interconnect devices from the Tivoli Inventory database. The Tivoli Inventory database is populated by Tivoli Manager for CiscoWorks 2000 and Tivoli Manager for IBM NWAYS.
- Support is provided to convert any SNA alert to an SNMP V1 trap forward it to any SNMP manager of choice.
- Functional enhancements to the platform-independent Java-based NetView Management Console include both view cycling, view and resource security and other ease-of-use enhancements. In addition, there are enhancements that integrate the NMC and NetView 3270 Management Console (formerly known as the 3270 Java Client) into a single console.
- Automation table extensions, tools to assist in automation table management, and a new CHRON command with calendaring support expand NetView's robust timer and automation capabilities.
- Support to allow NetView to remain up and running through daylight savings time changes or other time changes.
- The ability to dynamically define commands.
- The use of system symbolics for all components to facilitate exploitation of Parallel Sysplex* environments.
- Several security enhancements to help subdivide operators' authority and visibility over resources.
- Expanded support for web browser access to Tivoli NetView including the ability to view additional session monitor data.
- Support of graphical Visual BLDVIEWS tools to facilitate building customized views.

1.2 Tivoli NetView for OS/390 Version 1 Release 3 FMIDs

Tivoli NetView for OS/390 Version 1 Release 3 consists of the following FMIDs:

HPZ8400
JPZ8404
JPZ8407
JPZ8420
JPZ8424
JPZ8440
JPZ8444
JPZ8454

1.3 Tivoli NetView for OS/390 Version 1 Release 3 Ordering Options

When you ordered Tivoli NetView for OS/390 Version 1 Release 3 you specified two things:

- An Installation option
- A National Language Support (NLS) option.

The materials you received for Tivoli NetView for OS/390 Version 1 Release 3 contain functions associated with all installation options and NLS choices.

Figure 1 shows the different ordering options and the components that are received with each option:

<i>Figure 1. Ordering Option Components</i>			
Component	Unattended Option	Procedural Option	Graphical Enterprise Option
NetView Unattended Base HPZ8400	x	x	x
NetView Unattended US English JPZ8404	x	x	x
NetView Unattended OS/390 UNIX System Services Related Components US English JPZ8407	x	x	x
NetView Procedural Base JPZ8420		x	x
NetView Procedural US English JPZ8424		x	x
NetView Graphical Enterprise Base JPZ8440			x
NetView Graphical Enterprise US English JPZ8444			x
NetView Graphical Enterprise OS/390 UNIX System Services Related Components US English JPZ8454			x

1.3.1 Tivoli NetView for OS/390 Version 1 Release 3 Installation Options

When you ordered Tivoli NetView for OS/390 Version 1 Release 3 you specified an appropriate option pertaining to the environment where you planned to use the product. The installation options are:

- Unattended
- Procedural
- Graphical Enterprise

Your Unattended, Procedural, or Graphical Enterprise option was ordered through the use of unique feature numbers which specified the installation option.

The *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide, SC31-8236*, provides instructions to set the appropriate installation option during the administration phase of installation.

1.3.1.1 Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Option

The Graphical Enterprise option provides all of the function of Tivoli NetView for OS/390 Version 1 Release 3, and should be used on any system where an operations staff is expected to be present and where NetView-to-NetView sessions will be required. This option is appropriate for systems that will provide focal point operations for either network management or system automation. It allows an operations staff at a central site to support multiple systems, including both those in the same data center and those located at remote sites. The Graphical Enterprise option provides the following functions in support of this environment:

- NetView Management Console
- NetView Graphic Monitor Facility
- NetView 3270 Management Console
- NetView Graphic Monitor Facility Host Subsystem
- Session monitor operator panels
- Hardware monitor operator panels
- Resource Object Data Manager (RODM)
- System Network Accounting and Topology Manager (SNATM)
- NetView MultiSystem Manager
- NetView Automated Operations Network
- NetView OS/390 UNIX System Services Related Components

This includes functions such as the UNIX for OS/390 Command Server, NetView IP Discovery, NMC MIB Browser, Java SNMP Command Line Interface, AON SNMP Support, and the Graphical Enterprise Workstation deliverables in filepack format.

1.3.1.2 Tivoli NetView for OS/390 Version 1 Release 3 Procedural Option

The Procedural option is a subset of the Graphical Enterprise option. It contains all the base NetView function of the Graphical Enterprise option, but does **not** contain the following:

- NetView Management Console
- NetView Graphic Monitor Facility
- NetView 3270 Management Console
- NetView Graphic Monitor Facility Host Subsystem
- System Network Accounting and Topology Manager (SNATM)
- NetView MultiSystem Manager

Resource Object Data Manager (RODM) and NetView OS/390 UNIX System Services Related Components (excluding the Graphical Enterprise Workstation deliverables in filepack format) are included in this installation option.

You can install the Procedural option from the Graphical Enterprise option libraries if you have a DSLO license. Refer to *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide, SC31-8236*, for complete instructions.

1.3.1.3 Tivoli NetView for OS/390 Version 1 Release 3 Unattended Option

For multiple host networks, you can install the Unattended option to manage networks from the central system NetView program. The Unattended option provides system and network management for remote hosts, as well as NetView-to-NetView communication.

Resource Object Data Manager (RODM) and NetView OS/390 UNIX System Services Related Components (excluding the Graphical Enterprise Workstation deliverables in filepack format) are included in this installation option.

You can install the Unattended option from the Graphical Enterprise option libraries or the Procedural option libraries if you have a DSLO license. Refer to *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide, SC31-8236* for complete instructions.

1.3.2 Tivoli NetView for OS/390 Version 1 Release 3 NLS Options

When you ordered Tivoli NetView for OS/390 Version 1 Release 3 you specified a language in which you want to run Tivoli NetView for OS/390 Version 1 Release 3. The NLS options for Tivoli NetView for OS/390 Version 1 Release 3 are:

- US English
- Japanese

The NLS option was specified through the use of unique feature numbers.

NLS note

To install both NetView US English feature and NetView Japanese feature on the same operating system, they must be installed into separate target and distribution zones with maintenance applied to each independently. A separate SMPLTS is needed for each target zone. If you try to install both the NetView US English feature and the NetView Japanese feature into the same target and distribution zones, some features will not install correctly.

2.0 Program Materials

An IBM program is identified by a program number and a feature number. The program number for Tivoli NetView for OS/390 Version 1 Release 3 is 5697-B82.

Basic Machine-Readable Materials are materials that are supplied under the base license and feature code, and are required for the use of the product. Optional Machine-Readable Materials are orderable under separate feature codes, and are not required for the product to function.

The program announcement material describes the features supported by Tivoli NetView for OS/390 Version 1 Release 3. Ask your IBM representative for this information if you have not already received a copy.

2.1 Basic Machine-Readable Material

The distribution medium for this program is 3480 cartridge or 4mm cartridge. The tape or cartridge contains all the programs and data needed for installation. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 58 for more information about how to install the program.

Note: If you are installing Tivoli NetView for OS/390 Version 1 Release 3 using the OS/390 ServerPac or Custom-Built Product Delivery Offering (CBPDO), some of the information in these figures may not be valid. ServerPac or CBPDO OS/390 ordering options allow you to select from a checklist of products. Because of the overall ease of installing, IBM recommends that you choose ServerPac. Use CBPDO only if the majority of products at your installation are equivalent to the OS/390 Release 3 integrated level. If you order ServerPac, refer to *OS/390 Planning for Installation Release 3, GC28-1726*, for detailed information. If you order CBPDO, refer to *MVS Custom-Built Offerings Planning, SC23-0352*, for additional information.

2.1.1 Unattended Option

Figure 2 describes the tapes or cartridges for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Option for US English. Figure 3 on page 10 describes the file content of the program tapes for 3480 cartridges and 4mm tape.

Figure 2. Unattended Option for US English Basic Material: Program Tape(s)

Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
3480 cart.	5852	1	U 1/1 VOLSER=PZ8400	PZ8400
4mm tape	5505	1	U 1/1 VOLSER=PZ8400	PZ8400
CDROM			LK3T-9614-03 NetView/390 CDROM	

Figure 3. Unattended Option for US English Program Tape(s): File Content (3480 cartridges and 4mm tape)

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
PZ8400	1	SMPMCS	N/A	FB	80	8800
PZ8400	2	IBM.HPZ8400.F1	ACNMMAC1	FB	80	8800
PZ8400	3	IBM.HPZ8400.F2	ACNMINST	FB	80	8800
PZ8400	4	IBM.HPZ8400.F3	ACNMLINK ANVULIB	U	0	6144
PZ8400	5	IBM.HPZ8400.F4	ABNJPNL2 ACNMCLST ACNMPNL1 ACNMSAMP ADSIMSG1 ADSIOPEN ADSIPARM ADSIPRF ADUIMSG1	FB	80	8800
PZ8400	6	IBM.HPZ8400.F5	AEGVPS21	VB	256	6148
PZ8400	7	IBM.HPZ8400.F6	AEKGMOD1	U	0	6144
PZ8400	8	IBM.HPZ8400.F7	AEKGCAS1 AEKGLUTB AEKGSMP1	FB	80	8800
PZ8400	9	IBM.JPZ8404.F1	ACNMMAC1	FB	80	8800
PZ8400	10	IBM.JPZ8404.F2	ACNMLINK	U	0	6144
PZ8400	11	IBM.JPZ8404.F3	AEKGLANG	FB	125	3125
PZ8400	12	IBM.JPZ8404.F4	ABNJPNL1 ABNJPNL2 ABNJSRC1 ACNMPNL1 AEKGPNL1	FB	80	8800
PZ8400	13	IBM.JPZ8404.F5	AEGVPS21	VB	256	6148
PZ8400	14	IBM.JPZ8407.F1	ACNMMAC1	FB	80	8800
PZ8400	15	IBM.JPZ8407.F2	ACNMUXLK	U	0	6144
PZ8400	16	IBM.JPZ8407.F3	ACNMUXCL	VB	516	8256
PZ8400	17	IBM.JPZ8407.F4	ACNMUXMS	FB	80	8800

2.1.2 Procedural Option

Figure 4 on page 11 describes the tapes or cartridges for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Option for US English. Figure 5 on page 11 describes the file content of the program tapes for 3480 cartridges and 4mm tape.

Note: The Automated Operation Network component is included in the Tivoli NetView for OS/390 Version 1 Release 3 Procedural Option.

Figure 4. Procedural Option for US English Basic Material: Program Tape(s)

Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
3480 cart.	5832	1	P 1/2 VOLSER=PZ8400	PZ8400
3480 cart.	5832	2	P 2/2 VOLSER=PZ8420	PZ8420
4mm tape	5503	1	P 1/2 VOLSER=PZ8400	PZ8400
4mm tape	5503	2	P 2/2 VOLSER=PZ8420	PZ8420
CDROM			LK3T-9614-03 NetView/390 CDROM	

Figure 5 (Page 1 of 2). Procedural Option for US English Program Tape(s): File Content (3480 cartridges and 4mm tape)

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
PZ8400	1	SMPMCS	N/A	FB	80	8800
PZ8400	2	IBM.HPZ8400.F1	ACNMMAC1	FB	80	8800
PZ8400	3	IBM.HPZ8400.F2	ACNMINST	FB	80	8800
PZ8400	4	IBM.HPZ8400.F3	ACNMLINK ANVULIB	U	0	6144
PZ8400	5	IBM.HPZ8400.F4	ABNJPNL2 ACNMCLST ACNMPNL1 ACNMSAMP ADSIMSG1 ADSIOPEN ADSIPARM ADSIPRF ADUIMSG1	FB	80	8800
PZ8400	6	IBM.HPZ8400.F5	AEGVPS21	VB	256	6148
PZ8400	7	IBM.HPZ8400.F6	AEKGMOD1	U	0	6144
PZ8400	8	IBM.HPZ8400.F7	AEKGCAS1 AEKGLUTB AEKGSMP1	FB	80	8800

Figure 5 (Page 2 of 2). Procedural Option for US English Program Tape(s): File Content (3480 cartridges and 4mm tape)

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
PZ8400	9	IBM.JPZ8404.F1	ACNMMAC1	FB	80	8800
PZ8400	10	IBM.JPZ8404.F2	ACNMLINK	U	0	6144
PZ8400	11	IBM.JPZ8404.F3	AEKGLANG	FB	125	3125
PZ8400	12	IBM.JPZ8404.F4	ABNJPNL1 ABNJPNL2 ABNJSRC1 ACNMPNL1 AEKGPNL1	FB	80	8800
PZ8400	13	IBM.JPZ8404.F5	AEGVPS21	VB	256	6148
PZ8400	14	IBM.JPZ8407.F1	ACNMMAC1	FB	80	8800
PZ8400	15	IBM.JPZ8407.F2	ACNMUXLK	U	0	6144
PZ8400	16	IBM.JPZ8407.F3	ACNMUXCL	VB	516	8256
PZ8400	17	IBM.JPZ8407.F4	ACNMUXMS	FB	80	8800
PZ8420	1	SMPMCS	N/A	FB	80	8800
PZ8420	2	IBM.JPZ8420.F1	ACNMSAMP ADSIPARM ACNMMAC1	FB	80	8800
PZ8420	3	IBM.JPZ8420.F2	AEZLINST	FB	80	8800
PZ8420	4	IBM.JPZ8420.F3	AEZLLINK	U	0	6144
PZ8420	5	IBM.JPZ8420.F4	AEZLCLST AEZLSAMP AEZLPNLU ADSIPARM ADSIPRF	FB	80	8800
PZ8420	6	IBM.JPZ8420.F5	AEGVPS21	VB	256	6148
PZ8420	7	IBM.JPZ8424.F1	ABNJPNL1 ABNJPNL2 ACNMPNL1	FB	80	8800

2.1.3 Graphical Enterprise Option

Figure 6 describes the tapes or cartridges for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Option for US English. Figure 7 on page 13 describes the file content of the program tapes for 3480 cartridges and 4mm tape.

Note: The MultiSystem Manager component is included in the Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Option.

Figure 6. Graphical Enterprise Option for US English Basic Material: Program Tape(s)

Medium	Feature Number	Physical Volume	External Label Identification	VOLSER
3480 cart.	5812	1	E 1/5 VOLSER=PZ8400	PZ8400
3480 cart.	5812	2	E 2/5 VOLSER=PZ8420	PZ8420
3480 cart.	5812	3	E 3/5 VOLSER=PZ8440	PZ8440
3480 cart.	5812	4	E 4/5 VOLSER=PZ8454	PZ8454
3480 cart.	5812	5	E 5/5 VOLSER=PZ845E	PZ845E
4mm tape	5501	1	E 1/5 VOLSER=PZ8400	PZ8400
4mm tape	5501	2	E 2/5 VOLSER=PZ8420	PZ8420
4mm tape	5501	3	E 3/5 VOLSER=PZ8440	PZ8440
4mm tape	5501	4	E 4/5 VOLSER=PZ8454	PZ8454
4mm tape	5501	5	E 5/5 VOLSER=PZ845E	PZ845E
CDROM			LK3T-9614-03 NetView/390 CDROM	

Figure 7 (Page 1 of 3). Graphical Enterprise Option for US English Program Tape(s): File Content (3480 cartridges and 4mm tape)

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
PZ8400	1	SMPMCS	N/A	FB	80	8800
PZ8400	2	IBM.HPZ8400.F1	ACNMMAC1	FB	80	8800
PZ8400	3	IBM.HPZ8400.F2	ACNMINST	FB	80	8800
PZ8400	4	IBM.HPZ8400.F3	ACNMLINK ANVULIB	U	0	6144
PZ8400	5	IBM.HPZ8400.F4	ABNJPNL2 ACNMCLST ACNMPNL1 ACNMSAMP ADSIMSG1 ADSIOOPEN ADSIPARM ADSIPRF ADUIMSG1	FB	80	8800
PZ8400	6	IBM.HPZ8400.F5	AEGVPS21	VB	256	6148
PZ8400	7	IBM.HPZ8400.F6	AEKGMOD1	U	0	6144
PZ8400	8	IBM.HPZ8400.F7	AEKGCAS1 AEKGLUTB AEKGSMP1	FB	80	8800

Figure 7 (Page 2 of 3). Graphical Enterprise Option for US English Program Tape(s): File Content (3480 cartridges and 4mm tape)

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
PZ8400	9	IBM.JPZ8404.F1	ACNMMAC1	FB	80	8800
PZ8400	10	IBM.JPZ8404.F2	ACNMLINK	U	0	6144
PZ8400	11	IBM.JPZ8404.F3	AEKGLANG	FB	125	3125
PZ8400	12	IBM.JPZ8404.F4	ABNJPNL1 ABNJPNL2 ABNJSRC1 ACNMPNL1 AEKGPL1	FB	80	8800
PZ8400	13	IBM.JPZ8404.F5	AEGVPS21	VB	256	6148
PZ8400	14	IBM.JPZ8407.F1	ACNMMAC1	FB	80	8800
PZ8400	15	IBM.JPZ8407.F2	ACNMUXLK	U	0	6144
PZ8400	16	IBM.JPZ8407.F3	ACNMUXCL	VB	516	8256
PZ8400	17	IBM.JPZ8407.F4	ACNMUXMS	FB	80	8800
PZ8420	1	SMPMCS	N/A	FB	80	8800
PZ8420	2	IBM.JPZ8420.F1	ACNMSAMP ADSIPARM ACNMMAC1	FB	80	8800
PZ8420	3	IBM.JPZ8420.F2	AEZLINST	FB	80	8800
PZ8420	4	IBM.JPZ8420.F3	AEZLLINK	U	0	6144
PZ8420	5	IBM.JPZ8420.F4	AEZLCLST AEZLSAMP AEZLPNLU ADSIPARM ADSIPRF	FB	80	8800
PZ8420	6	IBM.JPZ8420.F5	AEGVPS21	VB	256	6148
PZ8420	7	IBM.JPZ8424.F1	ABNJPNL1 ABNJPNL2 ACNMPNL1	FB	80	8800
PZ8440	1	SMPMCS	N/A	FB	80	8800
PZ8440	2	IBM.JPZ8440.F1	ACNMMAC1	FB	80	8800
PZ8440	3	IBM.JPZ8440.F2	ACNMLINK	U	0	6144
PZ8440	4	IBM.JPZ8440.F3	ACNMCLST ACNMSAMP ADSIPARM ADSIPRF	FB	80	8800

Figure 7 (Page 3 of 3). Graphical Enterprise Option for US English Program Tape(s): File Content (3480 cartridges and 4mm tape)

VOLSER	File	Name	Dist Library	RECFM	LRECL	BLK SIZE
PZ8440	5	IBM.JPZ8440.F4	AEGVPS21	VB	256	6148
PZ8440	6	IBM.JPZ8440.F5	AFLBDAT1	VB	1028	23648
PZ8440	7	IBM.JPZ8444.F1	AEGVPS21	VB	256	6148
PZ8454	1	SMPMCS	N/A	FB	80	8800
PZ8454	2	IBM.JPZ8454.F1	ACNMUXCL	VB	516	8256
PZ845E	2	IBM.JPZ8454.F1	ACNMUXCL	VB	516	8256

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for Tivoli NetView for OS/390 Version 1 Release 3.

2.3 Program Publications

The following sections identify the basic and optional publications for Tivoli NetView for OS/390 Version 1 Release 3.

2.3.1 Basic Program Publications

Figure 8 identifies the basic licensed program publications for Tivoli NetView for OS/390 Version 1 Release 3. One copy of each of these publications is included when you order the basic materials for Tivoli NetView for OS/390 Version 1 Release 3. For additional copies, contact your IBM representative.

Figure 8. Basic Material: Licensed Publications

Publication Title	Form Number
<i>Tivoli NetView for OS/390 Diagnosis Guide</i>	LY43-0108

Figure 9 identifies the basic unlicensed program publications for Tivoli NetView for OS/390 Version 1 Release 3. One copy of each of these publications is included when you order the basic materials for Tivoli NetView for OS/390 Version 1 Release 3. For additional copies, contact your IBM representative.

