



**Program Directory for
Tivoli NetView for z/OS
Japanese**

Version 5 Release 1, Modification Level 00

Program Number 5697-ENV

FMID HENV510

for Use with
z/OS

Document Date: August 2002

G110-3210-00

Note!

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

A form for reader's comments appears at the back of this publication. When you send information to Tivoli, you grant Tivoli a nonexclusive right to use or distribute the information in any way it believes appropriate without incurring any obligation to you.

© **Copyright International Business Machines Corporation 1986, 2002. All rights reserved.**

Note to U.S. Government Users — Documentation related to restricted rights — Use, duplication or disclosure is subject to restrictions set forth in GSA ADP Schedule Contract with IBM Corp.

Contents

Notices	vii
Trademarks	viii
1.0 Introduction	1
1.1 Tivoli NetView for z/OS Version 5 Release 1 Description	2
1.2 Tivoli NetView for z/OS Version 5 Release 1 FMIDs	3
2.0 Program Materials	4
2.1 Basic Machine-Readable Material	4
2.2 Optional Machine-Readable Material	6
2.3 Program Publications	6
2.3.1 Basic Program Publications	6
2.3.2 PDF format only Program Publications	7
2.3.3 Optional Program Publications	8
2.4 Program Source Materials	8
2.5 Publications Useful During Installation	8
3.0 Program Support	10
3.1 Program Services	10
3.2 Preventive Service Planning	10
3.3 Statement of Support Procedures	10
4.0 Program and Service Level Information	12
4.1 Program Level Information	12
4.2 Service Level Information	12
5.0 Installation Requirements and Considerations	13
5.1 Driving System Requirements	13
5.1.1 Machine Requirements	13
5.1.2 Programming Requirements	13
5.2 Target System Requirements	14
5.2.1 Machine Requirements	14
5.2.2 Programming Requirements	14
5.2.2.1 Mandatory Requisites	14
5.2.2.2 Functional Requisites	14
5.2.2.3 Toleration/Coexistence Requisites	16
5.2.2.4 Incompatibility (Negative) Requisites	16
5.2.3 DASD Storage Requirements	16
5.2.3.1 Target Libraries for Tivoli NetView for z/OS Version 5 Release 1	19
5.2.3.2 HFS Paths for Tivoli NetView for z/OS Version 5 Release 1 Graphical Enterprise Option	20
5.2.3.3 Distribution Libraries for Tivoli NetView for z/OS Version 5 Release 1	20
5.3 FMIDs Deleted	21

5.4	Special Considerations	22
5.4.1	Tivoli NetView Management Console, NetView 3270 Management Console	22
5.4.2	Considerations for NMC Server Audit Log	24
5.4.3	Considerations for NetView Web Application	24
5.4.4	Considerations for DYNAMIC VIPA and Sysplex Distribution Support	26
5.4.5	Considerations for TCP/IP Resource Discovery and Management on Linux zSeries	26
5.4.6	Considerations for Launching Tivoli Business System Manager (TBSM) from NMC or NMC from TBSM	26
5.4.7	Considerations for SNMP MIB Browser, Real-time Poller	26
5.4.8	Considerations for Event Automation Service to and from the Tivoli Enterprise Console (TEC)	26
5.4.9	Considerations for issuing Commands from Tivoli Management Environment to OS/390 or z/OS	27
5.4.10	Considerations for Issuing OS/390 or z/OS UNIX System Services Commands from Tivoli NetView for z/OS Version 5 Release 1	27
5.4.11	Considerations for Using the UNIX Command Server	27
5.4.12	Considerations for OS/390 TCP/IP Stack Management and Telnet 3270 Management	27
5.4.13	Considerations for Beeper/Pager Support	27
5.4.14	SNA Topology Manager	27
5.4.15	NetView Bridge -- Support for INFO Access	27
5.4.16	Support for IBM LAN Network Manager Enhanced Command Interface	27
5.4.17	Management of Frame Relay (DTE) and Ethernet	27
5.4.18	NetView Parallel Transmission Group Support	28
5.4.19	NetView Network Asset Management	28
5.4.20	NetView Performance Monitor (NPM) Alerts	28
5.4.21	Considerations for SAF Security Checking	28
5.4.22	Considerations for using Router Fault Isolation	28
5.4.23	Considerations for Tivoli NetView for z/OS Version 5 Release 1 Automated Operations Network Component	28
5.4.24	Special Considerations for Tivoli NetView for z/OS Version 5 Release 1 MultiSystem Manager Component	29
5.4.24.1	System Considerations for the MultiSystem Manager LAN Network Manager Feature	30
5.4.24.2	System Considerations for the MultiSystem Manager NetFinity Network Feature	30
5.4.24.3	System Considerations for the MultiSystem Manager TMR Feature	31
5.4.24.4	Considerations for Sending Commands from Tivoli NetView for z/OS Version 5 Release 1 to TEC	31
5.4.24.5	System Considerations for the MultiSystem Manager IP Network Feature	31
5.4.24.6	System Considerations for using the REXX Alternate Library	32
6.0	Installation Instructions	34
6.1	Installing Tivoli NetView for z/OS Version 5 Release 1	35
6.1.1	SMP/E Considerations for Installing Tivoli NetView for z/OS Version 5 Release 1	36
6.1.2	SMP/E Environment	36
6.1.3	SMP/E Options Subentry Values	36
6.1.4	SMP/E CALLLIBS Processing	36
6.1.5	Sample Jobs	37
6.1.6	Establish the Correct SMP/E Environment for Tivoli NetView for z/OS Version 5 Release 1	38

6.1.6.1 SMP/E Data Sets for Tivoli NetView for z/OS Version 5 Release 1	38
6.1.6.2 SMP/E CSI for Tivoli NetView for z/OS Version 5 Release 1	39
6.1.6.3 OS/390 Release 10 SMP/E or later access to Tivoli NetView for z/OS Version 5 Release 1 Data Sets	39
6.1.7 Perform SMP/E RECEIVE	40
6.1.8 Allocate SMP/E Target and Distribution Libraries and Paths	40
6.1.8.1 Allocate SMP/E Target and Distribution Libraries	40
6.1.8.2 Tivoli NetView for z/OS Version 5 Release 1 host components	41
6.1.9 Create Hierarchical File System Mount Point Directory	41
6.1.10 Mount The Target Hierarchical File System Dataset	42
6.1.11 Create Hierarchical File System Directories	42
6.1.12 Create DDDEF Entries	42
6.1.13 Perform SMP/E APPLY	43
6.1.13.1 APPLYing Tivoli NetView for z/OS Version 5 Release 1 on a System Having NCCF or	44
6.1.13.1.1 Deleting a Previous Release of NCCF or NetView	44
6.1.13.1.2 Running with a Previous Release of NCCF or NetView	45
6.1.13.2 Running and Verifying the APPLY of Tivoli NetView for z/OS Version 5 Release 1	47
6.1.14 Perform SMP/E ACCEPT	48
6.1.14.1 ACCEPTing Tivoli NetView for z/OS Version 5 Release 1 on a System Having NCCF or	49
6.1.14.1.1 Deleting a Previous Release of NCCF or NetView	49
6.1.14.1.2 Running with a Previous Release of NCCF or NetView	50
6.1.15 Installing the PTFs for CUM Maintenance	50
6.1.15.1 Publications Useful During Installation	50
6.1.16 Cleaning Up Obsolete Data Sets, Paths, and DDDEFs	51
6.2 Activating Tivoli NetView for z/OS Version 5 Release 1	53
Appendix A. Program Level Information	54
Contacting Customer Support	55

Figures

1. Basic Material: Program Tape	4
2. Program File Content Base tape	5
3. Program File Content Base tape 2	5
4. Basic Material: Unlicensed Publications	6
5. Basic Material: Licensed Publications	7
6. Basic Material: Unlicensed Publications	7
7. Publications Useful During Installation	8
8. PSP Upgrade and Subset ID	10
9. Component IDs	11
10. Driving System Software Requirements	13

11.	Mandatory Requisites	14
12.	Functional Requisites	14
13.	Total DASD Space Required by Tivoli NetView for z/OS Version 5 Release 1	16
14.	Storage Requirements for SMPCSI Data Sets for SMP/E for Tivoli NetView for z/OS Version 5 Release 1	18
15.	Storage Requirements for SMP/E Work Data Sets	18
16.	Storage Requirements for SMP/E Data Sets	19
17.	Storage Requirements for Tivoli NetView for z/OS Version 5 Release 1 Target Libraries	19
18.	Tivoli NetView for z/OS Version 5 Release 1 HFS Paths	20
19.	Storage Requirements for Tivoli NetView for z/OS Version 5 Release 1 Distribution Libraries	21
20.	README file names and installation methods for Tivoli NetView for z/OS Version 5 Release 1 Components.	22
21.	README file names and installation methods for Tivoli NetView for z/OS Version 5 Release 1 MultiSystem Manager features.	29
22.	SMP/E Options Subentry Values	36
23.	Sample Installation Jobs	37
24.	NetView FMIDs to delete by Version/Release	45
25.	Additional delete logic	46
26.	Warning and Informational Messages Received during APPLY	48
27.	Publications Useful During Installation	50

Notices

References in this document to Tivoli or IBM products, programs, or services do not imply that Tivoli or IBM intend to make these available in all countries in which Tivoli and IBM operate. Any reference to an Tivoli or IBM product, program, or service is not intended to state or imply that only Tivoli's or IBM's product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe on any of Tivoli's or IBM's intellectual property rights may be used instead of the Tivoli or IBM product, program, or service. Evaluation and verification of operation in conjunction with other products, except those expressly designated by Tivoli or IBM, is the user's responsibility.

APAR numbers are provided in this document to assist in locating PTFs that may be required. Ongoing problem reporting may result in additional APARs being created. Therefore, the APAR lists in this document may not be complete. To obtain current service recommendations and to identify current product service requirements, always contact the Tivoli or IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

Tivoli or IBM may have patents or pending patent applications covering subject matter in this document. The furnishing of this document does not give you any license to these patents. You can send license inquiries, in writing, to the

IBM Director of Licensing
IBM Corporation
North Castle Drive
Armonk, New York 10504-1785
USA

For online versions of this book, we authorize you to:

- Copy, modify, and print the documentation contained on the media, for use within your enterprise, provided you reproduce the copyright notice, all warning statements, and other required statements on each copy or partial copy.
- Transfer the original unaltered copy of the documentation when you transfer the related Tivoli or IBM product (which may be either machines you own, or programs, if the program's license terms permit a transfer). You must, at the same time, destroy all other copies of the documentation.

