SH19-4151-00

NetView Distribution Manager Easy Preparer for OS/2

User's Guide

Release 1

IBM

SH19-4151-00

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User's Guide

Release 1

Note!

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

ISO 9001 Certification

This product was developed using an ISO 9001 certified quality system.

Certification has been awarded by the Italian quality system certification group, CSQ (Certification No. CISQ/CSQ 9151.IBM1).

CSQ is a member of the mutually recognized organization of European assessors, ITQS, which assesses and certifies quality systems in the field of information technology enterprises.

First Edition (March 1995)

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README.TXT File

A README.TXT file is included on the NetView DM EasyPrep diskettes. The README.TXT file contains information about enhancements or changes made to NetView DM EasyPrep after the publication went to press. It is recommended that you read it with the book.

Click on the Read Me! icon in the NetView DM EasyPrep folder for online access to the README.TXT file.

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Programming Interface Information

This book documents General-Use Programming Interface and Associated Guidance Information provided by NetView DM EasyPrep. General-Use Programming Interfaces allow the customer to write programs that obtain the services of NetView DM EasyPrep.

General-Use Programming Interface and Associated Guidance Information is identified where it occurs by an introductory statement in a chapter.

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About This Book

This manual provides the information necessary for using NetView Distribution Manager Easy Preparer for OS/2 (NetView DM EasyPrep).

Who Should Use This Book

This book is intended for people who use NetView DM/2 to build software packages for distribution to and installation on workstations. It explains how to use NetView DM EasyPrep to simplify the preparation of response files, change files, modification files, and boot diskettes, and the partitioning and formatting of hard disks on client workstations. This book is also intended for people who install, customize, and support NetView DM/2 in their organization. It explains how to install NetView DM EasyPrep and make it operational with NetView DM/2.

To use this book effectively, you should be familiar with NetView DM/2 and with IBM's configuration, installation, and distribution (CID) methodology. You should, for example, understand the terms *response file, change file, modification file, catalog, CC server, CC client, CC single node,* and *remote administrator* as they are used in NetView DM/2. If you need information about fundamental NetView DM/2 and CID concepts, see the NetView DM/2 *Concepts and Overview* book.

How This Book Is Organized

This book consists of:

Chapter 1, “Introducing NetView DM EasyPrep” on page 1, provides an overview of NetView DM EasyPrep concepts.

Chapter 2, “Installing NetView DM EasyPrep” on page 9, takes you through the procedure for installing NetView DM EasyPrep.

Chapter 3, “Using NetView DM EasyPrep” on page 23, provides information on using NetView DM EasyPrep to create response files, change files, modification files, and boot diskettes.

Chapter 4, “Using NetView DM EasyPrep Sample Files” on page 53, explains how to access and use the sample model response files, software library definition files, and workstation description files that come on the product diskettes.

Chapter 5, “Scenario: Preparing Response Files and Change Files To Install A Pristine CC Client” on page 59, takes you through a NetView DM EasyPrep scenario. At the beginning of the scenario, you have:

- A preparation site with NetView DM EasyPrep newly installed
- A pristine CC client–a workstation with no software at all installed.

At the end of the scenario you have five products installed on the new CC client: OS/2 Version 3.0 Full Pack, LAPS, CM/2, NetView DM/2 CC client, and DB2/2 client.

Chapter 6, “Building Model Response Files and Model Workstation Description Files” on page 71, provides information on how to create new model response files and workstation description files.

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Appendix A, “Database Layout” on page 89, describes the table layout of the response file generator relational database, where NetView DM EasyPrep stores information about workstations and software products.

Appendix B, “How NetView DM EasyPrep Names Change Files” on page 93, explains the naming convention NetView DM EasyPrep uses when it generates change files.

Appendix C, “Changing Installation Parameters and Defaults” on page 95, explains how to change various default directories after installation.

A bibliography of related publications that may assist you in the installation and use of NetView DM EasyPrep, a glossary of terms, and an index are also provided at the back of the book.

Online Information

When you are using NetView DM EasyPrep and require help, there are a number of ways to obtain it:

Dialog help
Dialog message help
Online manuals

Dialog Help

The windows in the NetView DM EasyPrep dialogs have contextual help for:

Each choice in the menu bar and in the pull-down menus
Each window
Each field in a window

You can view a help window in the following ways:

For a choice in the menu bar or in a pull-down menu, position the cursor on the choice and press F1.

For a window, select **Extended Help** from the **Help** pull-down of the window, or press F2 while in Help.

For a field in a window, move the cursor to the field and select the **Help** push button, or press F1.

Dialog Message Help

Most NetView DM EasyPrep messages appear in a pop-up window. If the pop-up window has a **Help** push button, select it to view a help window giving an explanation of the message.

The **Messages** icon in the NetView DM EasyPrep folder gives explanations of all the NetView DM EasyPrep messages. Click on a specific message to view help for that message.

Online Manual

This publication is available in softcopy form on the product diskettes. You can display it with a BookManager product or with IBM Library Reader, which is also on the diskettes. For information about installing the online manual and Library Reader, see “Selecting Components and Directories” on page 11

Manual on CD-ROM

The displayable online manual is available as part of the IBM Networking Systems Softcopy Collection Kit on CD-ROM, SK2T-6012, available at a later date.

Customers currently licensed for IBM Networking Software products are entitled to a free copy of the CD-ROM Collection Kit, which is available on request. Extra copies of the CD-ROM collection kits can be ordered for an annual subscription charge.

Terminology Used in This Book

In this book the generic term *workstation* is used to represent the IBM Personal System/2 computer.

The term *DOS workstation* is used to refer to a workstation running the DOS operating system with or without Microsoft Windows.

This book uses the following terminology conventions:

NetView DM EasyPrep refers to NetView Distribution Manager Easy Preparer for OS/2.

OS/2 refers to IBM Operating System/2.

OS/2 LAN Server refers to the IBM Operating System/2 Local Area Network Server Program Version 1.3 or later.

ES refers to Extended Services for OS/2.

LAN Requester refers to the LAN Requester component of OS/2 Extended Edition.

DOS refers to IBM DOS 3.3 or later.

LAN adapter refers to an IBM Token-Ring Network adapter, IBM PC network adapter, or one of the ETHERAND network adapters supported by IBM.

CDM refers to the Change Distribution Manager.

NetView DM for MVS refers to NetView Distribution Manager for MVS Release 6.

Notation Used in This Book

This book uses the following notation in text:

Bold	Bold print indicates something you click on or select, such as a menu option, field, or push button.
Italics	Italic print is used for introducing new terms in the text or for emphasis. In syntax diagrams, it is used for the names of variables for which you must substitute an appropriate value.

UPPERCASE	Uppercase letters are used for commands and for directory, device, and file names.
Monospacing	Monospacing indicates system messages and examples.
<*angle brackets*>	Angle brackets are used to enclose the names of variables for which you must substitute an appropriate value.

Syntax Notation Used in this Book

The syntax diagrams used in this book graphically represent command and file syntax.

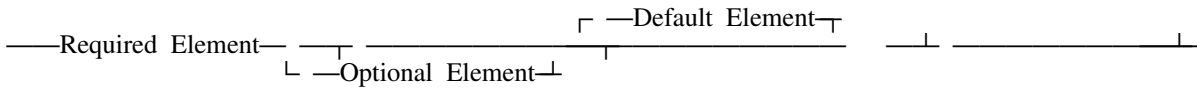
Read syntax diagrams from left to right and top to bottom, following the *main path*. The main path begins with the symbol ——— and ends with the symbol ——— . If the main path must be split across two lines on the page, the symbol ——— indicates the main line continues on the next line, and the symbol ——— marks the start of the continuation.

Required parameters appear along the main path; optional parameters off the main path.

Diagram Elements

A syntax diagram contains elements that represent parts of a command, such as parameter names, special characters, and values. The lines and arrows in a diagram symbolize the way these elements are combined in a valid command. Groups of diagram elements show the syntax for a parameter or show that you have a choice in the word or value you use.

A diagram element's attribute (required, optional, or default) is indicated by the element's position in relation to the *main syntax line*, the one line that runs throughout the entire diagram. Required elements appear on the main syntax line, optional elements appear below the main syntax line, and default elements appear above the main syntax line:



Each diagram element has its own characteristics. To identify an element, look at its type style and position among other elements or groups of elements. The diagram elements are:

- Keywords
- Variables
- Delimiters
- Separators
- Repeat separators

Keywords

A *keyword* is a word you actually type, such as a command or parameter name. Keywords appear in uppercase regular type:

——KEYWORD——

You can code keywords in uppercase, lowercase, or any combination of the two.

If a keyword contains more than one word, code the space between the words as they appear in the diagram:

——KEY WORD——

Variables

A *variable* is a string of lowercase characters that represents a name or value you substitute when you code the command. Variables appear in italics:

——*variable*——

Some variables are multiple-word strings. These strings contain an underscore to separate the words:

——*dte_address*——

Valid names and values that you supply do not include underscores.

Delimiters

A *delimiter* is a character or symbol that marks the beginning or end of a group of keywords, variables, or groups. In this book, braces ({ }) and parentheses are used as delimiters:

——CommandName——{— —*var1*— —*var2*— —}——

You must code delimiters as they appear in the diagrams.

Separators

A *separator* is a character or symbol that separates keywords, variables, operators, or groups. In this book, commas and periods are used as separators:

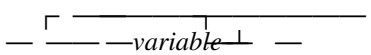
— —ParameterName=*{variable_one*,*variable_two*,*variable_three*} — —

You must code separators as they appear in the diagrams. Do not code surrounding spaces unless they appear in the diagram:

— —ParameterName=*{variable_one* , *variable_two* , *variable_three*} — —

Repeat Separators

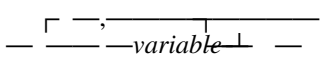
A *repeat separator* is a returning arrow that surrounds an element or group of elements. You can repeat the surrounded element or group. Code one space between the repeated elements.



If you repeat an element once according to this diagram, you code:

value1 value2

When a character or symbol is required to separate the repeated elements, this character appears in the repeat separator line:



If you repeat an element once according to this diagram, you code:

value1,value2

Note that, for this example, you do not code the comma before the first element (value1).

Chapter 1. Introducing NetView DM EasyPrep

NetView Distribution Manager Easy Preparer for OS/2 (NetView DM EasyPrep) is a product for people who use NetView DM/2 to prepare software for distribution and installation. It simplifies and speeds the process of:

Creating response files to install CID-enabled software
Creating change files to install software
Creating modification files to install non-CID-enabled software
Partitioning and formatting hard disks of destination workstations
Creating boot diskettes for pristine workstations

To help you do these tasks easily and efficiently, NetView DM EasyPrep offers:

An easy-to-use dialog interface

Sample files for numerous popular software products, which give you a head start on creating response files and change files for those products

A relational database that retains configuration data for reuse

For users with NetView DM for MVS Release 6 and the Software Profile Management Facility (SPMF), direct collection of software and node definitions from the SPMF database

How NetView DM EasyPrep Can Help You

Depending on your environment, you install NetView DM EasyPrep:

On a CC server where you prepare software for clients on a stand-alone NetBIOS LAN

On a NetView DM/2 remote administrator workstation or a CC single node where you prepare software for remote workstations

On a preparation site where you prepare software for distribution by NetView DM Release 6 with the Software Profile Management Facility (SPMF)

You then use the NetView DM EasyPrep dialogs to do the following tasks:

Create Response Files

NetView DM EasyPrep simplifies the creation of the response files required to perform installations of CID-enabled software. NetView DM EasyPrep starts with a *model response file*—a template that outlines the keywords in a response file for a software product and tells NetView DM EasyPrep where to get actual values for the keywords. Only the writer of the model response file need know all the details of the response file keywords for a product.

When a NetView DM EasyPrep user creates a response file, NetView DM EasyPrep collects values for the keywords according to instructions in the model response files. The values can come from a dialog with the user; REXX user exit routines, which may examine other files and databases; external files; or other response files.

NetView DM EasyPrep comes with model response files for numerous CID-enabled software products, and this book explains how to create your own model response files for other products.

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The model response file methodology allows you to use NetView DM EasyPrep to create response files for a new CID-enabled product as soon as the product is available. You need only prepare a model response file, or customize an existing one, and define the new product and its model response file to NetView DM EasyPrep.

Create Change Files

NetView DM EasyPrep builds NetView DM/2 change files, which NetView DM products use to provide all the information required to invoke a product's installation program. Besides the files that are to be installed, change files also include information such as the source directory where the product images reside, the location of the response files of the product, the location where installation logs are to be written, the name of the product's installation program, and any parameters that must be passed to the installation program.

From a preparation site linked to remote nodes, NetView DM EasyPrep can also pack response files and images of CID-enabled products into change files, which a NetView DM product can use for mass distribution.

Create Modification Files

NetView DM EasyPrep creates the modification (.MOD) files that NetView DM/2 uses to install non-CID-enabled software, or allows you to specify a DiskCamera modification file. The .MOD files contain information to modify the CONFIG.SYS, STARTUP.CMD, and desktop for OS/2 applications; CONFIG.SYS and AUTOEXEC.BAT for DOS applications; and AUTOEXEC.BAT and Windows .INI files for Windows applications.

Partition and Format Client Hard Disks

NetView DM EasyPrep provides a facility for partitioning and formatting the hard disks of client workstations. Without NetView DM EasyPrep, you would have to do this task manually before installing software with NetView DM/2. NetView DM EasyPrep can create the same drive configurations as FDISKPM command, including installation of Boot Manager. NetView DM EasyPrep can format disks in either the FAT or the HPFS file system.

Create Boot Diskettes for Pristine Workstations

For workstations that have no software installed, that do not yet have the NetView DM/2 Agent installed, NetView DM EasyPrep builds boot diskettes, which are used to boot client workstations and establish a connection to the CC server. Without NetView DM EasyPrep, you would have to create boot diskettes manually.

Save Configuration Data for Reuse

To make it possible for NetView DM EasyPrep to tailor a specific response file from a model response file, you must supply details about your workstations and software. Through NetView DM EasyPrep's dialog interface, you define:

- Software products
- Software groups (groups of products that you intend to install together)
- Workstations where you intend to install software
- Workstation groups (groups of workstations where you intend to install the same software)

NetView DM EasyPrep saves your software and workstation configurations, along with your model response files, in a DB2 relational database so you can reuse them. You can keep the database on the workstation where NetView DM EasyPrep is installed, on a remote DB2/2 server, or on an MVS system with DB2 installed.

Synchronize with NetView DM for MVS and SPMF

If you are working from a preparation site for NetView DM Release 6 with the Software Profile Management Facility (SPMF) feature, NetView DM EasyPrep collects definitions of workstations and of software groups directly from the SPMF DB2 database.

Creating Response Files with NetView DM EasyPrep

You can use NetView DM EasyPrep to customize response files for any software product that conforms to IBM's configuration, installation, and distribution (CID) methodology. To create a response file for a CID-enabled product, NetView DM EasyPrep begins with a model response file for that product. A model response file for a product is a template for a completed response file for that product. It contains:

- A list of the product's response file keywords, as specified in the product's documentation, together with placeholders for the actual values that the completed response file will supply to the product's installation program. The variables include installation keywords, which define installation options, and configuration keywords, used after installation.
- Information about how NetView DM EasyPrep is to collect actual values to replace the placeholders
- Optionally, information about how NetView DM EasyPrep is to verify the completed response file against the hardware description of the workstation.
- Optionally, information about how NetView DM EasyPrep is to verify that it is possible to install this product along with specific other products.

When you tell NetView DM EasyPrep to generate a response file, it collects specific values as specified in the model response file. It may collect values through a dialog, from external files, from other response files, or by running a user-supplied REXX procedure.

NetView DM EasyPrep comes with model response files for several key CID-enabled products, listed in Chapter 4, “Using NetView DM EasyPrep Sample Files” on page 53. You can use these files as is or tailor them to your own installation's needs. For other products, you can create your own model response files, as explained in Chapter 6, “Building Model Response Files and Model Workstation Description Files” on page 71.