Figure 9. Basic Material: Unlicensed Publications

Publication Title	Form Number
<i>Tivoli NetView for OS/390 Licensed Program Specifications</i>	GC31-8235
<i>Tivoli NetView for OS/390 Online Library on CD-ROM</i>	LK2T-9133
<i>Tivoli NetView for OS/390 Administration Reference</i>	SC31-8222
<i>Tivoli NetView for OS/390 Security Reference</i>	SC31-8606
<i>Tivoli NetView for OS/390 Installation and Administration Guide</i>	SC31-8236
<i>Tivoli NetView for OS/390 Planning Guide</i>	GC31-8226
<i>Tivoli NetView for OS/390 User's Guide</i>	GC31-8241
<i>Tivoli NetView for OS/390 Tuning Guide⁽¹⁾</i>	SC31-8240
<i>Tivoli NetView for OS/390 Tutorial</i>	SK2T-6097
<i>Tivoli NetView for OS/390 Application Programmer's Guide</i>	SC31-8223
<i>Tivoli NetView for OS/390 Automation Guide</i>	SC31-8225
<i>Tivoli NetView for OS/390 Command Reference</i>	SC31-8227
<i>Tivoli NetView for OS/390 Messages</i>	SC31-8237
<i>Tivoli NetView for OS/390 Customization Guide</i>	SC31-8228
<i>Tivoli NetView for OS/390 Customization: Using Assembler</i>	SC31-8229
<i>Tivoli NetView for OS/390 Customization: Using PL/I and C</i>	SC31-8230
<i>Tivoli NetView for OS/390 Customization: Using REXX and the NetView Command List Language</i>	SC31-8231
<i>Tivoli NetView for OS/390 Data Model Reference</i>	SC31-8232
<i>Tivoli NetView for OS/390 RODM & GMFHS Programmer's Guide</i>	SC31-8233
<i>Tivoli NetView for OS/390 Bridge Implementation</i>	SC31-8238
<i>Tivoli NetView for OS/390 Customization: Using Pipes</i>	SC31-8248
<i>Tivoli NetView for OS/390 AON User's Guide</i>	GC31-8661
<i>Tivoli NetView for OS/390 AON Customization Guide</i>	SC31-8662
<i>Tivoli NetView for OS/390 APPN Topology and Accounting Agent</i>	SC31-8224
<i>Tivoli NetView for OS/390 NGMF User's Guide</i>	GC31-8234
<i>Tivoli NetView for OS/390 SNA Topology Implementation</i>	SC31-8239
<i>Tivoli NetView for OS/390 NetView Management Console User's Guide</i>	GC31-8665
<i>Tivoli NetView for OS/390 MultiSystem Manager User's Guide</i>	GC31-8607
(1) When available	

2.4 Other Materials

Additional Tivoli NetView for OS/390 Version 1 Release 3 reference material can be located as follows:

- For an overview of Tivoli network computing products, and a link to the Tivoli NetView for OS/390 Version 1 Release 3 home page, visit the following Internet World-Wide Web site(s):
<http://www.tivoli.com/>
and
<http://www.tivoli.com/nv390/>
- To access Tivoli NetView for OS/390 Version 1 Release 3 tools that can be downloaded, visit the following Web site:
http://www.tivoli.com/nv390_tools

Additional Tivoli NetView for OS/390 Version 1 Release 3 MultiSystem Manager reference material can be located as follows:

- The FLCVREAD member in NETVIEW.V1R3M0.CNMSAMP provides instructions for accessing MultiSystem Manager informal documentation for BLDVIEWS and FLCARODM.
- Documentation and tools for building a MultiSystem Manager Open Topology Interface agent application can be uploaded from an Internet Web browser by pointing to the Tivoli NetView for OS/390 Version 1 Release 3 Tools Download page at:
http://www.tivoli.com/nv390_tools
and then selecting downloads from the MSMTOOLK package.
- The following documentation and tools will help you create workstation-based MultiSystem Manager topology agents:
 - *Tivoli NetView for OS/390 MultiSystem Manager: Topology Agents Developer's Toolkit*
 - *Tivoli NetView for OS/390 MultiSystem Manager: Topology Agents Developer's Guide*
 - *Tivoli NetView for OS/390 MultiSystem Manager: Sample Topology Agent*
 - *Tivoli NetView for OS/390 MultiSystem Manager: Topology Application Developer's Flowchart*
 - *Tivoli NetView for OS/390 MultiSystem Manager: Sample OS/390 Topology Manager*
- Tools and selected patches for MultiSystem Manager agents can be downloaded from an FTP site. Use the ANONYMOUS password at:
<ftp://ftp.tivoli.com/>
and look in the following directory:
<ftp://ftp.tivoli.com/support/netview390/msm/>
Files can also be uploaded from this FTP site by pointing your Web browser at:
<ftp://ftp.tivoli.com/support/netview390/msm/>
opening a file and saving it to disk.
MultiSystem Manager agents can also be downloaded from the the following Web site:
http://www.tivoli.com/nv390_supported

2.5 Program Source Materials

No program source materials or viewable program listings are provided for Tivoli NetView for OS/390 Version 1 Release 3.

2.6 Publications Useful During Installation

<i>Figure 10. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>OS/390 SMP/E: Messages and Codes</i>	SC28-1738
<i>OS/390 SMP/E Reference</i>	SC28-1806
<i>OS/390 SMP/E User's Guide</i>	SC28-1740
<i>OS/390 SMP/E Commands</i>	SC28-1805
<i>OS/390 UNIX System Services Command Reference</i>	SC28-1892
<i>OS/390 UNIX System Services Messages and Codes</i>	SC28-1908
<i>IBM Communications Manager Configuration Guide</i>	S04G-1002
<i>MVS Custom-Built Offering Planning and Installation</i>	SC23-0352

3.0 Program Support

This section describes the IBM support available for Tivoli NetView for OS/390 Version 1 Release 3.

3.1 Program Services

Contact your IBM representative for specific information about available program services.

3.2 Preventive Service Planning

Before installing Tivoli NetView for OS/390 Version 1 Release 3, you should review the current Preventive Service Planning (PSP) information. If you obtained Tivoli NetView for OS/390 Version 1 Release 3 as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO tape.

If you obtained Tivoli NetView for OS/390 Version 1 Release 3 on a product tape, or if the CBPDO is more than two weeks old when you install it, you should contact the IBM Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

PSP Buckets are identified by UPGRADEs, which specify product levels, and SUBSETs, which specify the FMIDs for a product level. The UPGRADE and SUBSET values for Tivoli NetView for OS/390 Version 1 Release 3 are:

Figure 11. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
TIVNETV130	HPZ8400 JPZ8404 JPZ8407	Unattended Option
TIVNETV130	HPZ8400 JPZ8404 JPZ8407 JPZ8420 JPZ8424	Procedural Option
TIVNETV130	HPZ8400 JPZ8404 JPZ8407 JPZ8420 JPZ8424 JPZ8440 JPZ8444 JPZ8454	Graphical Enterprise Option

3.3 Statement of Support Procedures

Report any difficulties you have using this program to your IBM Support Center. If an APAR is required, the Support Center will provide the address to which any needed documentation can be sent.

Figure 12 on page 20 identifies the component IDs (COMPID) for Tivoli NetView for OS/390 Version 1 Release 3.

<i>Figure 12. Component IDs</i>			
FMID	COMPID	Component Name	RETAIN Release
HPZ8400	5697B8200	NetView Unattended Base	400
JPZ8404	5697B8200	NetView Unattended US English	404
JPZ8407	5697B8200	NetView Unattended OS/390 UNIX System Services Related Components US English	407
JPZ8420	5697B8200	NetView Procedural Base	420
JPZ8424	5697B8200	NetView Procedural US English	424
JPZ8440	5697B8200	NetView Graphical Enterprise Base	440
JPZ8444	5697B8200	NetView Graphical Enterprise US English	444
JPZ8454	5697B8200	NetView Graphical Enterprise OS/390 UNIX System Services Related Components US English	454

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of Tivoli NetView for OS/390 Version 1 Release 3. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated. Information about the cumulative service tape is also provided.

4.1 Program Level Information

Appendix B, "Program Level Information" on page 83 lists the APAR fixes for previous releases of NetView that have been incorporated into Tivoli NetView for OS/390 Version 1 Release 3.

4.2 Service Level Information

No PTFs against this release of Tivoli NetView for OS/390 Version 1 Release 3 have been incorporated into the product tape.

4.3 Cumulative Service Tape

A cumulative service tape, containing PTFs not incorporated into this release, might be included with this program. Installation instructions for cumulative service tapes can be found in the SMP/E publications.

If you received this product as part of a CBPDO or a ProductPac, PTFs not incorporated into this release are provided on the tape, and a separate cumulative service tape will not be provided.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Tivoli NetView for OS/390 Version 1 Release 3. The following terminology is used:

- *Driving system*: the system used to install the program.
- *Target system*: the system on which the program is installed.

In many cases, the same system can be used as both a driving system and a target system. However, you may want to set up a clone of your system to use as a target system by making a separate IPL-able copy of the running system. The clone should include copies of all system libraries that SMP/E updates, copies of the SMP/E CSI data sets that describe the system libraries, and your PARMLIB and PROCLIB.

Some cases where two systems should be used include the following:

- When installing a new level of a product that is already installed, the new product will delete the old one. By installing onto a separate target system, you can test the new product while still keeping the old one in production.
- When installing a product that shares libraries or load modules with other products, the installation can disrupt the other products. Installing onto a test system or clone will allow you to assess these impacts without disrupting your production system.

5.1 Driving System Requirements

This section describes the environment of the driving system required to install Tivoli NetView for OS/390 Version 1 Release 3.

5.1.1 Machine Requirements

The driving system can run in any hardware environment that supports the required software.

5.1.2 Programming Requirements

Figure 13. Driving System Software Requirements

Program Number	Product Name and Minimum VRM/Service Level
5645-001	OS/390 Release 3 JES 2 or JES 3 (or higher)
	OS/390 Release 3 System Modification Program/Extended (SMP/E) (or higher) WITH PTFs noted below

Note: The DESCRIPTION() operand that is coded on the header modification control statements (MCS) for each FMID indicates the function contained in the FMID. This operand is supported only by OS/390

Release 7 SMP/E or higher. When installing in pre-OS/390 Release 7 environments, the following SMP/E PTFs **are required** in order to tolerate this operand:

- OS/390 Release 5 or Release 6 SMP/E (HMP1B00) requires PTFs **UR50598, UR50422, UR51068**
- OS/390 Release 3 or Release 4 SMP/E (HMP1A00) requires PTFs **UR50597, UR50419, UR51067**

If you are installing in a pre-OS/390 Release 7 environment with the appropriate PTF identified above installed, SMP/E will issue an informational message during RECEIVE processing indicating the DESCRIPTION operand is being ignored. Processing for the FUNCTION will continue and will result in a corresponding return code of zero. The informational message will appear as follows:

```
GIM50050I RECEIVE PROCESSING FOR SYSMOD xxxxxxxx ENCOUNTERED
          THE DESCRIPTION OPERAND ON THE HEADER MCS. THIS
          OPERAND IS IGNORED SINCE IT IS SUPPORTED ONLY BY
          OS/390 RELEASE 7 SMP/E, OR HIGHER.
```

5.2 Target System Requirements

This section describes the environment of the target system required to install and use Tivoli NetView for OS/390 Version 1 Release 3.

5.2.1 Machine Requirements

The target system can run in any hardware environment that supports the required software.

5.2.2 Programming Requisites

5.2.2.1 Minimum Requisites

A minimum requisite is defined as one of the following:

1. *Installation Requisite:* A product that is required at installation time. i.e. this product **will not install** successfully unless this requisite is met. This includes products that are specified as REQs, PREs, or CALLLIBs.
2. *Run Time Requisite:* A product that is **not** required for the successful installation of this product, but **is** needed at run time in order for this product to work.

Figure 14 (Page 1 of 2). Minimum Requisites

Product Name and Minimum VRM/Service Level	Install Req?
OS/390 Release 3 JES2 or JES3 (5645-001) or higher	Yes
And all of the following OS/390 Release 3 level elements:	

Figure 14 (Page 2 of 2). Minimum Requisites

Product Name and Minimum VRM/Service Level	Install Req?
OS/390 Release 3 level of VTAM* or later (VTAM V4R4)	Yes
ACF/NCP Version 4 (5668-854) or later	Yes
OS/390 Release 3 TSO/E (for REXX interpreter)	Yes
OS/390 Release 3 SMP/E or later	Yes
IBM Language Environment* for OS/390 Release 3 or higher	Yes
Note: If installing optional FMID JPZ8407 or JPZ8454 you must have the UNIX System Services component of OS/390 installed and active.	

5.2.2.2 Functional Requisites

A functional requisite is defined as a product that is *not* required for the successful installation of this product or for the base function of the product, but *is* needed at run time for a specific function of this product to work. This includes products that are specified as IF REQs.

Figure 15 (Page 1 of 2). Functional Requisites for Tivoli NetView for OS/390

Function	Program Number	Product Name and Minimum VRM/Service Level	Install Req?
Compiling REXX Clists or Programs (See notes 1 & 2 below)	5695-014	IBM Compiler for SAA* REXX/370 Release 3	No
Running Compiled REXX Clists or Programs (See notes 1 & 2 below)	5695-014	IBM Library for SAA* REXX/370 Release 3 (FMID HWJ9130) - or - REXX Alternate Library (FMID HWJ9133) US English shipped with Tivoli NetView for OS/390	No
Tivoli NetView for OS/390 Functions	-	(See note 3)	No
Tivoli NetView for OS/390 Automated Operations Network (AON) Component	-	(See note 4)	No

Figure 15 (Page 2 of 2). Functional Requisites for Tivoli NetView for OS/390

Function	Program Number	Product Name and Minimum VRM/Service Level	Install Req?
Tivoli NetView for OS/390 MultiSystem Manager Component	-	(See note 5)	No

Notes:

1. If you compile AON REXX Command Lists, the IBM Compiler for SAA REXX/370 R3(or higher) is needed.
2. Several components of NetView have REXX programs that have been compiled with the ALTERNATE option. If you access the REXX library from NetView (or from OS/390 UNIX System Services for NetView's OS/390 UNIX System Services Related Components), these REXX programs are run in compiled mode. Otherwise, the REXX alternate library is used and these REXX programs are run in the interpreted mode. Some of the components of NetView that have compiled REXX programs are MultiSystem Manager, UNIX for OS/390 Command Server, and the TSO Command Server.

Note: Your OS/390 environment must be modified so that the REXX data set you are using (either SEAGLMD or SEAGALT) is APF-authorized. Edit your APF member in SYS1.PARMLIB and add the REXX data set (SEAGLMD or SEAGALT) if it is not already there. Re-IPL OS/390 if necessary. If your system is set up to use dynamic APF services, you can avoid re-IPLing OS/390 by using the SETPROG command to dynamically update the APF list. Refer to the Initialization and Tuning Reference for your OS/390 system for more information on authorizing data sets.

Note: The TSO server jobs themselves are either batch TSO jobs or started tasks which should be set up to access the REXX library so that the TSO server REXX program will run in compiled mode. Otherwise, the REXX alternate library is used and the server will run in interpreted mode.

3. For additional functional requisite information regarding specific Tivoli NetView for OS/390 functions refer to 5.4, "Special Considerations" on page 40.
4. For additional functional requisite information regarding the Automated Operations Network component refer to 5.4.34, "Considerations for Tivoli NetView for OS/390 Version 1 Release 3 Automated Operations Network Component" on page 51.
5. For additional functional requisite information regarding the MultiSystem Manager component(s) refer to 5.4.35, "Special Considerations for Tivoli NetView for OS/390 Version 1 Release 3 MultiSystem Manager Component" on page 52.

Figure 16. Functional Requisites for Installing Graphical Enterprise Workstation Components

Function	Program Number	Product Name and Minimum VRM/Service Level	Install Req?
Installation of Graphical Enterprise Workstation Components from OS/390 using Tivoli Software Installation Service (SIS)	5697-D10	Tivoli Management Framework for OS/390 Version 3.6.1	No
For additional information on installing NetView workstation components from OS/390 using the Tivoli Management Framework Software Installation Service (SIS) refer to 6.1.17, "Installing Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Workstation Components from OS/390 using Tivoli Management Framework" on page 80.			

5.2.3 DASD Storage Requirements

Tivoli NetView for OS/390 Version 1 Release 3 libraries can reside on 3390 DASD.

Figure 17 lists the total space required for each type of library.

Figure 17. Total DASD Space Required by Tivoli NetView for OS/390 Version 1 Release 3

Library Type	Total Space Required
Target	4156 Tracks of 3390
HFS Unattended or Procedural	345 Tracks of 3390
HFS Graphical Enterprise	4230 Tracks of 3390
Distribution	8628 Tracks of 3390

Notes:

1. The data set sizes specified contain 15% extra space. You may wish to revise these numbers based on your plans for adding additional function or service.
2. IBM recommends use of system determined blocksizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, IBM recommends a blocksize of 32760, which is the most efficient from a performance and DASD utilization perspective.

If you choose not to use system determined blocksizes, use the blocksizes and numbers of blocks specified to allocate the data sets. Data sets can be reblocked to a larger size. Please note that the maximum allowable blocksize will depend on the type of DASD on which the data set will reside.

3. Abbreviations used for the data set type are:

- U** Unique data set used by only the FMIDs listed. In order to determine the correct storage needed for this data set, this table provides all required information; no other tables (or program directories) need to be referenced for the data set size.
- S** Shared data set used by more than the FMIDs listed. In order to determine the correct storage needed for this data set, the storage size given in this table needs to be added to other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size given in this table.

If you currently have a previous release of this product installed in these libraries, the installation of this release will delete the old one and reclaim the space used by the old release and any service that had been installed. You can determine whether or not these libraries have enough space by deleting the old release with a dummy function, compressing the libraries, and comparing the space requirements with the free space in the libraries.

For more information on the names and sizes of the required data sets, please refer to 6.1.7, "Allocate SMP/E Target and Distribution Libraries" on page 65.

Figure 18 estimates the storage requirements for the SMPCSI data set for SMP/E. This estimate must be added to those of any other programs and services being installed to determine the total additional space requirements.

<i>Figure 18. Storage Requirements for SMPCSI Data Sets for SMP/E for Tivoli NetView for OS/390 Version 1 Release 3 Unattended</i>		
DASD	Tracks Required for SMPCSI Data	Tracks Required for SMPCSI Index
3390	1230	61

<i>Figure 19. Storage Requirements for SMP/E Work Data Sets</i>								
Library DDNAME	T	D	R	L	No. of Blks	BLK SIZE	No. of DIR Blks	
	Y	S	E	R				
	P	O	C	E				
	E	R	F	C				
		G	M	L				
SMPWRK1	S	PO	FB	80	300,150	6160	15	
SMPWRK2	S	PO	FB	80	600,200	6160	15	
SMPWRK3	S	PO	FB	80	1200,400	3200	90	
SMPWRK4	S	PO	FB	80	1800,200	3200	15	
SMPWRK6	S	PO	FB	80	6000,600	3200	350	
SYSUT1	U	PS	--	--	900,200	1700	--	
SYSUT2	U	PS	--	--	600,100	1700	--	
SYSUT3	U	PS	--	--	600,100	1700	--	
SYSUT4	U	PS	--	--	600,100	1700	--	

The following table provides an estimate of the storage needed in the SMP/E data sets for Tivoli NetView for OS/390 Version 1 Release 3. The estimates must be added to those of any other programs and service being installed to determine the total additional storage requirements.

Figure 20. Storage Requirements for SMP/E Data Sets

Library DDNAME	T Y P E	D S R G	R E C F M	L R E C L	No. of Blks	BLK SIZE	No. of DIR Blks
SMPLTS	S	PO	U	0	5000,100	6144	50
SMPMTS	S	PO	FB	80	40,10	8800	25
SMPPTS	S	PO	FB	80	400,10	8800	25
SMPSCDS	S	PO	FB	80	300,10	8800	200
SMPSTS	S	PO	FB	80	40,10	8800	25

The following figures list the target and distribution libraries (data sets) and their attributes required to install Tivoli NetView for OS/390 Version 1 Release 3. The storage requirements of Tivoli NetView for OS/390 Version 1 Release 3 must be added to the storage required by other programs having data in the same data set (library).