You are responsible for payment of any taxes, including personal property taxes, resulting from this authorization.

THERE ARE NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

Some jurisdictions do not allow the exclusion of implied warranties, so the above exclusion may not apply to you.

Your failure to comply with the terms above terminates this authorization. Upon termination, you must destroy your machine readable documentation.

Trademarks

The following terms are trademarks of the IBM Corporation in the United States or other countries or both:

ACF/VTAM	SystemPac
APPN	Parallel Sysplex
IBM	VTAM
Tivoli	SAA
NetView	Language Environment
Operating System/2	OS/390 UNIX System Services
OS/2	AIX
OS/390	Netfinity
MVS	RISC System/6000
MVS/370	RISC/6000
MVS/XA	RS/6000
MVS/ESA	POWERserver
CBPDO	Tivoli Management Environment
RACF	Global Enterprise Manager
System/370	LPDA
System/390	DB2
ServicePac	

Tivoli Management Framework
Tivoli Management Region

Tivoli Enterprise Console
Tivoli Global Enterprise Manager

The following terms, denoted by an asterisk (*), used in this document, are trademarks of other companies as follows:

- Microsoft Corporation
Microsoft
Windows
Windows NT
Windows 95
Windows 98
Windows 2000
- Intel Corporation
Pentium
- Novell, Inc.
Novell
NetWare

- SUN Microsystems, Inc.
JAVA
Sun Solaris
Sparc
- Hewlett Packard Company
HP-UX
- X/Open Company Limited
UNIX
- CISCO Systems, Inc.
CISCO

Other company, product, and service names mentioned in this document may be trademarks or servicemarks of others.

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 z/OS. This publication refers to Tivoli NetView for z/OS as Tivoli NetView for z/OS Version 5 Release 1. 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 4 identifies the basic and optional program materials and documentation for Tivoli NetView for z/OS Version 5 Release 1.
- 3.0, "Program Support" on page 10 describes the Tivoli support available for Tivoli NetView for z/OS Version 5 Release 1.
- 4.0, "Program and Service Level Information" on page 12 lists the APARs (program level) and PTFs (service level) incorporated into Tivoli NetView for z/OS Version 5 Release 1.
- 5.0, "Installation Requirements and Considerations" on page 13 identifies the resources and considerations for installing and using Tivoli NetView for z/OS Version 5 Release 1.
- 6.0, "Installation Instructions" on page 34 provides detailed installation instructions for Tivoli NetView for z/OS Version 5 Release 1. It also describes the procedures for activating the functions of Tivoli NetView for z/OS Version 5 Release 1, or refers to appropriate publications.
- Appendix A, "Program Level Information" on page 54 provides program level information for Tivoli NetView for z/OS Version 5 Release 1.

Before installing Tivoli NetView for z/OS Version 5 Release 1, read 3.2, "Preventive Service Planning" on page 10. 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 z/OS Version 5 Release 1 with a 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.

If you are installing Tivoli NetView for z/OS Version 5 Release 1 using the Custom-Built Product Delivery Offering (CBPDO, 5751-CS3), a softcopy program directory is provided on the CBPDO tape which is identical to the printed copy shipped with your order. Your CBPDO contains a softcopy preventive service planning (PSP) upgrade for this product. All service and HOLDDATA for Tivoli NetView for z/OS Version 5 Release 1 are included on the CBPDO tape.

1.1 Tivoli NetView for z/OS Version 5 Release 1 Description

Building on the already rich functionality of Tivoli NetView for OS/390 Version 1 Release 4, Version 5 Release 1 provides these additional enhancements.

- TCP/IP Management
 - IP Resource Discovery and Management on Linux on zSeries
 - Support for Dynamic Virtual IP Addressing (DVIPA)
 - TCP/IP Connection Monitoring and Thresholding
- Enhanced Web Console
 - Redesigned Web interface
 - SNMP services from the Web Console
 - TCP/IP Stack Management
- Time to Value
 - Simpler customization through enhancements to the NetView Style Sheet
 - Streamlined Packaging
- NetView Management Console (NMC)
 - NMC Topology Server now supports Linux on zSeries
 - NMC Topology Console now supports Linux on Intel platforms
- Enhanced Security
 - SAF surrogate authority for TSO commands
 - Automatic logging of suppressed operator commands
 - Command Authorization Checking in context
 - Additional NMC Security

1.2 Tivoli NetView for z/OS Version 5 Release 1 FMIDs

Tivoli NetView for z/OS Version 5 Release 1 consists of the following FMIDs:

HENV510
JENV512
JENV513
JENV515

2.0 Program Materials

A Tivoli program is identified by a program number and a feature number. The program number for Tivoli NetView for z/OS Version 5 Release 1 is 5697-ENV.

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 z/OS Version 5 Release 1. Ask your Tivoli 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 magnetic tape or downloadable files. It is installed using SMP/E, and is in SMP/E RELFILE format. See 6.0, "Installation Instructions" on page 34 for more information about how to install the program.

Figure 1 describes the physical tapes. Figure 2 on page 5 and Figure 3 on page 5 describe the file content.

Notes:

1. The data set attributes in these tables should be used in the JCL of jobs reading the data sets, but since the data sets are in IEBCOPY unloaded format, their actual attributes may be different.
2. If you are installing Tivoli NetView for z/OS Version 5 Release 1 using the Custom-Built Product Delivery Offering (CBPDO) (5751-CS3), some of the information in these figures may not be valid. Consult the CBPDO documentation for actual values.
3. If any RELFILES are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

<i>Figure 1 (Page 1 of 2). Basic Material: Program Tape</i>					
Medium	Feature Number	Physical Volume	External Label	R/M *	VOLSER
3480 cart	5822	1	U 1/2 VOLSER=ENV510	N	JNV510
3480 cart	5822	2	U 2/2 VOLSER=ENV510	N	JNV513
4mm cart	5722	1	U 1/2 VOLSER=ENV510	N	JNV510
4mm cart	5722	2	U 2/2 VOLSER=ENV510	N	JNV513

<i>Figure 1 (Page 2 of 2). Basic Material: Program Tape</i>					
Medium	Feature Number	Physical Volume	External Label	R/M *	VOLSER
CDROM			LCD4-4929 Tivoli NetView for z/OS	N	
CDROM			LK2T-6175 Tivoli NetView for z/OS Online Library	N	
CDROM			LCD4-4928 Integrated TCP/IP Services	N	

* R/M = Restricted Materials of IBM

<i>Figure 2. Program File Content Base tape</i>				
Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	8800
HENV510.F1	SEQ	FB	80	8800
HENV510.F2	SEQ	FB	80	6144
HENV510.F3	SEQ	FB	80	8800
HENV510.F4	SEQ	FB	80	3125
HENV510.F5	SEQ	FB	80	23648
JENV512.F1	SEQ	FB	80	8800
JENV512.F2	SEQ	FB	80	8800

<i>Figure 3 (Page 1 of 2). Program File Content Base tape 2</i>				
Name	O R G	R E C F M	L R E C L	BLK SIZE
SMPMCS	SEQ	FB	80	8800
JENV513.F1	SEQ	FB	80	8800

Figure 3 (Page 2 of 2). Program File Content Base tape 2

Name	O R G	R E C F M	L R E C L	BLK SIZE
JENV513.F2	SEQ	FB	80	6144
JENV513.F3	SEQ	FB	80	8800
JENV513.F4	SEQ	FB	80	23648
JENV515.F1	SEQ	FB	80	8800
JENV515.F2	SEQ	FB	80	3125
JENV515.F3	SEQ	FB	80	8800
JENV515.F4	SEQ	FB	80	6144
JENV515.F5	SEQ	FB	80	8256

2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for Tivoli NetView for z/OS Version 5 Release 1.

2.3 Program Publications

The following sections identify the basic and optional publications for Tivoli NetView for z/OS Version 5 Release 1.

2.3.1 Basic Program Publications

Figure 4 identifies the basic unlicensed program publications for Tivoli NetView for z/OS Version 5 Release 1. One copy of each of these publications is included when you order the basic materials for Tivoli NetView for z/OS Version 5 Release 1. For additional copies, contact your IBM and/or Tivoli representative.

Figure 4 (Page 1 of 2). Basic Material: Unlicensed Publications

Publication Title	Form Number
<i>Tivoli NetView for OS/390 Licensed Program Specifications</i>	GC31-8848
<i>Tivoli NetView for OS/390 Installation: Getting Started</i>	SC31-8872
<i>Tivoli NetView for OS/390 Installations: Migration Guide</i>	SC31-8873

<i>Figure 4 (Page 2 of 2). Basic Material: Unlicensed Publications</i>	
Publication Title	Form Number
<i>Tivoli NetView for OS/390 Tuning Guide</i> ⁽¹⁾	SC31-8869
(1) When available	

Figure 5 identifies the basic licensed program publications for Tivoli NetView for z/OS Version 5 Release 1. The first copy is available at no charge to licensees of the basic material by ordering the 7xxx Feature Number. Order additional copies using the 8xxx Feature Number. A fee is charged for additional copies.

<i>Figure 5. Basic Material: Licensed Publications</i>		
Publication Title	Form Number	Feature Number
<i>Tivoli NetView for OS/390 Diagnosis Guide</i>	LY43-0093	

2.3.2 PDF format only Program Publications

Figure 6 identifies the basic unlicensed program publications for Tivoli NetView for z/OS Version 5 Release 1 that will only be delivered in softcopy PDF format. You may print as many copies of these publications as you need.

