



**Program Directory for  
IBM Tivoli NetView Monitoring for GDPS**

V6.2.00

Program Number 5698-BMP

FMID HNV620S

for Use with  
z/OS

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**Note!**

Before using this information and the product it supports, be sure to read the general information under Appendix A, "Notices" on page 23.

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## 1.0 Introduction

This program directory is intended for system programmers who are responsible for program installation and maintenance. It contains information about the material and procedures associated with the installation of IBM® Tivoli® NetView® Monitoring for GDPS licensed program (5698-BMP). This publication refers to IBM Tivoli NetView Monitoring for GDPS as NetView Monitoring for GDPS.

The Program Directory contains the following sections:

- 2.0, “Program Materials” on page 3 identifies the basic and optional program materials and documentation for NetView Monitoring for GDPS.
- 3.0, “Program Support” on page 6 describes the IBM support available for NetView Monitoring for GDPS.
- 4.0, “Program and Service Level Information” on page 8 lists the APARs (program level) and PTFs (service level) incorporated into NetView Monitoring for GDPS.
- 5.0, “Installation Requirements and Considerations” on page 9 identifies the resources and considerations that are required for installing and using NetView Monitoring for GDPS.
- 6.0, “Installation Instructions” on page 17 provides detailed installation instructions for NetView Monitoring for GDPS. It also describes the procedures for activating the functions of NetView Monitoring for GDPS, or refers to appropriate publications.

Before installing NetView Monitoring for GDPS, read the *CBPDO Memo To Users* and the *CBPDO Memo To Users Extension* that are supplied with this program in softcopy format and this program directory; then keep them for future reference. Section 3.2, “Preventive Service Planning” on page 6 explains how to find any updates to the information and procedures in this Program Directory.

NetView Monitoring for GDPS is supplied in a Custom-Built Product Delivery Offering (CBPDO, 5751-CS3). The Program Directory that is provided in softcopy format on the CBPDO tape is identical to the hardcopy format if one was included with your order. All service and HOLDDATA for NetView Monitoring for GDPS are included on the CBPDO tape.

Do not use this program directory if you install NetView Monitoring for GDPS with a SystemPac® or ServerPac. When you use these offerings, use the job and documentation supplied with the offering. The offering will point you to specific sections of this program directory as needed.

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## 1.1 NetView Monitoring for GDPS Description

NetView Monitoring for GDPS provides monitoring and automation services for the GDPS Active/Active Continuous Availability solution. For information about the solution, see *IBM Tivoli NetView for z/OS Installation: Configuring the GDPS Active/Active Continuous Availability Solution*.

NetView Monitoring for GDPS is packaged as a separate Function Modification Identifier (FMID) that is SMP/E installable.

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## 1.2 NetView Monitoring for GDPS FMID

NetView Monitoring for GDPS consists of a single FMID: HNV620S.

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## 2.0 Program Materials

An IBM program is identified by a program number. The program number for NetView Monitoring for GDPS is 5698-BMP.

Basic machine-readable materials are materials that are supplied under the base license and feature numbers, and are required for the use of the product. Optional machine-readable materials are orderable under separate feature numbers, and are not required for the product to function.

The program announcement material describes the features that are supported by NetView Monitoring for GDPS. Ask your IBM representative for this information if you have not already received a copy.

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### 2.1 Basic Machine-Readable Material

The distribution medium for this program is physical media or downloadable files. This program is in SMP/E RELFILE format and is installed by using SMP/E. See 6.0, "Installation Instructions" on page 17 for more information about how to install the program.

You can find information about the physical media for the basic machine-readable materials for NetView Monitoring for GDPS in the *CBPDO Memo To Users Extension*.

#### Notes:

1. The data set attributes in this table must be used in the JCL of jobs that read the data sets. However, because the data sets are in unloaded format, their actual attributes might be different.
2. If any RELFILEs are identified as PDSEs, ensure that SMPTLIB data sets are allocated as PDSEs.

Figure 1. Program File Content Base tape

Name	ORGANIZATION	RECFM	RECL	BLK SIZE
SMPMCS	SEQ	FB	80	8800
HNV620S.F1	PDS	FB	80	8800

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### 2.2 Optional Machine-Readable Material

No optional machine-readable materials are provided for NetView Monitoring for GDPS.

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## 2.3 Program Publications

The following sections identify the basic publications for NetView Monitoring for GDPS.