5.2.3.1 Target Libraries for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Option

Figure 21 (Page 1 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Target Libraries

Library DDNAME	T Y P E	D S R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
BNJPNL1	EU	PO	FB	80	10	1
BNJPNL2	EU	PO	FB	80	1	1
BNJSRC1	EU	PO	FB	80	12	3
CNMCLST	EU	PO	FB	80	125	16
CNMINST	EU	PO	FB	80	16	3
CNMLINK	EU	PO	U	0	353	157
CNMPNL1	EU	PO	FB	80	1	1
CNMSAMP	EU	PO	FB	80	104	20
DSIPARM	EU	PO	FB	80	21	6

Figure 21 (Page 2 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Target Libraries

Library DDNAME	T Y P E	D S R G	R E F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSIPRF	EU	PO	FB	80	2	1
SDSIOPEN	EU	PO	FB	80	2	1
SEGVPS21	EU	PO	VB	256	3	1
SEKGMOD1	EU	PO	U	0	44	6
SEKGMOD2	EU	PO	U	0	13	3
SEKGLNK1	EU	PO	U	0	1	1
SEKGLUTB	EU	PO	FB	80	1	1
SEKGCAS1	EU	PO	FB	80	1	1
SEKGLANG	EU	PO	FB	125	1	1
SEKGSMP1	EU	PO	FB	80	65	7
SEKGPLN1	EU	PO	FB	80	3	2
SCNMMAC1	EU	PO	FB	80	125	13
NVULIB	EU	PO	U	0	4	6
SCNMLNK1	EU	PO	U	0	1	1
SCNMLPA1	EU	PO	U	0	1	2
SDSIMSG1	EU	PO	FB	80	1	1
SDUIMSG1	EU	PO	FB	80	2	1
SCNMUXLK	EU	PO	U	0	105	2
SCNMUXCL	EU	PO	VB	516	3	1
SCNMUXMS	EU	PO	FB	80	2	1

5.2.3.2 HFS Paths for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Option

Figure 22 (Page 1 of 2). HFS Directories Required for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Option

DDDEF Name	PATH
SCNMUX00	/usr/lpp/netview/bin/IBM/
SCNMUX01	/usr/lpp/netview/samples/IBM/

Figure 22 (Page 2 of 2). HFS Directories Required for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Option

DDDEF	
Name	PATH
SCNMUX02	/usr/lpp/netview/lib/IBM/
SCNMUX03	/usr/lpp/netview/mibs/IBM/
SCNMUX05	/usr/lpp/netview/doc/IBM/
SCNMUX06	/usr/lpp/netview/man/C/cat1/IBM/

5.2.3.3 Distribution Libraries for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Option

Figure 23. Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Unattended Distribution Libraries

Library DDNAME	T Y P E	D S R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ABNJPNL1	EU	PO	FB	80	10	1
ABNJPNL2	EU	PO	FB	80	1	1
ABNJSRC1	EU	PO	FB	80	12	3
ACNMCLST	EU	PO	FB	80	125	16
ACNMINST	EU	PO	FB	80	16	3
ACNMLINK	EU	PO	U	0	631	572
ACNMPNL1	EU	PO	FB	80	1	1
ACNMSAMP	EU	PO	FB	80	103	19
ADSIPARM	EU	PO	FB	80	21	5
ADSIPRF	EU	PO	FB	80	2	1
ADSIOPEN	EU	PO	FB	80	2	1
AEGVPS21	EU	PO	VB	256	3	1
ADSIMSG1	EU	PO	FB	80	1	1
ADUIMSG1	EU	PO	FB	80	2	1
AEKGMOD1	EU	PO	U	0	78	58
AEKGLUTB	EU	PO	FB	80	1	1
AEKGCAS1	EU	PO	FB	80	1	1
AEKGLANG	EU	PO	FB	125	1	1
AEKGSMP1	EU	PO	FB	80	64	7
AEKGPNL1	EU	PO	FB	80	3	2
ACNMMAC1	EU	PO	FB	80	125	13
ANVULIB	EU	PO	U	0	4	6
ACNMUXLK	EU	PO	U	0	108	2
ACNMUXCL	EU	PO	VB	516	263	2
ACNMUXMS	EU	PO	FB	80	2	1

5.2.3.4 Target Libraries for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Option

Figure 24 (Page 1 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Target Libraries

Library DDNAME	T Y P E	D S O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
BNJPNL1	EU	PO	FB	80	378	233
BNJPNL2	EU	PO	FB	80	8	5
BNJSRC1	EU	PO	FB	80	12	3
CNMCLST	EU	PO	FB	80	125	16
CNMINST	EU	PO	FB	80	16	3
CNMLINK	EU	PO	U	0	353	157
CNMPNL1	EU	PO	FB	80	528	130
CNMSAMP	EU	PO	FB	80	103	19
DSIPARM	EU	PO	FB	80	59	12
DSIPRF	EU	PO	FB	80	2	1
SDSIOPEN	EU	PO	FB	80	2	1
SEGVPS21	EU	PO	VB	256	3	1
SEKGMOD1	EU	PO	U	0	45	6
SEKGMOD2	EU	PO	U	0	14	3
SEKGLNK1	EU	PO	U	0	1	1
SEKGLUTB	EU	PO	FB	80	1	1
SEKGCAS1	EU	PO	FB	80	1	1
SEKGLANG	EU	PO	FB	125	1	1
SEKGSMP1	EU	PO	FB	80	64	7
SEKGPNL1	EU	PO	FB	80	3	2
SCNMMAC1	EU	PO	FB	80	125	13
NVULIB	EU	PO	U	0	4	6
SCNMLNK1	EU	PO	U	0	1	1
SCNMLPA1	EU	PO	U	0	1	2
SDSIMSG1	EU	PO	FB	80	1	1
SDUIMSG1	EU	PO	FB	80	2	1

Figure 24 (Page 2 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Target Libraries

Library DDNAME	T Y P E	D S R G	R E F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SCNMUXLK	EU	PO	U	0	105	2
SCNMUXCL	EU	PO	VB	516	3	1
SCNMUXMS	EU	PO	FB	80	2	1
SEZLCLST	EU	PO	FB	80	627	34
SEZLINST	EU	PO	FB	80	2	1
SEZLPNLU	EU	PO	FB	80	133	71
SEZLSAMP	EU	PO	FB	80	9	2
SEZLLINK	EU	PO	U	0	19	8

5.2.3.5 HFS Paths for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Option

Figure 25. HFS Directories Required for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Option

DDDEF Name	PATH
SCNMUX00	/usr/lpp/netview/bin/IBM/
SCNMUX01	/usr/lpp/netview/samples/IBM/
SCNMUX02	/usr/lpp/netview/lib/IBM/
SCNMUX03	/usr/lpp/netview/mibs/IBM/
SCNMUX05	/usr/lpp/netview/doc/IBM/
SCNMUX06	/usr/lpp/netview/man/C/cat1/IBM/

5.2.3.6 Distribution Libraries for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Option

Figure 26 (Page 1 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Distribution Libraries

Library DDNAME	T Y P E	D S R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ABNJPNL1	EU	PO	FB	80	378	233
ABNJPNL2	EU	PO	FB	80	8	5
ABNJSRC1	EU	PO	FB	80	12	3
ACNMCLST	EU	PO	FB	80	125	16
ACNMINST	EU	PO	FB	80	16	3
ACNMLINK	EU	PO	U	0	631	572
ACNMPNL1	EU	PO	FB	80	528	130
ACNMSAMP	EU	PO	FB	80	103	19
ADSIPARM	EU	PO	FB	80	59	12
ADSIPRF	EU	PO	FB	80	2	1
ADSIOPEN	EU	PO	FB	80	2	1
AEGVPS21	EU	PO	VB	256	3	1
ADSIMSG1	EU	PO	FB	80	1	1
ADUIMSG1	EU	PO	FB	80	2	1
AEKGMOD1	EU	PO	U	0	78	58
AEKGLUTB	EU	PO	FB	80	1	1
AEKGCAS1	EU	PO	FB	80	1	1
AEKGLANG	EU	PO	FB	125	1	1
AEKGSMP1	EU	PO	FB	80	64	7
AEKGPNL1	EU	PO	FB	80	3	2
ACNMMAC1	EU	PO	FB	80	125	13
ANVULIB	EU	PO	U	0	4	6
ACNMUXLK	EU	PO	U	0	102	2
ACNMUXCL	EU	PO	VB	516	263	2
ACNMUXMS	EU	PO	FB	80	2	1
AEZLCLST	EU	PO	FB	80	627	34

Figure 26 (Page 2 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Procedural Distribution Libraries

Library DDNAME	T Y P E	D S R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
AEZLINST	EU	PO	FB	80	2	1
AEZLPNLU	EU	PO	FB	80	134	71
AEZLSAMP	EU	PO	FB	80	9	2
AEZLLINK	EU	PO	U	0	19	13

5.2.3.7 Target Libraries for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Option

Figure 27 (Page 1 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Target Libraries

Library DDNAME	T Y P E	D S O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
BNJPNL1	EU	PO	FB	80	378	233
BNJPNL2	EU	PO	FB	80	8	5
BNJSRC1	EU	PO	FB	80	12	3
CNMCLST	EU	PO	FB	80	195	21
CNMINST	EU	PO	FB	80	16	3
CNMLINK	EU	PO	U	0	479	162
CNMPNL1	EU	PO	FB	80	527	130
CNMSAMP	EU	PO	FB	80	285	26
DSIPARM	EU	PO	FB	80	66	13
DSIPRF	EU	PO	FB	80	2	2
SDSIOPEN	EU	PO	FB	80	2	1
SEGVPS21	EU	PO	VB	256	447	8
SEKGMOD1	EU	PO	U	0	44	6
SEKGMOD2	EU	PO	U	0	69	19
SEKGLNK1	EU	PO	U	0	1	1
SEKGLUTB	EU	PO	FB	80	1	1
SEKGCAS1	EU	PO	FB	80	1	1
SEKGLANG	EU	PO	FB	125	1	1
SEKGSMP1	EU	PO	FB	80	64	7
SEKGPNL1	EU	PO	FB	80	3	2
SCNMMAC1	EU	PO	FB	80	129	13
NVULIB	EU	PO	U	0	4	6
SCNMLNK1	EU	PO	U	0	1	1
SCNMLPA1	EU	PO	U	0	1	2
SDSIMSG1	EU	PO	FB	80	1	1
SDUIMSG1	EU	PO	FB	80	2	1

Figure 27 (Page 2 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Target Libraries

Library DDNAME	T Y P E	D S R G	R E C M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SCNMUXLK	EU	PO	U	0	105	2
SCNMUXCL	EU	PO	VB	516	3	1
SCNMUXMS	EU	PO	FB	80	2	1
SEZLCLST	EU	PO	FB	80	629	34
SEZLINST	EU	PO	FB	80	3	1
SEZLPNLU	EU	PO	FB	80	133	71
SEZLSAMP	EU	PO	FB	80	9	2
SEZLLINK	EU	PO	U	0	18	8
SFLBDAT1	EU	PO	VB	1028	4	1

5.2.3.8 HFS Paths for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Option

Figure 28. HFS Directories Required for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Option

DDDEF Name	PATH
SCNMUX00	/usr/lpp/netview/bin/IBM/
SCNMUX01	/usr/lpp/netview/samples/IBM/
SCNMUX02	/usr/lpp/netview/lib/IBM/
SCNMUX03	/usr/lpp/netview/mibs/IBM/
SCNMUX04	/usr/lpp/netview/install/IBM/
SCNMUX05	/usr/lpp/netview/doc/IBM/
SCNMUX06	/usr/lpp/netview/man/C/cat1/IBM/

5.2.3.9 Distribution Libraries for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Option

Figure 29 (Page 1 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Distribution Libraries

Library DDNAME	T Y P E	D S R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ABNJPNL1	EU	PO	FB	80	378	233
ABNJPNL2	EU	PO	FB	80	8	5
ABNJSRC1	EU	PO	FB	80	12	3
ACNMCLST	EU	PO	FB	80	193	21
ACNMINST	EU	PO	FB	80	16	3
ACNMLINK	EU	PO	U	0	768	590
ACNMPNL1	EU	PO	FB	80	527	130
ACNMSAMP	EU	PO	FB	80	285	26
ADSIPARM	EU	PO	FB	80	66	13
ADSIPRF	EU	PO	FB	80	2	2
ADSIOPEN	EU	PO	FB	80	2	1
AEGVPS21	EU	PO	VB	256	447	8
ADSIMSG1	EU	PO	FB	80	1	1
ADUIMSG1	EU	PO	FB	80	2	1
AEKGMOD1	EU	PO	U	0	121	81
AEKGLUTB	EU	PO	FB	80	1	1
AEKGCAS1	EU	PO	FB	80	1	1
AEKGLANG	EU	PO	FB	125	1	1
AEKGSMP1	EU	PO	FB	80	64	7
AEKGPNL1	EU	PO	FB	80	3	2
ACNMMAC1	EU	PO	FB	80	129	13
ANVULIB	EU	PO	U	0	4	6
AFLBDAT1	EU	PO	VB	1028	4	1
ACNMUXLK	EU	PO	U	0	108	2
ACNMUXCL	EU	PO	VB	516	3293	5
ACNMUXMS	EU	PO	FB	80	2	1

Figure 29 (Page 2 of 2). Storage Requirements for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Distribution Libraries

Library DDNAME	T Y P E	D S R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
AEZLCLST	EU	PO	FB	80	627	34
AEZLINST	EU	PO	FB	80	2	1
AEZLPNLU	EU	PO	FB	80	134	71
AEZLSAMP	EU	PO	FB	80	9	2
AEZLLINK	EU	PO	U	0	19	13

5.3 FMIDs Deleted

Installing Tivoli NetView for OS/390 Version 1 Release 3 will result in the deletion of the following FMIDs:

Figure 30 (Page 1 of 2). FMIDs Deleted

Deleted FMID	Deleting FMID	Description
HNV1102	HPZ8400	MVS/370* NetView V1R1
HNV1202	HPZ8400	MVS/370 NetView V1R2
HNV1103	HPZ8400	MVS/XA* NetView V1R1
HNV1203	HPZ8400	MVS/XA NetView V1R2
HNV1303	HPZ8400	MVS/XA NetView V1R3
HVWW101	HPZ8400	MVS/XA NetView V2R1
HVWW200	HPZ8400	MVS/XA NetView V2R2
HVWW300	HPZ8400	MVS/XA NetView V2R3
HNVW140	HPZ8400	MVS/ESA* NetView V1R3
HXYZ101	HPZ8400	MVS/ESA NetView V2R1
HXYZ200	HPZ8400	MVS/ESA NetView V2R2
HXYZ300	HPZ8400	MVS/ESA NetView V2R3
HXYZ400	HPZ8400	MVS/ESA NetView V2R4
HPZ8100, JPZ8130	HPZ8400	MVS/ESA NetView V3R1
HPZ8200	HPZ8400	TME 10 NetView for OS/390 V1R1

Figure 30 (Page 2 of 2). FMIDs Deleted

Deleted FMID	Deleting FMID	Description
HPZ8300	HPZ8400	TME 10 NetView for OS/390 V1R2
HFLC100	HPZ8400	MVS/ESA MultiSystem Manager V1R1
HFLC200	HPZ8400	MVS/ESA MultiSystem Manager V1R2
HFLC300	HPZ8400	MVS/ESA MultiSystem Manager V2R1
HFLC400	HPZ8400	MVS/ESA MultiSystem Manager V2R2
HLR6110, HLR6200, HLR6200, HML6110, HML6111, H080100	HPZ8400	MVS/ESA AON/ANO
These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.		

5.3.1 System Considerations

There are tuning considerations for using Tivoli NetView for OS/390 Version 1 Release 3. Tuning considerations and recommendations are discussed in the following manuals:

- *Tivoli NetView for OS/390: Installation and Administration Guide*
- *Tivoli NetView for OS/390: Tuning Guide*

5.4 Special Considerations

The following table identifies README file names and installation methods associated with the noted Tivoli NetView for OS/390 Version 1 Release 3 components.

Figure 31 (Page 1 of 2). README file names and installation methods for Tivoli NetView for OS/390 Version 1 Release 3 Components.

Component Name	OS/390 ⁽¹⁾	Web Page ⁽²⁾	CD ⁽³⁾	README
NMC Topology Console	x	x	x	EGVREAD1.ME
NMC Topology Server	x	x	x	EGVREAD2.ME
NetView Resource Specific Command Sets	x	x	x	FLCREAD1.ME
NetView 3270 Management Console	x	x	x	FLBREAD1.ME

Figure 31 (Page 2 of 2). README file names and installation methods for Tivoli NetView for OS/390 Version 1 Release 3 Components.

Component Name	OS/390 (1)	Web Page (2)	CD (3)	README
NMC Inventory Server	x		x	IHSREAD3.ME
Event Automation Service(EAS)	x		x	IHSREAD1.ME
APPN* Topology and Accounting Agent(APPNTAA)	x (4)	x	x	BNTREAD1.ME
NetView Graphic Monitor Facility(NGMF)	x (4)	x		DUIREAD1.ME
(1) For components shipped in filepack format, the readme documentation is located in the OS/390 UNIX System Services HFS <PathPrefix>/usr/lpp/netview/install directory. For installing NetView workstation components from OS/390 using the Tivoli Management Framework Software Installation Service (SIS) refer to 6.1.17, "Installing Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Workstation Components from OS/390 using Tivoli Management Framework" on page 80.				
(2) URL: http://www.tivoli.com/nv390_supported				
(3) The readme documentation on the Tivoli NetView for OS/390 Version 1 Release 3 CDROM is located in the README\ENU directory.				
(4) The APPNTAA and NGMF components can be installed from the OS/390 NetView host using Software Installer. The associated readme documentation is located in the NETVIEW.V1R3M0.SEGVPS21 data set.				

The following NetView functions and features require the specified program levels or subsequent upward-compatible levels unless stated otherwise:

5.4.1 NetView 3270 Management Console

- OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL), or OS/390 Version 2 Release 5 (5647-A01) IP Services
- Workstations requirements include:

The following are the minimum requirements beyond those required for Intel platform workstations running **OS/2 Version 4.0 or higher, Windows 95*, Windows 98*, or Windows NT* 4.0:**

- 166 MHz CPU
- 32 MB memory (64 MB recommended)
- 15 MB fixed disk space
- Color display (1024 x 768, 256 colors)
- The NetView 3270 Management Console must be installed in an HPFS partition for long file names for OS/2
- IBM TCP/IP Version 2 for OS/2 (with UN64092) or higher

The following are the minimum requirements for **AIX*** platform workstations:

- AIX 4.2 or higher
- IBM RS/6000* or PowerPC with 133 MHz CPU
- 64 MB memory (128 MB recommended)
- 15 MB fixed disk space
- Color display (1024 x 768, 256 colors)

The following are the minimum requirements for workstations running **Sun Solaris***:

- Sun Solaris 2.5.1 or higher
- 133 MHz CPU
- 128 MB memory
- 15 MB fixed disk space
- Color display (1024 x 768, 256 colors)

The following are the minimum requirements for workstations running **HP-UX***:

- HP-UX 10.2 or higher
- 133 MHz CPU
- 128 MB memory
- 15 MB fixed disk space
- Color display (1024 x 768, 256 colors)
- For additional information on installing the NetView 3270 Management Console, refer to the readme file identified in Figure 31 on page 40.

5.4.2 Considerations for NetView Web Server

Web Browser access to Tivoli NetView for OS/390 Version 1 Release 3 requires the following:

- OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL), or OS/390 Version 2 Release 5 (5647-A01) IP Services, or any functionally equivalent product
- Any browser that supports HTTP 1.0

5.4.3 SNMP MIB Browser

- Java for OS/390 at the Java Development Kit (JDK) 1.1.6 level

Figure 32 (Page 1 of 2). OS/390 Java FMIDs

OS/390 Release	OS/390 Java FMID (JDK 1.1.6 TAR File)	PTF level
Version 1 Release 3	HJVA11B	UW61085

Figure 32 (Page 2 of 2). OS/390 Java FMIDs

OS/390 Release	OS/390 Java FMID (JDK 1.1.6 TAR File)	PTF level
Version 2 Release 4 Version 2 Release 5	HJVA11C	UW61086
Version 2 Release 6 Version 2 Release 7	HJVA11D	UW61087
For additional information about Java for OS/390 visit the following Web site: http://www.s390.ibm.com/java/		

- IBM TCP/IP Version 3 Release 2 for MVS/ESA (5655-HAL) or OS/390 Version 2 Release 5 (5647-A01) IP Services

5.4.4 Issuing SNMP Commands from NetView

To issue SNMP commands from NetView using the NVSNMP command requires one of the following:

- The SNMP stack (OSNMP) that comes with OS/390 Version 2 Release 5 (5647-A01) IP Services or later
- The Java Tivoli SNMP stack (JSNMP) supplied with Tivoli NetView for OS/390 Version 1 Release 3 which requires:
 - Java for OS/390 at the Java Development Kit (JDK) 1.1.6 level
For additional information about Java for OS/390 refer to Figure 32 on page 42.
 - OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL) or OS/390 Version 2 Release 5 (5647-A01) IP Services or later

5.4.5 NMC Retrieval of Tivoli Inventory Data for Network Interconnect Devices

- Tivoli Management Framework 3.6.1 (5697-FRA)
- Tivoli Inventory Management 3.6.1 (5697-INV)
- Tivoli Manager for Network Hardware (5697-NHW)

5.4.6 Considerations for Event Automation Service to and from the Tivoli Enterprise Console (TEC)

- The Event Automation Service requires the following:
 - OS/390 Release 3 (with OE active) (5645-001) or higher
 - OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL) or OS/390 Version 2 Release 5 (5647-A01) IP Services or later
 - Tivoli Enterprise Console (TEC) 3.6.1 (5697-EAS)

Using secure framework communication also requires:

- Tivoli Management Framework for OS/390 3.6.1 (5697-D10)
- For additional information on installing Event Automation Service workstation component, refer to the readme file identified in Figure 31 on page 40.