<i>Figure 6 (Page 1 of 2). Basic Material: Unlicensed Publications</i>	
Publication Title	Form Number
<i>Tivoli NetView for OS/390 Administration Reference</i>	SC31-8854
<i>Tivoli NetView for OS/390 Security Reference</i>	SC31-8870
<i>Tivoli NetView for OS/390 Installation: Configuring Graphical Components</i>	SC31-8875
<i>Tivoli NetView for OS/390 Installation: Configuring Additional Components</i>	SC31-8874
<i>Tivoli NetView for OS/390 User's Guide</i>	GC31-8849
<i>Tivoli NetView for OS/390 Application Programmer's Guide</i>	SC31-8855
<i>Tivoli NetView for OS/390 Automation Guide</i>	SC31-8853
<i>Tivoli NetView for OS/390 Command Reference Volume I</i>	SC31-8857
<i>Tivoli NetView for OS/390 Command Reference Volume II</i>	SC31-8858
<i>Tivoli NetView for OS/390 Messages and Codes</i>	SC31-8866
<i>Tivoli NetView for OS/390 Customization Guide</i>	SC31-8859
<i>Tivoli NetView for OS/390 Customization: Using Assembler</i>	SC31-8860
<i>Tivoli NetView for OS/390 Customization: Using PL/I and C</i>	SC31-8861

Figure 6 (Page 2 of 2). Basic Material: Unlicensed Publications

Publication Title	Form Number
<i>Tivoli NetView for OS/390 Customization: Using REXX and the NetView Command List Language</i>	SC31-8862
<i>Tivoli NetView for OS/390 Data Model Reference</i>	SC31-8864
<i>Tivoli NetView for OS/390 RODM & GMFHS Programmer's Guide</i>	SC31-8865
<i>Tivoli NetView for OS/390 Customization: Using Pipes</i>	SC31-8863
<i>Tivoli NetView for OS/390 Automated Operations Network User's Guide</i>	GC31-8851
<i>Tivoli NetView for OS/390 Automated Operations Network Customization Guide</i>	SC31-8871
<i>Tivoli NetView for OS/390 SNA Topology Manager and APPN Accounting Manager Implementation Guide</i>	SC31-8868
<i>Tivoli NetView for OS/390 NetView Management Console User's Guide</i>	GC31-8852
<i>Tivoli NetView for OS/390 MultiSystem Manager User's Guide</i>	GC31-8850

2.3.3 Optional Program Publications

No optional publications are provided for Tivoli NetView for z/OS Version 5 Release 1.

2.4 Program Source Materials

No program source materials or viewable program listings are provided for Tivoli NetView for z/OS Version 5 Release 1.

2.5 Publications Useful During Installation

The publications listed in Figure 7 may be useful during the installation of Tivoli NetView for z/OS Version 5 Release 1. To order copies, contact your IBM and/or Tivoli representative or visit the IBM and/or Tivoli Publications Center at <http://www.elink.ibm.link.ibm.com/applications/public/applications/publications/cgibin/pbi.cgi> on the Internet.

Figure 7 (Page 1 of 2). Publications Useful During Installation

Publication Title	Form Number
<i>IBM SMP/E for z/OS and OS/390 User's Guide</i>	SA22-7773
<i>IBM SMP/E for z/OS and OS/390 Commands</i>	SA22-7771
<i>IBM SMP/E for z/OS and OS/390 Reference</i>	SA22-7772

Figure 7 (Page 2 of 2). Publications Useful During Installation

Publication Title	Form Number
<i>IBM SMP/E for z/OS and OS/390 Messages, Codes, and Diagnosis</i>	GA22-7770
<i>z/OS UNIX System Services Command Reference</i>	SC28-1892
<i>z/OS 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 Tivoli support available for Tivoli NetView for z/OS Version 5 Release 1.

3.1 Program Services

Contact your IBM and/or Tivoli representative for specific information about available program services.

3.2 Preventive Service Planning

Before installing Tivoli NetView for z/OS Version 5 Release 1, you should review the current Preventive Service Planning (PSP) information. If you obtained Tivoli NetView for z/OS Version 5 Release 1 as part of a CBPDO, there is HOLDDATA and PSP information included on the CBPDO.

If you obtained Tivoli NetView for z/OS Version 5 Release 1 on a product tape, or if the CBPDO is more than two weeks old when you install it, you should contact the IBM and/or Tivoli Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

For access to RETAIN, visit <http://www.ibm.link.ibm.com> on the Internet.

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 z/OS Version 5 Release 1 are:

Figure 8. PSP Upgrade and Subset ID

UPGRADE	SUBSET	Description
TIVNETV510	HENV510	NetView System Services Base
	JENV512	NetView System Services Japanese
	JENV513	NetView Enterprise Base
	JENV515	NetView Enterprise Japanese

3.3 Statement of Support Procedures

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

Figure 9 identifies the component IDs (COMPID) for Tivoli NetView for z/OS Version 5 Release 1.

Figure 9. Component IDs

F MID	COMP ID	Component Name	RETAIN Release
HENV510	5697ENV00	NetView System Services Base	510
JENV512	5697ENV00	NetView System Services Japanese	512
JENV513	5697ENV00	NetView Enterprise Base	513
JENV515	5697ENV00	NetView Enterprise Japanese	515
	5698NVW05	ITSC dNetView	711

4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of Tivoli NetView for z/OS Version 5 Release 1. The program level refers to the APAR fixes incorporated into the program. The service level refers to the PTFs integrated.

4.1 Program Level Information

Appendix A, "Program Level Information" on page 54 lists the APAR fixes for previous releases of NetView that have been incorporated into Tivoli NetView for z/OS Version 5 Release 1.

4.2 Service Level Information

No PTFs against this release of Tivoli NetView for z/OS Version 5 Release 1 have been incorporated into the product tape.

5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating Tivoli NetView for z/OS Version 5 Release 1. 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 z/OS Version 5 Release 1.

5.1.1 Machine Requirements

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

5.1.2 Programming Requirements

<i>Figure 10. Driving System Software Requirements</i>	
Program Number	Product Name and Minimum VRM/Service Level
Any one of the following:	
5647-A01	OS/390 SMP/E Version 2 Release 10 or higher with PTF UR51068
5694-A01	z/OS Version 1 Release 1 or higher
5655-G44	IBM SMP/E for z/OS and OS/390 Version 3 Release 1 or higher

5.2 Target System Requirements

This section describes the environment of the target system required to install and use Tivoli NetView for z/OS Version 5 Release 1.

Tivoli NetView for z/OS Version 5 Release 1 installs in the MVS (Z038) SREL.

5.2.1 Machine Requirements

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

5.2.2 Programming Requirements

5.2.2.1 Mandatory Requisites

A mandatory requisite is defined as a product that is required without exception; this product either **will not install** or **will not function** unless this requisite is met. This includes products that are specified as REQs or PREs.

Figure 11. Mandatory Requisites

Program Number	Product Name and Minimum VRM/Service Level
5647-A01	OS/390 Release 10 or later

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 basic 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 12 (Page 1 of 2). Functional Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
5695-014	IBM Compiler for SAA* REXX/370 Release 3	Compiling REXX Clists or Programs (See notes 1 & 2 below)
-	ACF/NCP Version 4.3.2 or later	All functions related to the ACF/NCP program
-	OS/390 Version 2.10 or z/OS IP Services	All functions using TCP/IP communications from OS/390 or z/OS

Figure 12 (Page 2 of 2). Functional Requisites

Program Number	Product Name and Minimum VRM/Service Level	Function
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	Running Compiled REXX Clists or Programs (See notes 1 & 2 below)
-	Tivoli NetView for z/OS Functions	(See note 3)
-	Tivoli NetView for z/OS Automated Operations Network (AON) Component	(See note 4)
-	Tivoli NetView for z/OS MultiSystem Manager Component	(See note 5)
5697-D10	Tivoli Management Framework for OS/390 Version 3.6.1	Installation of Graphical Enterprise Workstation Components from OS/390 using Tivoli Software Installation Service (SIS)

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 z/OS UNIX System Services for NetView's z/OS 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 z/OS functions refer to 5.4, "Special Considerations" on page 22.
4. For additional functional requisite information regarding the Automated Operations Network component refer to 5.4.23, "Considerations for Tivoli NetView for z/OS Version 5 Release 1 Automated Operations Network Component" on page 28.
5. For additional functional requisite information regarding the MultiSystem Manager component(s) refer to 5.4.24, "Special Considerations for Tivoli NetView for z/OS Version 5 Release 1 MultiSystem Manager Component" on page 29.

5.2.2.3 Toleration/Coexistence Requisites

A toleration/coexistence requisite is defined as a product which must be present on a sharing system. These systems can be other systems in a multisystem environment (not necessarily sysplex), a shared DASD environment (such as test and production), or systems that reuse the same DASD at different time intervals.

Tivoli NetView for z/OS Version 5 Release 1 has no toleration/coexistence requisites.

5.2.2.4 Incompatibility (Negative) Requisites

A negative requisite identifies products which must *not* be installed on the same system as this product.

Tivoli NetView for z/OS Version 5 Release 1 has no negative requisites.

5.2.3 DASD Storage Requirements

Tivoli NetView for z/OS Version 5 Release 1 libraries can reside on all supported DASD types.

Figure 13 lists the total space required for each type of library.

Library Type	Total Space Required
Target	3236 Tracks of 3390
Distribution	3041 Tracks of 3390
HFS	150 Tracks of 3390

Notes:

1. Tivoli recommends use of system determined block sizes for efficient DASD utilization for all non-RECFM U data sets. For RECFM U data sets, Tivoli recommends a block size of 32760, which is the most efficient from a performance and DASD utilization perspective.
2. Abbreviations used for the data set type are:

- U** Unique data set, allocated by this product and used only by this product. 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, allocated by this product and used by this product and others. 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.
- E** Existing shared data set, used by this product and others. This data set is NOT allocated by this product. 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). This existing data set 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 6.1.8, "Allocate SMP/E Target and Distribution Libraries and Paths" on page 40.

3. Abbreviations used for the HFS Path type are:

- N** New path, created by this product.
- X** Path created by this product, but may already exist from a previous release.
- P** Previously existing path, created by another product.

4. All target and distribution libraries listed have the following attributes:

- The default name of the data set may be changed
- The default block size of the data set may be changed
- The data set may be merged with another data set that has equivalent characteristics
- The data set may be either a PDS or a PDSE

5. All target libraries listed have the following attributes:

- The data set may be SMS managed
- It is not required for the data set to be SMS managed
- The data set may be in the LPA
- It is not required for the data set to be in the LPA
- The data set may be in the LNKLST
- It is not required for the data set to be APF authorized
- It is not required for the data set to reside on the IPL volume

- The values in the "Member Type" column are not necessarily the actual SMP/E element types identified in the SMPMCS.