A single product can have multiple model response files that vary depending on your configuration needs. For example, LAN Adapter and Protocol Support (LAPS) response files differ depending on whether you are configuring for token ring, Ethernet, or Busmaster, or running NetBIOS or IEEE 805.5 or both. You need to maintain a unique model response file for each type of configuration that exists in your network.

In the process of designing a model response file for a product, you need to learn (from the product's documentation) what response file keywords are available for the product, and determine:

Out of all the response file keywords available for the product, which ones you need to specify for a particular configuration, especially those for which you need to change the default value.

Of the response file keywords, which are *global* (workstation-independent) and which are *local* (specific to each workstation).

Which products you want to configure together, so that you can specify dependency rules in the model response files for each product.

Using NetView DM EasyPrep in Your Environment

You can configure and use NetView DM EasyPrep in various ways, depending on your computing environment:

Preparation site for a stand-alone LAN, with NetView DM EasyPrep and NetView DM/2 installed on the same CC server

Preparation site for remote LANs, NetView DM EasyPrep and NetView DM/2 installed on a remote administrator workstation or on a CC single node

Preparation site for NetView DM for MVS Release 6 with SPMF, where NetView DM EasyPrep and NetView DM/2 are installed on the preparation site

Stand-Alone LAN

In the configuration shown in Figure 1 on page 5, you install NetView DM EasyPrep on the NetView DM/2 CC server. You can exchange workstation definitions between NetView DM EasyPrep and NetView DM/2 to ensure that the two products' workstation definitions are synchronized. You can import definitions of CC client workstations that NetView DM/2 already knows about. If you define new CC client workstations to NetView DM EasyPrep, you can export those definitions to NetView DM/2. All NetView DM EasyPrep activities are limited to the domain of the CC server; you cannot, for example, define a new server.

In this configuration, having used NetView DM EasyPrep to prepare response files and change files, you can use NetView DM/2 to distribute the change files to the client workstations for installation.

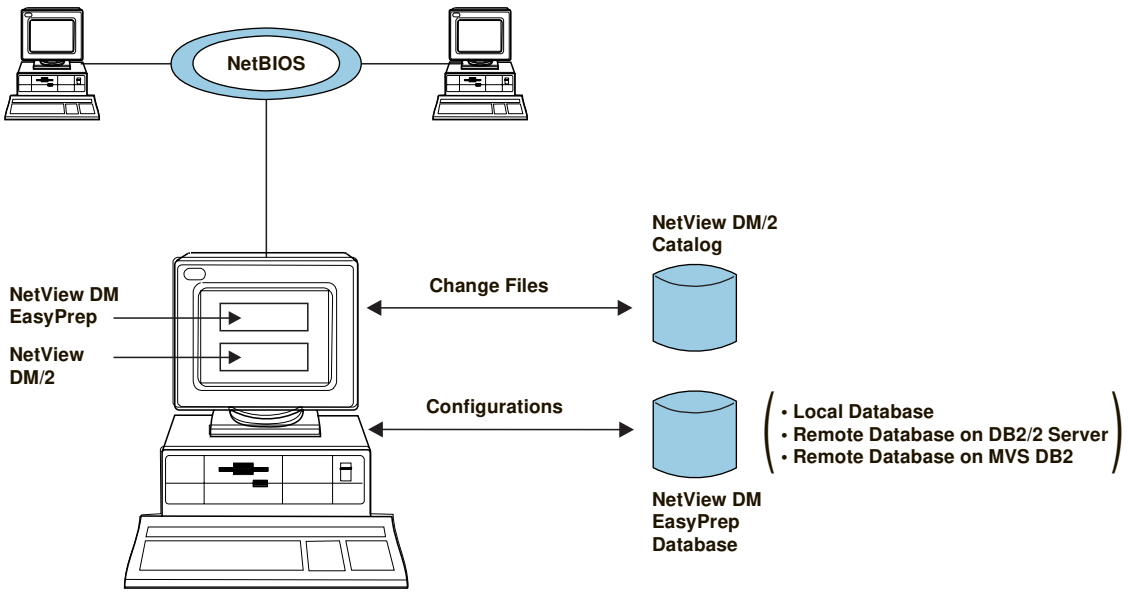

Figure 1. NetView DM EasyPrep in a Stand-Alone LAN Environment

Remote LANs with Remote Administrator

In the configuration shown in Figure 2 on page 6, you install both NetView DM/2 Version 2.1 and NetView DM EasyPrep on the same remote administrator workstation. You can exchange workstation definitions between NetView DM EasyPrep and NetView DM/2 to ensure that the two products' workstation definitions are synchronized. You can import definitions of CC server and CC client workstations that NetView DM/2 already knows about. If you define new CC server or CC client workstations to NetView DM EasyPrep, you can export those definitions to NetView DM/2 at the remote administrator and at the CC server. You use NetView DM EasyPrep to prepare response files and change files for distribution to workstations in the domain of the remote administrator.

In this configuration, having used NetView DM EasyPrep to prepare response files and change files, you can use NetView DM/2 to distribute the change files to the CC server workstations for installation or for distribution to the CC clients. You also have the option to pack the response files and the product images into change files and distribute them to the CC servers.

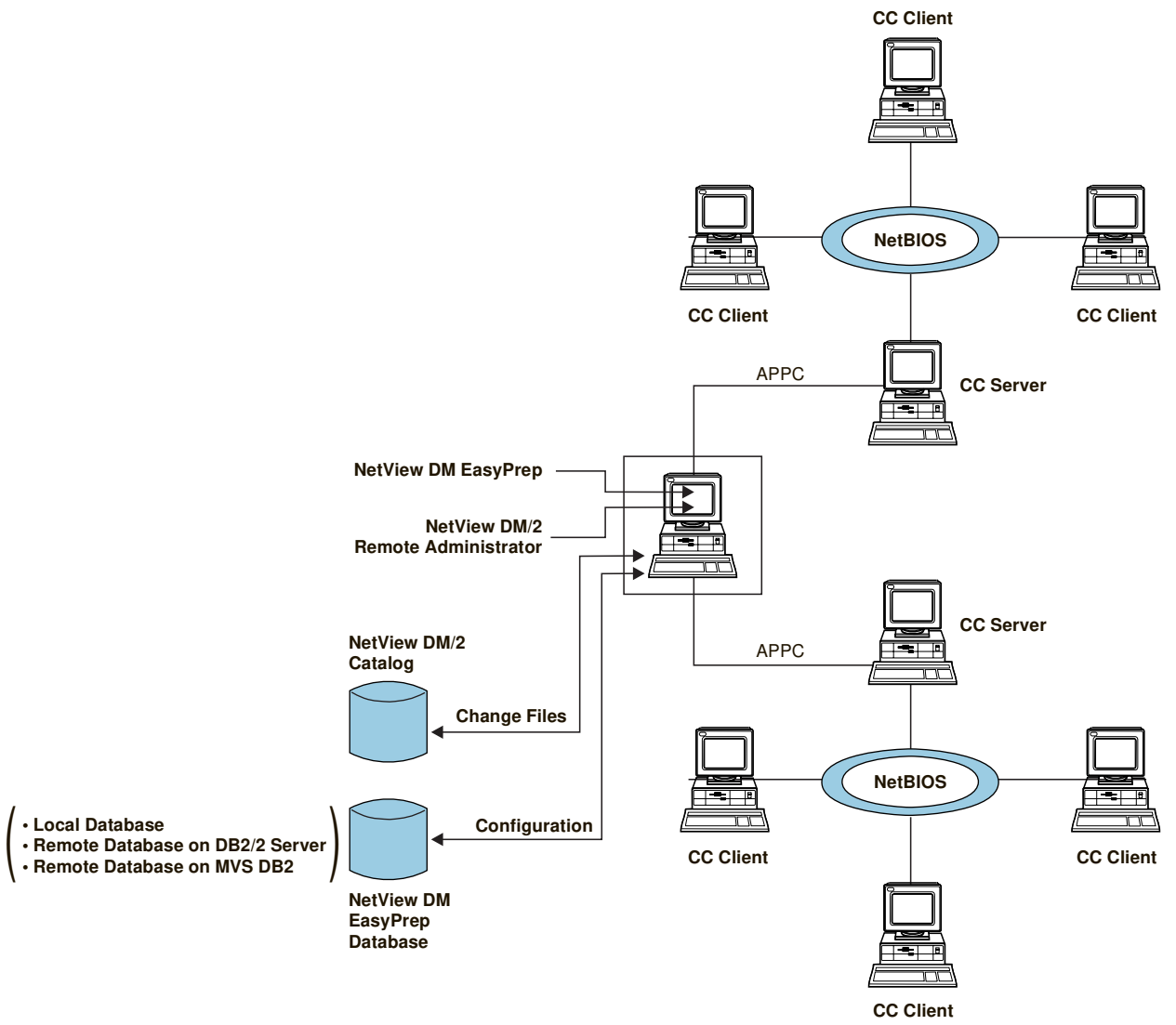

Figure 2. NetView DM EasyPrep on a Preparation Site for Remote LANs with NetView DM/2 Remote Administrator

Remote LANs with CC Single Node as Preparation Site

In the configuration shown in Figure 3 on page 7, you install both NetView DM/2 and NetView DM EasyPrep on the same CC single node. You are responsible for defining the workstations for which NetView DM EasyPrep is to build response files and change files, and for ensuring that you give them the names by which they are known in the NetView DM/2 network. You cannot import workstation definitions from NetView DM/2.

In this environment, you use NetView DM EasyPrep to prepare response files and change files, and then use NetView DM/2 to distribute the change files to the CC servers, remote administrator workstations, or NetView DM for MVS focal point for which your workstation is a preparation site. You also have the option to pack the response files and the product images into change files and distribute them as well.

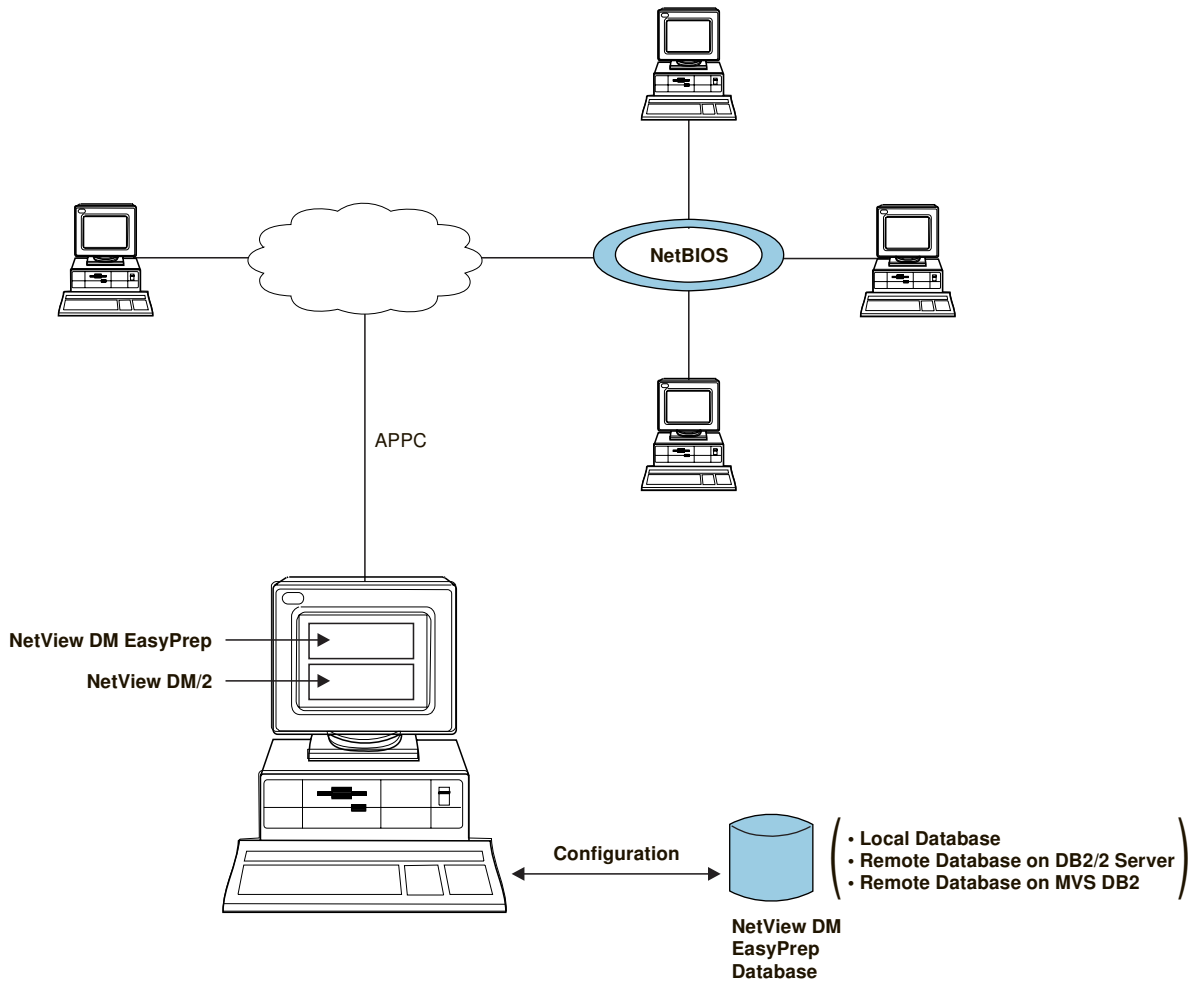

Figure 3. NetView DM EasyPrep on a CC Single Node as Preparation Site for Remote LANs

Host-Connected LAN with NetView DM for MVS Release 6 and SPMF

In the configuration shown in Figure 4 on page 8, you install NetView DM EasyPrep on the preparation site. You can install the NetView DM EasyPrep database on the preparation site, a remote DB2/2 server, or a separate DB2 disk on MVS.

In this configuration, instead of defining workstations, workstation groups, and software groups, you retrieve definitions that the SPMF administrator has made in the SPMF database.

At a preparation site, you download from the SPMF database the data corresponding to the relevant workstation definitions, software groups, and workstation groups. NetView DM EasyPrep presents the data to you using the same dialogs as the other configurations.

Then you can:

- Add software products to and delete them from a software group
- Modify the list of workstations in a workstation group
- Create a new workstation group
- Generate response files and change files as in the other configurations

You cannot define a new workstation or a new software group from NetView DM EasyPrep; those definitions must come from SPMF.

In this environment, you use NetView DM EasyPrep to prepare response files and change files, and then use NetView DM/2 to send the change files to the NetView DM for MVS Release 6 focal point. You also have the option to pack the response files and the product images into change files and distribute them to the focal point as well.