5.4.7 Considerations for Sending Instrumentation Events to Tivoli Global Enterprise Manager

- TME 10 Global Enterprise Manager 2.1 or higher

5.4.8 Considerations for issuing Commands from Tivoli Enterprise Console to the OS/390 Environment

- NetView Management Console Topology Server or Tivoli Management Framework for OS/390 3.6.1 (5697-D10)

5.4.9 Considerations for Issuing OS/390 UNIX System Services Commands from Tivoli NetView for OS/390 Version 1 Release 3

- REXX alternate run-time (same as for Tivoli NetView for OS/390 Version 1 Release 3 MultiSystem Manager Component)

5.4.10 Discovery of TCP/IP Resources from OS/390

- Java for OS/390 at the Java Development Kit (JDK) 1.1.6 level

Figure 33. OS/390 Java FMIDs

OS/390 Release	OS/390 Java FMID (JDK 1.1.6 TAR File)	PTF level
Version 1 Release 3	HJVA11B	UW64248
Version 2 Release 4 Version 2 Release 5	HJVA11C	UW64249
Version 2 Release 6 Version 2 Release 7	HJVA11D	UW64250
For additional information about Java for OS/390 visit the following Web site: http://www.s390.ibm.com/java/		

- OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL) or OS/390 Version 2 Release 5 (5647-A01) IP Services or later
- For additional information about the IP Discovery function refer to the IpDReadMe.html readme file located in the OS/390 UNIX System Services HFS <PathPrefix>/usr/lpp/netview/docs directory, or in the README\ENU directory on the CDROM.

5.4.11 Considerations for the NetView SOCKET Command

- OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL) or OS/390 Version 2 Release 5 (5647-A01) IP Services or later

5.4.12 Considerations for Tivoli NetView Management Console

The Tivoli NetView Management Console (NMC) has the following prerequisites:

- **NetView Management Console Topology Server:**

Any hardware that supports:

- AIX 4.2 (5765-655) or higher
- Windows 2000*
- Windows NT 4.0 with service pack 3 or higher
- OS/2 Warp 4 with service pack 9 or higher
- 233 MHz CPU
- 128 MB of memory

For additional information on installing the NMC Topology Server, refer to the readme file identified in Figure 31 on page 40.

- **NetView Management Console Topology Console:**

Any hardware that supports:

- AIX 4.2 (5765-655) or higher
- Windows 95 or Windows 98
- Windows NT 4.0 or higher
- OS/2 Warp 4 with service pack 5 or higher
- Sun Solaris 2.6 or higher
- HP-UX 10.2 or higher
- 233 MHz CPU
- 128 MB of memory
- Color display (1024 x 768, 256 colors)
- Maximum color palette is 16-bit high color (32-bit True Color is not supported)

For additional information on installing the NMC Topology Console, refer to the readme file identified in Figure 31 on page 40.

- **NetView Management Console Topology Server Communications with Tivoli NetView for OS/390 Version 1 Release 3**

- For IP connections one of the following is required:
 - OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL) or any functionally equivalent product
 - OS/390 Version 2 Release 5 (5647-A01) IP Services or later
 - For LU 6.2 connections one of the following is required:
 - On AIX requires one of the following:
 - AIX SNA Server Version 2.1 or higher
 - AIX SNA Communications Server Version 3.1.2 or higher
 - Communications Server for AIX, Version 4 (5765-652)
 - On Windows NT:
 - Communication Server for NT Version 5.0
 - On OS/2:
 - Communication Server for OS/2 Warp 4 with service pack 4
- On Sun platforms LU 6.2 connection not supported, use IP connection

5.4.13 NetView Graphic Monitor Facility (NGMF)

The following is a list of requirements for the NGMF workstation:

- OS/2 WARP 4.0
- Communications Server Version 4 (5765-652) and Personal Communications AS/400 and 3270 Version 4 Release 1 for OS/2 (PCOMM - 39H3929) with CSD2 applied.
(For Japanese version, Communications Manager/2 1.1 J, or later)
and one of the following:
 - APPC communications -- Any communication adapter that Communications Server 4.0 or higher supports for APPC
 - 3270 emulator communications (for supporting NetView 3270 interfaces on the workstation) -- Any 3270 emulator adapter supported by Personal Communications 4.1 or higher
 - Personal Communications 4.1 plus CSD #2 or higher or Personal Communications 4.2.
- For workstation customization - optional
 - IBM C SET/2

For additional information on installing the NGMF workstation, refer to the readme file identified in Figure 31 on page 40.

5.4.14 NGMF Communications Manager Configuration Utility

- NGMF requirements

5.4.15 ASCII Console Support in Graphic Monitor Facility Host Subsystem

- Transaction Control Protocol/Internet Protocol (TCP/IP) Version 2.0 for OS/2 (65G1220)

5.4.16 RODM Administration and NGMF Problem and Inventory Functions

- NGMF requirements plus
- NetView Bridge requirements

5.4.17 Considerations for Beeper/Pager Support

- IBM NetFinity for OS/2 Version 5.0 or later (if using the IBM sample for beeper/pager requests).

5.4.18 SNA Topology Manager

- Generalized Trace Facility

5.4.19 SNA Topology Manager Resource Filtering

- OS/390 Version 2 Release 5 (5647-A01) SNA Services

5.4.20 APPN Accounting Manager

- Generalized Trace Facility
- System Management Facility or an equivalent external logging facility

5.4.21 NetView Graphic Monitor Facility Installation

- The applicable file transfer program for the communication subsystem

5.4.22 APPN Topology and Accounting Agent (APPNTAA)

- OS/2 4.0 or later
- Communications Server for AIX Version 4 (5765-652) and Personal Communications AS/400 and 3270 Version 4 Release 1 for OS/2 (PCOMM - 39H3929) with CSD2 applied.

For additional information on installing the APPNTAA, refer to the readme file identified in Figure 31 on page 40.

5.4.23 NetView Bridge -- Support for INFO Access

- Information/Management Version 6 Release 3 (5695-171) or later or Tivoli Service Desk for OS/390 (5648-142)
- Application Programming Interface (API) requirements as applicable

5.4.24 Support for IBM LAN Network Manager Enhanced Command Interface

- IBM LAN Network Manager Version 2.0 (03H3519, 03H3523 or 03H3527)

5.4.25 NetView Support for 3174 ISDN

- 3174 Configuration C Release 1

5.4.26 Session Monitor Support of APPN* Display and Problem Determination

- ACF/NCP Version 6 Release 2 (5688-231)

5.4.27 Session Monitor support of DLUR/DLUS

- Communications Manager/2 1.11 for local support
- Communications Manager/2 1.2 for cross network support

5.4.28 Management of Frame Relay (DTE) and Ethernet

- ACF/NCP Version 6 (5688-231)

5.4.29 NetView Parallel Transmission Group Support

- ACF/NCP Version 5 Release 4 (5668-738)

5.4.30 NetView Network Asset Management

Provides NCP vital product data (VPD) and hardware device vital product information for those devices that support the Request Product Set ID (PSID) architecture or signal converters that support LPDA-2 commands:

- ACF/NCP Version 4 Release 2 (5668-854) for the 3720 or 3725 communication controllers

In addition to device support, the following releases of ACF/NCP provide vital product information for the communication controller:

- ACF/NCP Version 4 Release 3.1 (5668-854) for the 3725
- ACF/NCP Version 5 Release 4 (5668-738) or later for the 3720 or 3745

5.4.31 NetView Performance Monitor (NPM) Alerts

- NPM Version 1 Release 6 (5665-333 MVS) or later for session alerts

5.4.32 Considerations for SAF Security Checking

OS/390 Version 1 Release 3 (5645-001) Security Server or later or an equivalent SAF product is required for SAF security checking of each of the following functions:

- RODM connections
- NetView operator passwords
- RMTCMD through the RMTOPS Class
- NetView command authorization
- NetView Span of Control access
- NetView operator logon information
- Graphical View security

5.4.33 Other Considerations

For information regarding the latest CSD level applicable to your version of OS/2, refer to the PSP bucket.

The PTF(s) relating to APAR IR79685 should be applied to TSO/E **before** you install any NetView files to your workstation from the host.

If you are using PC TSO File Transfer, apply PTF UR43604.

To communicate with the V2R4 level of APPNTAM from Tivoli NetView for OS/390 Version 1 Release 3 you will need to apply the following APARs to the V2R4 level of APPNTAM:

English APPNTAM UW18660 and UW18661

Japanese APPNTAM UW18660 and UW18662

If you intend to run Tivoli NetView for OS/390 Version 1 Release 3 Statmon with downlevel NetView(s) in a network, you will need to apply the following apars to the other NetView systems:

V2R4 UW30781

V3R1 UW30809

If you are installing Tivoli NetView for OS/390 Version 1 Release 3 whose session monitor (NLDM) communicates with V2R4 session monitor(s), the following PTFs are required on the V2R4 system(s) for some cross-domain functions to work correctly: UW15993 (code) along with UW15994 (English panels) and/or UW15995 (Japanese panels).

If you are using SAF security checking for NetView Operator Logon Information you must apply PTF UW90113 (APAR OW05651).

The following is a list of additional PTFs that need to be applied for the specified functions:

Session Monitor cross-domain APPN support

NetView V3R1 PTF UW31877

NetView V2R4 PTF UW31873

LE/370 Support

LE/370 V1R5 with PTF UN94116 (fix for PE UN87318)

LE/370 V1R5 with PTF UN94268

Dynamic Span/View Security

RACF 2.1 with PTF UW90249, or

RACF 2.2 with PTF UW90248, or

OS/390 R1 with the RACF 2.2 PTF

NetView 2.4 and 3.1 remote log browse support

NetView V3R1 PTF UW32447 (fix for PE UW29493)

NetView V2R4 PTF UW32448

5.4.34 Considerations for Tivoli NetView for OS/390 Version 1 Release 3 Automated Operations Network Component

- Dynamic Display Facility (DDF) requires either a 3x79 Terminal with Extended Attribute Support with a display capable of seven colors or a workstation-based 327x terminal emulator program that provides Extended Attribute Support with a display capable of seven colors.
- The SNA Automation feature has these additional requirements for Switched Network Backup Automation:
 - IBM 586x modems (except Model 1) with 2 or 4 wire SNBU couplers, if desired, or
 - The 786x, 7855, or LPDA-2 command set capable modems
NOTE: Only the 786x Models 45, 46, and 47 can automatically switch back from SNBU.
ACF/NCP Version 5 Release 4 (5668-738) or later is required for complete DMPX support of IBM 7861/8 model 4x modems.
- AON LAN Automation has these additional requirements:
 - LAN Network Manager Version 2.0 with CSD UR44997 or later
 - OS/2 as required by LAN Network Manager
 - Communications Server Version 4 (5765-652) or later
 - A host-attached IBM Token-Ring network or Communications Manager functioning as an SDLC-attached host gateway for the LAN Manager
 - If you are running AON LAN Automation feature with LNM 2.0 with MultiPort Bridges in your network, your MultiPort Bridges must be running RouteXpander V2.0.4 (or later) with MultiPort Program Support CSD IP20407.
- TCP/IP for AIX Automation has these additional requirements:

TCP/IP for AIX automation uses SNA to communicate between Tivoli NetView for AIX and Tivoli NetView for OS/390, and requires:

 - AIX Version 4 Release 1 (5765-393) or later
 - Tivoli NetView for AIX Version 4 (5765-527 feature number 5608) or later
 - AIX NetView Service Point Version 1 Release 2.2 (5621-107)
 - PTF U440307
 - IBM Communication Server for AIX Version 4 (5765-652)
- TCP/IP for OS/390 Automation Requirements:

TCP/IP for OS/390 Automation provides you with proactive monitoring of IP resources, management functions for socket connections, and the ability to issue any IP command from NetView. To use those functions you need:

 - TCP/IP Version 3 Release 2 for MVS/ESA (5655-HAL) with PTF UQ17350, or higher to support TCP/IP functions including MVSPING, IPSTAT and TRACERTE through the TSO interface
 - OS/390 Version 2 Release 5 IP Services or higher to support SNMP and and TCP/IP functions through the UNIX System Services interface

5.4.35 Special Considerations for Tivoli NetView for OS/390 Version 1 Release 3 MultiSystem Manager Component

The MultiSystem Manager component of Tivoli NetView for OS/390 Version 1 Release 3 requires one of the following:

- IBM Library for SAA REXX/370 Release 3.0 (5695-014)
- REXX Alternate Library (Release 3.0 level) shipped with Tivoli NetView for OS/390
 - FMID HWJ9133 US English

The following table identifies README file names and installation methods associated with the Tivoli NetView for OS/390 Version 1 Release 3 MultiSystem Manager features.

<i>Figure 34. README file names and installation methods for Tivoli NetView for OS/390 Version 1 Release 3 MultiSystem Manager features.</i>				
MultiSystem Manager Agent Name	Web Page (1)	CD (2)	OS/390	README
ATM	x	x		MSMATM.ME
IP	x	x		MSMIP.ME
LAN Network Manager	x	x		(3) & (4)
NetFinity	x	x		MSMNF.ME (3)
NetWare	x	x		MSMNW.ME
Open	x	x		(5)
TMR	x	x	x (6)	FLCTMR1.HTML
(1) URL: http://www.tivoli.com/nv390_supported				
(2) The readme documentation on the Tivoli NetView for OS/390 Version 1 Release 3 CDROM is located in the README\ENU directory.				
(3) The MultiSystem Manager topology agent for the LAN Network Manager and the NetFinity features are included with the LAN Network Manager and NetFinity products.				
(4) For additional information on installing the MultiSystem Manager LAN Network Manager feature, refer to the <i>Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide, SC31-8236</i> .				
(5) For a vendor-supplied topology agent, refer to the documentation provided with the agent.				
(6) The TMR agent is also shipped in filepack format, the readme documentation is located in the OS/390 UNIX System Services HFS <PathPrefix>/usr/lpp/netview/install directory. For installing NetView workstation components from OS/390 using the Tivoli Management Framework Software Installation Service (SIS) refer to 6.1.17, "Installing Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Workstation Components from OS/390 using Tivoli Management Framework" on page 80.				

5.4.35.1 System Considerations for CM/2

CM/2 is required by the following Tivoli NetView for OS/390 Version 1 Release 3 MultiSystem Manager features:

- LAN NetWork Manager
- NetFinity Networks running on OS/2

The following information details the necessary maintenance for anyone using CM/2 to communicate with MultiSystem Manager.

If you will be using Communications Manager/2 in your network to communicate with MultiSystem Manager then you will need to apply the latest level of Communications Manager/2 "APPC" APAR Fixtests to your Communications Manager/2 systems.

Instead of entering an APAR number, for option 2 under SERV you will need to enter the following package name for the specific level of CM/2 you are running.

Package Name	Product	Version
CM2AP111	Communications Manager/2	1.11 (WR06150)
CM2AP110	Communications Manager/2	1.10 (WR06000)
CM2AP101	Communications Manager/2	1.0.1 (WR06050)

The package file will contain a list of included APARs. For CM2AP111 & CM2AP110 make sure JR08454 is in the list. For CM2AP101 make sure JR08455 is in the list. If the APAR is not in the package you have please obtain a newer package.

5.4.35.2 System Considerations for the MultiSystem Manager LAN Network Manager Feature

The MultiSystem Manager LAN Network Manager feature of Tivoli NetView for OS/390 Version 1 Release 3 requires:

- IBM LAN Network Manager 2.0 (03H3519, 03H3523 or 03H3527) with NetView connectivity.
- Communications Manager/2 Version 1 Release 1 (79G0258 or 79G0257) or higher configured with Service Point Application Router (SPAR)

5.4.35.3 System Considerations for the MultiSystem Manager Novell NetWare Network Feature

The Novell NetWare Networks component of Tivoli NetView for OS/390 Version 1 Release 3 requires the following environment to function:

- OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL) or higher
- Each **managed server** must be running Novell NetWare 3.12 or 4.1 or later for DOS
- DOS 5.0 or later - for installation facility
- Each managed NetWare 3.12 server must have the LIB312 fix pack applied. This fix pack provides AFTER311.NLM version 4.15 and A3112.NLM version 4.18
- If the collection point server is NetWare 3.12, it must be running NetWare/IP 1.1 or later

In the list above, a **managed server** is one that is fully supported by Tivoli NetView for OS/390 Version 1 Release 3. Other servers in the network will still show up in the discovered topology but have a simple UP/DOWN status (UNK/UNSAT in NGMF). Unmanaged servers will also respond to QUERY STATION and COMTEST commands but detailed status is not available, nor are the majority of the MultiSystem Manager commands.

5.4.35.4 System Considerations for the MultiSystem Manager NetFinity Network Feature

The MultiSystem Manager NetFinity Networks feature of Tivoli NetView for OS/390 Version 1 Release 3 requires:

- Any IBM Personal Computer or compatible computer as required for NetFinity will support the topology agent for NetFinity. The topology agent for NetFinity is shipped with the NetFinity product.
- NetFinity Manager Version 5.0 or later running on OS/2 or Windows NT
- Windows NT:
 - OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL) or OS/390 Version 2 Release 5 (5647-A01) IP Services or later
- OS/2:
 - Communications Server for OS/2, Personal Communications for OS/2 or Communications Manager as per the requirements for NetFinity Manager V5.0 SNA communication

5.4.35.5 System Considerations for the MultiSystem Manager TMR Feature

The MultiSystem Manager Tivoli Management Region (TMR) feature of Tivoli NetView for OS/390 Version 1 Release 3 requires:

- OS/390 Release 3 level of TCP/IP (V3R2) (5655-HAL) or OS/390 Version 2 Release 5 (5647-A01) IP Services or later
- Tivoli Management Framework 3.2 (5697-FRA) or later

- Tivoli Distributed Monitoring 3.5 (5697-EMN) or later
- Tivoli Enterprise Console (TEC) (5697-EAS) Version 3.1 or later
- Any of the following Operating Systems:
 - Windows NT 4.0
 - AIX 4.2 or AIX 4.3 or higher
 - Sun Solaris 2.5.1 or higher
 - HP UX 10.2 or higher

5.4.35.6 Considerations for Sending Commands from Tivoli NetView for OS/390 Version 1 Release 3 to TEC

Sending commands from Tivoli NetView for OS/390 Version 1 Release 3 to TEC requires:

- The MultiSystem Manager Tivoli Management Region (TMR) Feature

5.4.35.7 System Considerations for the MultiSystem Manager IP Network Feature

The MultiSystem Manager Internet Protocol feature requires the Event Automation Service (EAS) component of Tivoli NetView for OS/390.

The MultiSystem Manager Internet Protocol feature of Tivoli NetView for OS/390 Version 1 Release 3 runs in many different environments. The requirements for each environment are included below:

- **AIX**

When the MultiSystem Manager IP agent is installed on Tivoli NetView for AIX, the IP agent can communicate with Tivoli NetView for OS/390 via SNA or TCP/IP. If you are using TCP/IP to communicate between the IP agent and Tivoli NetView for OS/390, the following are required:

- AIX Version 4 Release 3 (5765-C34) or higher
- Tivoli NetView for AIX Version 5 Release 1

If you are using SNA to communicate between the MultiSystem Manager IP agent and Tivoli NetView for OS/390, the following are required:

- AIX Version 4 Release 1 (5765-393) or later
- Tivoli NetView for AIX Version 4 (5765-527 feature number 5608) or later
- AIX NetView Service Point Version 1 Release 2.2 (5621-107)
 - PTF U440307
- IBM Communication Server for AIX Version 4 (5765-652)

- **HP-UX**

The MultiSystem Manager IP network feature for HP-UX uses TCP/IP to communicate between the MultiSystem Manager IP agent and Tivoli NetView for OS/390. The MultiSystem Manager IP agent for HP OpenView running on HP-UX requires:

- HP-UX Version 10 Release 20 or higher

- Hewlett Packard Network Node Manager(HP OpenView) Version 5 Release 1

- **NT**

The MultiSystem Manager IP network feature for NT uses TCP/IP to communicate between the MultiSystem Manager IP agent and Tivoli NetView for OS/390. The MultiSystem Manager IP agent for Tivoli Netview for NT requires:

- Windows NT Version 4
- Tivoli NetView for NT Version 5 Release 1

- **Solaris**

The MultiSystem Manager IP network agent for Solaris uses TCP/IP to communicate between the MultiSystem Manager IP agent and Tivoli NetView for OS/390. The agent can be installed on Tivoli NetView for Solaris or Hewlett Packard Network Node Manager.