Figure 14 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 14. Storage Requirements for SMPCSI Data Sets for SMP/E for Tivoli NetView for z/OS Version 5 Release 1</i>		
DASD	Tracks Required for SMPCSI Data	Tracks Required for SMPCSI Index
3390	1230	61

<i>Figure 15. Storage Requirements for SMP/E Work Data Sets</i>							
Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks	
SMPWRK1	S	PDS	FB	80	3	15	
SMPWRK2	S	PDS	FB	80	5	15	
SMPWRK3	S	PDS	FB	80	5	90	
SMPWRK4	S	PDS	FB	80	8	15	
SMPWRK6	S	PDS	FB	80	25	350	
SYSUT1	U	SEQ	--	--	3	-	
SYSUT2	U	SEQ	--	--	2	-	
SYSUT3	U	SEQ	--	--	2	-	
SYSUT4	U	SEQ	--	--	2	-	

The following table provides an estimate of the storage needed in the SMP/E data sets for Tivoli NetView for z/OS Version 5 Release 1. The estimates must be added to those of any other programs and service being installed to determine the total additional storage requirements.

If the table indicates that the SMPLTS data set must be a PDSE, but your existing SMPLTS is a PDS, you will need to allocate a new PDSE and copy your existing SMPLTS into it, and then change the SMPLTS DDDEF entry to indicate the new PDSE data set.

Figure 16. Storage Requirements for SMP/E Data Sets

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
SMPLTS	S	PDS	U	0	296	16
SMPMTS	S	PDS	FB	80	1	1
SMPPTS	S	PDS	FB	80	24	1
SMPSCDS	S	PDS	FB	80	5	1
SMPSTS	S	PDS	FB	80	1	1

The following figures describe the target and distribution libraries and HFS paths required to install Tivoli NetView for z/OS Version 5 Release 1. The storage requirements of Tivoli NetView for z/OS Version 5 Release 1 must be added to the storage required by other programs having data in the same library or path.

Note: The data in these tables should be used when determining which libraries can be merged into common data sets. In addition, since some ALIAS names may not be unique, ensure that no naming conflicts will be introduced before merging libraries.

5.2.3.1 Target Libraries for Tivoli NetView for z/OS Version 5 Release 1

Figure 17 (Page 1 of 2). Storage Requirements for Tivoli NetView for z/OS Version 5 Release 1 Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
BNJPNL2	LMOD	ANY	U	PO	FB	80	8	5
SBNJPNL3	LMOD	ANY	U	PO	FB	80	381	232
BNJSRC1	LMOD	ANY	U	PO	FB	80	1	1
CNMCLST	LMOD	ANY	U	PO	FB	80	719	51
CNMINST	LMOD	ANY	U	PO	FB	80	5	1
CNMLINK	LMOD	ANY	U	PO	U	0	700	190
CNMPNL1	LMOD	ANY	U	PO	FB	80	80	41
SCNMPNL2	LMOD	ANY	U	PO	FB	80	563	131
SCNMMJPN	LMOD	ANY	U	PO	U	0	8	9
CNMSAMP	LMOD	ANY	U	PO	FB	80	315	32
DSIPARM	LMOD	ANY	U	PO	FB	80	80	12

Figure 17 (Page 2 of 2). Storage Requirements for Tivoli NetView for z/OS Version 5 Release 1 Target Libraries

Library DDNAME	Member Type	Target Volume	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
DSIPRF	LMOD	ANY	U	PO	FB	80	2	1
SDSIOPEN	LMOD	ANY	U	PO	FB	80	2	1
SEKGLANG	LMOD	ANY	U	PO	FB	125	1	1
SCNMMAC1	LMOD	ANY	U	PO	FB	80	128	13
NVULIB	LMOD	ANY	U	PO	U	0	4	6
SCNMLNK1	LMOD	ANY	U	PO	U	0	1	1
SCNMLNKN	LMOD	ANY	U	PO	U	0	1	1
SCNMLPA1	LMOD	ANY	U	PO	U	0	1	2
SDSIMSG1	LMOD	ANY	U	PO	FB	80	10	1
SDUIMSG1	LMOD	ANY	U	PO	FB	80	2	1
SFLBDAT1	LMOD	ANY	U	PO	VB	1028	4	1
SCNMUXLK	LMOD	ANY	U	PO	U	0	69	2
SCNMUXCL	LMOD	ANY	U	PO	VB	516	7	1
SCNMUXMS	LMOD	ANY	U	PO	FB	80	4	1

5.2.3.2 HFS Paths for Tivoli NetView for z/OS Version 5 Release 1 Graphical Enterprise Option

Figure 18. Tivoli NetView for z/OS Version 5 Release 1 HFS Paths

DDNAME	T Y P E	Path Name
SCNMUX00	N	/usr/lpp/netview/v5r1/bin/IBM/
SCNMUX03	N	/usr/lpp/netview/v5r1/mibs/IBM/

5.2.3.3 Distribution Libraries for Tivoli NetView for z/OS Version 5 Release 1

Figure 19. Storage Requirements for Tivoli NetView for z/OS Version 5 Release 1 Distribution Libraries

Library DDNAME	T Y P E	O R G	R E C F M	L R E C L	No. of 3390 Trks	No. of DIR Blks
ABNJPNL2	U	PO	FB	80	8	5
ABNJPNL3	U	PO	FB	80	380	232
ABNJSRC1	U	PO	FB	80	1	1
ACNMCLST	U	PO	FB	80	719	51
ACNMINST	U	PO	FB	80	5	1
ACNMLINK	U	PO	U	0	995	671
ACNMPNL1	U	PO	FB	80	80	41
ACNMPNL2	U	PO	FB	80	561	131
ACNMMJPN	U	PO	U	0	8	8
ACNMSAMP	U	PO	FB	80	315	32
ADSIPARM	U	PO	FB	80	80	12
ADSIPRF	U	PO	FB	80	2	1
ADSIOPEN	U	PO	FB	80	2	1
ADSIMSG1	U	PO	FB	80	10	1
ADUIMSG1	U	PO	FB	80	2	1
AEKGLANG	U	PO	FB	125	1	1
ACNMMAC1	U	PO	FB	80	128	13
ANVULIB	U	PO	U	0	4	6
AFLBDAT1	U	PO	VB	1028	4	1
ACNMUXLK	U	PO	U	0	72	2
ACNMUXCL	U	PO	VB	516	59	3
ACNMUXMS	U	PO	FB	80	4	1

5.3 FMIDs Deleted

Installing Tivoli NetView for z/OS Version 5 Release 1 may result in the deletion of other FMIDs. To see what FMIDs will be deleted, examine the ++VER statement in the product's SMPMCS.

If you do not wish to delete these FMIDs at this time, you must install Tivoli NetView for z/OS Version 5 Release 1 into separate SMP/E target and distribution zones.

Note: These FMIDs will not automatically be deleted from the Global Zone. Consult the SMP/E manuals for instructions on how to do this.

5.4 Special Considerations

The following table identifies README file names and installation methods associated with the noted Tivoli NetView for z/OS Version 5 Release 1 components.

<i>Figure 20. README file names and installation methods for Tivoli NetView for z/OS Version 5 Release 1 Components.</i>			
Component Name	Web Page ⁽¹⁾	CD ⁽²⁾	README
NetView Web Application	x	x	zNetViewWebApp_ja.me
NMC Topology Console	x	x	EGVREAD3.ME
NMC Topology Server	x	x	EGVREAD4.ME
NetView Visual BLDVIEWS	x	x	VBVRead.ME
NetView 3270 Management Console	x	x	FLBREAD2.ME
Event Automation Service(EAS)	x	x	IHSREAD1.ME
(1) URL: http://www.tivoli.com/nv390_supported			
(2) The readme documentation on the Tivoli NetView for z/OS Version 5 Release 1 CDROM is located in the README\ENU directory.			

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

5.4.1 Tivoli NetView Management Console, NetView 3270 Management Console

- Topology Server
 - Any Hardware that supports any of the following operating systems
 - AIX 4.3.3 (5765-C34) at Recommended Maintenance level 09 or later with
 - C Set++ for AIX Applications xIC.rte 3.6.6.0 or later
 - IBM class libraries ibmcxx.ioc.rte 3.6.6.0 for later and ibmcxx.rt 3.6.6.0 or later
 - Information Presentation Facility ipfx.rte.2.2.0.0 or later

Note: xIC.rte, ibmcxx.ioc.rte, ibmcxx.rte and ipfx.rte are included on the Tivoli NetView for z/OS Version 5 Release 1 product CD
 - AIX 5.1 (5765-E61) at Recommended Maintenance level 01 or later with
 - C Set++ for AIX Applications xIC.rte 3.6.6.0 or later

- IBM class libraries ibmcxx.ioc.rte 3.6.6.0 for later and ibmcxx.rt 3.6.6.0 or later
 - Information Presentation Facility ipfx.rte.2.2.0.0 or later
- Note:** xIC.rte, ibmcxx.ioc.rte, ibmcxx.rte and ipfx.rte are included on the Tivoli NetView for z/OS Version 5 Release 1 product CD
- Windows NT 4.0 Server with service pack 6a or later
 - Windows 2000 with service pack 2 or later
 - SuSE Linux Enterprise Server 7.0 for S/390 at kernel level 2.2.16 with TCP/IP and pdksh Korn shell RPM package installed (English only, Japanese not supported).
 - SuSE Linux Enterprise Server 7 for S/390 and zSeries at kernel level 2.4.7 with glibc at level 2.2.4
- Processor speed of at least 350MHz
 - Minimum memory of 128MB, 256 recommended
 - 60 MB of additional fixed space
- Topology Console
 - Any Hardware that supports any of the following operating systems with TCP/IP installed
 - AIX 4.3.3 (5765-C34) at Recommended Maintenance level 09 or later with TCP/IP installed
 - AIX 5.1 (5765-E61) at Recommended Maintenance level 01 or later with TCP/IP installed
 - Windows NT 4.0 with Service Pack 6a or later
 - Windows 2000 with Service Pack 2 or later with TCP/IP installed
 - Red Hat 7.1 or SuSE 7.1 Linux distributions on 32-bit IA-32 Intel Architecture (English only, Japanese not supported)
 - Red Hat 7.2 or SuSE 7.2 Linux distributions on 32-bit IA-32 Intel Architecture (e.g., Pentium III or Pentium 4 processors). Also, one of the following desktops and window managers:
 - GNOME/Sawfish (previously known as Sawmill)
 - K Desktop Environment (KDE)/KWM 2.0.1
 - HP-UX 11 or later with TCP/IP installed (English only). Since the NMC Topology Console uses Java, patches are needed to support the Java Runtime Environment. The latest list of patches can be found at HP's Web site:
<http://hp.com/products1/unix/java/infolibrary/patches.html>
 - Sun Solaris 2.8 or later with TCP/IP installed and the following patches: 108940-32, 108652-37, 108921-13.
 - Processor speed of at least 350MHZ
 - 256MB of memory
 - 50 MB of additional fixed disk space

- A color display with 1024 x 768, and 256 colors
- Maximum color palette is 16-bit high color. 256-color palette recommended. 32-bit true color is not supported
- Server communications with NetView for z/OS using LU 6.2
 - For IP connections, OS/390 Version 2 Release 10 (5647-A01) IP Services, or later, or z/OS (5694-A01) IP Services
 - For LU 6.2 connections
 - For AIX, IBM Communications Server for AIX, Version 6.1 (5765-E51)
 - For Windows NT and Windows 2000, IBM Communications Server for Windows NT 6.1.1
- For additional information on installing the NetView 3270 Management Console, refer to the readme file identified in Figure 20 on page 22.