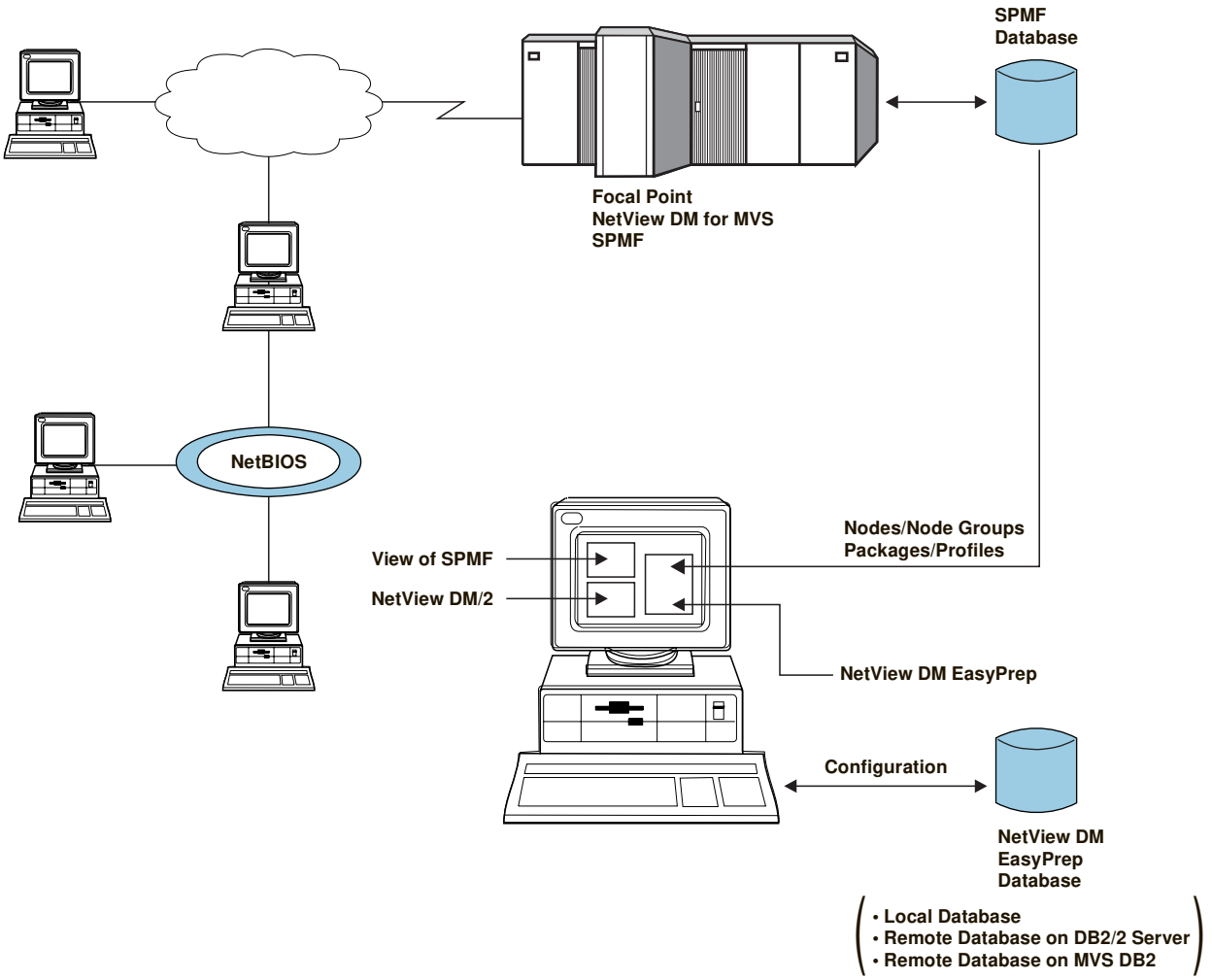

Figure 4. NetView DM EasyPrep in a Host-Attached Environment with NetView DM Release 6

Chapter 2. Installing NetView DM EasyPrep

This chapter provides information to plan for and install NetView DM EasyPrep.

Software Requirements

To use NetView DM EasyPrep, you must have NetView DM/2 Version 2.1 and CSD XR20460 installed.

Table 1 shows the NetView DM/2 components required.

Table 1. NetView DM/2 Component Requirements

NetView DM EasyPrep Usage	NetView DM/2 Components Required
Preparation site for stand-alone LAN (CC server)	Extended package, server component
Preparation site for remote LANs (remote administrator)	Extended package, server component and Remote Administrator feature, server component
Preparation site for remote LANs (CC single node)	Entry package, server component

The *NetView DM/2 Installation and Customization Guide* lists prerequisite software for NetView DM/2.

NetView DM EasyPrep has the following additional requirements:

OS/2 Version 2.1 or later, or OS/2 Version J2.1 or later, including the REXX Procedure Language/2 option.

Database 2 for OS/2 (DB2/2) Version 1.0 or later (not Extended Services for OS/2 Database Manager). If you are running OS/2 Version 3.0, DB2/2 Version 1.2 is required. If you install the NetView DM EasyPrep database on a remote DB2/2 server, the client feature of DB2/2 is required.

Distributed Database Connection Services/2 (DDCS/2) Version 1.0 or later, if:

- You are installing NetView DM EasyPrep on a preparation site for NetView DM for MVS Release 6 with the SPMF feature
- You plan to install the NetView DM EasyPrep database on an MVS DB2 system.

Hardware Requirements

Hardware requirements to install NetView DM EasyPrep are:

Any IBM Personal System/2 system unit supported by OS/2 Version 2.1 or later, or any IBM Personal System/55 system unit supporting Microchannel Architecture supported by OS/2 Version J2.1 or later

A 3.5-inch diskette drive for local installation from diskettes

A VGA, XGA, or 8514/A display adapter

Any mouse device the operating system supports

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Table 2 on page 10 shows minimum storage and memory requirements. The numbers include requirements for NetView DM/2 and related software prerequisites.

Table 2. Workstation Storage and Memory Requirements

NetView DM EasyPrep Usage	Storage Required	Memory Required
Preparation site for stand-alone LAN (CC server)	480MB	16MB
Preparation site for remote LANs (remote administrator)	1GB	32MB
Preparation site for remote LANs (CC single node)	320MB	16MB

DB2/2 Remote Server Database Requirements

If you plan to install the NetView DM EasyPrep database on a remote DB2/2 server, before installation you must create the database on the remote server and establish access to the database from your workstation.

To create the database on the remote server, insert NetView DM EasyPrep installation diskette 4 at the remote server. Enter A: to switch to the A drive, and then enter:

RFGINST <database_name> <drive_letter>

This command creates the database and the tables.

For information about how to establish access to the database from the NetView DM EasyPrep workstation, see the *Database 2 OS/2 Guide.*

MVS Database Requirements

The MVS system must have Database 2, 5685-DB2, with the distributed data facility (DDF) feature installed if:

You are installing NetView DM EasyPrep on a preparation site for NetView DM for MVS Release 6 with the SPMF feature, or

You plan to install the NetView DM EasyPrep database on an MVS DB2 system.

Note: If the NetView DM EasyPrep database is to reside on an MVS DB2 system, before NetView DM EasyPrep installation you must create an empty database on MVS; the MVS DB2 administrator must authorize your TSO user ID to read from and write to the database; and you must install and configure DDCS/2 on your workstation to access the database on MVS (see “Installing NetView DM EasyPrep with Access to an MVS Database” on page 14).

Installing NetView DM EasyPrep from Diskettes

To start the installation program, place the NetView DM EasyPrep diskette 1 in a diskette drive on the server. From an OS/2 command prompt, type A:INSTALL. The IBM NetView DM EasyPrep Install dialog appears.

Selecting Update Options

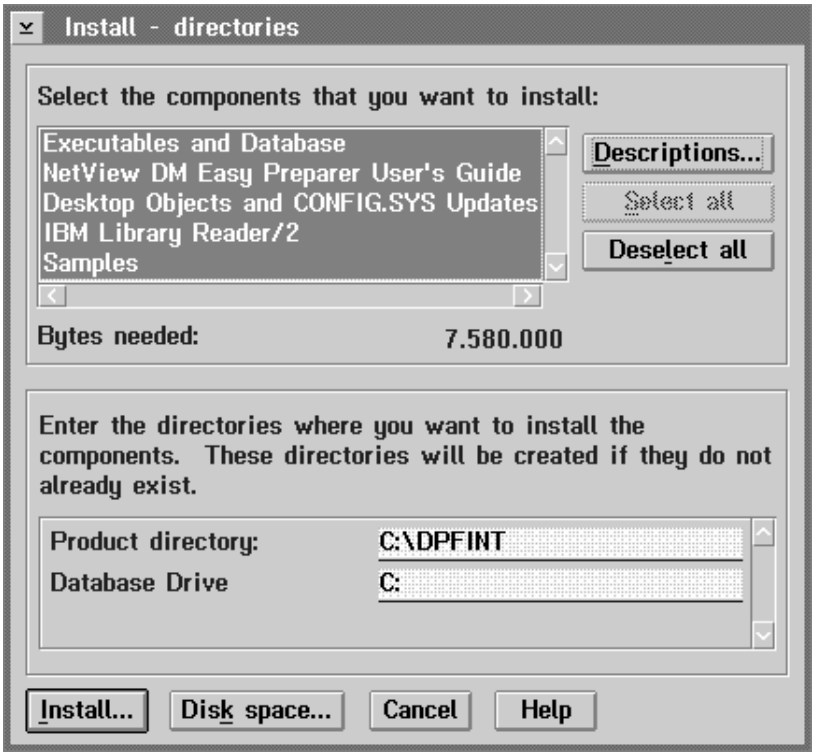
In the Install dialog, you specify whether NetView DM EasyPrep is to update the CONFIG.SYS file and, if you have previously installed the product on this workstation, whether it is to overwrite files.

Check the **Update CONFIG.SYS** box to have the necessary NetView DM EasyPrep statements added in the CONFIG.SYS file of the workstation. Check the **Overwrite files** item in the **Options** list-box if you have previously installed NetView DM EasyPrep on this workstation and you want to overwrite the existing NetView DM EasyPrep files. If you do not check this item, you will be asked during installation if you want to overwrite each previously installed NetView DM EasyPrep file.

After making your selections, select **OK** to proceed to the Install Directories dialog.

Selecting Components and Directories

Use the Install Directories dialog to select which components of NetView DM EasyPrep you want to install, as well the directory in which you want them installed.



The box at the top of the dialog lists the components available for installation:

Executables and Database
NetView DM Easy Preparer User's Guide
Desktop Objects and CONFIG.SYS Updates
IBM Library Reader/2
Samples

To select a component, click on it with mouse button 1. To select all the components, choose **Select all**. After you select a component, you can view its description by selecting **Descriptions**.

Selecting the **Desktop Objects and CONFIG.SYS Updates** component creates the NetView DM EasyPrep folder on the desktop and updates the CONFIG.SYS file (if you checked the **Update CONFIG.SYS** box in the Install dialog).

You can install the Desktop Objects and CONFIG.SYS Updates component without the Executables and Database component. You might do so if a desktop object or CONFIG.SYS update was damaged and you wanted to restore the original version.

Selecting the **Executables and Database** component installs all the NetView DM EasyPrep program files in the path and directory specified in the **Product directory** field. It also creates a DB2/2 database for NetView DM EasyPrep using the database name you specify in the Install Information dialog.

Selecting the **NetView DM Easy Preparer User's Guide** installs the online manual. You can access the online manual with Library Reader, which you can install from the product diskettes, or with BookManager.

Selecting the **IBM Library Reader/2** component installs Library Reader, with which you can view the online book.

If you install the online book but not Library Reader, you need to have BookManager or another copy of Library Reader on your workstation. In this case, after installation, you need to tell NetView DM EasyPrep the path to BookManager or Library Reader. Use mouse button 2 to double-click on the **User's Guide** icon, select **Settings,** and customize the path.

Selecting the **Samples** component installs the NetView DM EasyPrep sample model response files, model workstation description file, and software product definitions in the \USER subdirectory of the directory where you are installing NetView DM EasyPrep Information about how to unpack the files and start using them after installation is in Chapter 4, “Using NetView DM EasyPrep Sample Files” on page 53

In the **Product directory** field, specify the drive, path, and directory name where NetView DM EasyPrep will be installed. The default value for this field is C:\DPFINT. In the **Drive to install the Database** field, specify the drive where the NetView DM EasyPrep database will be stored (if you plan to specify the local workstation in the Install Information dialog). The default value for this field is C: You must specify both the drive letter and the colon in this field.

To make sure enough disk space is available on the drive where you plan to install NetView DM EasyPrep, select **Disk Space...** to open the Disk Space dialog.

Checking for Disk Space

The Disk Space dialog displays the disk space that is available on each of the drives accessible on the workstation. NetView DM EasyPrep can be installed on any of the drives listed, provided there is enough disk space available. To select a drive for installation, click on the drive. If there is enough disk space available on the selected drive, the status on the right side of the dialog reads *Installation possible*. If there is not enough space to install NetView DM EasyPrep on the selected drive, the status reads *Installation: not possible*.

After selecting a drive, check the box labeled **Change directories to selected drive**, then select **OK** to return to the Install Directories dialog. Note that the

Product directory and **Drive to install the database** fields have both been set to the drive you selected. If you do not want to select a drive on the disk space dialog, select **Cancel** to return to the Install Directories dialog.

After making all your selections on the Install Directories dialog, select **Install...** to proceed with the installation. Otherwise, select **Cancel** to return to the IBM NetView Distribution Manager Easy Preparer for OS/2 dialog.

Completing Installation

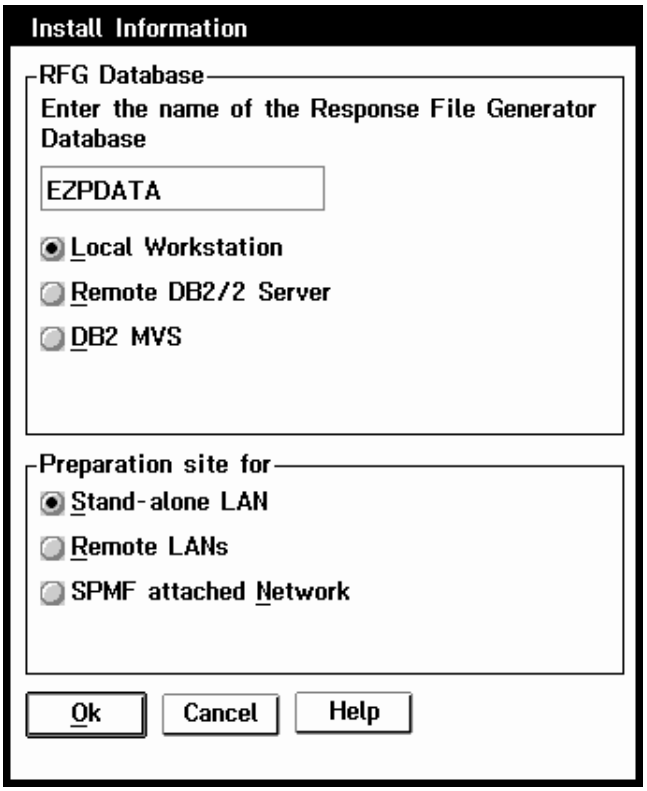
As the installation proceeds, you view the Install Progress dialog. Besides showing the percentage of completion, this dialog also shows which component is being installed, as well as a description of each of the source and target files as they are unpacked and copied onto the server. You may halt the installation at any time by selecting **Stop**.

You are prompted to insert the successive NetView DM EasyPrep diskettes. You may insert the requested NetView DM EasyPrep diskette in an alternate diskette drive on the server, if you specify that drive in the **Drive** field. After inserting the diskette, select **Continue** to proceed with the installation.

The Install Information dialog appears.

Installing the Database

In the Install Information dialog, you define the NetView DM EasyPrep database name and the location where the database will be installed.



Specify a name for the NetView DM EasyPrep database. The database name must begin with an alphabetic character, @, #, or $. The remaining characters may be any of these characters, as well as _ and digits.

Select the radio button for the location where the database is to be stored.

Specifying Installation Type

The Install Information dialog also contains fields that specify whether you are installing on a preparation site for a stand-alone LAN, remote LANs, or NetView DM for MVS Release 6 with SPMF.

Select the radio button to indicate that NetView DM/2 at this workstation is a preparation site for a stand-alone LAN (a CC server), for remote LANs (a remote administrator or a CC single node), or for a NetView DM for MVS system with SPMF. In the latter case, you also enter the name of the SPMF database. After you have made your selections, select **OK** to complete the installation.

When the installation is complete, you return to the IBM NetView Distribution Manager Easy Preparer for OS/2 dialog. Press F3 or click on the *File* menu bar option to open the drop-down menu. Select **Exit** to leave the NetView DM EasyPrep installation program.

Installing NetView DM EasyPrep with Access to an MVS Database

You must install and configure DDCS/2 on the preparation site in two situations:

When you install NetView DM EasyPrep on a preparation site for NetView DM for MVS with SPMF (where the workstation definitions, the software group definitions, and some workstation group definitions are stored in the SPMF database)

When you plan to install the NetView DM EasyPrep database on an MVS DB2 system

For detailed information on how to install and configure DDCS/2, refer to *SAA Distributed Database Connection Services/2 Guide*.