- The MultiSystem Manager IP feature for Tivoli Netview for Solaris requires:
 - Solaris Version 2 Release 5 or Version 2 Release 6
 - Tivoli NetView for Solaris Version 5 Release 1
- The MultiSystem Manager IP agent for OpenView for Solaris requires:
 - Solaris Version 2 Release 5 or Version 2 Release 6
 - Hewlett Packard Network Node Manager(HP OpenView) Version 5 Release 1 or higher

5.4.35.8 System Considerations for the MultiSystem Manager ATM Networks Feature

The MultiSystem Manager topology agent for ATM is shipped with Tivoli NetView for OS/390 Version 1 Release 3 and runs as an application on Tivoli NetView for AIX. The MultiSystem Manager ATM Networks feature of Tivoli NetView for OS/390 Version 1 Release 3 requires:

Any IBM RISC System/6000* POWERstation, POWERserver, or compatible computer as required to support the following:

- AIX Version 4 Release 1.4 (5765-393) or later
- NetView for AIX Version 4 (5765-527) or later
 - or -
 - NetView for AIX Version 4 Japanese {Ja_JP} (5765-527) or later
- AIX NetView Service Point Version 1 Release 2.2 (5621-107) or later
- SNA Server/6000 Version 3 Release 1.0.1 (5765-582) or later
- IBM Communication Server for AIX Version 4 (5765-652)
- Nways Campus Manager ATM for AIX Version 2/Version 2.2 (5697-B08)
 - or -
 - Nways Campus Manager Suite Version 3 for AIX (5697-B06)

- or -

Nways Manager for AIX Version 1/Version 1.2 (5801-AAR)

NOTE: NCMA 1.3 is shown as N-ways Campus Manager 2.2.1.0 in SMIT.

You are now aware of all of the installation requirements for Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Option. Proceed to 6.0, "Installation Instructions" on page 58 to begin your product installation.

6.0 Installation Instructions

This chapter describes the installation method and the step-by-step procedures to install and to activate the functions of Tivoli NetView for OS/390 Version 1 Release 3.

If you obtained Tivoli NetView for OS/390 Version 1 Release 3 as part of a CBPDO, you can use the RIMLIB job on the CBPDO tape to run the SMP/E RECEIVE as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the *MVS CBPDO Memo to User Extension* included with the CBPDO.

This release of the Tivoli NetView for OS/390 Version 1 Release 3 program is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands.

The procedure outlined in this chapter assumes that the user has a knowledge of OS/390 Release 3 SMP/E or later based on the *SMP/E User's Guide*. To resolve any SMP/E related problems in the procedure, refer to the *SMP/E User's Guide* and the *SMP/E Reference*. This installation process does not cover the PARMLIB or other changes to OS/390 that are required to run Tivoli NetView for OS/390 Version 1 Release 3. The OS/390 changes required to run Tivoli NetView for OS/390 Version 1 Release 3 are discussed in the *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide*, SC31-8236.

Please note the following:

- If you want to install Tivoli NetView for OS/390 Version 1 Release 3 into its own SMP/E environment, consult the SMP/E manuals for instructions on creating and initializing the SMPCSI and the SMP/E control data sets.
- Sample jobs have been provided to help perform some or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries required for SMP/E execution have been defined in the appropriate zones.
- The SMP/E dialogs may be used instead of the sample jobs to accomplish the SMP/E installation steps.

With Tivoli NetView for OS/390 Version 1 Release 3 you will notice some major changes which will affect your SMP/E installation:

1. OS/390 Release 3 SMP/E or later is now the minimum level of SMP/E that you may use. With this level of SMP/E comes CALLLIBS support. This will allow you to link Language Environment for OS/390 libraries at APPLY time, thus eliminating the post-apply link edit jobs that used to be required when installing NetView. You will need to add DDDEF statements for these libraries to your DDDEF job if you plan on using them.
2. Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise cannot be installed on 3350 DASD.

The two basic choices for installing Tivoli NetView for OS/390 Version 1 Release 3 are:

1. **Install into new target and distribution zones. This is the recommended method for Tivoli NetView for OS/390 Version 1 Release 3 for users who will continue to use a prior version of NetView after Tivoli NetView for OS/390 Version 1 Release 3 has been installed.** SMP/E jobs will load the necessary code into the appropriate libraries, then try to delete any prior releases of NetView. Since you are installing into a new CSI target zone, there is nothing to delete. SMP/E will continue by saying there was nothing deleted. There is no need to give any dummy library names for your prior NetView because SMP/E has no way to know that a previous release was ever installed.

When your testing is finished and you have migrated completely to Tivoli NetView for OS/390 Version 1 Release 3, you can run a delete job to remove the old NetView, MultiSystem Manager, and AON/ANO FMIDs from the CSI zone(s). At that time you will have to provide SMP/E with access to the old LPALIB and LINKLIB libraries. For more information see 6.1.14.2, "APPLYing Tivoli NetView for OS/390 Version 1 Release 3 on a System Having NCCF or NetView Already Installed" on page 73. The *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide*, SC31-8236 contains additional information on running more than one NetView in a single host.

2. **Install the NetView program within existing target and distribution zones. This is the recommended method for installing Tivoli NetView for OS/390 Version 1 Release 3 for those who wish to delete their prior release of NetView without keeping the prior and the new NetView available for use at the same time (as in choice 1).** If you install Tivoli NetView for OS/390 Version 1 Release 3 into the same zone, you must provide access to your prior libraries via DDDEFs or DD statements. SMP/E will remove all traces of your previous release of NetView, including the FMIDs. In addition, you have to provide access to your SYS1.LPALIB so SMP/E may remove the old LPALIB modules. If by chance there are some traces of prior releases that still exist in SMP/E even though the libraries have been deleted, SMP/E will know and you will have to allocate dummy libraries for SMP/E and then apply again. When the apply and accept are complete, you may delete the dummy libraries. Be careful not to delete your real SYS1.LPALIB and SYS1.LINKLIB libraries. For more information see 6.1.14.2, "APPLYing Tivoli NetView for OS/390 Version 1 Release 3 on a System Having NCCF or NetView Already Installed" on page 73.

If you are installing Tivoli NetView for OS/390 Version 1 Release 3 into existing SMP/E zones and/or existing target and distribution libraries, you should first make a backup of the zones, the target and distribution libraries and other SMP/E data sets that will be changed during the installation. This backup will allow you to start over in case a severe error occurs during installation.

There is no SYSGEN support for Tivoli NetView for OS/390 Version 1 Release 3. If a SYSGEN is performed after the installation of Tivoli NetView for OS/390 Version 1 Release 3 is complete, the GENERATE facility of SMP/E can be used to re-install Tivoli NetView for OS/390 Version 1 Release 3.

6.1 Installing Tivoli NetView for OS/390 Version 1 Release 3

The samples provided with Tivoli NetView for OS/390 Version 1 Release 3 must be customized to work in your system's environment. Where possible, the samples call attention to places where customization is necessary; however, it is possible that additional customization might be required. For example, job card information might need to be customized. In addition to this program directory, read the comments in the JCL samples. They are designed to make it easy to find required changes. Some of the JCL values

which should be verified and are most likely to need customization are coded in lower case; a JCL error occurs if the values are overlooked.

6.1.1 SMP/E Considerations for Installing Tivoli NetView for OS/390 Version 1 Release 3

This release of Tivoli NetView for OS/390 Version 1 Release 3 is installed using the SMP/E RECEIVE, APPLY, and ACCEPT commands. The SMP/E dialogs may be used to accomplish the SMP/E installation steps.

6.1.2 SMP/E Environment

All SMP/E installation jobs provided assume that all necessary DD statements for the execution of SMP/E are defined using DDDEFS.

Sample jobs are provided to assist you in installing Tivoli NetView for OS/390 Version 1 Release 3. After the RECEIVE step has been completed, the sample jobs can be found in SMPTLIB: **IBM.HPZ8400.F2**. Make a copy of these jobs in your own library and modify them to use during the installation of Tivoli NetView for OS/390 Version 1 Release 3. Or you can use the UNLOAD job provided in the program directory to copy the install JCL from the tape. See 6.1.5, "Unload the Sample JCL from the Product Tape" on page 62. The sample jobs are:

CNMJSMPA	Sample job to allocate SMP/E datasets
CNMJGCSI	Sample job to allocate SMP/E global zone
CNMJCSIS	Sample job to allocate SMP/E target and dlib zones
CNMJZDEF	Sample job to define globalzone and default options to SMP/E
CNMJCSIA	Sample job to allocate global, target and dlib zones, define the globalzone and default options to SMP/E (Above 3 jobs combined into one job.)
CNMJUCLN	Sample job to update DSSPACE and/or PEMAX if using existing zones
CNMJDDNE	Sample job to define English DDDEFS
CNMJDDUX	Sample job to define OS/390 UNIX System Services Related Component DDDEFS
CNMJALEU	Sample job to allocate Unattended target and distribution libraries
CNMJALEP	Sample job to allocate Procedural target and distribution libraries
CNMJALEE	Sample job to allocate Graphical Enterprise target and distribution libraries
CNMJALXU	Sample job to allocate Unattended or Procedural OS/390 UNIX System Services Related Component target and distribution libraries and target HFS data set
CNMJALXE	Sample job to allocate Graphical Enterprise OS/390 UNIX System Services Related Component target and distribution libraries and target HFS data set

CNMJMKUM Sample job to create HFS mount point directory for OS/390 UNIX System Services Related Components if target HFS data set was allocated.

CNMJMKUX Sample job to create HFS directories for OS/390 UNIX System Services Related Components

Note: You must mount the target HFS data set prior to submitting the CNMJMKUX sample job if you allocate a target HFS dataset for NetView. For additional information, refer to 6.1.10, "Mount The Target Hierarchical File System Dataset" on page 69.

CNMJRC04 Sample Unattended RECEIVE job

CNMJRC24 Sample Procedural RECEIVE job

CNMJRC44 Sample Graphical Enterprise RECEIVE job

CNMJRC54 Sample Graphical Enterprise Workstation RECEIVE job

CNMJAP04 Sample Unattended APPLY job

CNMJAP24 Sample Procedural APPLY job

CNMJAP44 Sample Graphical Enterprise APPLY job

CNMJDLT1 Sample to delete previous NetView of NCCF with dummy fmid

CNMJDLT2 Sample to delete dummy fmid

CNMJAC04 Sample Unattended ACCEPT job

CNMJAC24 Sample Procedural ACCEPT job

CNMJAC44 Sample Graphical Enterprise ACCEPT job

CNMJUMCS Sample job to print out SMPMCS

In the sample SMP/E jobs provided, the name of the SMP/E CSI is GLOBAL. The global zone name in the SMP/E CSI is GLOBAL. The distribution zone name is DLIB1. The target zone name is TGT1. The sample jobs should be updated to reflect the CSI and zone names used at your installation.

6.1.3 SMP/E Options Subentry Values

The recommended values for some SMP/E CSI subentries are shown in Figure 35. Use of values lower than these may result in failures in the installation process. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. Refer to the SMP/E manuals for instructions on updating the global zone.

SUB-ENTRY	Value	Comment
DSSPACE	(300,500,900)	Use 900 directory blocks
PEMAX	9999	The SMP/E default is larger than what can be specified here

6.1.4 SMP/E CALLLIBS Processing

Tivoli NetView for OS/390 Version 1 Release 3 uses the CALLLIBS function of OS/390 Release 3 SMP/E to resolve external references during installation. When Tivoli NetView for OS/390 Version 1 Release 3 is installed, ensure the following:

- Verify that the SMP/E SMPLTS data set has been allocated. Refer to *SMP/E Reference* for information on allocating the SMPLTS data set.

Note: For Tivoli NetView for OS/390 Version 1 Release 3, 627 tracks of 3390 DASD space is adequate for the SMPLTS.

- Provide DDDEFs for the following libraries:
 - CSSLIB
 - SCEELKED

See 6.1.6.4, “Create DDDEF Entries” on page 65 for a sample job to define these DDDEFs.

Note: The DDDEFs above are used only to resolve the link-edit for Tivoli NetView for OS/390 Version 1 Release 3 using CALLLIBS. These data sets are not updated during the installation of Tivoli NetView for OS/390 Version 1 Release 3.

6.1.5 Unload the Sample JCL from the Product Tape

Sample installation jobs are provided on the distribution tape to help you install Tivoli NetView for OS/390 Version 1 Release 3. The following sample JCL will copy the Tivoli NetView for OS/390 Version 1 Release 3 jobs from the tape. Add a job card and modify the parameters in boldface to uppercase values to meet your site's requirements before submitting.

```
//STEP1 EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=A
//IN DD DSN=IBM.HPZ8400.F2,UNIT=tunit,VOL=SER=PZ8400,
// LABEL=(3,SL),DISP=(OLD,KEEP)
//OUT DD DSN=jcl-library-name,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=dunit,
// DCB=*.STEP1.IN,SPACE=(8800,(100,10,25))
//SYSUT3 DD UNIT=SYSDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=IN,OUTDD=OUT
/*
```

where **tunit** is the unit value matching the product tape or cartridge, **jcl-library-name** is the name of the data set where the sample jobs will reside (for example, NETVIEW.V1R3M0.INSTALL), **dasdvol** is the volume serial of the DASD device where the data set will reside, and **dunit** is the DASD unit type of the volume.

You can also access the sample installation jobs by performing an SMP/E RECEIVE for FMID HPZ8400, and then copying the jobs from dataset **IBM.HPZ8400.F2** to a work dataset for editing and submission.

6.1.6 Establish the Correct SMP/E Environment for Tivoli NetView for OS/390 Version 1 Release 3

NLS note

To install both NetView US English feature and NetView Japanese feature on the same CPU, they must be installed into separate target and distribution zones with maintenance applied to each independently. A separate SMPLTS is needed for each target zone. If you try to install both the NetView US English feature and the NetView Japanese feature into the same target and distribution zones, some features will not install correctly.

6.1.6.1 SMP/E Data Sets for Tivoli NetView for OS/390 Version 1 Release 3

If you chose to allocate a NetView SMP/E CSI then you may also wish to allocate separate SMP/E data sets for use with the new global zone. Sample CNMJSMIPA is provided in NETVIEW.V1R3M0.INSTALL for that purpose. It is important that the data set names match between sample job CNMJSMIPA and those that are specified in all of the installation jobs supplied with Tivoli NetView for OS/390 Version 1 Release 3. CNMJSMIPA is written to allow for a customer supplied second level qualifier to the data set names but does not require it. If you choose to add a second level qualifier you should code it in the SMPSLQ parameter using quotes and containing the trailing period (e.g. SMPSLQ='USER.').

- **Expected Return Codes and Messages:** The CNMJSMIPA job is considered successful if return code zero is received.

6.1.6.2 SMP/E CSI for Tivoli NetView for OS/390 Version 1 Release 3

Users who wish to allocate new CSI data sets and create a separate set of global, distribution and target zones for NetView may do so using samples CNMJGCSI, CNMJCSIS and CNMJZDEF, supplied in NETVIEW.V1R3M0.INSTALL. CNMJGCSI will allocate and prime a global CSI data set. CNMJCSIS allocates and primes separate CSI data sets for the target and distribution zones. Use CNMJZDEF to initialize the zones once the CSIs are allocated and primed.

- **Expected Return Codes and Messages:** The CNMJGCSI job is considered successful if return code zero is received.
- **Expected Return Codes and Messages:** The CNMJCSIS job is considered successful if return code zero is received.

The ACCJCLIN option tells SMP/E to save inline JCLIN in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. The ACCJCLIN option can be specified in the CNMJZDEF sample job, or a separate UCLIN job can be executed at a later time to add this option. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

- **Expected Return Codes and Messages:** The CNMJZDEF job is considered successful if return code zero is received.

CNMJCSIA is a sample provided which combines CNMJGCSI, CNMJCSIS and CNMJZDEF into one job. You may choose to run CNMJCSIA instead of CNMJGCSI, CNMJCSIS and CNMJZDEF. Review the SMP/E options defined in CNMJZDEF and CNMJCSIA. These options were chosen for maximum flexibility and a minimum number of later updates; you may wish to change some options. For example, the NOPURGE option, prevents the deletion of global zone SYSMOD entries, HOLDDATA entries, SMPPTS MCS entries and SMPTLIB data sets during ACCEPT processing. Specifying PURGE could save some disk space if the consequences are acceptable. The *SMP/E User's Guide* and the *SMP/E Reference* will be helpful in determining whether or not to specify NOPURGE.

The ACCJCLIN option tells SMP/E to save inline JCLIN in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. The ACCJCLIN option can be specified in the CNMJCSIA sample job, or a separate UCLIN job can be executed at a later time to add this option. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

- **Expected Return Codes and Messages:** The CNMJCSIA job is considered successful if return code zero is received.

6.1.6.3 OS/390 Release 3 SMP/E or later access to Tivoli NetView for OS/390 Version 1 Release 3 Data Sets

Tivoli NetView for OS/390 Version 1 Release 3 now has it's own MACLIB and AMACLIB data sets instead of using the system data sets. They are SCNMMAC1 and ACNMMAC1.

To establish the correct SMP/E access to Tivoli NetView for OS/390 Version 1 Release 3 data sets, complete the following steps:

- Ensure that the SMP/E space requirements outlined in Figure 19 on page 27 and Figure 20 on page 28 are met by the SMP/E environment that will be used to install Tivoli NetView for OS/390 Version 1 Release 3. If you choose to use samples CNMJSMIPA, CNMJGCSI and CNMJCSIS to create your SMP/E environment, or CNMJCSIA, these requirements are met and you may continue to 6.1.6.4, "Create DDDEF Entries" on page 65. If you are not using CNMJSMIPA, CNMJGCSI and CNMJCSIS to create your SMP/E environment, read the following items.
 - Storage requirements for the SMPCSI data sets are found in Figure 18 on page 27.
 - CNMJUCLN, found in NETVIEW.V1R3M0.INSTALL, can be used to set DSSPACE and PEMAX to the values shown in Figure 35 on page 61. CNMJUCLN should only be used if the values in your current OPTIONS entry are less than the values shown in Figure 35 on page 61.
 - Run CNMJUCLN, if necessary, before proceeding to 6.1.6.4, "Create DDDEF Entries" on page 65.

Expected Return Codes and Messages: The CNMJUCLN job is considered successful if return code zero is received.

6.1.6.4 Create DDDEF Entries

Add the DDDEFs for Tivoli NetView for OS/390 Version 1 Release 3 target libraries and distribution libraries (for RESTORE processing) to the target zone into which Tivoli NetView for OS/390 Version 1 Release 3 will be APPLIED. Also add the DDDEFs for distribution libraries to the distribution zone into which Tivoli NetView for OS/390 Version 1 Release 3 will be ACCEPTed.

Run CNMJDDNE before proceeding. See the following table for which DDDEF jobs you should run for the associated components noted in the 'Description' column. You must make some modifications to each of the following jobs before running them.

Installation Option	DDDEF jobs to run	Description
ALL	CNMJDDNE	DDDEFs for all types of systems
JPZ8407 or JPZ8454 FMIDs	CNMJDDUX	DDDEFs for OS/390 UNIX System Services Related Components.

- **CNMJDDNE:**

Expected Return Codes and Messages: The CNMJDDNE job is considered successful if return code zero is received.

If you are going to install Tivoli NetView for OS/390 Version 1 Release 3 FMID(s) JPZ8407 or JPZ8454 OS/390 UNIX System Services Related Components, you need to modify and run CNMJDDUX. FMIDs JPZ8407 and JPZ8454 contain parts that will install into HFS directories in OS/390 UNIX System Services. These FMIDs are optional. See the instructions in the sample job for more information. Because pathnames in OS/390 UNIX System Services are case sensitive, be sure when you change <PathPrefix> in the DDDEFUX3 step not to change the case of any characters in the HFS pathname.

- **CNMJDDUX:**

Expected Return Codes and Messages: The CNMJDDUX job is considered successful if return code zero is received.