5.4.2 Considerations for NMC Server Audit Log

To use a Web browser to view the audit log requires a browser which supports XSL (eXtensible Stylesheet Language). Common browsers which support XSL include:

- Netscape 6.0 or later
- Microsoft Internet Explorer 5.5 or later

5.4.3 Considerations for NetView Web Application

- HTTP Server and Web Application Server
 - Any Hardware that supports any of the following operating systems running IBM WebSphere Application Server V4.0, Advanced Edition or the Jetty Java HTTP Server and Servlet Container from Mort Bay Consulting
 - AIX 4.3.3 (5765-C34) at Recommended Maintenance level 09, or later
 - IBM AIX Version 5.1 at Recommended Maintenance level 01, or later
 - Windows NT 4.0 Server with Service Pack 5 or later
 - Windows 2000 Server with Service Pack 1 or later
 - SuSE Linux Enterprise Server 7.0 for S/390 at kernel level 2.2.16 with pdksh Korn shell RPM package installed (available on SuSE's distributed media, CD1) (English only)
 - For a Japanese system, GNU Awk 3.1.0 is also required
 - SuSE Linux Enterprise Server 7 for S/390 and zSeries at kernel level 2.4.7 and glibc at level 2.2.4

Note: At this time, WebSphere Application Server V4.0, Advanced Edition, does not have Japanese support on SuSE Linux Enterprise Server 7 for S/390 and zSeries.

- For additional requirements for IBM Websphere Application Server V4.0, Advanced Edition, see the WebSphere documentation for the applicable platform.
- Jetty is an Open Source HTTP Server and Servlet Container that is packaged with Tivoli NetView for z/OS Version 5 Release 1 Jetty requires the following
 - Processor speed of at least 350MHZ
 - 256MB minimum
 - 68 MB of additional fixed disk space
 - Supported locales for the Japanese version of the NetView Web Application are
 - For Windows, SJIS
 - For AIX, ja_JP (EUC) and Ja_JP (PC or IBM-943)
 - For Linux on zSeries, ja_JP.eucjp
- Web Console
 - One of the following operating system and browser combinations

Note: Netscape 6.x is not supported on any operating system

 - Windows 2000 with one of the following browsers with Java Plug-in level 1.3.1_03
 - Microsoft Internet Explorer 5.0 or later
 - Netscape 4.78 or later 4.7x release
 - Windows NT 4.0 or later with one of the following browsers with Java Plug-in level 1.3.1_03
 - Microsoft Internet Explorer 5.0 or later with SP2
 - Netscape 4.78 or later 4.7x release
 - AIX 4.3.3 (5765-C34) with APAR IY2043 installed.
 - Netscape 4.76i with Java Plug-in level J2RE 1.3.0 IBM build ca130-20020208
 - AIX 5.1 (5765-E61) with Recommended Maintenance package 5100-01
 - Netscape 4.78i with Java Plug-in level J2RE 1.3.0 IBM build ca130-20020208
 - Sun Solaris 2.8 or later with Netscape 4.76 with JRE 1.3.1_02 Plug-ins
 - SuSE 7.2 distribution of Linux with Netscape 4.76 and Java Plug-in level J2RE 1.3.0 IBM build cxia131-20020410
 - Red Hat 7.2 distribution of Linux with Netscape 4.79 and Java Plug-in level J2RE 1.3.0 IBM build cxia131-20020410

5.4.4 Considerations for DYNAMIC VIPA and Sysplex Distribution Support

NetView Web Browser Interface prerequisites

- One of the following
 - OS/390 Release 10 IP Services with APAR PQ56105
 - z/OS Release 1 IP Services with APAR PQ56105
 - z/OS Release 2 IP Services with PTFs UQ59826 and UQ59827

5.4.5 Considerations for TCP/IP Resource Discovery and Management on Linux zSeries

- SuSE Linux Enterprise Server for S/390 version 7.0 at kernel level 2.2.16 or later supported distribution with TCP/IP and Korn shell RPM package installed

Note: TCP/IP Resource Discovery and Management on Linux on zSeries includes the SNMP Server for the SNMP MIB Browser and Real-Time Poller/Grapher as well as the Jetty HTTP Server. If either of these servers has been installed on a Linux on zSeries logical partition (LPAR), it must be uninstalled before installing the TCP/IP Resource Discovery and Management function in that LPAR.

5.4.6 Considerations for Launching Tivoli Business System Manager (TBSM) from NMC or NMC from TBSM

- TBSM V1R5 (5698-BSM) or later

5.4.7 Considerations for SNMP MIB Browser, Real-time Poller

The prerequisites for the Web Browser Interface

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

- The Event Automation Service requires the following:
 - Tivoli Enterprise Console (TEC) 3.6.1 (5697-EAS, 5698-EAS)

Using secure framework communication also requires:

- Tivoli Management Framework for OS/390 3.6.1 (5697-D10, 5698-FRA)
- For additional information on installing Event Automation Service workstation component, refer to the readme file identified in Figure 20 on page 22.

5.4.9 Considerations for issuing Commands from Tivoli Management Environment to OS/390 or z/OS

- NetView Management Console Topology Server or Tivoli Management Framework for OS/390 3.6.1 (5697-D10, 5698-FRA)

5.4.10 Considerations for Issuing OS/390 or z/OS UNIX System Services Commands from Tivoli NetView for z/OS Version 5 Release 1

- REXX alternate run-time (same as for Tivoli NetView for z/OS Version 5 Release 1 MultiSystem Manager Component)

5.4.11 Considerations for Using the UNIX Command Server

- OS/390 APAR OW45635 must be applied

5.4.12 Considerations for OS/390 TCP/IP Stack Management and Telnet 3270 Management

- Optional: In order to be able to dynamically add to the set of resources monitored and displayed at NMC, DB2 for OS/390 Version5 Release 1 (5655-DB2) or later is required

5.4.13 Considerations for Beeper/Pager Support

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

5.4.14 SNA Topology Manager

- Generalized Trace Facility

5.4.15 NetView Bridge -- Support for INFO Access

- Tivoli Service Desk for OS/390 (5648-142)
- Application Programming Interface (API) requirements as applicable

5.4.16 Support for IBM LAN Network Manager Enhanced Command Interface

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

5.4.17 Management of Frame Relay (DTE) and Ethernet

- ACF/NCP Version 6 (5688-231)

5.4.18 NetView Parallel Transmission Group Support

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

5.4.19 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 3.1 (5668-854) for the 3725
- ACF/NCP Version 5 Release 4 (5668-738) or later for the 3720 or 3745

5.4.20 NetView Performance Monitor (NPM) Alerts

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

5.4.21 Considerations for SAF Security Checking

OS/390 Version 2 Release 10 (5647-A01) or z/OS (5694-A01) 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
- List RACF profile for NetView operators

5.4.22 Considerations for using Router Fault Isolation

- Tivoli NetView 6.0.3 (5698-NVW)

5.4.23 Considerations for Tivoli NetView for z/OS Version 5 Release 1 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 that supports the NetView 3270 Management Console, 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.

Note: To use the SNBU automation, ACF/NCP Version 4 Release 3.1 (5684-854), or later is required. ACF/NCP Version 5 Release 4 (5668-738) or later is required for complete DMPX support of IBM 7861/8 Model 4x modems.
- 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 z/OS, and requires:

 - AIX 4.3.3.10 (5765-C34) or later
 - Tivoli NetView for AIX 6.0.3 (5698-NVW) or later
 - AIX NetView Service Point 1.3.3 (5621-107)

Note: If 1.2.2 is already installed, PTF U473211 provides an upgrade to 1.3.3

 - IBM Communication Server for AIX 6.1 (5765-E51)

5.4.24 Special Considerations for Tivoli NetView for z/OS Version 5 Release 1 MultiSystem Manager Component

The MultiSystem Manager component of Tivoli NetView for z/OS Version 5 Release 1 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 z/OS
 - FMID HWJ9133 US English

The following table identifies README file names and installation methods associated with the Tivoli NetView for z/OS Version 5 Release 1 MultiSystem Manager features.

<i>Figure 21 (Page 1 of 2). README file names and installation methods for Tivoli NetView for z/OS Version 5 Release 1 MultiSystem Manager features.</i>			
MultiSystem Manager Agent Name	Web Page ⁽¹⁾	CD ⁽²⁾	README
MSM Agent downloads	x	x	MSMAGNT.ME
IP	x	x	MSMIP.ME
LAN Network Manager	x	x	(3) & (4)
NetFinity	x	x	MSMNF.ME ⁽³⁾

Figure 21 (Page 2 of 2). README file names and installation methods for Tivoli NetView for z/OS Version 5 Release 1 MultiSystem Manager features.

MultiSystem Manager Agent Name	Web Page (1)	CD (2)	README
Open	x	x	(5)
TMR	x	x	FLCTMR1.HTML
(1) URL: http://www.tivoli.com/nv390_supported			
(2) The readme documentation on the Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Installation: Getting Started, SC31-8872</i> .			
(5) For a vendor-supplied topology agent, refer to the documentation provided with the agent.			