This is an overview of the process:

1. Install the DDCS/2 program on your hard disk.
2. Configure Communications Manager/2.
3. Update three of the DB2/2 directories in the preparation site by adding information required to access the SPMF database. The directories are:

   The workstation directory
   The system database directory
   The database connection services directory

   It is recommended that you use the DB2/2 directory tool to update these directories.
4. Bind utilities to DB2 on the host.

Configuring Communications Manager/2

For detailed information on how to configure Communications Manager/2 refer to *SAA Distributed Database Connection Services/2 Guide*. This is an example of the completed NDF file at the end of the configuration process:

```
DEFINE_LOCAL_CP   FQ_CP_NAME(ITIBM PC.PPT      )
                   DESCRIPTION(Created on 15/ 2/95 at 11:51)
                  CP_ALIAS(PPT      )
                  NAU_ADDRESS(INDEPENDENT_LU)
                  NODE_TYPE(EN)
                  NODE_ID(X' 5D     ')
                  NW_FP_SUPPORT(NONE)
                  HOST_FP_SUPPORT(YES)
                  HOST_FP_LINK_NAME(HOST   1)
                  MAX_COMP_LEVEL(NONE)
                  MAX_COMP_TOKENS( );


DEFINE_LOGICAL_LINK   LINK_NAME(HOST   1)
                       DESCRIPTION(Link to Host)
                      FQ_ADJACENT_CP_NAME(ITIBM PC.HOSTCP)
                      ADJACENT_NODE_TYPE(LEN)
                      DLC_NAME(IBMTRNET)
                      ADAPTER_NUMBER( )
                      DESTINATION_ADDRESS(X'            ')
                      ETHERNET_FORMAT(NO)
                      CP_CP_SESSION_SUPPORT(NO)
                      ACTIVATE_AT_STARTUP(NO)
                      LIMITED_RESOURCE(USE_ADAPTER_DEFINITION)
                      LINK_STATION_ROLE(USE_ADAPTER_DEFINITION)
                      SOLICIT_SSCP_SESSION(YES)
                      NODE_ID(X' 5D  298')
                      MAX_ACTIVATION_ATTEMPTS(USE_ADAPTER_DEFINITION)
                      USE_PUNAME_AS_CPNAME(NO)
                      EFFECTIVE_CAPACITY(USE_ADAPTER_DEFINITION)
                      COST_PER_CONNECT_TIME(USE_ADAPTER_DEFINITION)
                      COST_PER_BYTE(USE_ADAPTER_DEFINITION)
                      SECURITY(USE_ADAPTER_DEFINITION)
                      PROPAGATION_DELAY(USE_ADAPTER_DEFINITION)
                      USER_DEFINED_1(USE_ADAPTER_DEFINITION)
                      USER_DEFINED_2(USE_ADAPTER_DEFINITION)
                      USER_DEFINED_3(USE_ADAPTER_DEFINITION);


DEFINE_LOCAL_LU   LU_NAME(PREPSITE)
                   DESCRIPTION(Created on 15/ 2/95 at 11:51)
                  LU_ALIAS(PREPSITE)
                  NAU_ADDRESS(INDEPENDENT_LU);


DEFINE_PARTNER_LU   FQ_PARTNER_LU_NAME(ITIBM PC.HOSTFP)
                     PARTNER_LU_ALIAS(HOSTFP)
                     PARTNER_LU_UNINTERPRETED_NAME(HOSTFP)
                     MAX_MC_LL_SEND_SIZE(32767)
                     CONV_SECURITY_VERIFICATION(NO)
                     PARALLEL_SESSION_SUPPORT(YES);
```

```
DEFINE_PARTNER_LU_LOCATION   FQ_PARTNER_LU_NAME(ITIBM PC.HOSTFP)
                             WILDCARD_ENTRY(NO)
                             FQ_OWNING_CP_NAME(ITIBM PC.HOSTCP)
                             LOCAL_NODE_NN_SERVER(NO);

DEFINE_MODE   MODE_NAME(IBMRDB   )
              COS_NAME(#CONNECT)
              DEFAULT_RU_SIZE(NO)
              MAX_RU_SIZE_UPPER_BOUND(4 96)
              RECEIVE_PACING_WINDOW(8)
              MAX_NEGOTIABLE_SESSION_LIMIT(32767)
              PLU_MODE_SESSION_LIMIT(2 )
              MIN_CONWINNERS_SOURCE(1 )
              COMPRESSION_NEED(PROHIBITED)
              PLU_SLU_COMPRESSION(NONE)
              SLU_PLU_COMPRESSION(NONE);

DEFINE_DEFAULTS   IMPLICIT_INBOUND_PLU_SUPPORT(YES)
                   DESCRIPTION(Created on 15/ 2/95 at 11:51)
                  DEFAULT_MODE_NAME(BLANK)
                  DEFAULT_LOCAL_LU_ALIAS(PREPSITE)
                  MAX_MC_LL_SEND_SIZE(32767)
                  DIRECTORY_FOR_INBOUND_ATTACHES( )
                  DEFAULT_TP_OPERATION(NONQUEUED_AM_STARTED)
                  DEFAULT_TP_PROGRAM_TYPE(BACKGROUND)
                  DEFAULT_TP_CONV_SECURITY_RQD(NO)
                  MAX_HELD_ALERTS(1 );

DEFINE_TP   SNA_SERVICE_TP_NAME(X' 7',6DB)
            PIP_ALLOWED(NO)
            FILESPEC(C:\sqllib\SQLCIAA.EXE)
            CONVERSATION_TYPE(BASIC)
            CONV_SECURITY_RQD(YES)
            SYNC_LEVEL(NONE)
            TP_OPERATION(NONQUEUED_AM_STARTED)
            PROGRAM_TYPE(BACKGROUND)
            RECEIVE_ALLOCATE_TIMEOUT(INFINITE);

DEFINE_TP   SNA_SERVICE_TP_NAME(X' 7',6SN)
            PIP_ALLOWED(NO)
            FILESPEC(C:\SQLLIB\QLCNSM.EXE)
            CONVERSATION_TYPE(BASIC)
            CONV_SECURITY_RQD(YES)
            SYNC_LEVEL(NONE)
            TP_OPERATION(NONQUEUED_AM_STARTED)
            PROGRAM_TYPE(BACKGROUND)
            RECEIVE_ALLOCATE_TIMEOUT(INFINITE);

START_ATTACH_MANAGER;
```

Updating the Workstation Directory

This directory catalogs all the remote systems that the DDCS/2 workstation can access. Add the name of the host to the list of remote connections.

You need values for the entries shown in Table 3.

Table 3. Workstation Directory Values

Entry	Example Value	Your Value
Remote Workstation: a nickname or alias for the host where the SPMF or NetView DM EasyPrep database is located; it must match the *Workstation* name in the system database directory.	SPMFHOST	
Network ID	ITIBM0PC	
Partner Logical Unit Alias: the PLU alias identifying the host	HOSTFP	
Local Logical Unit Alias: the LU alias identifying this workstation	PREPSITE	
Transmission Service Mode	IBMRDB	

Note: The values for all entries other than *Workstation Name* must match the values of the CM/2 configuration used for communicating with the host.

Updating the System Database Directory

This directory catalogs all the databases that the DDCS/2 workstation can access. Add the name of the SPMF or NetView DM EasyPrep database and the name of the host to the list of remote databases.

You need values for the entries shown in Table 4.

Table 4. System Database Directory Values

Entry	Example Value	Your Value
Database Alias: the nickname or alias for the SPMF or NetView DM EasyPrep database	SPMFDB	
Database Name: the name of the SPMF or NetView DM EasyPrep database; it must match the *Local Database* name in the database connection services directory	SPMFDB	
Workstation: a nickname or alias for the host where the database is located; it must match the *Remote Workstation* name in the workstation directory	SPMFHOST	

Updating the Database Connection Services Directory

This directory contains information about each host database that the DDCS/2 workstation can access. Add the name of the SPMF or NetView DM EasyPrep database and the name of the relational database system of which it is part to the list of remote databases.

You need values for the entries shown in Table 5.

Table 5. Database Connection Services Directory Values

Entry	Example Value	Your Value
Local Database: the name of the SPMF or NetView DM EasyPrep database; it must match the *Database Name* in the system database directory	SPMFDB	
Target Database: the name of the host database system (RDB_Name) to which the database belongs	ITIBMMVS73DB2	

Defining User Authorization to Access the SPMF Database

When you install NetView DM EasyPrep on a preparation site for SPMF, the DB2 system administrator at the host must add some information to two system tables of the DB2 communications database, SYSIBM.SYSLUNAMES and SYSIBM.SYSUSERNAMES, so you will be able to access the database.

This is necessary to allow inbound translation of your user ID into the DB2 “owner” of the SPMF database, thus allowing your user ID to access the database tables.

Update the two tables as follows:

1. The SYSIBM.SYSLUNAMES table must include the logical unit name identifying the preparation site (or the DDCS/2 gateway) and defining it as inbound.

   For example:

   SYSLUNAMES: LUNAME=PREPSITE, USERNAMES=I

   where PREPSITE is the LU name that identifies the preparation site and I stands for *inbound*

2. the SYSIBM.SYSUSERNAMES table must include the LUNAME that you added to SYSLUNAMES, and the authorization IDs of the preparation site and of the DB2 system.

   For example:

   SYSUSERNAMES: TYPE=I, LUNAME=PREPSITE, AUTHID=EZPREID, NEWAUTHID=QUALIF

   where EZPREID is the TSO user ID of the preparation site and QUALIF is owner of the SPMF database as assigned by the SPMF administrator.

Note: To install and use NetView DM EasyPrep correctly, the “owner” of the SPMF database must have DBADMIN authorization to the database, plus the authorization necessary to bind NetView DM EasyPrep to the database.

Installing NetView DM EasyPrep Using CID

You can install NetView DM EasyPrep remotely on a NetView DM/2 CC server, remote administrator workstation, or preparation site using the CID methodology. This section provides the information necessary to perform a CID installation of NetView DM EasyPrep.

Command Line Installation Parameters

To install NetView DM EasyPrep, use the following command line switches and their parameters:

Switch	Description / Values
/**A:**	Specifies whether NetView DM EasyPrep is to be installed or deleted. Valid values: I = install, D = delete
/**C:**	Specifies the full path to the catalog file for NetView DM EasyPrep. For example: X:\IMG\NVDMEZP\DPFINT.ICF
/**L1:**	Specifies the full path for the log file used for error messages during NetView DM EasyPrep installation. For example: Y:\LOGS\NVDMEZP\DPFINST.ELG
/**L2:**	Specifies the full path for the log file used for informational messages during NetView DM EasyPrep installation. For example: Y:\LOGS\NVDMEZP\DPFINST.ILG
/**P:**	Specifies the product name. This parameter must be set to “IBM NetView DM Easy Preparer for OS/2” (quotation marks required).
/**R:**	Specifies the full path to the response file. For example: X:\RSP\DPFINT.RSP

/S: Specifies the full path to the source files' directory. For example: X:\IMG\NVDMEZP

/TU: Specifies the boot drive on the target workstation where the CONFIG.SYS is to be updated, followed by a backslash (\). For example, C:\

/X Specifies an unattended installation.

Example of Change File for NetView DM EasyPrep

The following is an example of the installation section of a NetView DM/2 change file that drives a CID installation of NetView DM EasyPrep:

```
TargetDir = C:\IBMEZP

Section Install
  Begin
    Program = $(SourceDir)\INSTALL.EXE

    Parms = /A:I /C:$(SourceDir)\DPFINT.ICF /L1:$(LogFile1) /L2:$(LogFile2)
              /P:"IBM NetView DM Easy Preparer for OS/2"
             /R:$(ResponseFile)  /S:$(SourceDir)    /TU:C:\  /X

    SourceDir = SA:\IMG\NVDMEZP
    ResponseFile = SA:\RSP\NVDMEZP\$(WorkStatName).RSP
    LogFile1 = SB:\LOG\NVDMEZP\$(WorkStatName).L1
    LogFile2 = SB:\LOG\NVDMEZP\$(WorkStatName).L2
  End
```

Response File Keywords and Values

When you install NetView DM EasyPrep using CID, you use a response file to provide instructions for the installation program. These are the NetView DM EasyPrep response file keywords and their values:

Keyword	Description / Values
FILE	Specifies the full path and directory name where NetView DM EasyPrep will be installed; for example, C:\DPFINT
AUX1	Specifies the drive on which to install the NetView DM EasyPrep database; for example, C:
CFGUPDATE	Specifies whether the NetView DM EasyPrep installation program is to update the target workstation's CONFIG.SYS automatically after the installation is complete or whether you will update it manually. Valid values are AUTO and MANUAL.
COMP	Specifies the components of NetView DM EasyPrep to install. Valid values are Executables and Database, Desktop Objects and CONFIG.SYS Updates, NetView DM Easy Preparer User's Guide, IBM Library Reader/2, and Samples. **Note:** If “COMP=Executables and Database” is specified, then “COMP=Desktop Objects and CONFIG.SYS Updates” must also be specified.

OVERWRITE Specifies whether or not to overwrite existing NetView DM EasyPrep files on the target workstation. Valid values are YES and NO.

SAVEBACKUP Specifies whether or not to save a backup when updating the product. Valid values are YES and NO.

DELETEBACKUP Specifies whether to delete just the backup version of NetView DM EasyPrep during a delete action, rather than deleting the entire product. Valid values are YES and NO.

INSTALL_TYPE Specifies the type of NetView DM/2 installation on which you are installing NetView DM EasyPrep. Valid values are LOCAL_LAN, REMOTE_LAN, and SPMF_ATTACHED.

RFGDB Specifies the name of the NetView DM EasyPrep database. The value specified must be a valid database name for the system where the database is to be located. For example, a local DB2/2 database could be named DPFDATA.

DB_STORAGE Specifies where the NetView DM EasyPrep database will be stored. Valid values are LOCAL (for a local DB2/2 database), DB22_SERVER (for a remote DB2/2 server) and DB2_MVS (for an MVS-based DB2 database).

REAL_DB_NAME Specifies the name of the NetView DM EasyPrep database on MVS; for example, RFGMVS.

Note: This keyword is valid only if the value DB2_MVS is specified for the DB_STORAGE keyword.

SPMF_NAME Specifies the name of the SPMF database on MVS; for example, SPMFDB.

Note: This keyword is valid only if the value SPMF_ATTACHED is specified for the INSTALL_TYPE keyword.

Example Response Files to Install NetView DM EasyPrep

This example shows a response file to install NetView DM EasyPrep on a NetView DM/2 remote administrator with a locally defined DB2/2 database:

```
FILE=D:\DPFINT
AUX1=E:
CFGUPDATE=AUTO
COMP=Executables and Database
COMP=Desktop Objects and CONFIG.SYS Updates
COMP=Samples
OVERWRITE=YES
DELETEBACKUP=NO
INSTALL_TYPE=REMOTE_LAN
RFGDB=RFGDATA
DB_STORAGE=LOCAL
```

Installing Using CID

This example shows a response file to install NetView DM EasyPrep on a preparation site for SPMF with the NetView DM EasyPrep database stored remotely on an MVS system:

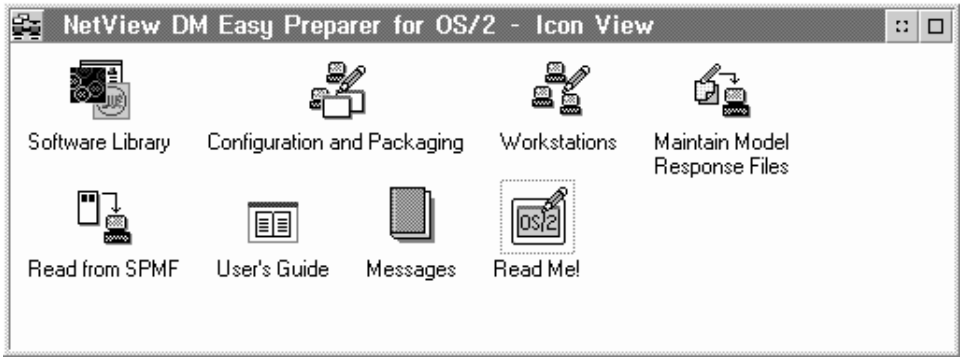
```
FILE=D:\DPFINT
AUX1=E:
CFGUPDATE=AUTO
COMP=Executables and Database
COMP=Desktop Objects and CONFIG.SYS Updates
COMP=NetView DM Easy Preparer User's Guide
COMP=Samples
OVERWRITE=YES
DELETEBACKUP=NO
INSTALL_TYPE=SPMF_ATTACHED
RFGDB=RFGDATA
DB_STORAGE=DB2_MVS
REAL_DB_NAME=RFGMVS
SPMF_NAME=SPMFDB
```

Chapter 3. Using NetView DM EasyPrep

This chapter takes you through the process of providing NetView DM EasyPrep with all the information it needs about the software you intend to install and the workstations on which you intend to install it. Then it takes you through the process of creating response files and change files.