6.1.7 Allocate SMP/E Target and Distribution Libraries

Ensure that the Tivoli NetView for OS/390 Version 1 Release 3 target and distribution libraries have sufficient space. If you are installing an Unattended system refer to Figure 21 on page 28 and Figure 23 on page 31 for proper sizes. If you are installing a Procedural system refer to Figure 24 on page 32 and Figure 26 on page 34 for proper sizes, and if you are installing a Graphical Enterprise system refer to Figure 27 on page 36 and Figure 29 on page 38. To allow for maintenance, the space allocations in allocation samples are larger than the actual minimum space required.

Remember, if you first install an Unattended system, and then, at a later time, decide to migrate to a Procedural system, you will need to enlarge some datasets (for example, the panel datasets).

Remember, if you first install an Unattended or Procedural system, and then, at a later time, decide to migrate to a Graphical Enterprise system, you may need to enlarge your datasets. To find out how much larger your datasets must be for a Graphical Enterprise system you should use the charts listed in section 5.2.3, "DASD Storage Requirements" on page 26. In some cases you will need to create new datasets, as there are some datasets that are only used in the Graphical Enterprise system.

If you are installing the NetView program for the first time, the allocation samples, (CNMJALEU, CNMJALEP, CNMJALEE, CNMJALXU, and CNMJALXE), can be used to create the target and distribution libraries which are used exclusively by Tivoli NetView for OS/390 Version 1 Release 3.

The target library SCNMLPA1 must be cataloged in the master catalog so that it can later be concatenated to SYS1.LPALIB via the LPALSTxx member of SYS1.PARMLIB. The target libraries CNMLINK, SEKGMOD1 and SEKGMOD2 must also be cataloged in the master catalog if they are to be added to the linklist via the LNKLSTxx member of SYS1.PARMLIB. The LPALIB and LINKLIST concatenations are discussed further in the *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide*, SC31-8236.

6.1.7.1 Unattended Tivoli NetView for OS/390 Version 1 Release 3

For Unattended Tivoli NetView for OS/390 Version 1 Release 3 run CNMJALEU, if you are allocating new Tivoli NetView for OS/390 Version 1 Release 3 libraries. After running CNMJALEU you should proceed to 6.1.12, "Perform SMP/E RECEIVE" on page 70, unless you are installing the optional FMID JPZ8407. If you are installing FMID JPZ8407 proceed to 6.1.8, "Tivoli NetView for OS/390 Version 1 Release 3 OS/390 UNIX System Services Related Components" on page 67.

- **CNMJALEU:**

Expected Return Codes and Messages: The CNMJALEU job is considered successful if return code zero is received.

6.1.7.2 Procedural Tivoli NetView for OS/390 Version 1 Release 3

For Procedural Tivoli NetView for OS/390 Version 1 Release 3 run CNMJALEP, if you are allocating new Tivoli NetView for OS/390 Version 1 Release 3 libraries. After running CNMJALEP you should proceed to 6.1.12, "Perform SMP/E RECEIVE" on page 70, unless you are installing the optional FMID JPZ8407. If you are installing FMID JPZ8407 proceed to 6.1.8, "Tivoli NetView for OS/390 Version 1 Release 3 OS/390 UNIX System Services Related Components" on page 67.

- **CNMJALEP:**

Expected Return Codes and Messages: The CNMJALEP job is considered successful if return code zero is received.

6.1.7.3 Graphical Enterprise Tivoli NetView for OS/390 Version 1 Release 3

For Graphical Enterprise Tivoli NetView for OS/390 Version 1 Release 3 run CNMJALEE, if you are allocating new Tivoli NetView for OS/390 Version 1 Release 3 libraries. After running CNMJALEE you should proceed to 6.1.12, “Perform SMP/E RECEIVE” on page 70, unless you are installing the optional FMID(s) JPZ8407 or JPZ8454. If you are installing FMID(s) JPZ8407 or JPZ8454 proceed to 6.1.8, “Tivoli NetView for OS/390 Version 1 Release 3 OS/390 UNIX System Services Related Components” on page 67.

- **CNMJALEE:**

Expected Return Codes and Messages: The CNMJALEE job is considered successful if return code zero is received.

6.1.8 Tivoli NetView for OS/390 Version 1 Release 3 OS/390 UNIX System Services Related Components

JPZ8407 and JPZ8454 are optional FMIDs that will install parts into HFS directories in your OS/390 UNIX System Services environment. JPZ8407 and JPZ8454 are independent of one another, i.e. JPZ8407 does not require JPZ8454 and visa versa. JPZ8407 and JPZ8454 are only required if you plan to use a NetView function that requires the data installed by these FMIDs.

JPZ8407 is required for the following NetView functions:

- UNIX for OS/390 Command Server
- NetView IP Discovery
- NMC MIB Browser
- Java SNMP Command Line Interface
- AON SNMP Support

JPZ8454 contains the Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Workstation deliverables in filepack format. These deliverables are also available on the Tivoli NetView for OS/390 CDROM.

6.1.8.1 Unattended or Procedural Tivoli NetView for OS/390 Version 1 Release 3

For Unattended or Procedural Tivoli NetView for OS/390 Version 1 Release 3 run CNMJALXU, if you are allocating new Tivoli NetView for OS/390 Version 1 Release 3 libraries or target HFS data set, before proceeding to 6.1.9, “Create Hierarchical File System Mount Point Directory” on page 68. CNMJALXU allocates target and distribution libraries for OS/390 UNIX System Services Related Components contained in FMID JPZ8407. CNMJALXU also allocates your target HFS data set, 'hhhhhh.NETVIEW.HFS', that will be used in your OS/390 UNIX System Services environment to install FMID JPZ8407.

Note: You are not required to allocate a target HFS data set to install FMID JPZ8407; however, it is recommended. If you do not wish to allocate a target HFS data set for NetView, you can still install FMID JPZ8407 into either your root HFS data set or into another HFS data set. In order to **not** allocate a target HFS data set, edit CNMJALXU and delete the ALLOC2 step before running the CNMJALXU sample job. After you have successfully run CNMJALXU, proceed to 6.1.11, “Create Hierarchical File System Directories” on page 70.

- **CNMJALXU:**

Expected Return Codes and Messages: The CNMJALXU job is considered successful if return code zero is received.

6.1.8.2 Graphical Enterprise Tivoli NetView for OS/390 Version 1 Release 3

For Graphical Enterprise Tivoli NetView for OS/390 Version 1 Release 3 run CNMJALXE, if you are allocating new Tivoli NetView for OS/390 Version 1 Release 3 libraries or target HFS data set, before proceeding to 6.1.9, “Create Hierarchical File System Mount Point Directory.” CNMJALXE allocates target and distribution libraries for OS/390 UNIX System Services Related Components and the Graphical Enterprise Workstation Components contained in FMIDs JPZ8407 **and** JPZ8454 respectively. CNMJALXE also allocates your target HFS data set, 'hhhhh.NETVIEW.HFS', that will be used to install FMIDs JPZ8407 and JPZ8454.

Note: You are not required to allocate a target HFS data set to install FMID(s) JPZ8407 or JPZ8454; however, it is recommended. If you do not wish to allocate a target HFS data set for NetView, you can still install FMID(s) JPZ8407 or JPZ8454 into either your root HFS data set or into another HFS data set. In order to **not** allocate a target HFS data set, edit CNMJALXE and delete the ALLOC2 step before running the CNMJALXE sample job. After you have successfully run CNMJALXE, proceed to 6.1.11, “Create Hierarchical File System Directories” on page 70.

- **CNMJALXE:**

Expected Return Codes and Messages: The CNMJALXE job is considered successful if return code zero is received.

For additional information on installing the Graphical Enterprise workstation components from OS/390 using Tivoli Management Framework Software Installation Service (SIS), refer to 6.1.17, “Installing Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Workstation Components from OS/390 using Tivoli Management Framework” on page 80.

6.1.9 Create Hierarchical File System Mount Point Directory

If you did not allocate a target HFS data set, skip this step and proceed to 6.1.11, “Create Hierarchical File System Directories” on page 70.

For Tivoli NetView for OS/390 Version 1 Release 3, edit and submit sample CNMJMKUM if you are installing FMID(s) JPZ8407 or JPZ8454.

CNMJMKUM creates the HFS mount point directory, <PathPrefix>/usr/lpp/netview/, which will be used to mount your target HFS data set that was allocated by CNMJALXU (for Unattended or Procedural installations) or CNMJALXE (for Graphical Enterprise installations). CNMJMKUM must be run by a userid that has superuser authority (for example, ROOT), and the UNIX System Services component of OS/390 must be active.

Note: CNMJMKUM assumes that the <PathPrefix>/usr/lpp/ directories already exist. If these directories do not exist, manually create the <PathPrefix>/usr/lpp/ directories **before** submitting CNMJMKUM.

Note: When editing sample CNMJMKUM, be sure that you use the same <PathPrefix> value as was used in sample CNMJDDUX.

- **CNMJMKUM:**

Expected Return Codes and Messages: The CNMJMKUM job is considered successful if return code zero is received.

6.1.10 Mount The Target Hierarchical File System Dataset

If you did not allocate a target HFS data set, skip this step and proceed to 6.1.11, "Create Hierarchical File System Directories" on page 70.

Use the following TSO/E command to mount the target HFS dataset that was allocated by sample CNMJALXU (for Unattended or Procedural installations) or sample CNMJALXE (for Graphical Enterprise installations) at the mount point directory:

```
MOUNT FILESYSTEM('hhhhh.NETVIEW.HFS')
      MOUNTPOINT('<PathPrefix>/usr/lpp/netview')
      TYPE(HFS) MODE(RDWR)
```

'hhhhh.NETVIEW.HFS' is the name of your target HFS dataset and <PathPrefix> is the high-level directory name that was used in sample CNMJDDUX. Be sure to mount the target HFS dataset in read/write mode. After the steps in this program directory have been completed, you should re-mount the target HFS dataset in read only mode in order to protect the data installed. This command must be entered by a userid that has superuser authority (for example, ROOT), and the UNIX System Services component of OS/390 must be active.

Note: If you re-ipl your target system, you will have to re-enter this command in order to re-mount the target HFS dataset. To automatically mount the target HFS dataset during the ipl process, modify your BPXPRMxx member of SYS1.PARMLIB. Instructions for modifying your BPXPRMxx member are provided in the *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide, SC31-8236*.

6.1.11 Create Hierarchical File System Directories

For Tivoli NetView for OS/390 Version 1 Release 3, edit and submit sample CNMJMKUX if you are installing FMID(s) JPZ8407 or JPZ8454.

CNMJMKUX creates HFS directories for OS/390 UNIX System Services Related Components contained in FMIDs JPZ8407 and JPZ8454. CNMJMKUX must be run by a userid that has superuser authority (for example, ROOT), and the UNIX System Services component of OS/390 must be active.

Note: When editing sample CNMJMKUX, be sure that you use the same <PathPrefix> value as was used in sample CNMJDDUX.

- **CNMJMKUX:**

Expected Return Codes and Messages: The CNMJMKUX job is considered successful if return code zero is received.

6.1.12 Perform SMP/E RECEIVE

Edit and submit sample receive job to perform the SMP/E RECEIVE for Tivoli NetView for OS/390 Version 1 Release 3. Consult the instructions in the sample job for more information. Following is a table for each receive job which will receive one or more FMIDs. Depending on which system (Unattended, Procedural or Graphical Enterprise) you are installing, you will need to run different RECEIVE jobs. Figure 37 will show you which RECEIVE jobs to run, and which FMIDs they will RECEIVE.

Note: If you obtained Tivoli NetView for OS/390 Version 1 Release 3 as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the Tivoli NetView for OS/390 Version 1 Release 3 FMIDs as well as any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information, refer to the documentation included with the CBPDO.

Figure 37. Which Receive Jobs to Run

System ordered	RECEIVE jobs to run	FMIDs received
Unattended	CNMJRC04	HPZ8400 JPZ8404 JPZ8407
Procedural	CNMJRC04 CNMJRC24	HPZ8400 JPZ8404 JPZ8407 JPZ8420 JPZ8424
Graphical Enterprise	CNMJRC04 CNMJRC24 CNMJRC44 CNMJRC54	HPZ8400 JPZ8404 JPZ8407 JPZ8420 JPZ8424 JPZ8440 JPZ8444 JPZ8454

Note: The base component (FMID HPZ8400) must be received before any of the other components. Also, for each RECEIVE job supplied, the first FMID listed, (the one whose FMID ends with 0) must be received before any other FMIDs listed in that RECEIVE job. You may also RECEIVE all the FMIDs in one job.

Note: The DESCRIPTION() operand that is coded on the header modification control statements (MCS) for each FMID indicates the function contained in the FMID. This operand is supported only by OS/390

Release 7 SMP/E or higher. When installing in pre-OS/390 Release 7 environments, the following SMP/E PTFs **are required** in order to tolerate this operand:

- OS/390 Release 5 or Release 6 SMP/E (HMP1B00) requires PTFs **UR50598, UR50422, UR51068**
- OS/390 Release 3 or Release 4 SMP/E (HMP1A00) requires PTFs **UR50597, UR50419, UR51067**

If you are installing in a pre-OS/390 Release 7 environment **with** the appropriate PTF identified above installed, SMP/E will issue an informational message during RECEIVE processing indicating the DESCRIPTION operand is being ignored. Processing for the FUNCTION will continue and will result in a corresponding return code of zero. The informational message will appear as follows:

```
GIM50050I RECEIVE PROCESSING FOR SYSMOD xxxxxxxx ENCOUNTERED
          THE DESCRIPTION OPERAND ON THE HEADER MCS. THIS
          OPERAND IS IGNORED SINCE IT IS SUPPORTED ONLY BY
          OS/390 RELEASE 7 SMP/E, OR HIGHER.
```

After choosing which jobs you should run, make the changes as indicated in the JCL comments (as well as any other changes required by your site) and submit the jobs.

- **CNMJRC04:**

The JCL contained in the sample job CNMJRC04 should be run for Unattended, Procedural, and Graphical Enterprise.

Expected Return Codes and Messages: The CNMJRC04 job is considered successful if return code zero is received.

- **CNMJRC24:**

The JCL contained in the sample job CNMJRC24 should be run for Procedural and Graphical Enterprise.

Expected Return Codes and Messages: The CNMJRC24 job is considered successful if return code zero is received.

- **CNMJRC44:**

The JCL contained in the sample CNMJRC44 should be run for Graphical Enterprise.

Expected Return Codes and Messages: The CNMJRC44 job is considered successful if return code zero is received.

- **CNMJRC54:**

The JCL contained in the sample CNMJRC54 should be run to receive Graphical Enterprise workstation components.

JPZ8454 contains the Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Workstation deliverables in filepack format. These deliverables are also available on the Tivoli NetView for OS/390 CDROM.

Expected Return Codes and Messages: The CNMJRC54 job is considered successful if return code zero is received.

6.1.13 RECEIVE the Cumulative Service Tape

NOTE: This step is bypassed if receiving the product from a CBPDO.

Expected Return Codes and Messages: The job is considered successful if return code zero is received.

6.1.14 Perform SMP/E APPLY

If you have previously installed NetView or NCCF into target libraries that you will continue to use with Tivoli NetView for OS/390 Version 1 Release 3, you will need to let SMP/E remove the old NetView or NCCF from those target libraries at APPLY time. See section 6.1.14.2, "APPLYing Tivoli NetView for OS/390 Version 1 Release 3 on a System Having NCCF or NetView Already Installed" on page 73 for more information.

Each APPLY job supplied in NETVIEW.V1R3M0.INSTALL will apply one or more FMIDs. Depending on which system (Unattended, Procedural or Graphical Enterprise) you are installing, you will need to run different APPLY jobs. Figure 38 will show you which APPLY jobs to run, and which FMIDs they will apply.

Note: It is **strongly** recommended that you APPLY the NetView components in the order listed for your system in Figure 38. This is because Tivoli NetView for OS/390 Version 1 Release 3 has many dependencies between components. These dependencies will cause unresolved external reference messages to be generated during the APPLY. The list shown in Figure 41 on page 77 was compiled based on applying the FMIDs in this order. If you choose to apply the FMIDs in a different order your APPLY output will not match the list shown. This may make it difficult for you to determine if there are any unexpected unresolved external references which would affect the Tivoli NetView for OS/390 Version 1 Release 3

<i>Figure 38. Which APPLY Jobs to Run</i>		
System ordered	APPLY jobs to run	FMIDs applied
Unattended	CNMJAP04	HPZ8400 JPZ8404 JPZ8407
Procedural	CNMJAP04 CNMJAP24	HPZ8400 JPZ8404 JPZ8407 JPZ8420 JPZ8424
Graphical Enterprise	CNMJAP04 CNMJAP24 CNMJAP44	HPZ8400 JPZ8404 JPZ8407 JPZ8420 JPZ8424 JPZ8440 JPZ8444 JPZ8454
Note: If you are installing FMID JPZ8407 and/or FMID JPZ8454, then the CNMJAP04 and CNMJAP44 APPLY jobs must be run by a userid that has superuser authority (for example, ROOT), and the UNIX System Services component of OS/390 must be active.		

Note: For each component, you must apply the base FMID before you apply any other FMID in that component. For example, you must apply FMID HPZ8400 before applying JPZ8404 or JPZ8407.

After choosing which jobs you should run, make the changes as indicated in the JCL comments contained in the samples (as well as any other changes required by your site) and submit the jobs. Remember, you must comment out any FMIDs that you will not be applying.

Warning: Because Tivoli NetView for OS/390 Version 1 Release 3 has been divided into several FMIDs this release, some load modules will be built with parts from multiple FMIDs. SMP/E will handle this automatically for you by keeping track of what parts are needed and adding them into load modules as they are applied. However, this means that some linkage editor steps will initially finish with a return code of 4. In order to keep the APPLY step from ending prematurely, you must set SMP/E to allow a return code of 4. (This is done automatically if you use the SMP/E sample installation jobs provided). This can also be done by using the SMP/E dialogs or UCLIN to set the return code for specific utilities such as IEWL, the linkage editor.

- **CNMJAP04:**

If you are installing FMID JPZ8407, the CNMJAP04 APPLY job must be run by a userid that has superuser authority(for example, ROOT), and the UNIX System Services component of OS/390 must be active.

Expected Return Codes and Messages: The CNMJAP04 job is considered successful if return code four(04) is received. For additional information refer to Figure 41 on page 77.

- **CNMJAP24:**

Expected Return Codes and Messages: The CNMJAP24 job is considered successful if return code zero is received.

- **CNMJAP44:**

If you are installing FMID JPZ8454, the CNMJAP44 APPLY job must be run by a userid that has superuser authority(for example, ROOT), and the UNIX System Services component of OS/390 must be active.

Expected Return Codes and Messages: The CNMJAP44 job is considered successful if return code zero is received.

6.1.14.1 Subdividing the APPLY of Tivoli NetView for OS/390 Version 1 Release 3

Because of the number of FMIDs in Tivoli NetView for OS/390 Version 1 Release 3 it is recommended that you do not try to run the entire APPLY as one job. Each sample job will do the apply for one component. In most cases you will not be APPLYing every FMID for each component.

You may also APPLY NetView one FMID at a time. If you elect to do this you must ensure that you apply the base FMID for each component before you apply any other FMIDs. The base component FMID always ends with the digit 0, such as HPZ8400 or JPZ8420.

6.1.14.2 APPLYing Tivoli NetView for OS/390 Version 1 Release 3 on a System Having NCCF or NetView Already Installed

You should do either 6.1.14.2.1, “Deleting a Previous Release of NCCF or NetView” or 6.1.14.2.2, “Running with a Previous Release of NCCF or NetView” on page 74, but not both.

6.1.14.2.1 Deleting a Previous Release of NCCF or NetView: If you have previously installed NetView or NCCF into system libraries and you will use those libraries again with Tivoli NetView for OS/390 Version 1 Release 3, but you do not want to continue using this release after your Tivoli NetView for

OS/390 Version 1 Release 3 install, you will need to use SMP/E to remove the old NetView or NCCF from those libraries when SMP/E installs Tivoli NetView for OS/390 Version 1 Release 3.

This is particularly important when the prior release of NetView or NCCF was installed into SYS1.LINKLIB and/or SYS1.LPALIB. If you do not remove the previous release of NetView or NCCF from SYS1.LINKLIB and SYS1.LPALIB, the newly installed system will be executing the previous NetView or NCCF modules instead of Tivoli NetView for OS/390 Version 1 Release 3 modules.