5.4.24.1 System Considerations for the MultiSystem Manager LAN Network Manager Feature

The MultiSystem Manager LAN Network Manager feature of Tivoli NetView for z/OS Version 5 Release 1 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)

5.4.24.2 System Considerations for the MultiSystem Manager NetFinity Network Feature

The MultiSystem Manager NetFinity Networks feature of Tivoli NetView for z/OS Version 5 Release 1 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:
 - TCP/IP connectivity
- 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

5.4.24.3 System Considerations for the MultiSystem Manager TMR Feature

The MultiSystem Manager Tivoli Management Region (TMR) feature of Tivoli NetView for z/OS Version 5 Release 1 requires:

- Tivoli Distributed Monitoring 3.6.2 or 3.7 (5697-EMN, 5698-EMN) or later
- A compatible level between 3.6.2 and 3.71 of each of the following:
 - Tivoli Management Framework (5697-FRA, 5698-FRA)
 - Tivoli Enterprise Console (TEC) (5697-EAS, 5698-EAS)
- Any of the following Operating Systems:
 - Windows NT 4.0
 - Windows 2000
 - AIX 4.3.3.10 (5765-C34) or later
 - Sun Solaris 2.6 or higher
 - HP UX 10.20 or higher

5.4.24.4 Considerations for Sending Commands from Tivoli NetView for z/OS Version 5 Release 1 to TEC

Sending commands from Tivoli NetView for z/OS Version 5 Release 1 to TEC requires:

- The MultiSystem Manager Tivoli Management Region (TMR) Feature

5.4.24.5 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 z/OS.

The MultiSystem Manager Internet Protocol feature of Tivoli NetView for z/OS Version 5 Release 1 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 z/OS via SNA or TCP/IP. If you are using TCP/IP to communicate between the IP agent and Tivoli NetView for z/OS, the following are required:

- AIX 4.3.3.10 (5765-C34) or later
- Tivoli NetView for AIX 6.0.3 (5698-NVW)

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

- AIX 4.3.3.10 (5765-C34) or later

- Tivoli Netview for AIX 6.0.3 (5698-NVW) or later
- AIX NetView Service Point Version 1 Release 3.3 (5621-107)

Note: If 1.2.2 is already installed, PTF U473211 provides an upgrade to 1.3.3

- IBM Communication Server for AIX V6.1 (5765-E51)

- **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 z/OS. 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, or later

save

- **Windows NT and Windows 2000**

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

- Windows NT Version 4 or Windows 2000
- Tivoli NetView for NT Version 5 Release 1, or later

- **Sun Solaris**

The MultiSystem Manager IP network agent for Solaris uses TCP/IP to communicate between the MultiSystem Manager IP agent and Tivoli NetView for z/OS. 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 6 or later
 - Tivoli NetView for Solaris Version 5 Release 1, or later
- The MultiSystem Manager IP agent for OpenView for Solaris requires:
 - Solaris Version 2 Release 6 or later
 - Hewlett Packard Network Node Manager (HP OpenView) Version 5 Release 1 or later

5.4.24.6 System Considerations for using the REXX Alternate Library

(FMID HWJ9133)

Before using the REXX Alternate Library with Tivoli NetView for z/OS Version 5 Release 1 you must first apply the following PTFs.

- UN78518
- UN78525

- UN84251
- UN86020
- UN88434
- UN90776
- UN93567
- UN93568
- UN96368
- UQ02796
- UQ04867
- UQ06343
- UQ06344
- UQ06830
- UQ10660
- UQ12616
- UQ17096
- UQ18015

You are now aware of all of the installation requirements for Tivoli NetView for z/OS Version 5 Release 1. Proceed to 6.0, "Installation Instructions" on page 34 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 z/OS Version 5 Release 1.

If you obtained Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Version 5 Release 1 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 10 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 z/OS Version 5 Release 1. The OS/390 changes required to run Tivoli NetView for z/OS Version 5 Release 1 are discussed in the *Tivoli NetView for z/OS Installation: Getting Started, SC31-8872*.

Please note the following:

- The sample jobs are shown using REGION=0M. A region value equal to 0K or 0M gives the job all the storage available below and above 16 megabytes. Be aware that this can affect the performance of other jobs running in the system. If you do not choose to run with a region size of 0M, refer to z/OS SMP/E Reference, SA22-7772, for more information on how to determine region sizes.
- If you want to install Tivoli NetView for z/OS Version 5 Release 1 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.
- If you will be installing the IBM SAA REXX/370 Alternate Library (5695-014) for use with Tivoli NetView for z/OS Version 5 Release 1 then you should refer to its Program Directory for instructions on how to perform the installation.

The two basic choices for installing Tivoli NetView for z/OS Version 5 Release 1 are:

1. **Install into new target and distribution zones. This is the recommended method for Tivoli NetView for z/OS Version 5 Release 1 for users who will continue to use a prior version of NetView after Tivoli NetView for z/OS Version 5 Release 1 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 new CSI zones 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 z/OS Version 5 Release 1, 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 6.1.13.1, "APPLYing Tivoli NetView for z/OS Version 5 Release 1 on a System Having NCCF or" on page 44. The *Tivoli NetView for z/OS Installation: Configuring Additional Components, SC31-8874* 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 z/OS Version 5 Release 1 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 z/OS Version 5 Release 1 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 6.1.13.1, "APPLYing Tivoli NetView for z/OS Version 5 Release 1 on a System Having NCCF or" on page 44.

If you are installing Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Version 5 Release 1. If a SYSGEN is performed after the installation of Tivoli NetView for z/OS Version 5 Release 1 is complete, the GENERATE facility of SMP/E can be used to re-install Tivoli NetView for z/OS Version 5 Release 1.

6.1 Installing Tivoli NetView for z/OS Version 5 Release 1

The samples provided with Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Version 5 Release 1

This release of Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Version 5 Release 1. After the RECEIVE step has been completed, the sample jobs can be found in SMPTLIB: **IBM.JENV512.F2**. Make a copy of these jobs in your own library and modify them to use during the installation of Tivoli NetView for z/OS Version 5 Release 1. Or you can use the UNLOAD job provided in the program directory to copy the install JCL from the tape. See 6.1.5, "Sample Jobs" on page 37.

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 dzone. The target zone name is tzone. 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 22. 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.

<i>Figure 22. SMP/E Options Subentry Values</i>		
SUB-ENTRY	Value	Comment
DSSPACE	(300,500,900)	Use 900 directory blocks
PEMAX	SMP/E Default	Tivoli recommends using the SMP/E default for PEMAX.

6.1.4 SMP/E CALLLIBS Processing

Tivoli NetView for z/OS Version 5 Release 1 uses the CALLLIBS function provided in SMP/E to resolve external references during installation. When Tivoli NetView for z/OS Version 5 Release 1 is installed, ensure that DDDEFs exist for the following libraries:

- CSSLIB
- SCEELKED
- SEZADPIL

- SEZACMTX

Note: The DDDEFs above are used only to resolve the link-edit for Tivoli NetView for z/OS Version 5 Release 1 using CALLLIBS. These data sets are not updated during the installation of Tivoli NetView for z/OS Version 5 Release 1.

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 z/OS Version 5 Release 1, 296 tracks of 3390 DASD space is adequate for the SMPLTS.

6.1.5 Sample Jobs

The following sample installation jobs are provided as part of the product to help you install Tivoli NetView for z/OS Version 5 Release 1:

<i>Figure 23 (Page 1 of 2). Sample Installation Jobs</i>			
Job Name	Job Type	Description	RELFILE
CNMJSMPJ	ALLOCATE	Sample job to allocate SMP/E datasets	IBM.JENV512.F2
CNMJCSIJ	SMPZONE	Sample job to allocate global, target and dlib zones, define the globalzone and default options to SMP/E	IBM.JENV512.F2
CNMJUCLJ	SMPZONE	Sample job to update DSSPACE and/or PEMAX if using existing zones	IBM.JENV512.F2
CNMRCVNJ	RECEIVE	RECEIVE job for System Services Base	IBM.JENV512.F2
CNMRCVEJ	RECEIVE	RECEIVE job for Enterprise Base	IBM.JENV512.F2
CNMALOCJ	ALLOCATE	Allocate job for target and distribution libraries for Tivoli NetView for z/OS Version 5 Release 1 host.	IBM.JENV512.F2
CNMJMKPJ	MKDIR	Sample job to create HFS mount point directory of target HFS data set that was allocated. Must be done from ID with root authority.	IBM.JENV512.F2
CNMJMKMJ	MKDIR	Rexx exec invoked by CNMJMKPJ to create the HFS mount point directory of the target HFS data set.	IBM.JENV512.F2
CNMJMKXJ	MKDIR	Sample job to execute the exec that creates HFS directories for z/OS UNIX System Services related components. Must be done from ID with root authority. HFS paths	IBM.JENV512.F2
CNMJMKDJ	MKDIR	Rexx exec to create HFS directories for z/OS UNIX System Services related components HFS paths	IBM.JENV512.F2
CNMDDEFJ	DDDEF	Sample job to define SMP/E DDDEFs for NetView	IBM.JENV512.F2
CNMAPLYJ	APPLY	APPLY job for NetView. Must be done from ID with root authority.	IBM.JENV512.F2
CNMACPTJ	ACCEPT	ACCEPT job for NetView	IBM.JENV512.F2

Figure 23 (Page 2 of 2). Sample Installation Jobs

Job Name	Job Type	Description	RELFILE
CNMJUMCS	PRINT	Sample job to print out SMPMCS	IBM.JENV512.F2

You may copy the jobs from the tape or product files by submitting the job below. Use either the //TAPEIN or the //FILEIN DD statement, depending on your distribution medium, and comment out or delete the other statement. Add a job card and change the lowercase parameters to uppercase values to meet your site's requirements before submitting.

```
//UNLOAD EXEC PGM=IEBCOPY
//SYSPRINT DD SYSOUT=*
//TAPEIN DD DSN=IBM.JENV512.F2,UNIT=tunit,
// LABEL=(8,SL),DISP=OLD,
// VOL=SER=JNV510
//FILEIN DD DSN=IBM.JENV512.F2,UNIT=SYSALLDA,DISP=SHR,
// VOL=SER=filevol
//OUT DD DSN=NETVIEW.V5R1M0.INSTALL,
// DISP=(NEW,CATLG,DELETE),
// VOL=SER=dasdvol,UNIT=SYSALLDA,
// SPACE=(CYL,(100,10,25))
//SYSUT3 DD UNIT=SYSALLDA,SPACE=(CYL,(1,1))
//SYSIN DD *
COPY INDD=xxxxIN,OUTDD=OUT
/*
//
```

where **tunit** is the unit value matching the product tape, **filevol** is the volume serial of the DASD device where the downloaded files reside, **dasdvol** is the volume serial of the DASD device where the output data set will reside and **xxxxIN** on the SYSIN DD to either TAPEIN or FILEIN depending on your input DD statement.