Figure 2 on page 4 identifies the basic unlicensed publications for NetView Monitoring for GDPS. Publications can be accessed at the IBM Publications Center website at <http://www.ibm.com/shop/publications/order>.

<i>Figure 2. Basic Material: Unlicensed</i>		
<b>Publication Title</b>	<b>Form Number</b>	<b>Media Format</b>
<i>Tivoli NetView Monitoring for GDPS Release Notes.</i>	GC27-4100-00	web

The NetView Monitoring for GDPS product information and all other Tivoli product information can be found at the Tivoli Information Center:

<http://publib.boulder.ibm.com/tividd/td/tdprodlist.html>

### 2.3.1 Optional Program Publications

No optional publications are provided for NetView Monitoring for GDPS.

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## 2.4 Program Source Materials

No program source materials or viewable program listings are provided for NetView Monitoring for GDPS.

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## 2.5 Publications That Are Useful During Installation

You might want to use the publications that are listed in Figure 3 during the installation of NetView Monitoring for GDPS. To order copies, contact your IBM representative or visit the IBM Publications Center at: <http://www.ibm.com/e-business/linkweb/publications/servlet/pbi.wss>

<i>Figure 3 (Page 1 of 2). Publications Useful During Installation</i>	
<b>Publication Title</b>	<b>Form Number</b>
<i>IBM SMP/E for z/OS User's Guide</i>	SA22-7773
<i>IBM SMP/E for z/OS Commands</i>	SA22-7771
<i>IBM SMP/E for z/OS Reference</i>	SA22-7772
<i>IBM SMP/E for z/OS Messages, Codes, and Diagnosis</i>	GA22-7770



*Figure 3 (Page 2 of 2). Publications Useful During Installation*

<b>Publication Title</b>	<b>Form Number</b>
<i>MVS™ Custom-Built Offering Planning and Installation</i>	SC23-0352

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## 3.0 Program Support

This section describes the IBM support that is available for NetView Monitoring for GDPS.

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### 3.1 Program Services

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

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### 3.2 Preventive Service Planning

Before you install NetView Monitoring for GDPS, make sure that you have reviewed the current Preventive Service Planning (PSP) information. Review the PSP Bucket for General Information, Installation Documentation, and the Cross Product Dependencies sections. This service includes software PSP information (TIVNETV620) that contains HIPER and required PTFs against the base release. For the Recommended Service section, instead of reviewing the PSP Bucket, it is recommended you use the IBM.ProductInstall-RequiredService fix category in SMP/E to ensure you have all the recommended service installed. Use the **FIXCAT(IBM.ProductInstall-RequiredService)** operand on the **APPLY CHECK command**. See 6.1.8, "Perform SMP/E APPLY" on page 19 for a sample APPLY command.

If you obtained NetView Monitoring for GDPS as part of a CBPDO, HOLDDATA is included.

If the CBPDO for NetView Monitoring for GDPS is older than two weeks by the time you install the product materials, you can obtain the latest PSP Bucket information by going to:  
<http://www14.software.ibm.com/webapp/set2/psearch/search?domain=psp>

You can also use S/390 SoftwareXcel or contact the IBM Support Center to obtain the latest PSP Bucket information.

For program support, access the Software Support Web site at:  
<http://www.ibm.com/software/support/>

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 NetView Monitoring for GDPS are included in Figure 4.

*Figure 4. PSP Upgrade and Subset ID*

UPGRADE	SUBSET	Description
TIVNETV620	HNV620S	NetView Monitoring for GDPS

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### 3.3 Statement of Support Procedures

Report any problems that you think might be an error in the product materials to your IBM Support Center. You might be asked to gather and submit additional diagnostics to assist the IBM Support Center in their analysis.

Figure 5 on page 7 identifies the component IDs (COMPID) for NetView Monitoring for GDPS.

<i>Figure 5. Component IDs</i>			
<b>FMID</b>	<b>COMPID</b>	<b>Component Name</b>	<b>RETAIN Release</b>
HNV620S	5697NV620	NetView Monitoring for GDPS	20S

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## 4.0 Program and Service Level Information

This section identifies the program and any relevant service levels of NetView Monitoring for GDPS. The program level refers to the APAR fixes that were incorporated into the program. The service level refers to the PTFs that were incorporated into the program.