After you install NetView DM EasyPrep and restart your workstation, the NetView DM EasyPrep icon appears on your desktop:

When you double-click on the icon, you see six to eight icons, depending on some of your installation options:



Maintain Model Response Files, Workstations, Software Library, and **Configuration and Packaging** are the icons for the basic NetView DM EasyPrep operations.

If you defined your workstation as a preparation site for SPMF, you also see the **Read from SPMF** icon.

The other three icons give you access to online documentation. **Read Me!** displays the NetView DM EasyPrep README.TXT file. **Messages** displays a list of NetView DM EasyPrep messages; click on a message to see help for the message. **User's Guide** (present only if you installed the online book) opens the online book.

Dialogs that you start from the icons take you through the following activities:

Defining model response files and model workstation description files to NetView DM EasyPrep (Maintain Model Response Files icon)

Identify model workstation description files to NetView DM EasyPrep.

The model workstation description file is a high-level description of a type of workstation, with variables to be replaced with specific values such as hard disk size and number of diskette drives.

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In this task, you identify to NetView DM EasyPrep the model workstation description files available to be assigned to workstations.

Identify model response files to NetView DM EasyPrep.

In this task, you identify to NetView DM EasyPrep the model response files available to be assigned to software products.

Defining workstations and groups of workstations (Workstations icon)

Identify to NetView DM EasyPrep the workstations to which you will be distributing software.

In this step, you fill out a notebook to give NetView DM EasyPrep some basic information it needs to know about each workstation so that it can build response files and change files for the workstation. For example, you specify the workstation name and the operating system that runs on the workstation.

If you are working at a CC server or a remote administrator workstation, you can import workstation definitions from NetView DM/2 in one simple step.

If you are working at a preparation site for SPMF, you download workstation definitions from the SPMF database in the *Read from SPMF* dialog.

Configure the description of each workstation.

In this task, you assign specific values to workstation description variables as indicated in a model workstation description file.

Define groups of workstations.

In this task, you group workstations to which you intend to distribute the same software. Having created a workstation group, you can create response files and change files for multiple workstations at the same time.

If you are working at a preparation site for SPMF, you download workstation group definitions from the SPMF database in the *Read from SPMF* dialog.

Defining Software and Groups of Software Products (Software Library icon)

Identify to NetView DM EasyPrep the software products you will be distributing.

In this task you give NetView DM EasyPrep some basic information that it needs to know about each product so that it can build response files and change files. For example, you specify the software's release level, the operating system on which it runs, and where the images of the software are stored.

Sample software definitions for numerous popular products are part of NetView DM EasyPrep; see Chapter 4, “Using NetView DM EasyPrep Sample Files” on page 53 for a list. To define those products to NetView DM EasyPrep, you need only select the sample software definitions you want to use and use a simple dialog to “import” them into your NetView DM EasyPrep system.

For other software products, you create the software definition by completing a software definition notebook.

Assign one or more model response files to each software product.

Define groups of software products that you intend to distribute together.

Having defined a software group, you can build response files and change files for the group of products all at once rather than one product at a time. Additionally, if the model response files so specify, you can validate that it is possible to install the products together.

If you are working at a preparation site for SPMF, you download definitions of software groups from the SPMF database in the *Read from SPMF* dialog.

Retrieving Workstation and Software Definitions from SPMF (Read from SPMF icon)

If you are working at a preparation site for SPMF, in this dialog you retrieve from the SPMF database definitions of:

Individual workstations

Workstation groups (called *groups* in SPMF)

Software groups (called *packages* and *profiles* in SPMF)

The workstations where a particular software group has been installed, or where the SPMF administrator has indicated the software group will be installed

Creating Response Files and Change Files (Configuration and Packaging icon)

Supply workstation-independent parameters.

In this task, called *global configuration,* you begin the process of generating response files to install the products in a software group on a set of workstations. The configuration you create here is called *global* because it applies to a model workstation; later you supply values for workstation-dependent parameters.

You select a specific model response file for each software product in the group. If the model response files so specify, at this time you provide values for variables that are not workstation-dependent.

During this task, NetView DM EasyPrep checks the model response files to see that they do not indicate that it is not possible to install the products together.

Match workstations or workstation groups with the configured software group.

Provide workstation-specific parameters required for response file generation.

During this task, called *local configuration,* NetView DM EasyPrep checks that the specified workstations meet the hardware and software prerequisites of the software in the group.

Generate response files.

NetView DM EasyPrep generates a response file for each CID-enabled product in the group for each workstation in the configuration.

Package for installation.

In this task, you specify how you want to install a product (for example, you specify the target directory). NetView DM EasyPrep generates a change file for each product in the group.

If you are planning installation on a workstation that has no operating system installed, in this step you create boot diskettes optionally including information about how to partition and format the workstation's hard disk.

Getting Help with the Dialogs

For each of the major tasks you do with NetView DM EasyPrep, this chapter shows you how to get into the dialog and outlines the major steps in performing the task. For help with specific steps in the dialogs, such as supplying values for specific fields, use the online help.

The windows in the NetView DM EasyPrep dialogs have contextual help for:

Each choice in the menu bar and in the pull-down menus
Each window
Each field in a window

You can view a help window in the following ways:

For a choice in the menu bar or in a pull-down menu, position the cursor on the choice and press F1.

For a window, select **Extended Help** from the **Help** pull-down of the window, or press F2 while in Help.

For a field in a window, move the cursor to the field and select the **Help** push button, or press F1.

Getting Help for Dialog Messages

Most NetView DM EasyPrep messages appear in a pop-up window. If the pop-up window has a **Help** push button, select it to view a help window giving an explanation of the message.

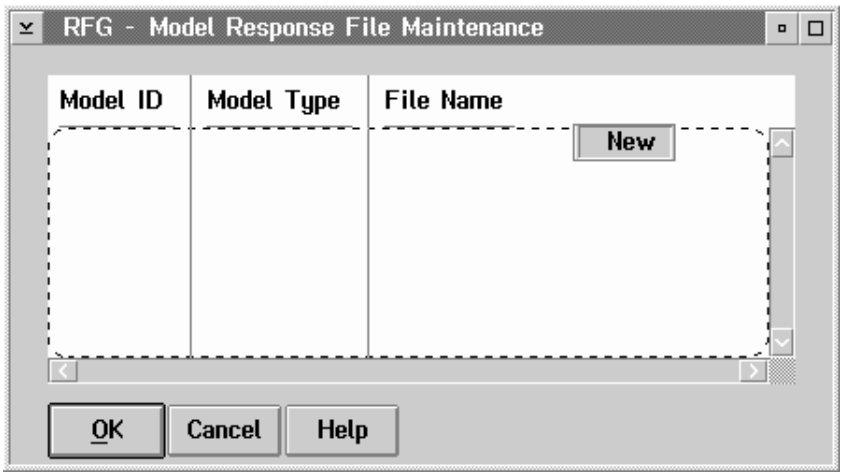
The **Messages** icon in the NetView DM EasyPrep folder gives explanations of all the NetView DM EasyPrep messages. Click on a specific message to view help for that message.

Identifying Model Files to NetView DM EasyPrep

In this step, you identify to NetView DM EasyPrep the model response files and model workstation description files you will be using. Before you do this step, the model response file or model workstation description file must already exist on your workstation. The file to be identified may be one that came with NetView DM EasyPrep, or it may be one you created.

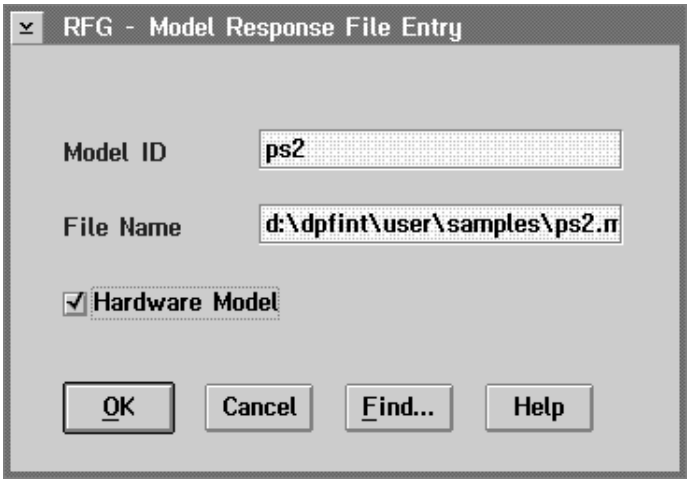
To identify sample model files that came with NetView DM EasyPrep, use “Importing Sample Model Files” on page 55 in conjunction with this section.

To identify model response files and model workstation description files to NetView DM EasyPrep, double-click on the **Maintain Model Response Files** icon in the NetView DM EasyPrep folder. The RFG - Model Response File Maintenance window appears.

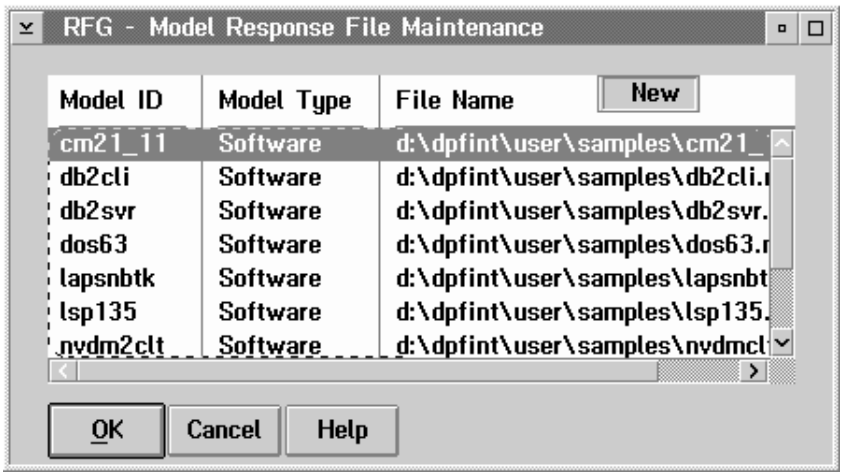


Use mouse button 2 to click on any blank space in the window. Then select **New.**

The RFG - Model Response File Entry window appears. Fill in the information requested, and check the Hardware Model box if you are identifying a model workstation description file.



Model response files that you identify appear in the Model Response File Maintenance window.



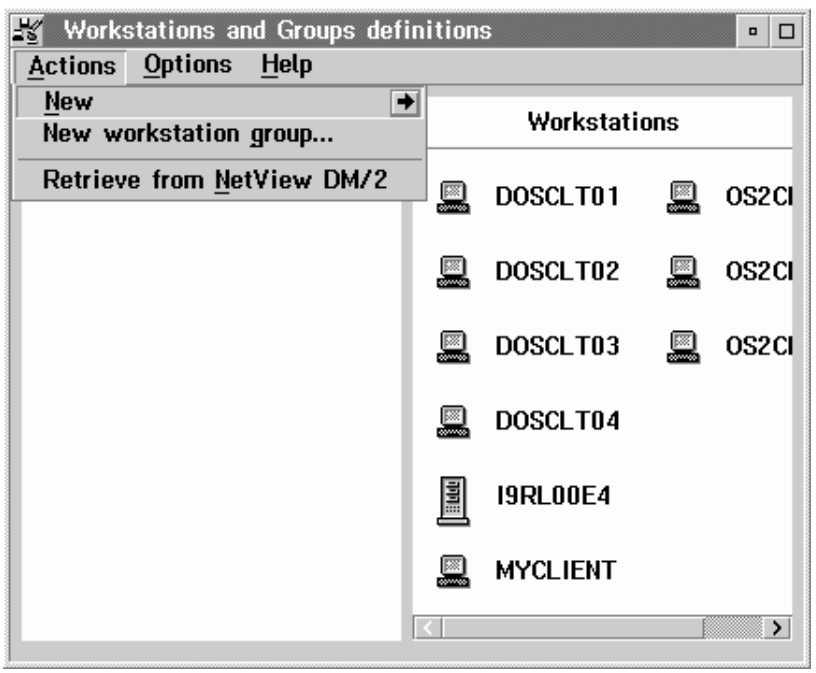
Defining Workstations and Groups of Workstations

The following sections explain how to define, configure, and group your workstations. You must complete this process for a workstation before you can generate response files or change files to be distributed to that workstation.

To begin, double-click on the **Workstations** icon in the NetView DM EasyPrep folder. The Workstations and Groups Definition window appears.

Identifying Workstations to NetView DM EasyPrep

Click on **Actions** in the menu bar of the Workstations and Groups Definition window.



Now you can retrieve workstation definitions from NetView DM/2 or define new workstations.

SPMF Note

If you are working at a preparation site for SPMF, You get your workstation definitions from SPMF in the *Read from SPMF* dialog. Your **Actions** menu in this window includes a **Refresh** option. After downloading from SPMF, use **Refresh** to see the downloaded workstations.

Retrieving Workstation Definitions from NetView DM/2

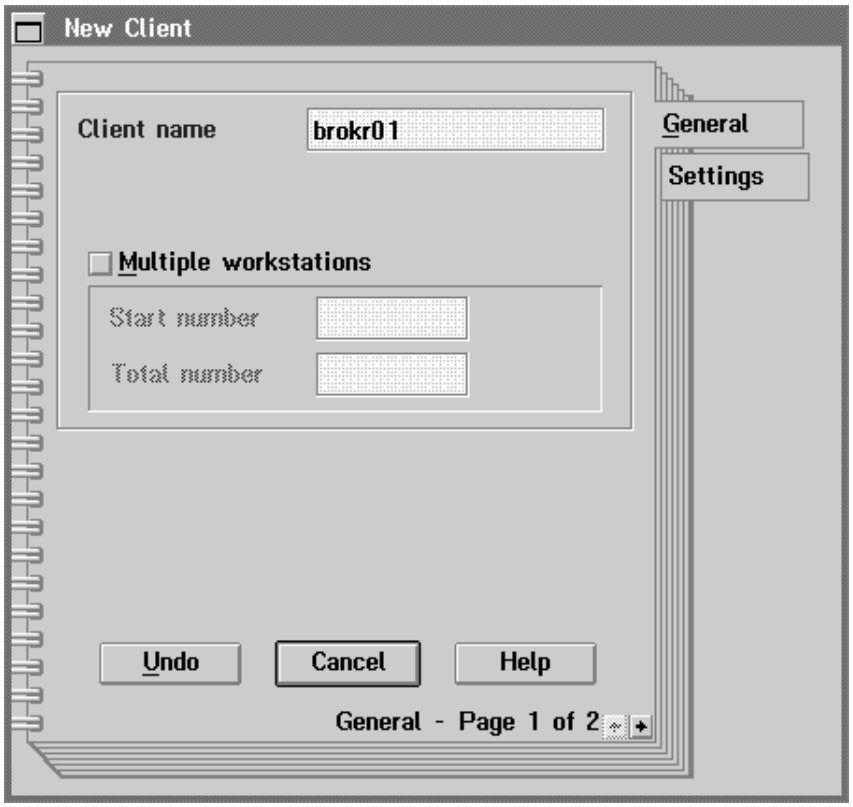
If you are working at a CC server, NetView DM/2 already has definitions of the server's CC clients.