You can also access the sample installation jobs by performing an SMP/E RECEIVE and then copying the jobs from the SMPTLIBs to a work data set for editing and submission. See Figure 23 on page 37 to find the appropriate SMPTLIB data set.

6.1.6 Establish the Correct SMP/E Environment for Tivoli NetView for z/OS Version 5 Release 1

6.1.6.1 SMP/E Data Sets for Tivoli NetView for z/OS Version 5 Release 1

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 CNMJSMJP is provided in NETVIEW.V5R1M0.INSTALL for that purpose. It is important that the data set names match between sample job CNMJSMJP and those that are specified in all of the installation jobs supplied with Tivoli NetView for z/OS Version 5 Release 1. CNMJSMJP 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 and be sure it contains the trailing period (e.g. SMPSLQ=USER.).

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

6.1.6.2 SMP/E CSI for Tivoli NetView for z/OS Version 5 Release 1

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 the sample CNMJCSIJ supplied in NETVIEW.V5R1M0.INSTALL. CNMJCSIJ will allocate and prime a global CSI data set, allocate and prime separate CSI data sets for the target and distribution zones, and initialize the zones once the CSIs are allocated and primed. Along with following the directions specified in the comments of the CNMJCSIJ sample, you should review the SMP/E options defined in CNMJCSIJ. 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 CNMJCSIJ 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 CNMJCSIJ job is considered successful if return code zero is received. If this is the first time you have run this job, and there are no existing CSIs to delete, then you will get a return code of 8 for the delete step.

6.1.6.3 OS/390 Release 10 SMP/E or later access to Tivoli NetView for z/OS Version 5 Release 1 Data Sets

Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Version 5 Release 1 data sets, complete the following steps:

- Ensure that the SMP/E space requirements outlined in Figure 15 on page 18 and Figure 16 on page 18 are met by the SMP/E environment that will be used to install Tivoli NetView for z/OS Version 5 Release 1. If you choose to use samples CNMJ SMPJ and CNMJCSIJ to create your SMP/E environment, these requirements are met and you may continue to 6.1.7, "Perform SMP/E RECEIVE" on page 40. If you are not using CNMJ SMPJ and CNMJCSIJ to create your SMP/E environment, read the following items.
 - Storage requirements for the SMPCSI data sets are found in Figure 14 on page 18.

- CNMJUCLJ, found in NETVIEW.V5R1M0.INSTALL, can be used to set DSSPACE and PEMAX to the values shown in Figure 22 on page 36. CNMJUCLJ should only be used if the values in your current OPTIONS entry are less than the values shown in Figure 22 on page 36.
- Run CNMJUCLJ, if necessary, before proceeding to 6.1.7, “Perform SMP/E RECEIVE” .

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

6.1.7 Perform SMP/E RECEIVE

Edit and submit sample receive jobs CNMRCVNJ and CNMRCVEJ to perform the SMP/E RECEIVE for Tivoli NetView for z/OS Version 5 Release 1. Consult the instructions in the sample jobs for more information. You will need to run both CNMRCVNJ and CNMRCVEJ.

Note: If you obtained Tivoli NetView for z/OS Version 5 Release 1 as part of a CBPDO, you can use the RCVPDO job found in the CBPDO RIMLIB data set to RECEIVE the Tivoli NetView for z/OS Version 5 Release 1 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.

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.

- **CNMRCVNJ:**

The JCL contained in the sample job CNMRCVNJ should be run for all installations.

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

- **CNMRCVEJ:**

The JCL contained in the sample job CNMRCVEJ should be run for all installations.

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

6.1.8 Allocate SMP/E Target and Distribution Libraries and Paths

6.1.8.1 Allocate SMP/E Target and Distribution Libraries

Ensure that the Tivoli NetView for z/OS Version 5 Release 1 target and distribution libraries have sufficient space. To see the minimum sizes needed refer to Figure 19 on page 20 and Figure 17 on page 19. To allow for maintenance, the space allocations in allocation samples are larger than the actual minimum space required.

If you are installing the NetView program for the first time, the allocation sample, CNMALLOCJ, can be used to create the target and distribution libraries which are used exclusively by Tivoli NetView for z/OS Version 5 Release 1.

Optionally, CNMALLOCJ can also allocate your target HFS data set, 'hhhhh.NETVIEW.V5R1J.HFS', that will be used to install NetView code.

Note: You are not required to allocate a target HFS data set, however, it is recommended. If you do not wish to allocate a target HFS data set for NetView, you can still install into either your root HFS data set or into another HFS data set. Currently, CNMALLOCJ will not allocate a target HFS data set. If you wish to allocate one you must uncomment the ALLOC2 step before running the CNMALLOCJ sample job.

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 library CNMLINK must also be cataloged in the master catalog if it is to be added to the linklist via the LNKLISTxx member of SYS1.PARMLIB. The LPALIB and LINKLIST concatenations are discussed further in the *Tivoli NetView for z/OS Installation: Getting Started, SC31-8872*.

6.1.8.2 Tivoli NetView for z/OS Version 5 Release 1 host components

If you are allocating new Tivoli NetView for z/OS Version 5 Release 1 libraries run CNMALLOCJ. After running CNMALLOCJ you should proceed to 6.1.9, “Create Hierarchical File System Mount Point Directory.”

- **CNMALLOCJ:**

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

6.1.9 Create Hierarchical File System Mount Point Directory

If you allocated a new HFS data set with CNMALLOCJ, then you can use CNMJMKPJ to create the HFS mount point directory, <PathPrefix>/usr/lpp/netview/, which will be used to mount your target HFS data set. If you did not allocate a new HFS then you can continue with step 6.1.11, “Create Hierarchical File System Directories” on page 42. CNMJMKPJ 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: CNMJMKPJ assumes that the <PathPrefix>/usr/lpp/ directories already exist. If these directories do not exist, manually create the <PathPrefix>/usr/lpp/ directories **before** submitting CNMJMKPJ.

Note: When editing sample CNMJMKPJ, be sure that you use the same <PathPrefix> value when you edit sample CNMDDEFJ. The default value that is shipped with Tivoli NetView for z/OS Version 5 Release 1 is null. Remember that pathnames in z/OS UNIX System Services are case sensitive.

- **CNMJMKPJ:**

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

6.1.10 Mount The Target Hierarchical File System Dataset

If you chose to allocate a new HFS, as defined in sample CNMALLOCJ, then use the following TSO/E command to mount the target HFS dataset that was allocated by sample CNMALLOCJ at the mount point directory:

```
MOUNT FILESYSTEM('hhhhh.NETVIEW.V5R1J.HFS')
      MOUNTPOINT('<PathPrefix>/usr/lpp/netview/')
      TYPE(HFS) MODE(RDWR)
```

'hhhhh.NETVIEW.V5R1J.HFS' is the name of your target HFS dataset and <PathPrefix> is the high-level directory name that will be used in sample CNMDDEFJ. 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 z/OS Installation: Getting Started, SC31-8872*.

6.1.11 Create Hierarchical File System Directories

For Tivoli NetView for z/OS Version 5 Release 1, edit and submit sample CNMJMKXJ which creates HFS directories for z/OS UNIX System Services Related Components in NetView. CNMJMKXJ 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 CNMJMKXJ, be sure that you use the same <PathPrefix> value in sample CNMDDEFJ.

- **CNMJMKXJ:**

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

6.1.12 Create DDDEF Entries

Add the DDDEFs for Tivoli NetView for z/OS Version 5 Release 1 target libraries and distribution libraries (for SMP/E RESTORE processing) to the target zone into which Tivoli NetView for z/OS Version 5 Release 1 will be APPLIED. Also add the DDDEFs for distribution libraries to the distribution zone into which Tivoli NetView for z/OS Version 5 Release 1 will be ACCEPTed.

Run CNMDDEFJ before proceeding. You must make some modifications to CNMDDEFJ before running it.

Note: Because pathnames in z/OS UNIX System Services are case sensitive, be sure when you change <PathPrefix> in the DDDEF7 step not to change the case of any characters in the HFS pathname.

- **CNMDDEFJ:**

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

6.1.13 Perform SMP/E APPLY

Edit and submit the sample job for your installation, CNMAPLYJ, to perform an SMP/E APPLY CHECK for Tivoli NetView for z/OS Version 5 Release 1. Consult the instructions in the sample job for more information. **Note:** There are two PTFs that must be applied either before or with JENV513. They are PTFs UW92582 and UW92583. It is mandatory that you apply these PTFs at this time.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the APPLY CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Once you have taken any actions indicated by the APPLY CHECK, remove the CHECK operand and run the jobs again to perform the APPLY.

Note: The GROUPEXTEND operand indicates that SMP/E apply all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

If you have previously installed NetView or NCCF into target libraries that you will continue to use with Tivoli NetView for z/OS Version 5 Release 1, you will need to let SMP/E remove the old NetView or NCCF from those target libraries at APPLY time. See section 6.1.13.1, “APPLYing Tivoli NetView for z/OS Version 5 Release 1 on a System Having NCCF or” on page 44 for more information.

The APPLY job, CNMAPLYJ will apply one or more FMIDs. You may choose to apply FMIDs individually, or all at once. Make the changes as indicated in the JCL comments contained in CNMAPLYJ (as well as any other changes required by your site) and submit the job. Remember, you must comment out any FMIDs that you will not be applying.

Note: It is **strongly** recommended that you APPLY the NetView components in the order listed in the sample apply job. This is because Tivoli NetView for z/OS Version 5 Release 1 has many dependencies between components. These dependencies will cause unresolved external reference messages to be generated during the APPLY. The correct order for applying is

- HENV510
- JENV512
- JENV513
- JENV515

Note: The CNMAPLYJ 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.

Warning: Because Tivoli NetView for z/OS Version 5 Release 1 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.