For SMP/E to remove the previous release of NetView or NCCF from your system's libraries, you will have to take the following steps:

- You will have to run your APPLY job using your old NetView or NCCF libraries and SMP/E zone.
- During an APPLY, all the elements from a previous release are deleted from your target libraries. If you have previously deleted old libraries or elements within a library, the SMP/E entry for them will still exist. An attempt will be made to delete elements, and processing will continue whether or not they are found. However, if SMP/E cannot find the data sets, it will halt the APPLY until you provide access to them. In this case, allocate dummy libraries and delete them after the APPLY.
- Any old NetView data sets that are deleted should be removed from your SMP/E zone DDDEFs (CNMJDDNE and CNMJDDUX). If you have a previous version of MultiSystem Manager or AON/ANO installed you will need to delete those data sets as well.
- Since the APPLY will have deleted BNJMTERM from SYS1.LPALIB, no IPLs should be performed with the CLPA option until the library SCNMLPA1 is concatenated to SYS1.LPALIB via a LPALSTxx member of SYS1.PARMLIB (refer to the *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide, SC31-8236*).

Warning: If an IPL is performed with the CLPA option before SCNMLPA1 is concatenated to SYS1.LPALIB, the target system will not IPL.

To lessen the exposure to this situation, you might want to add SCNMLPA1 to the LPALSTxx member (refer to *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide, SC31-8236*) before actually APPLYing Tivoli NetView for OS/390 Version 1 Release 3.

6.1.14.2.2 Running with a Previous Release of NCCF or NetView: If you have previously installed NetView or NCCF and you plan to continue using this release after your Tivoli NetView for OS/390 Version 1 Release 3 install, you **MUST** use separate SMP/E target zones for your Tivoli NetView for OS/390 Version 1 Release 3 install. After your period of testing Tivoli NetView for OS/390 Version 1 Release 3 is finished, you should delete the previous release of NetView or NCCF. If the previous level of NetView is earlier than Version 2 Release 1 (or NetView Version 1 Release 3 MVS/ESA) then you must manually delete the old modules from SYS1.LPALIB and SYS1.LINKLIB since the new release uses modules which are placed in SCNMLPA1 rather than LPALIB and CNMLINK instead of LINKLIB. These modules in SCNMLPA1 are downward compatible with previous releases and the most recent version should be used.

When your migration is complete and you wish to delete your previous release of NCCF or NetView, you may run an SMP/E job using a dummy FMID to delete the previous release and its parts from the old

libraries and the previous release's target and distribution zones. A UCLIN job is used to clean out references to the dummy FMID from the CSI zones. This assumes you have installed Tivoli NetView for OS/390 Version 1 Release 3 in a separate CSI(s) or zone(s) from the previous release. Examples of how this can be done are provided in samples CNMJDLT1 and CNMJDLT2. The symbol *fmid2del* contained in these samples would be replaced by the base FMID of the actual release you have installed. Figure 39 lists the releases prior to Tivoli NetView for OS/390 Version 1 Release 3. The symbol *nvdelet* is the dummy FMID used for the delete processing. You could use NVDELETE as the FMID or you can supply another FMID if you prefer.

Expected Return Codes and Messages: The CNMJDLT1 and CNMJDLT2 jobs are considered successful if return code zero is received.

Figure 39 (Page 1 of 2). NetView FMIDs to delete by Version/Release

Version/Release	MVS/370	MVS/XA	MVS/ESA
NetView V1R1	HNV1102	HNV1103	N/A ¹
NetView V1R2	HNV1202	HNV1203	N/A ¹
NetView V1R3	N/A ²	HNV1303	HVNW140
NetView V2R1	N/A ²	HVWW101	HXYZ101
NetView V2R2	N/A ²	HVWW200	HXYZ200
NetView V2R3	N/A ²	HVWW300	HXYZ300
NetView V2R4	N/A ²	N/A ³	HXYZ400
NetView V3R1	N/A ²	N/A ³	HPZ8100, HPZ8130
TME 10 NetView V1R1	N/A ²	N/A ³	HPZ8200
TME 10 NetView V1R2	N/A ²	N/A ³	HPZ8300
MultiSystem Manager V1R1	N/A ⁴	N/A ⁵	HFLC100
MultiSystem Manager V1R2	N/A ⁴	N/A ⁵	HFLC200
MultiSystem Manager V2R1	N/A ⁴	N/A ⁵	HFLC300
MultiSystem Manager V2R2	N/A ⁴	N/A ⁵	HFLC400

Figure 39 (Page 2 of 2). NetView FMIDs to delete by Version/Release

Version/Release	MVS/370	MVS/XA	MVS/ESA
AON/ANO FMIDs	N/A ⁶	N/A ⁷	HLR6110, HLR6200, HML6110, HML6111, H080100

Notes:

1. NetView was not shipped in MVS/ESA for this release.
2. NetView was not shipped in MVS/370 for this release.
3. NetView was not shipped in MVS/XA for this release.
4. MultiSystem Manager was not shipped in MVS/370.
5. MultiSystem Manager was not shipped in MVS/XA.
6. AON/ANO was not shipped in MVS/370 for this release.
7. AON/ANO was not shipped in MVS/XA for this release.

If you have not accepted all of your maintenance, you may have additional work to complete the cleanup of your global zones. You should use the REJECT command to delete any SYSMODs and HOLDDATA applicable to the dummy function and the old function. In addition, you should delete the FMIDs from the GLOBALZONE entry to prevent SMP/E from receiving any SYSMODs or HOLDDATA applicable to either of those functions. Here are examples of the commands you can use to do this:

```

SET      BDY(GLOBAL)      /* Set to global zone.      */
REJECT  HOLDDATA NOFMID  /* Reject SYSMODs, HOLDDATA */
        DELETEFMID      /* for the deleted functions*/
        (nvdelet fmid2d1) /* Delete the FMIDs from the */
                          /* GLOBALZONE entry.        */
    
```

Figure 40. Additional delete logic

6.1.14.3 Running and Verifying the APPLY of Tivoli NetView for OS/390 Version 1 Release 3

Run the apply jobs for your system. They should all end with a return code of 4 or less. If the code is higher than 4, then analyze the reports from the APPLY and take whatever action is necessary to resolve the errors. The analysis of APPLY reports is covered in detail in the *SMP/E User's Guide*.

Load module DSITCT will not be deleted during APPLY processing for customers who have the TCAM interface module, IEDQB1, installed with NCCF. This is not an error.

You should be aware that you may receive a return code of 0 and still find unresolved references in your APPLY output. This is normal and not a problem. With SMP/E R8 many modules are built twice. The first version is built without any references to HLL libraries resolved and stored in an SMP/E dataset, SMPLTS. This version will have unresolved external references. It is used by SMP/E to rebuild the module if you should update the level of any of your HLL's. SMP/E then builds the useable version of the module with the HLL libraries, resolving any external references. If the useable version builds correctly the APPLY job will end with a return code of 0. Please note that this is an explanation of how CALLLIBS works, not

an instruction to run REPORT CALLLIBS each time maintenance is applied to your high level language. This need was eliminated in Language Environment Version 1 Release 3 and is applicable to all OS/390 releases. You will still need to run REPORT CALLLIBS if your PL/I or C/390 products have maintenance applied, but not if your high level language source is LE V1R3 or higher which includes all levels of OS/390 Release 3 or higher.

Note: Unresolved external references in load modules other than those listed here should be investigated whether or not RODM, GMFHS, or Language Environment for OS/390 Release 3 will be used with NetView.

Note: There are some load modules that will not have all their external references resolved by the APPLY. This is because they may need to be linked in with user code, because they are used by another FMID to build a larger load module, or because they need a part from an FMID that has not yet been applied. The ACTION column will indicate if and how the external references will be resolved. If the ACTION column says "NONE" then this module will never have its external references resolved. This is not a problem. It means that the load module is never executed by itself, but is used to build a larger load module in a different product.

For FMID HPZ8400, the load modules listed in Figure 41 will generate unresolved external reference messages during the SMP/E APPLY process. The unresolved external references appear in the output because these load modules are intended to be linked with user code at the customer site.

Figure 41. Load Modules and Unresolved External References for HPZ8400

Load Modules	Unresolved References	Action	Messages
DUIFEXPP	CNMNETV	None	IEW2454W IEW2646W IEW2651W
CNMNVLC	CEESTART, STRTOUL, CEIL, FLOOR, MEMMOVE, CEESG003	None	IEW2454W
CNMVLC	CEESTART, VSPRINTF, STRTOUL, CEIL, FLOOR, STRLEN, MEMMOVE, CEESG003	None	IEW2454W

6.1.15 Perform SMP/E ACCEPT

Edit and submit sample accept jobs to perform an SMP/E ACCEPT for Tivoli NetView for OS/390 Version 1 Release 3. Consult the instructions in the sample job for more information.

The ACCJCLIN option tells SMP/E to save inline JCLIN in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. The ACCJCLIN option can be added by executing a UCLIN ADD job. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

If you have previously installed NetView or NCCF into distribution libraries that you will continue to use with Tivoli NetView for OS/390 Version 1 Release 3, you will need to let SMP/E remove the old NetView or NCCF from those distribution libraries at ACCEPT time.

If PTFs containing replacement modules are being ACCEPTed, SMP/E ACCEPT processing will linkedit/bind the modules into the distribution libraries. During this processing, the Linkage Editor or Binder may issue messages documenting unresolved external references, resulting in a return code of 4 from the ACCEPT step. These messages can be ignored, because the distribution libraries are not executable and the unresolved external references will not affect the executable system libraries.

Each ACCEPT job supplied in NETVIEW.V1R3M0.INSTALL will accept one or more FMIDs. Depending on which system (Unattended, Procedural or Graphical Enterprise) you are installing, you will need to run different ACCEPT jobs. The chart below will show you which ACCEPT jobs to run, and which FMIDs they will accept. For each ACCEPT job, you will need to comment out the FMIDs that you did not RECEIVE and APPLY.

See Figure 42 to determine which jobs you should run.

<i>Figure 42. Which ACCEPT Jobs to Run</i>		
System ordered	ACCEPT jobs to run	FMIDs accepted
Unattended	CNMJAC04	HPZ8400 JPZ8404 JPZ8407
Procedural	CNMJAC04 CNMJAC24	HPZ8400 JPZ8404 JPZ8407 JPZ8420 JPZ8424
Graphical Enterprise	CNMJAC04 CNMJAC24 CNMJAC44	HPZ8400 JPZ8404 JPZ8407 JPZ8420 JPZ8424 JPZ8440 JPZ8444 JPZ8454

After choosing which jobs you should run, make the changes as indicated in the JCL comments contained in the samples provided (as well as any other changes required by your site) and submit the jobs. Remember, you must comment out any FMIDs that you will not be accepting. The analysis of ACCEPT reports is covered in detail in *SMP/E User's Guide*.

- **CNMJAC04:**

Expected Return Codes and Messages: The CNMJAC04 job is considered successful if return code zero is received.

- **CNMJAC24:**

Expected Return Codes and Messages: The CNMJAC24 job is considered successful if return code zero is received.

- **CNMJAC44:**

Expected Return Codes and Messages: The CNMJAC44 job is considered successful if return code zero is received.

6.1.15.1 Subdividing the ACCEPT of Tivoli NetView for OS/390 Version 1 Release 3

If you wish, you may ACCEPT Tivoli NetView for OS/390 Version 1 Release 3 FMIDs one at a time by successively running the ACCEPT job with only one FMID specified in the SELECT option. By ACCEPTing each FMID in a separate job, you will make each of the jobs run in a shorter period of time than if you ACCEPTed all the FMIDs together.

6.1.15.2 ACCEPTing Tivoli NetView for OS/390 Version 1 Release 3 on a System Having NCCF or NetView Already Installed

You should do either 6.1.15.2.1, "Deleting a Previous Release of NCCF or NetView" or 6.1.15.2.2, "Running with a Previous Release of NCCF or NetView," but not both.

6.1.15.2.1 Deleting a Previous Release of NCCF or NetView: If you have previously installed NetView or NCCF into system libraries and you will reuse those libraries with Tivoli NetView for OS/390 Version 1 Release 3, but you do NOT want to continue using this release after your Tivoli NetView for OS/390 Version 1 Release 3 install you will need to let SMP/E remove the old NetView or NCCF from those libraries when SMP/E installs Tivoli NetView for OS/390 Version 1 Release 3.

To allow SMP/E to remove the old NetView or NCCF from your system's libraries, you will have to take the following steps:

- You will have to run your ACCEPT job using your old NetView or NCCF libraries and SMP/E zone.
- During an ACCEPT, all the elements from a previous release are deleted from your distribution libraries. If you have previously deleted old libraries or elements within a library, the SMP/E entry for them will still exist. An attempt will be made to delete them and processing will continue whether or not the element is found. However, if SMP/E cannot find the data sets, it will halt the ACCEPT until you provide access to them. In this case, allocate dummy libraries and delete them after the ACCEPT.
- Any old NetView data sets that are deleted should also be removed from your SMP/E zone DDDEFs. If you have a previous version of MultiSystem Manager or AON/ANO installed you will need to delete those data sets as well.

6.1.15.2.2 Running with a Previous Release of NCCF or NetView: If you have previously installed NetView or NCCF and you plan to continue using this release after your Tivoli NetView for OS/390 Version 1 Release 3 install, you MUST use separate SMP/E distribution zones for your Tivoli NetView for OS/390 Version 1 Release 3 install.

When your migration is complete and you wish to delete your previous release of NCCF or NetView, you may run the dummy SMP/E job to delete the old distribution libraries from the previous release's CSI zone. This assumes you have installed Tivoli NetView for OS/390 Version 1 Release 3 in a separate CSI from the previous release. This process is described in 6.1.14.2.2, "Running with a Previous Release of NCCF or NetView" on page 74 and the jobs provided perform the receive, apply, and accept steps.

6.1.16 Installing the PTFs for CUM Maintenance

For information concerning PTF installation, refer to *SMP/E User's Guide*.

APPLY and ACCEPT any CUM tape received with this product.

6.1.17 Installing Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Workstation Components from OS/390 using Tivoli Management Framework

The Graphical Enterprise workstation components are contained in JPZ8454 and are placed into the HFS <PathPrefix>/usr/lpp/netview/install directory of OS/390 UNIX System Services. These components can be subsequently installed on the various supported platforms using Tivoli Management Framework Software Installation Service (SIS).

The Tivoli Management Framework Software Installation Service (SIS) is a Java-based application that provides an easy and fast process for installing Tivoli products. Using Software Installation Service (SIS), you create an installation repository that contains the product installation images. You can then select each of the products you want to install and select the platforms on which you want to install them.

The Tivoli Management Framework Version 3.6.1 for OS/390 Server and Gateway program directory, GI10-8039, includes the information required to install and configure Tivoli Management Framework 3.6.1 Server and Gateway on OS/390 which includes the Tivoli Software Installation Service (SIS) component. For additional information refer to the publications noted in Figure 43 on page 81. To install the Tivoli NetView for OS/390 Version 1 Release 3 Graphical Enterprise Workstation Components from OS/390 using Tivoli Management Framework Software Installation Service (SIS), you will first need to perform the following tasks:

- Install JPZ8454, which will place the code in the <PathPrefix>/usr/lpp/netview/install directory
- Install Tivoli Management Framework and the Tivoli Management Framework Software Installation Service (SIS) component
- Set up your Tivoli Management Region

The following workstation components are contained in JPZ8454:

- Tivoli NetView Management Console (NMC)
 - NMC Topology Console
 - NMC Topology Server
 - NetView Resource Specific Command Sets
 - NMC Inventory Server
- Tivoli NetView 3270 Management Console
- Tivoli NetView Java Runtime Environment Version 1.1

- Event Automation Service(EAS)
- MultiSystem Manager Tivoli Management Region (TMR) Feature

For additional instructions on installing the above noted components refer to the readme documentation located in <PathPrefix>/usr/lpp/netview/install/EGVREAD5.ME, or on the Tivoli NetView for OS/390 Version 1 Release 3 CD under /README/ENU/EGVREAD5.ME.

6.1.17.1 Publications Useful During Installation

The publications listed in Figure 43 may be useful during the installation of Tivoli NetView for OS/390 Version 1 Release 3. To order copies, contact your IBM or Tivoli representative.

<i>Figure 43. Publications Useful During Installation</i>	
Publication Title	Form Number
<i>Tivoli Management Framework for OS/390 Program Directory, Version 3.6.1</i>	GI10-8039
<i>Tivoli Management Framework for OS/390 Release Notes: Server, Gateway, and Endpoint, Version 3.6.1</i>	GI10-9186
<i>TME 10 Framework Release Notes, Version 3.6.1</i>	GI10-8014
<i>TME 10 Framework Release Notes, Version 3.6</i>	GI10-3028
<i>TME 10 Framework Planning and Installation Guide 3.6</i>	SC31-8432
<i>TME 10 Framework Reference 3.6</i>	SC31-8434
<i>TME 10 Framework User's Guide 3.6</i>	GC31-8433
<i>TME 10 Software Installation Service User's Guide 3.6</i>	GC31-5121
<i>TME 10 Software Installation Service Release Notes 3.6.1</i>	GI10-8015
<i>TME 10 Software Installation Service Release Notes 3.6</i>	GI10-0512

6.2 Activating Tivoli NetView for OS/390 Version 1 Release 3

The publication *Tivoli NetView for OS/390 Version 1 Release 3 Installation and Administration Guide*, SC31-8236 contains procedures for activating functions of Tivoli NetView for OS/390 Version 1 Release 3. For additional information refer to the publications noted in Figure 9 on page 15.

Appendix A. Tivoli NetView for OS/390 Version 1 Release 3 Install Logic

A.1 SMP/E Modification Control Statements

The SMP/E Modification Control Statements (SMPMCS) for Tivoli NetView for OS/390 Version 1 Release 3 are contained in the SMPMCS file on the installation tape. The SMPMCS for each FMID in the product will be loaded to the SMPPTS data set, with a member name matching the FMID, when the FMID is SMP/E RECEIVED. You may browse or print these members using TSO/E, ISPF, or IEBGENER (or IEBTPCH).

A.2 SMP/E JCLIN

The JCLIN for Tivoli NetView for OS/390 Version 1 Release 3 is contained in the RELFILES on the installation tape. These files will be loaded to disk by SMP/E when the product is SMP/E RECEIVED. You may browse or print these files using TSO/E, ISPF, or IEBGENER (or IEBTPCH).

The files containing JCLIN are:

FMID HPZ8400: 'IBM.HPZ8400.F1(HPZ8400)'

FMID JPZ8404: 'IBM.JPZ8404.F1(JPZ8404)'

FMID JPZ8407: 'IBM.JPZ8407.F1(JPZ8407)'

FMID JPZ8420: 'IBM.JPZ8420.F1(JPZ8420)' (Contains JCLIN for Automated Operations Network)

FMID JPZ8440: 'IBM.JPZ8440.F1(JPZ8440)' (Contains JCLIN for MultiSystem Manager)

Note: The high-level qualifier is the qualifier specified as the DSPREFIX in the SMP/E OPTIONS.