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### 4.1 Program Level Information

No APARs were incorporated into NetView Monitoring for GDPS.

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### 4.2 Service Level Information

No PTFs against this release of NetView Monitoring for GDPS were incorporated into the product package.

Frequently check the NetView Monitoring for GDPS PSP Bucket for HIPER and SPECIAL attention PTFs against all FMIDs that you must install. You can also receive the latest HOLDDATA, then add the **FIXCAT(IBM.PRODUCTINSTALL-REQUIRESERVICE)** operand on your APPLY CHECK command. You can then review the recommended and critical service that should be installed with your FMIDs.

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## 5.0 Installation Requirements and Considerations

The following sections identify the system requirements for installing and activating NetView Monitoring for GDPS. The following terminology is used:

- *Driving system*: the system on which SMP/E is executed to install the program.

The program might have specific operating system or product level requirements for using processes, such as binder or assembly utilities during the installation.

- *Target system*: The system on which the program is configured and runs.

The program might have specific product level requirements, such as requiring access to the library of another product for link-edits. These requirements, either mandatory or optional, might directly affect the element during the installation or in its basic or enhanced operation.

In many cases, you can use a system as both a driving system and a target system. However, you can make a separate clone that you can IPL of the running system to use as a target system. The clone must 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 data sets.

Use separate driving and target systems in the following situations:

- When you install a new level of a product that is already installed, the new level of the product replaces the old one. By installing the new level onto a separate target system, you can test the new level and keep the old one in production at the same time.
- When you install a product that shares libraries or load modules with other products, the installation can disrupt the other products. By installing the product onto a separate target system, you can access these impacts without disrupting your production system.

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### 5.1 Driving System Requirements

This section describes the environment of the driving system that is required to install NetView Monitoring for GDPS.

#### 5.1.1 Machine Requirements

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

#### 5.1.2 Programming Requirements

Figure 6. Driving System Software Requirements

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
Any <b>one</b> of the following:				
5694-A01	z/OS	V01.12.00	N/A	No
5655-G44	IBM SMP/E for z/OS	V03.05.00	N/A	No

**Note:** Installation might require migration to new z/OS releases to be service supported. See [http://www-03.ibm.com/systems/z/os/zos/support/zos\\_eos\\_dates.html](http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html).

## 5.2 Target System Requirements

This section describes the environment of the target system that is required to install and use NetView Monitoring for GDPS.

### 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 Installation Requisites

Installation requisites identify products that are required by and *must* be present on the system or products that are not required by but *can* be present on the system for the successful installation of this product.

Mandatory installation requisites identify products that are required on the system for the successful installation of this product. These products are specified as PREs or REQs.

Figure 7 (Page 1 of 2). Target System Mandatory Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5697-NV6	IBM Tivoli NetView for z/OS	V6R2	N/A	No

Figure 7 (Page 2 of 2). Target System Mandatory Installation Requisites

Program Number	Product Name	Minimum VRM	Minimum Service Level will satisfy these APARs	Included in the shipped product?
5698-A79	IBM Tivoli Management Services on z/OS (see note 1)	v6.3.0 Fixpack 1	N/A	No
<p><b>Note:</b> (1) The Tivoli NetView Monitoring for GDPS program requires the IBM Tivoli Management Services on z/OS product. Tivoli Management Services is a mandatory requisite only if your order is for a Tivoli Management Services ServerPac. If Tivoli Management Services is packaged with your order, but you do not need this product, you can choose to ignore this product installation or manually remove the product using SMP/E.</p>				

**Note:** Installation might require migration to new z/OS releases to be service supported. See [http://www-03.ibm.com/systems/z/os/zos/support/zos\\_eos\\_dates.html](http://www-03.ibm.com/systems/z/os/zos/support/zos_eos_dates.html).

### 5.2.2.2 Operational Requisites

Operational requisites are products that are required by and *must* be present on the system or products that are not required by but *can* be present on the system for this product to operate all or part of its functions.

Mandatory operational requisites identify products that are required for this product to operate its basic functions. These products are specified as PREs or REQs.

NetView Monitoring for GDPS has no mandatory operational requisites.

Conditional operational requisites identify products that are *not* required for this product to operate its basic functions but are required at run time for this product to operate specific functions. These products are specified as IF REQs.

NetView Monitoring for GDPS has no conditional operational requisites.