If you are working at a remote administrator workstation, NetView DM/2 already has definitions of the CC servers and CC clients in the remote administrator's domain. Select **Retrieve from NetView DM/2** to tell NetView DM EasyPrep to retrieve definitions of those workstations and give you the option of importing the definitions into NetView DM EasyPrep The workstations you import appear in the Workstations container.

Defining Workstations

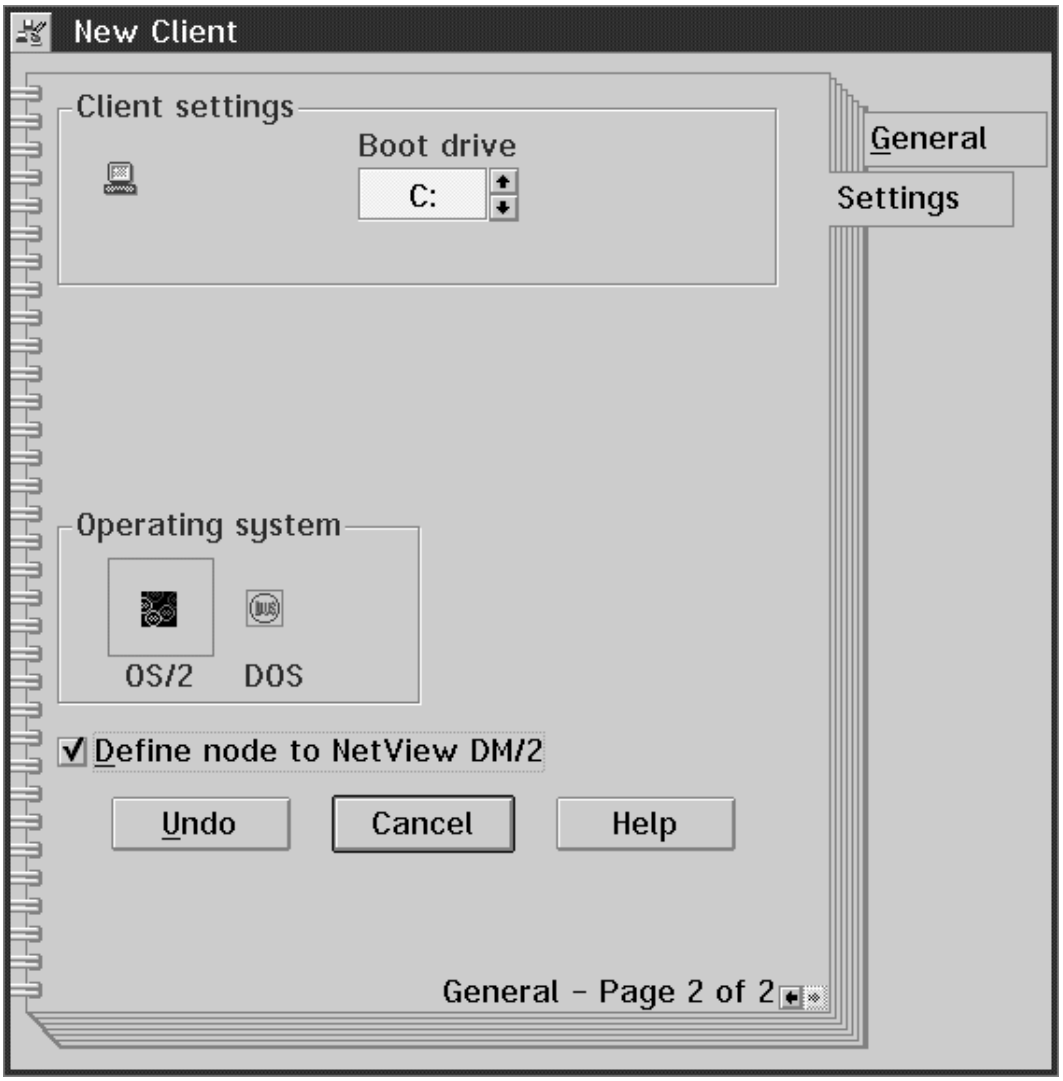
To define a new workstation to NetView DM EasyPrep, click on **New** in the menu bar pull-down of the Workstations and Groups Definition window. Alternatively, use mouse button 2 and click on any blank space in the Workstations container, then on **New** in the pop-up window. If you are working at a remote administrator workstation, click on the arrow to the right of **New** and indicate whether you are defining a CC server or a CC client.

If you are defining a CC client, the New Client notebook appears:



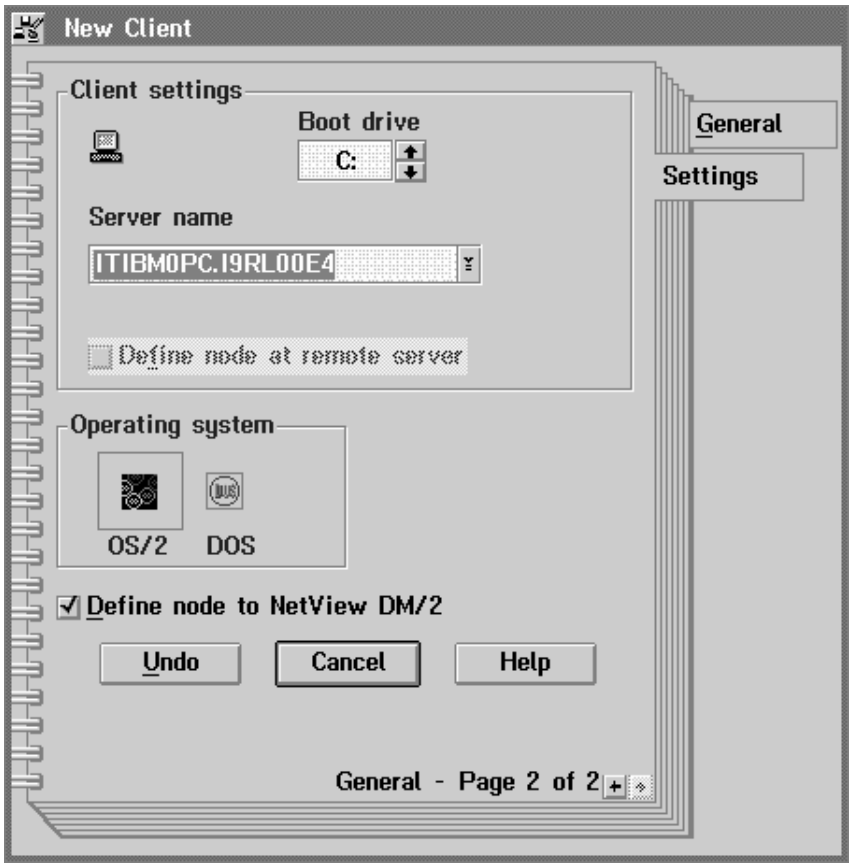
Be sure the name you specify is the name by which NetView DM/2 knows the client.

On the second page of the New Client notebook, you can specify that NetView DM EasyPrep is to define the new client to NetView DM/2:



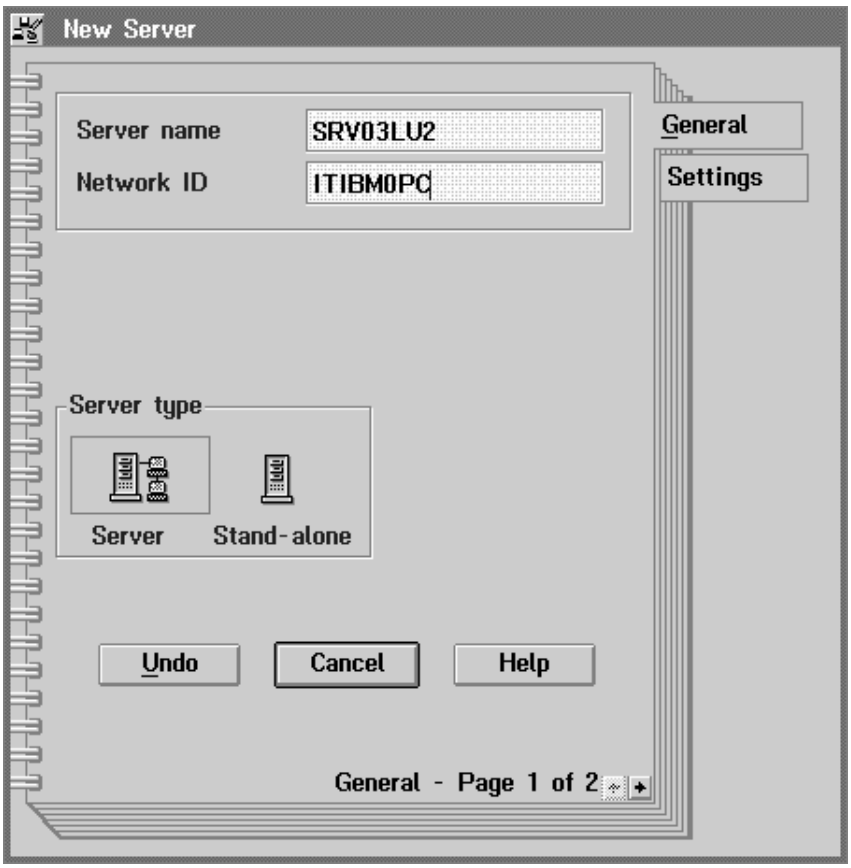
Defining Workstations and Groups

If you are working at a remote administrator workstation, the second page of the New Client notebook looks a little different, because you must specify the server to which the new client belongs:



Fill in the information requested to define one or more new CC clients, and close the notebook. The workstations you define appear in the Workstations container.

If you are working at a remote administrator workstation and you are defining a CC server, the New Server notebook appears:



Fill in the information requested to define a new CC server.

Be sure the name you specify is the name by which NetView DM/2 knows the server. When you close the notebook, the CC server you defined appears in the Workstations container.

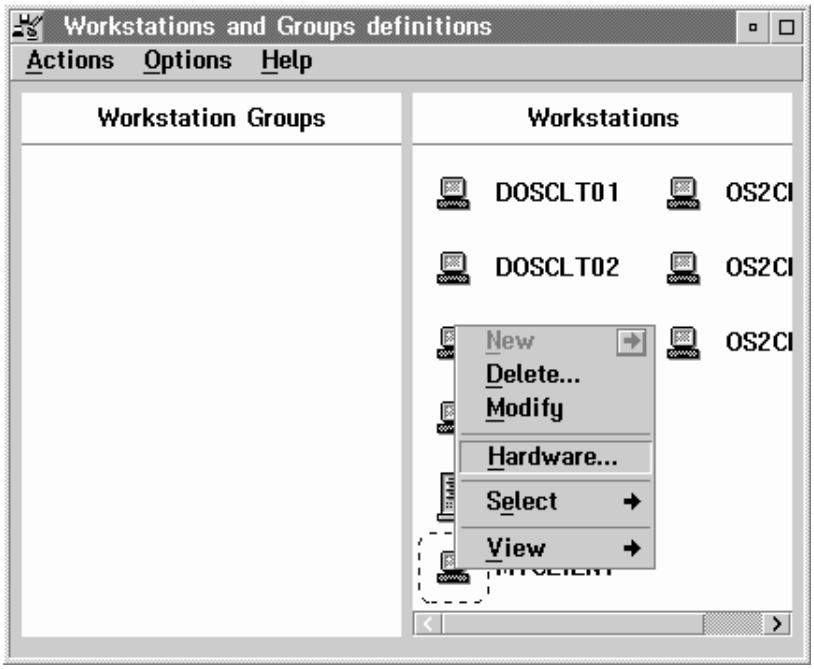
Maintaining Workstation Definitions

To change or delete a workstation definitions, click on the workstation in the Workstations container using mouse button 2. The pop-up menu that appears includes options to change and delete the definition.

Configuring Workstation Descriptions

Now you supply to NetView DM EasyPrep specific details about the hardware configuration of a specific workstation. When NetView DM EasyPrep builds a response file to install a software product on this workstation, it checks the hardware dependencies specified in the model response file against the values you supply here.

In the Workstations and Groups Definition window, use mouse button 2 to select one or more workstations in the Workstations container, and select **Hardware** from the pop-up menu.



The RFG - Hardware Model Assignment window appears. Select a model workstation description and click on **OK.** If the model workstation description file so specifies, NetView DM EasyPrep displays the RFG - Hardware Configuration notebook where you supply specific values for variables.

Defining Workstation Groups

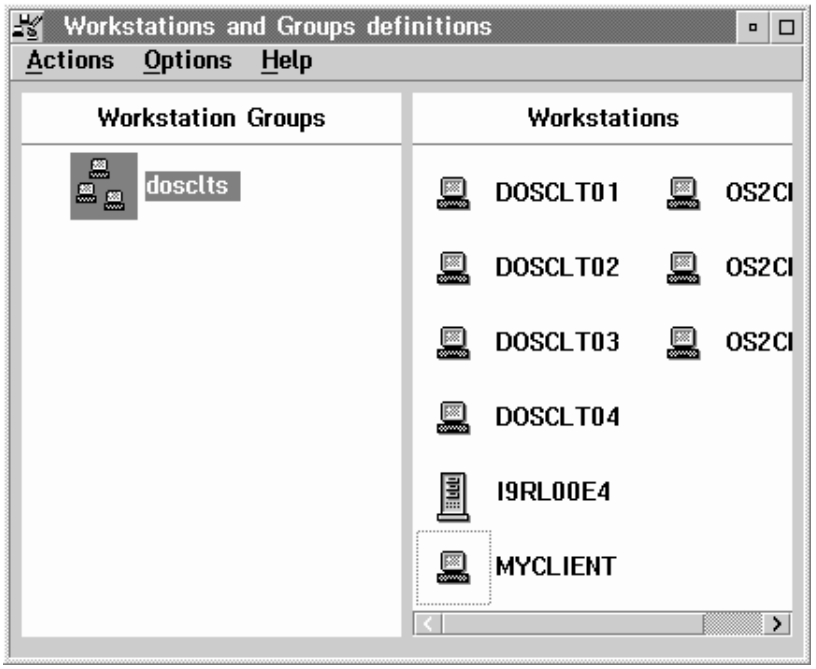
If you want to distribute the same software to two or more workstations, define a workstation group so you can create response files and change files for all the workstations at once.

SPMF Note

If you are working at a preparation site for SPMF, you will get most of your workstation group definitions from SPMF in the *Read from SPMF* dialog. You can, however, use this dialog to create new groupings of workstation definitions received from SPMF.

In the Workstations and Groups Definition window, click on **Actions** in the menu bar and **New workstation group...** in the pull-down menu. Alternatively, use mouse button 2 to click on any blank space in the Workstation Groups container and then click on **New** in the pop-up menu. The New Workstation Group window appears:

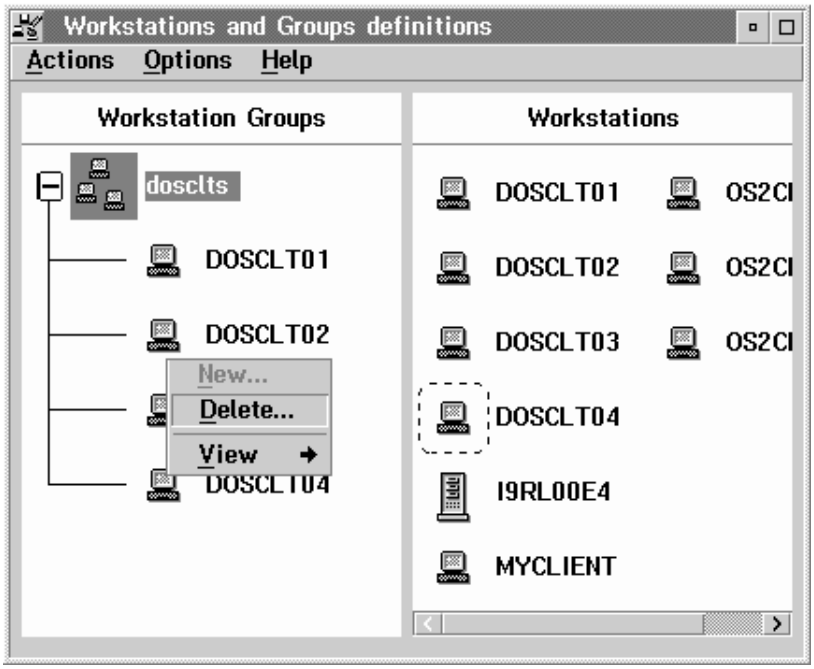
After you enter a name for the group and click on **Add,** an icon for the new group appears in the Workstation Groups container.