Appendix B. Program Level Information

The following APAR fixes against previous releases of NetView have been incorporated into Tivoli NetView for OS/390 Version 1 Release 3:

OW00072	OW00635	OW01145	OW01491	OW01966
OW00095	OW00645	OW01153	OW01492	OW01967
OW00096	OW00649	OW01185	OW01521	OW01972
OW00100	OW00652	OW01202	OW01557	OW02018
OW00102	OW00668	OW01203	OW01567	OW02026
OW00127	OW00673	OW01204	OW01586	OW02034
OW00175	OW00723	OW01221	OW01588	OW02038
OW00182	OW00733	OW01237	OW01602	OW02048
OW00214	OW00751	OW01239	OW01607	OW02081
OW00220	OW00766	OW01258	OW01612	OW02082
OW00224	OW00770	OW01259	OW01641	OW02086
OW00226	OW00771	OW01262	OW01650	OW02104
OW00228	OW00772	OW01269	OW01672	OW02105
OW00229	OW00773	OW01270	OW01679	OW02107
OW00272	OW00811	OW01274	OW01681	OW02138
OW00274	OW00827	OW01276	OW01684	OW02150
OW00275	OW00845	OW01287	OW01685	OW02241
OW00285	OW00874	OW01304	OW01692	OW02251
OW00287	OW00875	OW01324	OW01697	OW02269
OW00290	OW00876	OW01339	OW01737	OW02276
OW00294	OW00878	OW01349	OW01738	OW02281
OW00296	OW00880	OW01350	OW01757	OW02291
OW00298	OW00882	OW01367	OW01792	OW02319
OW00326	OW00903	OW01369	OW01811	OW02338
OW00376	OW00910	OW01387	OW01812	OW02339
OW00384	OW00919	OW01404	OW01814	OW02437
OW00392	OW00924	OW01407	OW01862	OW02449
OW00404	OW00925	OW01413	OW01879	OW02465
OW00406	OW00927	OW01417	OW01887	OW02478
OW00410	OW00930	OW01444	OW01895	OW02479
OW00479	OW00977	OW01445	OW01896	OW02480
OW00481	OW00981	OW01446	OW01897	OW02494
OW00499	OW01051	OW01467	OW01900	OW02500
OW00523	OW01052	OW01481	OW01918	OW02511
OW00559	OW01063	OW01485	OW01919	OW02547
OW00563	OW01101	OW01486	OW01951	OW02550
OW00591	OW01128	OW01487	OW01961	OW02620
OW00606	OW01143	OW01488	OW01964	OW02624
OW00610	OW01144	OW01490	OW01965	OW02633

OW02635	OW03181	OW04226	OW05192	OW06079
OW02651	OW03218	OW04231	OW05196	OW06130
OW02653	OW03230	OW04244	OW05207	OW06174
OW02654	OW03270	OW04260	OW05249	OW06219
OW02656	OW03271	OW04273	OW05257	OW06233
OW02683	OW03281	OW04318	OW05266	OW06251
OW02700	OW03285	OW04325	OW05280	OW06252
OW02708	OW03291	OW04383	OW05289	OW06255
OW02738	OW03341	OW04390	OW05290	OW06257
OW02740	OW03362	OW04391	OW05297	OW06280
OW02752	OW03373	OW04426	OW05298	OW06335
OW02761	OW03374	OW04441	OW05368	OW06342
OW02766	OW03381	OW04477	OW05382	OW06344
OW02779	OW03391	OW04478	OW05385	OW06384
OW02803	OW03399	OW04570	OW05401	OW06398
OW02838	OW03488	OW04594	OW05402	OW06432
OW02844	OW03527	OW04609	OW05413	OW06438
OW02889	OW03556	OW04614	OW05418	OW06474
OW02902	OW03656	OW04623	OW05427	OW06477
OW02903	OW03721	OW04636	OW05430	OW06491
OW02912	OW03732	OW04750	OW05459	OW06522
OW02926	OW03736	OW04755	OW05490	OW06527
OW02927	OW03762	OW04790	OW05493	OW06535
OW02928	OW03772	OW04797	OW05532	OW06555
OW02930	OW03775	OW04799	OW05565	OW06577
OW02931	OW03805	OW04802	OW05576	OW06578
OW02943	OW03830	OW04804	OW05578	OW06585
OW02960	OW03914	OW04805	OW05612	OW06600
OW02976	OW03918	OW04815	OW05647	OW06637
OW02990	OW03934	OW04822	OW05712	OW06665
OW02995	OW03968	OW04842	OW05768	OW06668
OW02996	OW03978	OW04848	OW05785	OW06671
OW03029	OW03982	OW04850	OW05816	OW06723
OW03035	OW03998	OW04853	OW05822	OW06724
OW03036	OW04039	OW04860	OW05847	OW06729
OW03056	OW04042	OW04864	OW05858	OW06732
OW03078	OW04043	OW04883	OW05932	OW06751
OW03107	OW04045	OW04932	OW05978	OW06754
OW03115	OW04046	OW04984	OW05990	OW06789
OW03117	OW04059	OW04985	OW05995	OW06791
OW03134	OW04071	OW05011	OW06005	OW06794
OW03153	OW04144	OW05054	OW06016	OW06848
OW03163	OW04177	OW05058	OW06017	OW06876
OW03164	OW04188	OW05064	OW06045	OW06893
OW03166	OW04213	OW05153	OW06051	OW06955
				OW06988

OW06991	OW07933	OW09350	OW10307	OW11432
OW07007	OW07940	OW09364	OW10321	OW11496
OW07024	OW08133	OW09380	OW10358	OW11503
OW07025	OW08178	OW09439	OW10370	OW11530
OW07054	OW08194	OW09451	OW10414	OW11687
OW07062	OW08239	OW09481	OW10420	OW11695
OW07063	OW08285	OW09560	OW10458	OW11748
OW07099	OW08311	OW09566	OW10492	OW11794
OW07109	OW08329	OW09576	OW10494	OW11820
OW07116	OW08399	OW09595	OW10510	OW11821
OW07122	OW08426	OW09597	OW10590	OW11842
OW07137	OW08431	OW09613	OW10603	OW11846
OW07203	OW08450	OW09616	OW10612	OW12141
OW07217	OW08520	OW09647	OW10622	OW12222
OW07218	OW08549	OW09662	OW10684	OW12305
OW07221	OW08595	OW09665	OW10685	OW12307
OW07224	OW08626	OW09681	OW10731	OW12327
OW07225	OW08652	OW09682	OW10775	OW12369
OW07229	OW08670	OW09707	OW10818	OW12474
OW07273	OW08673	OW09779	OW10830	OW12663
OW07310	OW08701	OW09796	OW10865	OW12672
OW07339	OW08706	OW09800	OW10899	OW12831
OW07341	OW08714	OW09817	OW10913	OW12859
OW07352	OW08790	OW09855	OW11033	OW12900
OW07354	OW08852	OW09911	OW11052	OW12915
OW07361	OW08867	OW09917	OW11053	OW12993
OW07395	OW08915	OW09923	OW11062	OW13009
OW07432	OW08927	OW09924	OW11088	OW13169
OW07435	OW08969	OW09925	OW11100	OW13240
OW07450	OW08973	OW09926	OW11101	OW13409
OW07539	OW08974	OW09927	OW11104	OW13416
OW07563	OW08994	OW09991	OW11127	OW13432
OW07594	OW09016	OW10013	OW11185	OW13436
OW07638	OW09043	OW10028	OW11225	OW13557
OW07665	OW09070	OW10040	OW11239	OW13561
OW07690	OW09084	OW10041	OW11242	OW13647
OW07694	OW09095	OW10115	OW11253	OW13713
OW07704	OW09117	OW10150	OW11335	OW13715
OW07767	OW09121	OW10162	OW11368	OW13747
OW07827	OW09129	OW10168	OW11369	OW13757
OW07829	OW09159	OW10201	OW11379	OW13764
OW07848	OW09242	OW10212	OW11397	OW13801
OW07881	OW09243	OW10219	OW11407	OW13868
OW07886	OW09257	OW10230	OW11408	OW13907
OW07930	OW09347	OW10261	OW11415	OW13912
				OW13971

OW13999	OW14768	OW16351	OW17394	OW18609
OW14000	OW14818	OW16379	OW17414	OW18612
OW14001	OW14842	OW16393	OW17415	OW18627
OW14023	OW14859	OW16461	OW17457	OW18633
OW14040	OW14879	OW16467	OW17485	OW18658
OW14117	OW14884	OW16472	OW17544	OW18690
OW14123	OW14918	OW16489	OW17566	OW18701
OW14136	OW14919	OW16542	OW17592	OW18722
OW14178	OW14921	OW16544	OW17593	OW18726
OW14181	OW14957	OW16554	OW17598	OW18741
OW14183	OW14967	OW16597	OW17601	OW18761
OW14200	OW14996	OW16599	OW17644	OW18777
OW14214	OW15024	OW16671	OW17664	OW18780
OW14228	OW15063	OW16677	OW17693	OW18807
OW14236	OW15074	OW16688	OW17725	OW18808
OW14238	OW15101	OW16689	OW17735	OW18810
OW14243	OW15106	OW16751	OW17801	OW18838
OW14284	OW15184	OW16815	OW17813	OW18868
OW14327	OW15200	OW16816	OW17837	OW18873
OW14329	OW15217	OW16817	OW17959	OW18889
OW14334	OW15254	OW16822	OW17983	OW18899
OW14335	OW15285	OW16835	OW17985	OW18901
OW14338	OW15363	OW16859	OW18000	OW18902
OW14340	OW15482	OW16861	OW18008	OW18909
OW14349	OW15483	OW16945	OW18023	OW18950
OW14360	OW15485	OW16958	OW18042	OW18953
OW14383	OW15522	OW16959	OW18049	OW18959
OW14414	OW15524	OW16988	OW18141	OW19017
OW14424	OW15535	OW16993	OW18147	OW19039
OW14438	OW15575	OW17008	OW18151	OW19067
OW14537	OW15610	OW17009	OW18153	OW19070
OW14571	OW15671	OW17053	OW18203	OW19078
OW14614	OW15672	OW17062	OW18206	OW19084
OW14628	OW15677	OW17174	OW18238	OW19085
OW14629	OW15682	OW17175	OW18240	OW19173
OW14646	OW15683	OW17185	OW18244	OW19175
OW14664	OW15742	OW17186	OW18245	OW19203
OW14665	OW15792	OW17205	OW18251	OW19227
OW14666	OW15917	OW17224	OW18262	OW19243
OW14667	OW16005	OW17250	OW18279	OW19282
OW14693	OW16031	OW17268	OW18281	OW19317
OW14694	OW16216	OW17283	OW18340	OW19347
OW14706	OW16239	OW17347	OW18378	OW19361
OW14710	OW16300	OW17353	OW18382	OW19383
OW14740	OW16334	OW17393	OW18521	OW19418
				OW19438

OW19443	OW20379	OW21441	OW22726	OW24049
OW19480	OW20380	OW21456	OW22727	OW24053
OW19504	OW20396	OW21526	OW22747	OW24054
OW19532	OW20402	OW21564	OW22761	OW24085
OW19535	OW20408	OW21597	OW22762	OW24098
OW19549	OW20419	OW21663	OW22763	OW24117
OW19575	OW20448	OW21665	OW22765	OW24129
OW19585	OW20493	OW21671	OW22777	OW24130
OW19587	OW20547	OW21708	OW22792	OW24161
OW19588	OW20558	OW21727	OW22847	OW24166
OW19593	OW20563	OW21762	OW22866	OW24209
OW19611	OW20588	OW21821	OW22918	OW24210
OW19627	OW20595	OW21854	OW22953	OW24323
OW19634	OW20599	OW21873	OW23003	OW24344
OW19666	OW20618	OW21890	OW23023	OW24351
OW19696	OW20619	OW21895	OW23066	OW24356
OW19699	OW20621	OW21901	OW23067	OW24414
OW19738	OW20648	OW21912	OW23098	OW24451
OW19762	OW20649	OW21922	OW23101	OW24457
OW19786	OW20652	OW21925	OW23103	OW24520
OW19788	OW20712	OW21961	OW23155	OW24536
OW19792	OW20769	OW21984	OW23197	OW24544
OW19835	OW20791	OW22034	OW23213	OW24553
OW19856	OW20808	OW22043	OW23215	OW24555
OW19895	OW20878	OW22070	OW23263	OW24556
OW19906	OW20880	OW22071	OW23277	OW24557
OW19914	OW20908	OW22104	OW23291	OW24558
OW19952	OW20963	OW22186	OW23379	OW24559
OW19975	OW21060	OW22196	OW23422	OW24628
OW20071	OW21077	OW22227	OW23482	OW24667
OW20088	OW21096	OW22242	OW23540	OW24714
OW20113	OW21181	OW22271	OW23587	OW24782
OW20122	OW21222	OW22280	OW23591	OW24783
OW20123	OW21271	OW22306	OW23630	OW24807
OW20148	OW21309	OW22308	OW23650	OW24809
OW20171	OW21318	OW22317	OW23661	OW24810
OW20188	OW21329	OW22361	OW23683	OW24853
OW20189	OW21331	OW22377	OW23739	OW24926
OW20281	OW21355	OW22396	OW23790	OW25007
OW20300	OW21358	OW22414	OW23806	OW25015
OW20325	OW21375	OW22574	OW23847	OW25021
OW20335	OW21380	OW22632	OW23869	OW25042
OW20343	OW21396	OW22651	OW23954	OW25072
OW20348	OW21416	OW22654	OW23986	OW25087
OW20351	OW21433	OW22715	OW24010	OW25319
				OW25367

OW25444	OW26420	OW28006	OW29168	OW30296
OW25504	OW26442	OW28018	OW29197	OW30297
OW25519	OW26447	OW28040	OW29230	OW30302
OW25591	OW26642	OW28128	OW29270	OW30331
OW25597	OW26743	OW28162	OW29316	OW30364
OW25607	OW26754	OW28186	OW29365	OW30374
OW25629	OW26789	OW28198	OW29393	OW30395
OW25630	OW26797	OW28222	OW29454	OW30429
OW25631	OW26798	OW28250	OW29459	OW30431
OW25639	OW26801	OW28273	OW29481	OW30438
OW25641	OW26803	OW28298	OW29489	OW30446
OW25680	OW26838	OW28359	OW29506	OW30448
OW25709	OW26868	OW28360	OW29571	OW30460
OW25760	OW26882	OW28362	OW29579	OW30462
OW25832	OW26932	OW28402	OW29621	OW30500
OW25852	OW26996	OW28435	OW29637	OW30509
OW25923	OW27075	OW28453	OW29679	OW30526
OW25927	OW27102	OW28466	OW29729	OW30533
OW25936	OW27158	OW28487	OW29754	OW30538
OW25942	OW27159	OW28492	OW29755	OW30539
OW25944	OW27222	OW28499	OW29780	OW30542
OW25968	OW27228	OW28508	OW29801	OW30547
OW26026	OW27288	OW28530	OW29802	OW30577
OW26055	OW27305	OW28565	OW29803	OW30817
OW26056	OW27381	OW28566	OW29804	OW30829
OW26081	OW27507	OW28575	OW29809	OW30848
OW26083	OW27509	OW28577	OW29828	OW30857
OW26088	OW27541	OW28607	OW29851	OW30911
OW26117	OW27542	OW28652	OW29894	OW30917
OW26158	OW27555	OW28744	OW29898	OW30944
OW26165	OW27556	OW28745	OW29907	OW30946
OW26168	OW27634	OW28747	OW29943	OW30982
OW26189	OW27695	OW28757	OW29958	OW30985
OW26197	OW27755	OW28758	OW30085	OW31005
OW26268	OW27762	OW28771	OW30107	OW31006
OW26272	OW27810	OW28777	OW30165	OW31019
OW26276	OW27853	OW28843	OW30185	OW31023
OW26282	OW27903	OW28856	OW30186	OW31070
OW26294	OW27929	OW28958	OW30187	OW31073
OW26310	OW27943	OW28990	OW30223	OW31092
OW26321	OW27944	OW29020	OW30231	OW31118
OW26332	OW27992	OW29086	OW30262	OW31141
OW26364	OW27996	OW29094	OW30270	OW31164
OW26388	OW28000	OW29100	OW30279	OW31165
OW26409	OW28005	OW29120	OW30286	OW31172
				OW31182

OW31196	OW32584	OW33728	OW34743	OW35634
OW31219	OW32602	OW33732	OW34758	OW35635
OW31302	OW32794	OW33804	OW34783	OW35636
OW31304	OW32818	OW33835	OW34793	OW35639
OW31386	OW32837	OW33836	OW34801	OW35661
OW31414	OW32842	OW33869	OW34831	OW35682
OW31468	OW32843	OW33870	OW34833	OW35718
OW31504	OW32855	OW33908	OW34834	OW35723
OW31505	OW32918	OW33953	OW34835	OW35747
OW31530	OW32945	OW33961	OW34906	OW35806
OW31555	OW32956	OW33978	OW34975	OW35823
OW31574	OW32957	OW34022	OW34997	OW35859
OW31587	OW32965	OW34084	OW35047	OW35861
OW31603	OW32974	OW34138	OW35082	OW35863
OW31604	OW32979	OW34139	OW35125	OW35875
OW31736	OW32986	OW34143	OW35176	OW35891
OW31740	OW32997	OW34153	OW35223	OW35892
OW31741	OW33013	OW34172	OW35249	OW35898
OW31747	OW33016	OW34188	OW35255	OW35925
OW31763	OW33081	OW34272	OW35262	OW35942
OW31769	OW33100	OW34283	OW35263	OW35966
OW31801	OW33139	OW34296	OW35267	OW36036
OW31826	OW33140	OW34374	OW35268	OW36039
OW31866	OW33163	OW34375	OW35278	OW36040
OW31997	OW33178	OW34396	OW35279	OW36044
OW32034	OW33201	OW34444	OW35280	OW36118
OW32096	OW33208	OW34490	OW35281	OW36122
OW32153	OW33219	OW34496	OW35290	OW36132
OW32167	OW33222	OW34504	OW35306	OW36184
OW32185	OW33231	OW34516	OW35344	OW36192
OW32186	OW33318	OW34521	OW35349	OW36193
OW32282	OW33319	OW34530	OW35376	OW36194
OW32284	OW33320	OW34539	OW35387	OW36195
OW32370	OW33323	OW34540	OW35393	OW36221
OW32428	OW33331	OW34543	OW35396	OW36249
OW32444	OW33438	OW34548	OW35432	OW36252
OW32483	OW33498	OW34552	OW35451	OW36255
OW32501	OW33503	OW34553	OW35519	OW36291
OW32502	OW33513	OW34561	OW35547	OW36292
OW32507	OW33563	OW34563	OW35552	OW36336
OW32552	OW33650	OW34624	OW35556	OW36370
OW32561	OW33666	OW34638	OW35559	OW36388
OW32562	OW33667	OW34656	OW35572	OW36396
OW32569	OW33683	OW34723	OW35609	OW36400
OW32575	OW33705	OW34739	OW35623	OW36451
				OW36457

OW36499	OW37278	OW38081	OW38879	OW40242
OW36511	OW37287	OW38085	OW38891	OW40254
OW36538	OW37329	OW38112	OW38897	OW40281
OW36560	OW37342	OW38121	OW38915	OW40309
OW36572	OW37354	OW38145	OW38952	OW40310
OW36578	OW37441	OW38153	OW38953	OW40346
OW36593	OW37465	OW38175	OW38956	OW40363
OW36606	OW37485	OW38186	OW38958	OW40463
OW36610	OW37486	OW38207	OW38981	OW40513
OW36639	OW37493	OW38228	OW39018	OW40533
OW36661	OW37502	OW38231	OW39045	OW40607
OW36680	OW37512	OW38256	OW39074	OW40675
OW36681	OW37539	OW38281	OW39095	OW40676
OW36711	OW37556	OW38285	OW39133	OW40697
OW36712	OW37568	OW38289	OW39140	OW40795
OW36737	OW37573	OW38309	OW39158	OW40881
OW36743	OW37575	OW38312	OW39161	OY15077
OW36754	OW37584	OW38313	OW39173	OY19487
OW36791	OW37605	OW38314	OW39180	OY20039
OW36794	OW37617	OW38323	OW39197	OY20406
OW36856	OW37649	OW38368	OW39202	OY20532
OW36877	OW37658	OW38389	OW39212	OY21339
OW36915	OW37682	OW38454	OW39271	OY21428
OW36916	OW37697	OW38455	OW39284	OY21453
OW36917	OW37706	OW38467	OW39314	OY21758
OW36944	OW37707	OW38472	OW39322	OY21781
OW36964	OW37714	OW38476	OW39361	OY21830
OW36966	OW37715	OW38506	OW39424	OY22096
OW36994	OW37729	OW38523	OW39490	OY22144
OW37017	OW37761	OW38555	OW39588	OY22276
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OY23129	OY23938	OY24820	OY26004	OY26687
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OY23691	OY24358	OY25372	OY26341	OY27384
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Reader's Comments

Program Directory for Tivoli NetView for OS/390 Version 1 Release 3 Modification Level 00

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RATING SCALE					
very satisfied	<----->	very dissatisfied	not applicable		
1	2 3 4	5	N		

	Satisfaction					
Ease of product installation	1	2	3	4	5	N
Contents of program directory	1	2	3	4	5	N
Installation Verification Programs	1	2	3	4	5	N
Time to install the product	1	2	3	4	5	N
Readability and organization of program directory tasks	1	2	3	4	5	N
Necessity of all installation tasks	1	2	3	4	5	N
Accuracy of the definition of the installation tasks	1	2	3	4	5	N
Technical level of the installation tasks	1	2	3	4	5	N
Ease of getting the system into production after installation	1	2	3	4	5	N

How did you order this product?

- CBIPO
- CBPDO
- CustomPac
- ServerPac
- Independent
- Other

Is this the first time your organization has installed this product?

- Yes
- No

Were the people who did the installation experienced with the installation of MVS products?

___ Yes
___ No

If yes, how many years? ___

If you have any comments to make about your ratings above, or any other aspect of the product installation, please list them below:

Please provide the following contact information:

Name and Job Title

Organization

Address

Telephone

Thank you for your participation.

Please send the completed form to (or give to your IBM representative who will forward it to the Tivoli NetView for OS/390 Development group):

IBM Corporation
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Research Triangle Park, NC 27709
ATTENTION: E15/B500



Program Number: 5697-B82 5841/5842
5821/5822
5801/5802

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