### 5.2.2.3 Toleration/Coexistence Requisites

Toleration/coexistence requisites identify products that must be present on sharing systems. 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 environment at different time intervals.

NetView Monitoring for GDPS has no toleration/coexistence requisites.

### 5.2.2.4 Incompatibility (Negative) Requisites

Negative requisites identify products that must *not* be installed on the same system as this product.

NetView Monitoring for GDPS has no negative requisites.

### 5.2.3 DASD Storage Requirements

NetView Monitoring for GDPS libraries can reside on all supported DASD types.

Figure 8 lists the total space that is required for each type of library.

<i>Figure 8. Total DASD Space Required by NetView Monitoring for GDPS</i>	
<b>Library Type</b>	<b>Total Space Required in 3390 Trks</b>
Target	1 track
Distribution	1 track

#### Notes:

1. For non-RECFM U data sets, use system-determined block sizes for efficient DASD utilization. For RECFM U data sets, use a block size of 32760, which is most efficient for performance and DASD utilization.
2. Abbreviations used for data set types are shown as follows.

- U** Unique data set, allocated by this product and used by only this product. This table provides all the required information to determine the correct storage for this data set. You do not have to refer to other tables or program directories for the data set size.
- S** Shared data set, allocated by this product and used by this product and other products. To determine the correct storage required for this data set, add the storage size that is specified in this table to the sizes in 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 other products. This data set is *not* allocated by this product. To determine the correct storage for this data set, add the storage size that is specified in this table to the sizes in other tables (perhaps in other program directories). If the data set already exists, it must have enough free space to accommodate the storage size that is specified in this table.

If you have a previous release of this product installed in these libraries, the installation of this release deletes the old release and reclaims the space used by the old release and any service that had been installed. You can determine whether 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, see 6.1.6, “Allocate SMP/E Target and Distribution Libraries” on page 19.

3. Abbreviations used for the file system path type are as follows.

- N** New path, created by this product
- X** Path created by this product, but might 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 can be changed.
- The default block size of the data set can be changed.
- The data set can be merged with another data set that has equivalent characteristics.
- The data set can be either a PDS or a PDSE data set.

5. All target libraries listed have the following attributes:

- These data sets can be SMS-managed, but they are not required to be SMS-managed.
- These data sets are not required to reside on the IPL volume.
- The values in the Member Type column might not be the actual SMP/E element types that are identified in the SMPMCS.

6. All target libraries that are listed and contain load modules have the following attributes:

- These data sets can be in the LPA, but they are not required to be in the LPA.
- These data sets can be in the LNKLIST.
- These data sets are not required to be APF-authorized.

Figure 9 shows the storage requirements estimate 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 9. Storage Requirements for SMPCSI Data Sets for SMP/E for NetView Monitoring for GDPS</i>		
<b>DASD</b>	<b>Tracks Required for SMPCSI Data</b>	<b>Tracks Required for SMPCSI Index</b>
3390	5	1

The following figures describe the target and distribution libraries and file system paths that are required to install NetView Monitoring for GDPS. The storage requirements of NetView Monitoring for GDPS must be added to the storage required by other programs having data in the same library or path.

**Note:** Use the data in these tables to determine which libraries can be merged into common data sets. Also, because some ALIAS names might not be unique, ensure that no naming conflicts will be introduced before merging libraries.

Figure 10. Storage Requirements for SMP/E Work 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
SMPWRK1	S	PDS	FB	80	10	250
SMPWRK2	S	PDS	FB	80	10	250
SMPWRK3	S	PDS	FB	80	10	250
SMPWRK4	S	PDS	FB	80	10	250
SMPWRK6	S	PDS	FB	80	25	250
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 that is required in the SMP/E data sets for NetView Monitoring for GDPS. Add the estimates to those of any other programs and service that you install to determine the total additional storage requirements.

Figure 11. Storage Requirements for SMP/E Work 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
SMPMTS	S	PDS	FB	80	1	1
SMPPTS	S	PDS	FB	80	24	1
SMPSCDS	S	PDS	FB	80	8	5
SMPSTS	S	PDS	FB	80	1	1

The following figures describe the target and distribution libraries required to install NetView Monitoring for GDPS. The storage requirements of NetView Monitoring for GDPS must be added to the storage required by other programs having data in the same library.

**Note:** Use the data in these tables when determining which of the libraries can be merged into common data sets. Because some ALIAS names might not be unique, ensure that you do not introduce naming conflicts before you merge the libraries.