- **CNMAPLYJ:**

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

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

6.1.13.1 APPLYing Tivoli NetView for z/OS Version 5 Release 1 on a System Having NCCF or

NetView Already Installed You should do either 6.1.13.1.1, “Deleting a Previous Release of NCCF or NetView” or 6.1.13.1.2, “Running with a Previous Release of NCCF or NetView” on page 45, but not both.

6.1.13.1.1 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 z/OS Version 5 Release 1, but you do not want to continue using this release after your Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Version 5 Release 1.

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 z/OS Version 5 Release 1 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 (CNMDDEFJ). 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 z/OS Installation: Getting Started, SC31-8872*).

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 z/OS Installation: Getting Started, SC31-8872*) before actually APPLYing Tivoli NetView for z/OS Version 5 Release 1.

6.1.13.1.2 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 z/OS Version 5 Release 1 install, you **MUST** use separate SMP/E target zones for your Tivoli NetView for z/OS Version 5 Release 1 install. After your period of testing Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Version 5 Release 1 in a separate CSI(s) or zone(s) from the previous release. Figure 24 lists the releases prior to Tivoli NetView for z/OS Version 5 Release 1.

Figure 24 (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

Figure 24 (Page 2 of 2). NetView FMIDs to delete by Version/Release

Version/Release	MVS/370	MVS/XA	MVS/ESA
TME 10 NetView V1R1	N/A ²	N/A ³	HPZ8200
TME 10 NetView V1R2	N/A ²	N/A ³	HPZ8300
TME 10 NetView V1R3	N/A ²	N/A ³	HPZ8400
Tivoli 10 NetView V1R4	N/A ²	N/A ³	HPZ8500
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
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 25. Additional delete logic

6.1.13.2 Running and Verifying the APPLY of Tivoli NetView for z/OS Version 5 Release 1

Run the apply job CNMAPLYJ. It should end with a return code of 0. If the code is non zero 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: 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.

Depending on the level of OS/390 used, you will receive additional warning and informational messages when you run the APPLY jobs. Most of these are not a problem. Figure 26 lists the messages, and the approximate number of times each message will occur, for each set of FMIDs. This is not meant to be an exact list, as the level of your operating system may cause variations in the results, but is meant to be used as a guide in assessing whether your APPLY ran correctly.

Figure 26. Warning and Informational Messages Received during APPLY

Message Number	HENV510 JENV512	JENV513 JENV515
GIM23913I	4825	1014
GIM23913W	3	0
GIM23914I	0	0
IEW2454W	33	175
IEW2646W	1	0
IEW2651W	1	0
IEW2650I	11	37

6.1.14 Perform SMP/E ACCEPT

Edit and submit the sample job, CNMACPTJ to perform an SMP/E ACCEPT CHECK for Tivoli NetView for z/OS Version 5 Release 1. Consult the instructions in the sample jobs for more information. You may subdivide the ACCEPT job and process one FMID at a time.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the following on the ACCEPT CHECK: PRE, ID, REQ, and IFREQ. This is because the SMP/E root cause analysis identifies the cause only of **ERRORS** and not of **WARNINGS** (SYSMODs that are bypassed are treated as warnings, not errors, by SMP/E).

Before using SMP/E to load new distribution libraries, it is recommended that you set the ACCJCLIN indicator in the distribution zone. This will cause entries produced from JCLIN to be saved in the distribution zone whenever a SYSMOD containing inline JCLIN is ACCEPTed. For more information on the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E manuals.

Once you have taken any actions indicated by the ACCEPT CHECK, remove the CHECK operand and run the job again to perform the ACCEPT.

Note: The GROUPEXTEND operand indicates that SMP/E accept all requisite SYSMODs. The requisite SYSMODs might be applicable to other functions.

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.

Edit and submit sample accept jobs to perform an SMP/E ACCEPT for Tivoli NetView for z/OS Version 5 Release 1. 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 z/OS Version 5 Release 1, you will need to let SMP/E remove the old NetView or NCCF from those distribution libraries at ACCEPT time.

CNMACPTJ, supplied in NETVIEW.V5R1M0.INSTALL will accept one or more FMIDs. You will need to run this job for each FMID for which you did a RECEIVE and APPLY.

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

- **CNMACPTJ:**

Expected Return Codes and Messages from ACCEPT CHECK: The job is considered successful if return code 0 is received.

Expected Return Codes and Messages from ACCEPT: The job is considered successful if return code 0 is received.

6.1.14.1 ACCEPTing Tivoli NetView for z/OS Version 5 Release 1 on a System Having NCCF or

NetView Already Installed You should do either 6.1.14.1.1, "Deleting a Previous Release of NCCF or NetView" or 6.1.14.1.2, "Running with a Previous Release of NCCF or NetView" on page 50, but not both.

6.1.14.1.1 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 z/OS Version 5 Release 1, but you do NOT want to continue using this release after your Tivoli NetView for z/OS Version 5 Release 1 install you will need to let SMP/E remove the old NetView or NCCF from those libraries when SMP/E installs Tivoli NetView for z/OS Version 5 Release 1.

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.

6.1.14.1.2 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 z/OS Version 5 Release 1 install, you MUST use separate SMP/E distribution zones for your Tivoli NetView for z/OS Version 5 Release 1 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 z/OS Version 5 Release 1 in a separate CSI from the previous release. This process is described in 6.1.13.1.2, "Running with a Previous Release of NCCF or NetView" on page 45 and the jobs provided perform the receive, apply, and accept steps.

6.1.15 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.

6.1.15.1 Publications Useful During Installation

The publications listed in Figure 27 may be useful during the installation of Tivoli NetView for z/OS Version 5 Release 1. To order copies, contact your IBM and/or Tivoli representative.

<i>Figure 27. 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

6.1.16 Cleaning Up Obsolete Data Sets, Paths, and DDDEFs

The following data sets, allocated and used by previous releases of this product, are no longer used in this release. You may choose to delete these obsolete data sets after you delete the previous release from your system.

- &HLQ..&SLQ.SEKGCAS1
- &HLQ..&SLQ.AEKGCAS1
- &HLQ..&SLQ.SEKGLUTB
- &HLQ..&SLQ.AEKGLUTB
- &HLQ..&SLQ.SEKGPNL1
- &HLQ..&SLQ.AEKGPNL1
- &HLQ..&SLQ.SEKGSMP1
- &HLQ..&SLQ.AEKGSMP1
- &HLQ..&SLQ.SEKGMOD1
- &HLQ..&SLQ.AEKGMOD1
- &HLQ..&SLQ.SEKGMOD2
- &HLQ..&SLQ.SEKGLNK1
- &HLQ..&SLQ.SEZLCLST
- &HLQ..&SLQ.AEZLCLST
- &HLQ..&SLQ.SEZLINST
- &HLQ..&SLQ.AEZLINST
- &HLQ..&SLQ.SEZLLINK
- &HLQ..&SLQ.AEZLLINK
- &HLQ..&SLQ.SEZLPNLU
- &HLQ..&SLQ.AEZLPNLU
- &HLQ..&SLQ.SEZLSAMP
- &HLQ..&SLQ.AEZLSAMP

The following HFS paths, created and used by previous releases of this product, are no longer used in this release. You may choose to delete these obsolete HFS paths after you delete the previous release from your system.

- /usr/lpp/netview/bin/IBM/
- /usr/lpp/netview/samples/IBM/
- /usr/lpp/netview/lib/IBM/

- /usr/lpp/netview/mibs/IBM/
- /usr/lpp/netview/doc/IBM/
- /usr/lpp/netview/man/C/cat1/IBM/
- /usr/lpp/netview/samples/properties/IBM
- /usr/lpp/netview/samples/properties/startup/IBM

The following DDDEF entries, created and used by previous releases of this product, are no longer used in this release. You may choose to delete these obsolete DDDEF entries after you delete the previous release from your system.

- SEKGCAS1
- AEKGCAS1
- SEKGLUTB
- AEKGLUTB
- SEKGPNL1
- AEKGPNL1
- SEKGSMP1
- AEKGSMP1
- SEKGMOD1
- AEKGMOD1
- SEKGMOD2
- SEKGLNK1
- SEZLCLST
- AEZLCLST
- SEZLINST
- AEZLINST
- SEZLLINK
- AEZLLINK
- SEZLPNLU
- AEZLPNLU
- SEZLSAMP
- AEZLSAMP

6.2 Activating Tivoli NetView for z/OS Version 5 Release 1

The publication *Tivoli NetView for z/OS Installation: Getting Started, SC31-8872* contains the step-by-step procedures to activate the functions of Tivoli NetView for z/OS Version 5 Release 1.

The publication *Tivoli NetView for z/OS Installation: Getting Started, SC31-8872* contains procedures for activating functions of Tivoli NetView for z/OS Version 5 Release 1. For additional information refer to the publications noted in Figure 4 on page 6.

Appendix A. Program Level Information

The following APAR fixes against previous releases of NetView have been incorporated into Tivoli NetView for z/OS Version 5 Release 1:

Contacting Customer Support

For support for this or any Tivoli product, you can contact Tivoli Customer Support in one of the following ways:

Submit a problem management record (PMR) electronically at **IBMSERV/IBMLINK**.

Submit a problem management record (PMR) electronically from our Web site at <http://www.tivoli.com/support>.

Send e-mail to **support@tivoli.com**.

Customers in the United States can also call 1-800-TIVOLI8 (1-800-848-6548).

International customers should consult the Web site for customer support telephone numbers.

You can also review the *Customer Support Handbook*, which is available on our Web site at <http://www.tivoli.com/support/handbook/>.

When you contact Tivoli Customer Support, be prepared to provide identification information for your company so that support personnel can readily assist you. Company identification information may also be needed to access various online services available on the Web site.

The support Web site offers extensive information, including a guide to support services (the Customer Support Handbook); frequently asked questions (FAQs); and documentation for all Tivoli products, including Release Notes, Redbooks, and Whitepapers. The documentation for some product releases is available in both PDF and HTML formats. Translated documents are also available for some product releases.

You can order documentation by e-mail at **swdist@tivoli.com**. Please provide the publication number, part number, or order number of the desired document. Alternatively, you can provide the document title, version number, and date of publication.

We are very interested in hearing about your experience with Tivoli products and documentation. We also welcome your suggestions for improvements. If you have comments or suggestions about our documentation, please contact us in one of the following ways:

Send e-mail to **pubs@tivoli.com**.

Complete our customer feedback survey at <http://www.tivoli.com/support/feedback>.



Printed in U.S.A.

G110-3210-00