To add a workstation to the group, use mouse button 2 to click on the workstation. Holding mouse button 2 down, drag the icon of the workstation into the Workstation Groups container and drop it on top of the icon for the group.

To see the workstations that are in a group, click on the + to the left of the group icon; the tree view of the group appears.

To delete a workstation from a group, use mouse button 2 to click on the workstation in the tree view of the group, and click on **Delete** in the pop-up window.



Defining Software and Groups of Software Products

The following sections explain how to define and group the software products you intend to distribute. You must complete this process for a software group before you can generate response files or change files to distribute the group to workstations.

If you are working at a preparation site for SPMF, you can define software products but not software groups. In the *Read from SPMF* dialog, you retrieve definitions of software groups from the SPMF database. Then you can use the *Software Library* dialog to add products to or delete products from an SPMF-defined software group.

To begin, double-click on the **Software Library** icon in the NetView DM EasyPrep folder. The Software and Software Groups window appears.

Identifying Software Products to NetView DM EasyPrep

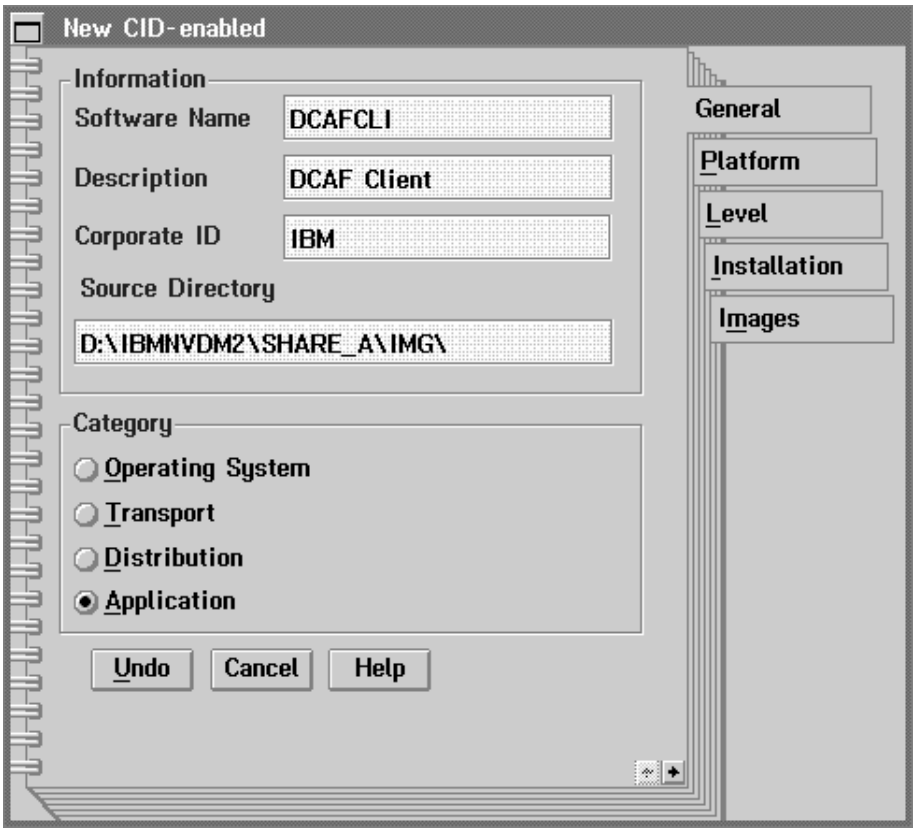
In this dialog, you tell NetView DM EasyPrep about the software products you intend to distribute. You identify each *installable unit*—an item of software that you install separately from other items. In many cases, an entire software product is a single installable unit. For products that have server and client features, or other separately installable features, you must define each installable unit.

To import the software definitions that came with NetView DM EasyPrep, use “Importing Sample Software Definitions” on page 56 in conjunction with this section.

Defining New Software

To define a software product for which no definition comes with NetView DM EasyPrep, click on the arrow to the right of **New Software Definition** in the menu bar pull-down menu of the Software and Software Products menu. Alternatively, use mouse button 2 and click on any blank space in the Software Library container, then on the arrow to the right of **New** in the pop-up window.

In either case, a notebook to define a new software installable unit appears:



If the product is CID-enabled, this is where you specify the name and parameters of the installation program. If the product is not CID-enabled, use this notebook to specify how the system files are to be customized on the target workstation:

Through changes that you specify as part of the dialog
Through a DiskCamera modification file
Through a setup program

Depending on the type of software, this notebook may also ask you to specify the program name and parameters for other types of installation (for example, installation from a boot diskette or from a maintenance partition).

Go through the pages of the notebook and fill in the information requested to define the new software product; then close the notebook. Use the online help if you need information about how to fill in specific fields. The software product you define appears in the Software Library container.

SPMF Note

If you are working at a preparation site for SPMF, be sure you define the *base product, corporate ID, level* or *old level,* and *new level or problem number* exactly as they are defined to SPMF; if there is any discrepancy, NetView DM EasyPrep will consider the product defined here and the product defined to SPMF to be two different products.

You can also use this dialog to define products that have not been defined to SPMF, and add those products to downloaded software groups.

Maintaining Software Definitions

To change or delete a software definition, click on the software product in the Software Library container using mouse button 2. The pop-up menu that appears includes options to change and delete the definition.

Exporting Software Definitions

You can create a file of all your software definitions, which a user at another NetView DM EasyPrep site can import. From the menu bar of the Software and Software Groups window, select **Software** and **Export Library.** Supply the name of the export file, and NetView DM EasyPrep loads all your software definitions into the file.

Importing Software Definitions

You can import software definitions from a file created at another NetView DM EasyPrep site. From the menu bar of the Software and Software Groups window, select **Software** and **Import Library.** Supply the name of the file, and NetView DM EasyPrep imports the software definitions you select. The newly defined products appear in the Software and Software Groups window the next time you refresh it.

Loading Product Images

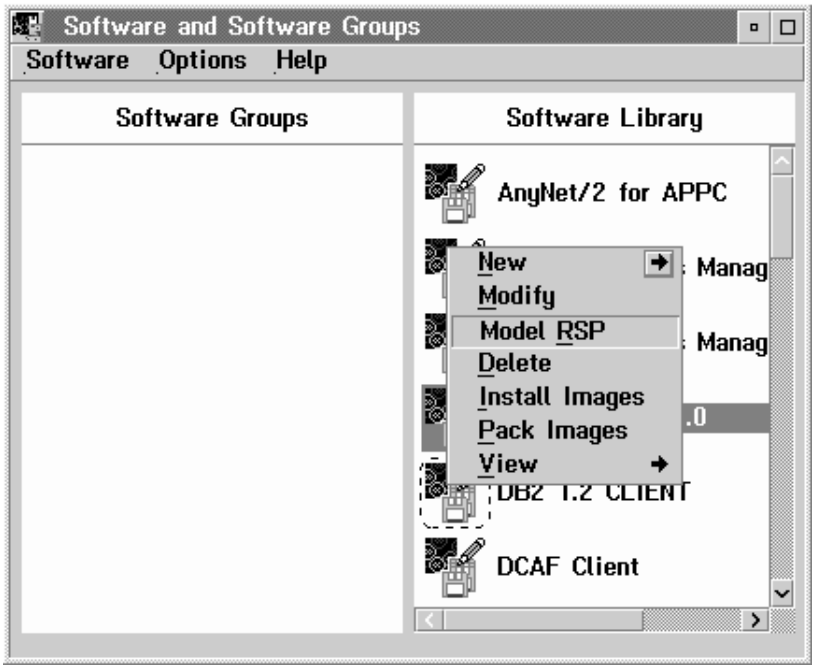
To load the images of a CID-enabled software product on your workstation, click on the software product in the Software Library container using mouse button 2. The pop-up menu that appears includes an option to load the software images. NetView DM EasyPrep prompts you to insert the product diskettes or to start a product-specific program that loads the diskette images.

Packing Product Images

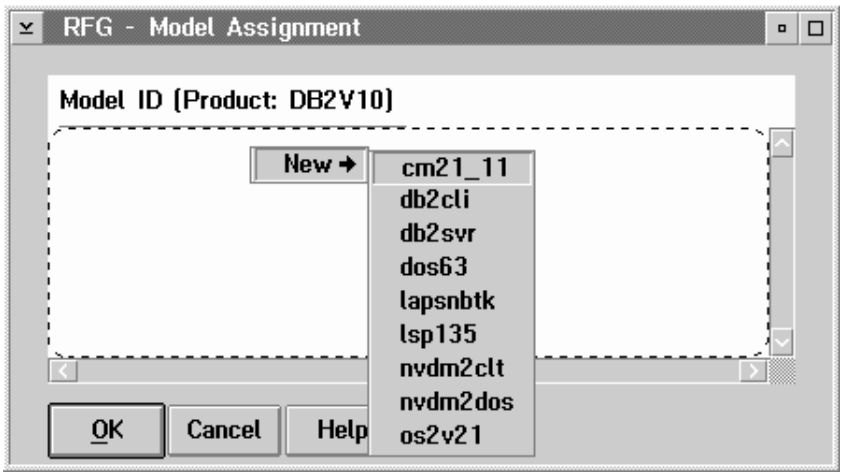
If you are working at a remote administrator workstation or a remote preparation site, you can pack the images of a product into a change file to be sent to another node. Click on the software product in the Software Library container using mouse button 2. The pop-up menu that appears includes an option to pack the software images.

Assigning Model Response Files to Software Products

To assign a model response file to a CID-enabled software product, use mouse button 2 to select a software product in the Software Library container of the Software and Software Groups window, and then select **Model RSP** from the pop-up menu.



The RFG - Model Assignment window appears. Click on any blank space in the window and then on **New** to get a list of available model response files.



Click on one or more model response files to assign them to the software product.

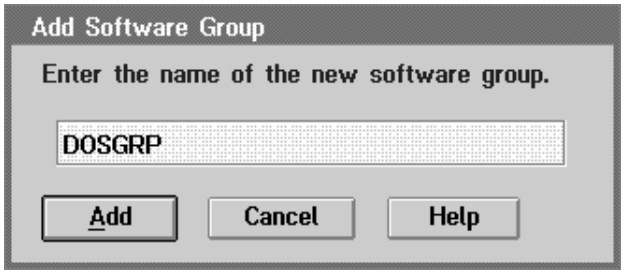
Defining Software Groups

The next step is to define a group of software products for which you want NetView DM EasyPrep to create response files and change files at the same time for the same group of workstations. You must define a software group even if it consists of only one software product.

SPMF Note

If you are working at a preparation site for SPMF, you cannot create a new software group; you get software group definitions from SPMF in the *Read from SPMF* dialog. Having retrieved a software group definition, you can add and delete products within the definition.

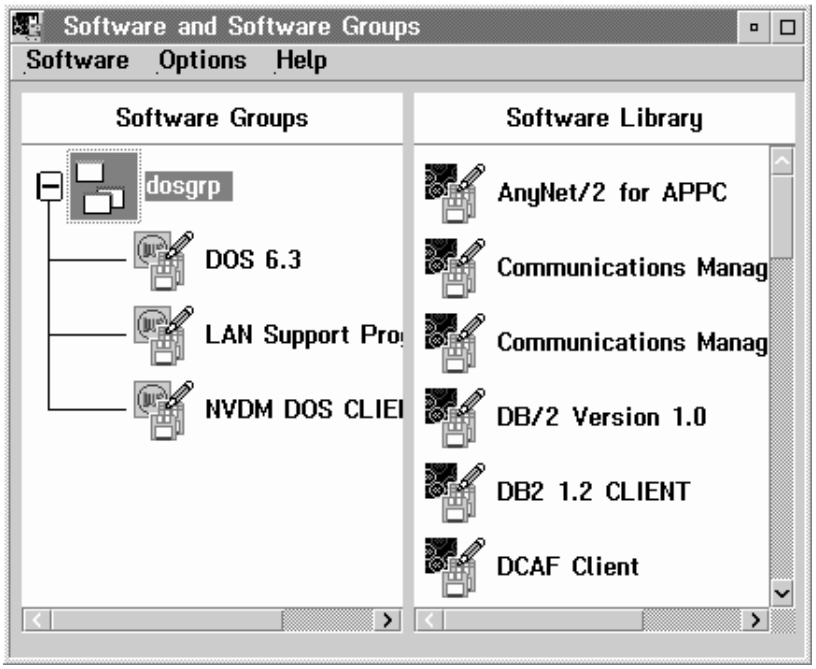
Click on **Software** in the menu bar and **New Software Group** in the pull-down menu of the Software and Software Groups window. Alternatively, use mouse button 2 to click on any blank space in the Software Groups container and then click on **New** in the pop-up menu. The Add Software Group window appears:



When you supply a name for the group and click on **Add,** the new group appears in the Software Groups container.

To add a software product to the group, use mouse button 2 to click on the product. Holding mouse button 2 down, drag the icon of the product into the Software Groups container and drop it on top of the icon for the group.

To see the software products that are in a group, click on the + to the left of the group icon; the tree view of the group appears:



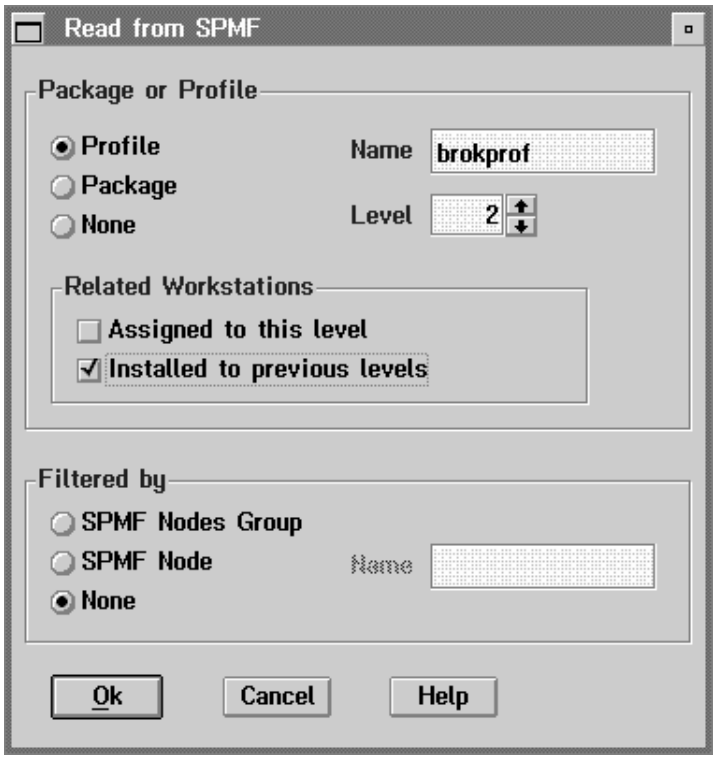
To delete a product from a group, use mouse button 2 to click on the product in the tree view of the group, and click on **Delete** in the pop-up window.

Retrieving Workstation and Software Definitions from SPMF

If you are working at a preparation site for SPMF, this section tells you how to retrieve definitions of workstations, workstation groups, and software groups from the SPMF database.

Reading from SPMF

To begin, double-click on the **Read from SPMF** icon in the NetView DM EasyPrep folder. The Read from SPMF window appears.