Figure 12. Storage Requirements for NetView Monitoring for GDPS 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
SAQNPARM	CLIST	ANY	E	PDS	FB	80	1	1

Figure 13. Storage Requirements for NetView Monitoring for GDPS 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
AAQNPARM	E	PDS	FB	80	1	1

### 5.3 FMIDs Deleted

Installing NetView Monitoring for GDPS might result in the deletion of other FMIDs. To see the FMIDs that will be deleted, examine the ++VER statement in the SMPMCS of the product.

If you do not want to delete these FMIDs at this time, install NetView Monitoring for GDPS into separate SMP/E target and distribution zones.

**Note:** These FMIDs are not automatically deleted from the Global Zone. If you want to delete these FMIDs from the Global Zone, use the SMP/E REJECT NOFMID DELETEFMID command. See the SMP/E Commands book for details.

### 5.4 Special Considerations

To effectively manage a suite of products with common components, you can install products into a shared consolidated software inventory (CSI). Space requirements are reduced by installing products into a shared CSI, avoiding duplication when different target zones, distribution zones, and data sets are used. When a common set of zones are shared, SMP/E can automatically manage IFREQ situations that exist across product components.

## 5.4.1 Tivoli NetView Monitoring for GDPS

The NetView Monitoring for GDPS requires IBM Tivoli Management Services on z/OS V6.3.0 Fixpack 1. For information about this product, see the *Program Directory for IBM Tivoli Management Services on z/OS V6.3.0*, GI11-4105-04.

You are now aware of all of the installation requirements for NetView Monitoring for GDPS. Proceed to 6.0, "Installation Instructions" on page 17 to begin your product installation.

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## 6.0 Installation Instructions

This chapter describes the installation method and the procedures to install and to activate the functions of NetView Monitoring for GDPS.

If you obtained NetView Monitoring for GDPS as part of a CBPDO, you can use the RIMLIB job on the CBPDO tape to run the SMP/E RECEIVE and any service, HOLDDATA, or preventive service planning (PSP) information included on the CBPDO tape. For more information about the RIMLIB job, refer to the *MVS CBPDO Memo to User Extension* that is included with the CBPDO.

If you obtained NetView Monitoring for GDPS as part of a DVD CBPDO (rather than tape), review the *MVS Custom-Built DVD CBPDO Memo to Users* before you begin installation. The DVD contains files similar to those included with a tape delivery, along with other documentation and samples useful for DVD installation. For details on the steps required to transfer files from the DVD, see 6.1.1, “Transferring Files from the DVD to z/OS Data Sets” on page 18.

This release of the NetView Monitoring for GDPS 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 SMP/E 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*.

Note the following points:

- If you want to install NetView Monitoring for GDPS 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. Additionally, to assist you in doing this, IBM has provided samples to help you create an SMP/E environment at:  
<http://www.ibm.com/support/docview.wss?rs=660&context=SSZJDU&uid=swg21066230>
- You can use the sample jobs that are provided to perform part or all of the installation tasks. The SMP/E jobs assume that all DDDEF entries that are required for SMP/E execution have been defined in appropriate zones.
- You can use the SMP/E dialogs instead of the sample jobs to accomplish the SMP/E installation steps.

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### 6.1 Installing NetView Monitoring for GDPS

## 6.1.1 Transferring Files from the DVD to z/OS Data Sets

If you received the NetView Monitoring for GDPS on DVD media, follow the instructions found in the readme file (*MVS Custom-Built DVD CBPDO Memo to Users*) that is available on the DVD. Included in the readme file are instructions for the following transfer methods:

- FTP files from a workstation

The information in this section supplements the instructions found in the readme file for using FTP to transfer files from a workstation.

- Using the sample RFNJOB job

The RFNJOB job issues an SMP/E RECEIVE FROMNETWORK command. For more information on this job, see the readme file.

To transfer files from the DVD without using the supplied RFNJOB job, follow these steps:

1. Define directories in your z/OS UNIX System Services file system that will be used to contain the NetView product files.
2. FTP the product files from the DVD on a workstation to the UNIX environment on a z/OS host system. The *MVS Custom-Built DVD CBPDO Memo to Users* includes an example for using FTP to transfer the files.
3. Create a GIMUNZIP job to extract the program files and allocate data sets on a volume. The DVD contains a sample GIMUNZIP job that you can edit and run. For information on using the GIMUNZIP utility, see the *IBM SMP/E for z/OS Reference Guide*.
4. If you are installing into an existing SMP/E environment, you can proceed directly to 6.1.4, "SMP/E Options Subentry Values" on page 19. Otherwise, continue with 6.1.2, "SMP/E Considerations for Installing NetView Monitoring for GDPS."

## 6.1.2 SMP/E Considerations for Installing NetView Monitoring for GDPS

Use the SMP/E RECEIVE, APPLY, and ACCEPT commands to install this release of NetView Monitoring for GDPS.

## 6.1.3 SMP/E CSI for NetView Monitoring for GDPS

Install NetView Monitoring for GDPS into an existing IBM Tivoli NetView for z/OS Consolidated Software Inventory (CSI). For information on how to do this, see the *IBM SMP/E for z/OS User's Guide*.

## 6.1.4 SMP/E Options Subentry Values

The recommended values for certain SMP/E CSI subentries are shown in Figure 14 on page 19. Using values that are lower than the recommended values can result in failures in the installation. DSSPACE is a subentry in the GLOBAL options entry. PEMAX is a subentry of the GENERAL entry in the GLOBAL options entry. See the SMP/E manuals for instructions on updating the global zone.

<i>Figure 14. SMP/E Options Subentry Values</i>		
<b>SUB-ENTRY</b>	<b>Value</b>	<b>Comment</b>
DSSPACE	(300,600,1200)	Use 1200 directory blocks
PEMAX	SMP/E Default	IBM recommends using the SMP/E default for PEMAX.

## 6.1.5 Perform SMP/E RECEIVE

Perform an SMP/E RECEIVE for NetView Monitoring for GDPS.

If you obtained NetView Monitoring for GDPS as part of a CBPDO, use the RCVPDO job in the CBPDO RIMLIB data set to receive the NetView Monitoring for GDPS FMIDs, service, and HOLDDATA that are included on the CBPDO tape. For information on the RCVPDO job, see the documentation that is included in the CBPDO.

If your delivery media is a DVD, your SMPMCS and refile data will be in MVS data set format on DASD volumes. Ensure that the SMPPTFIN DD statement in the RECEIVE job specifies the SMPMCS data set for the installation of this product.

## 6.1.6 Allocate SMP/E Target and Distribution Libraries

All data sets that are used by NetView Monitoring for GDPS are allocated by the IBM Tivoli NetView for z/OS product, so no new allocations are required.

## 6.1.7 Create DDDEF Entries

All DDDEF entries used by NetView Monitoring for GDPS are created by the IBM Tivoli NetView for z/OS product, so no new DDDEF entries are required.

## 6.1.8 Perform SMP/E APPLY

Perform an SMP/E APPLY CHECK for NetView Monitoring for GDPS.

The latest HOLDDATA is available through several different portals, including <http://service.software.ibm.com/holddata/390holddata.html>. The latest HOLDDATA may identify HIPER and FIXCAT APARs for the FMIDs you will be installing. An APPLY CHECK will help you determine if any HIPER or FIXCAT APARs are applicable to the FMIDs that you are installing. If there are any applicable

HIPER or FIXCAT APARs, the APPLY CHECK will also identify fixing PTFs that will resolve the APARs, if a fixing PTF is available.

Install the FMIDs regardless of the status of unresolved HIPER or FIXCAT APARs. However, do not deploy the software until the unresolved HIPER and FIXCAT APARs have been analyzed to determine their applicability. That is, before deploying the software, either ensure fixing PTFs are applied to resolve all HIPER or FIXCAT APARs, or ensure the problems reported by all HIPER or FIXCAT APARs are not applicable to your environment.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the APPLY CHECK. This is because the SMP/E root cause analysis identifies the cause only of *errors* and not of *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings, instead of errors).

Here are sample APPLY commands:

1. To ensure that all recommended and critical service is installed with the FMIDs, receive the latest HOLDDATA and use the APPLY CHECK command as follows:

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND .
```

Some HIPER APARs might not have fixing PTFs available yet. Analyze the symptom flags for the unresolved HIPER APARs to determine if the reported problem is applicable to your environment and if you should bypass the specific ERROR HOLDS in order to continue the installation of the FMIDs.

This method requires more initial research, but can provide resolution for all HIPERs that have fixes available and are not in a PE chain. Unresolved PEs or HIPERs might still exist and require the use of BYPASS.

2. To install the FMIDs without regard for unresolved HIPER APARs, you can add the BYPASS(HOLDCLASS(HIPER)) operand to the APPLY CHECK command. You can then install FMIDs even though one or more unresolved HIPER APARs exist. After the FMIDs are installed, use the SMP/E REPORT ERRSYSMODS command to identify unresolved HIPER APARs and any fixing PTFs.

```
APPLY S(fmid,fmid,...) CHECK
FORFMID(fmid,fmid,...)
SOURCEID(RSU*)
FIXCAT(IBM.ProductInstall-RequiredService)
GROUPEXTEND
BYPASS(HOLDCLASS(HIPER)) .
..any other parameters documented in the program directory
```

This method is the quicker, but requires subsequent review of the Exception SYSMOD report produced by the REPORT ERRSYSMODS command to investigate any unresolved HIPERs. If you received the latest HOLDDATA, you can also choose to use the REPORT MISSINGFIX command and specify Fix Category IBM.ProductInstall-RequiredService to investigate missing recommended service.



If you bypass HOLDS during the installation of the FMIDs because fixing PTFs are not yet available, you can be notified when the fixing PTFs are available by using the APAR Status Tracking (AST) function of ServiceLink or the APAR Tracking function of ResourceLink.

After you take actions that are indicated by the APPLY CHECK, remove the CHECK operand and run the job again to perform the APPLY.

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

**Expected Return Codes and Messages from APPLY CHECK:** This job is successful if you receive a return code of 0.

**Expected Return Codes and Messages from APPLY:** This job is successful if you receive a return code of 0.

After installing new function, you should perform two operations:

1. Create a backup of the updated data sets, including any SMP/E data sets affected, in case something happens to the data sets during the next phase.
2. Do some testing before putting the new function into production.

After you are satisfied that an applied SYSMOD has performed reliably in your target system, you can install it in your distribution libraries using the ACCEPT process.

Another good practice is to accept most SYSMODs, particularly FMIDs, before performing another APPLY process. You can then use the RESTORE process of SMP/E and to support the scenario where SMP/E needs to create a new load module from the distribution libraries during the APPLY process.

## 6.1.9 Perform SMP/E ACCEPT

Perform an SMP/E ACCEPT CHECK for NetView Monitoring for GDPS.

To receive the full benefit of the SMP/E Causer SYSMOD Summary Report, do *not* bypass the PRE, ID, REQ, and IFREQ on the ACCEPT CHECK. This is because the SMP/E root cause analysis identifies the cause of only *errors* but not *warnings* (SMP/E treats bypassed PRE, ID, REQ, and IFREQ conditions as warnings rather than errors).

Before you use SMP/E to load new distribution libraries, set the ACCJCLIN indicator in the distribution zone. In this way, you can save the entries that are produced from JCLIN in the distribution zone whenever a SYSMOD that contains inline JCLIN is accepted. For more information about the ACCJCLIN indicator, see the description of inline JCLIN in the SMP/E Commands book.

After you take actions that are 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 accepts all requisite SYSMODs. The requisite SYSMODS might be applicable to other functions.

**Expected Return Codes and Messages from ACCEPT CHECK:** This job is successful if you receive a return code of 0.

If PTFs that contain replacement modules are accepted, SMP/E ACCEPT processing link-edits or binds the modules into the distribution libraries. During this processing, the Linkage Editor or Binder might issue messages that indicate unresolved external references, which will result in a return code of 4 during the ACCEPT phase. You can ignore these messages because the distribution libraries are not executable and the unresolved external references do not affect the executable system libraries.

**Expected Return Codes and Messages from ACCEPT if no PTFs are being installed:** This job is successful if you receive a return code of 0.

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## 6.2 Activating NetView Monitoring for GDPS

*Tivoli NetView Monitoring for GDPS Release Notes* contains procedures to activate the functions of NetView Monitoring for GDPS.

The NetView Monitoring for GDPS product information and all other Tivoli product information can be found at the Tivoli Information Center:

<http://publib.boulder.ibm.com/tividd/td/tdprodlist.html>

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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 IBM Customer Support Center or use S/390 SoftwareXcel to obtain the current "PSP Bucket".

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