In this window, specify what you want to download. You must specify the name by which SPMF knows the workstation, workstation group, or software group.

The definition of a single workstation (**SPMF Node**).

The definition of a workstation group (**SPMF Node Group**).

The definition of a software group (**Profile** or **Package**). NetView DM EasyPrep downloads those entries in the profile or package that conform to the naming convention in Appendix B, “How NetView DM EasyPrep Names Change Files” on page 93.

The definition of a software group (**Profile** or **Package**) together with the definitions of the workstations on which a previous level of the profile or package was installed.

The definition of a software group (**Profile** or **Package**) together with the definitions of the workstations on which the SPMF administrator has specified that this profile or package is to be installed.

When you click on **OK**, if you are not already logged on to MVS, you are prompted for your user ID and password. Be sure to use the user ID that is authorized to the SPMF database (as explained in “Defining User Authorization to Access the SPMF Database” on page 18).

You can see the downloaded software groups in the Software and Software Groups window. Use the *Software Library* dialog to assign model response files to the

software as explained in “Assigning Model Response Files to Software Products” on page 39.

Downloaded workstations and workstation groups appear in the Workstations and Groups Definition window. The name of a downloaded workstation is the REN portion of the workstation's name in the network. Use the *Workstations* dialog to configure the downloaded workstations as explained in “Configuring Workstation Descriptions” on page 34.

Note that downloading software information deletes any software groups already defined, and downloading workstation information removes any workstations or workstation groups already defined. Software group configurations, however are retained. If you download the same software group again, previous configurations are available to you.

Creating Response Files and Change Files

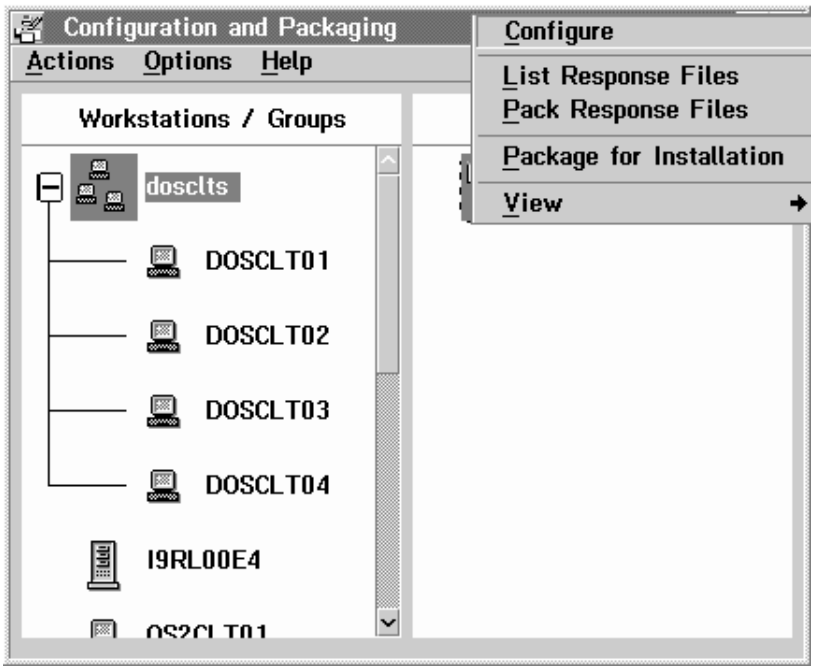
Having defined and grouped your workstations and software products, you are ready to create response files and change files.

To begin, double-click on the **Configuration and Packaging** icon in the NetView DM EasyPrep folder. The Configuration and Packaging window appears.

If your software group consists entirely of non-CID-enabled products, you create only change files, not response files. The only step of this dialog that applies is “Packaging for Installation” on page 48.

Supplying Workstation-Independent Parameters

Using mouse button 2, click on the software group you want to configure, and click on **Configure** in the pop-up menu of the Configuration and Packaging window.



The New Base Configuration window appears. After you enter a name for the new base configuration, the RFG - Model Assignment window appears. Select each product from the software group in turn, and use mouse button 2 to click on the Model ID field. A list of model response files assigned to the product appears in a pop-up window. Select a model response file for each product and, when you have finished, click on **OK**. The RFG - Group Value Configuration window appears.

If the model response files you selected so specify, NetView DM EasyPrep now prompts you for values for global response file variables. The values you supply will apply to all workstations for which response files and change files are created. The result of this step is a *global configuration,* so called because it is independent of the destination workstation.

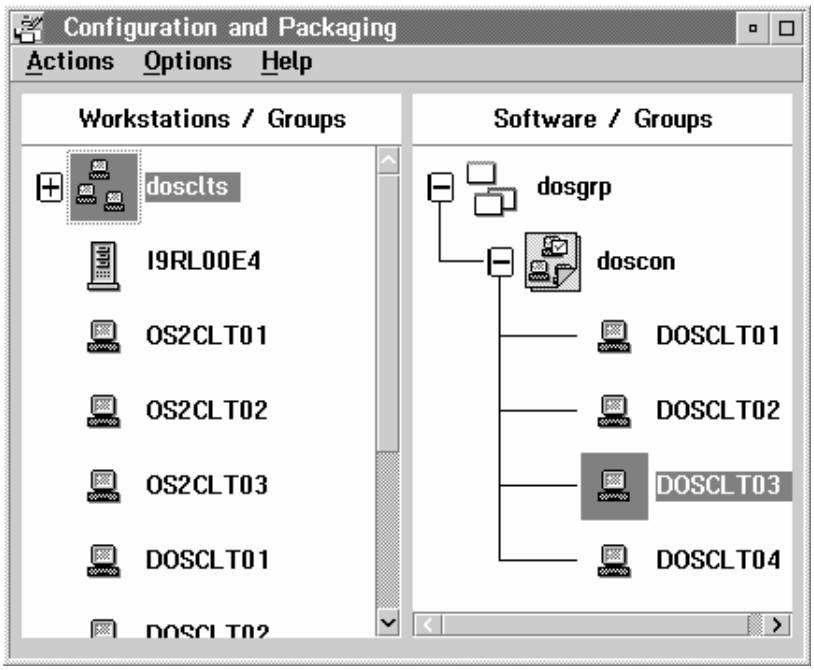
When you finish creating the named configuration, switch to the tree view of the configured software group in the Configuration and Packaging window and click on the + to the left of the group. An icon for the named configuration appears.

Note that you can create multiple named configurations for the same software group, choosing different model response files or supplying different values for the global response file variables.

Matching Workstations with a Software Group

Continuing in the Configuration and Packaging window, identify the workstations and workstation groups that you want to combine with a global configuration. Use mouse button 2 to drag the icon for a workstation or group and drop it on top of the icon for the global configuration.

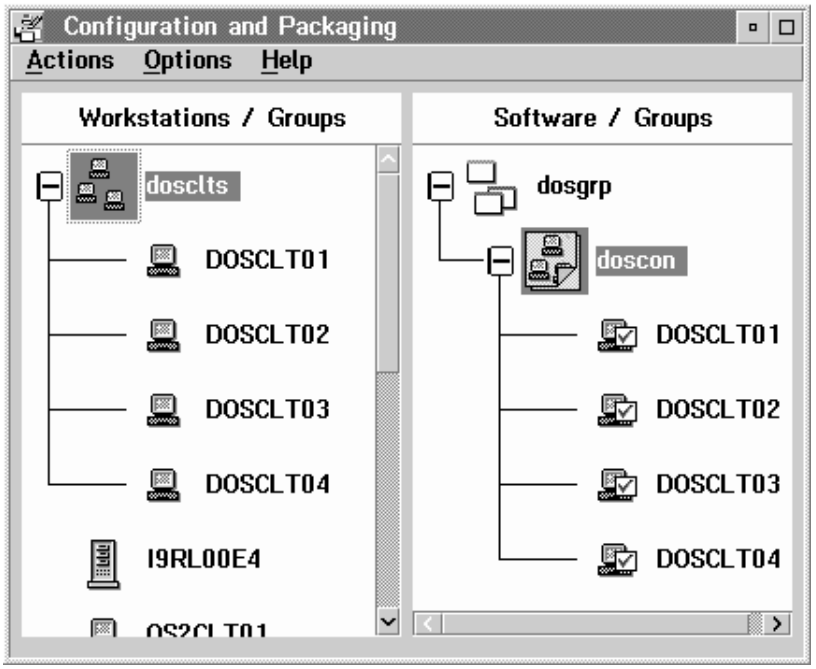
The tree view of the configuration shows you the associated workstations. Note that all these workstations inherit the configuration values you already supplied when you created the global configuration.



Supplying Workstation-Dependent Parameters

For each workstation you have associated with a global configuration, use mouse button 2 to click on the workstation and then click on *Configure* in the pop-up menu. Alternatively, if you want to configure multiple workstations together, click on the icon for the global configuration.

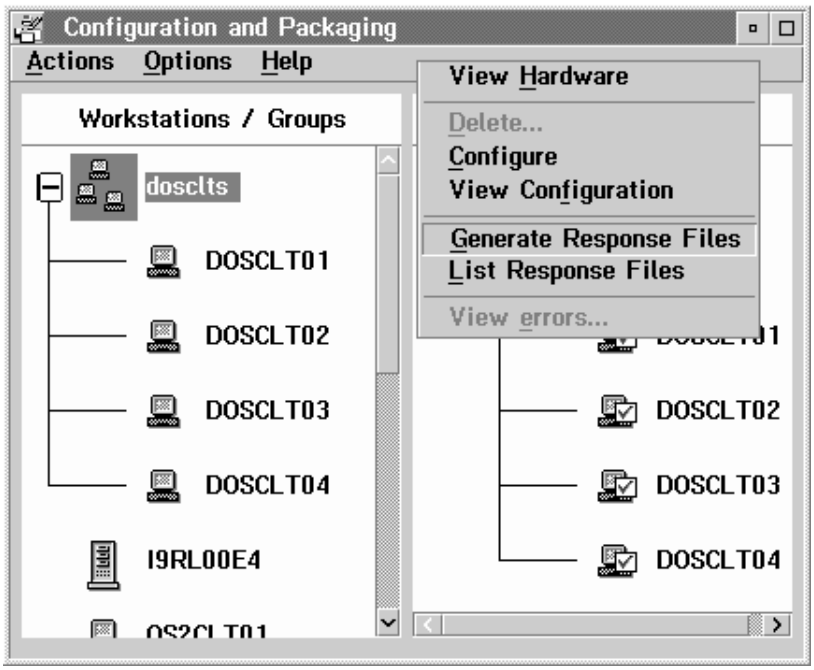
If the model response files for the software so specify, NetView DM EasyPrep displays the RFG - Local Value Configuration notebook to request that you enter values for workstation-dependent parameters. NetView DM EasyPrep checks the values you supply against local requirements specified in the model response files. The result of this step is a *local configuration,* which is specific to each destination workstation.



If any errors occur during this validation process, you may get a message telling you to see the error log. Click on the workstation with mouse button 2 and click on **View Errors** in the pop-up menu to see the error log.

Generating Response Files

After you have successfully configured each workstation, use mouse button 2 to click on the icon for the configuration in the Configuration and Packaging window. Click on **Generate Response Files** in the pop-up menu.



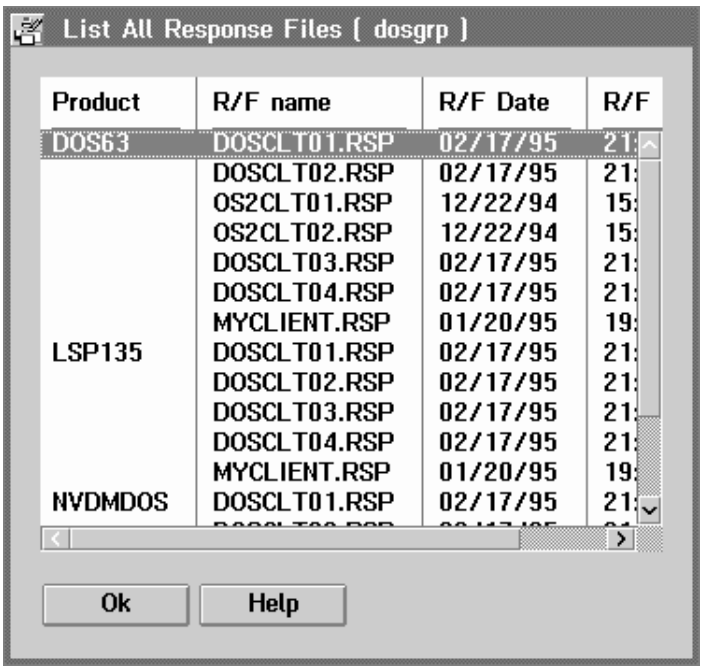
NetView DM EasyPrep generates a response file for each combination of software product and workstation. The workstations are removed from the configuration. The software configuration remains intact; you can use it later to create response files for additional workstations. Each response file is named *product**workstation*.RSP in the response files directory (by default, IBMNVDM2\SHARE_A\RSP).

Alternatively, you can select the icon for any configured workstation and generate its response files independently.

Listing Response Files

After response file generation, you can view a list of the response files.

Use mouse button 2 to click on the software group in the Configuration window and select **List Response Files** from the pop-up menu. The List All Response Files window appears:

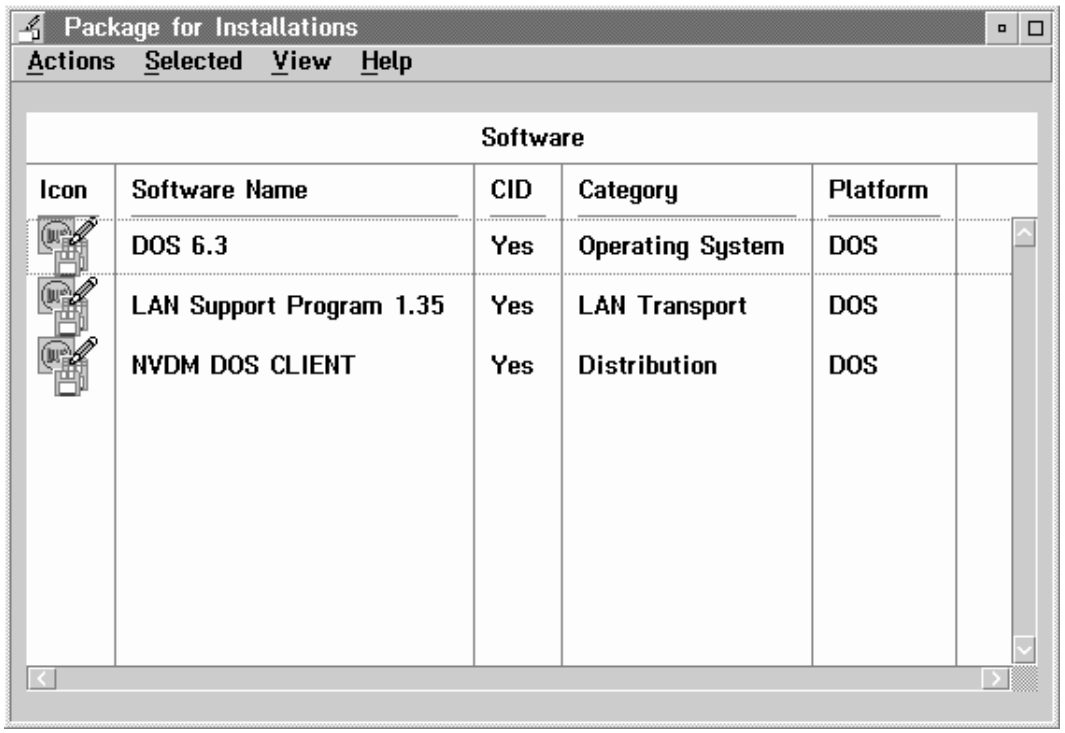


Packing Response Files

If you are working at a remote administrator workstation or a remote preparation site, you have the **Pack Response Files** option, which allows you to pack response files into change files to send to another node. This option creates a separate change file for each product for each CC server, including response files for workstations in that server's domain.

Packaging for Installation

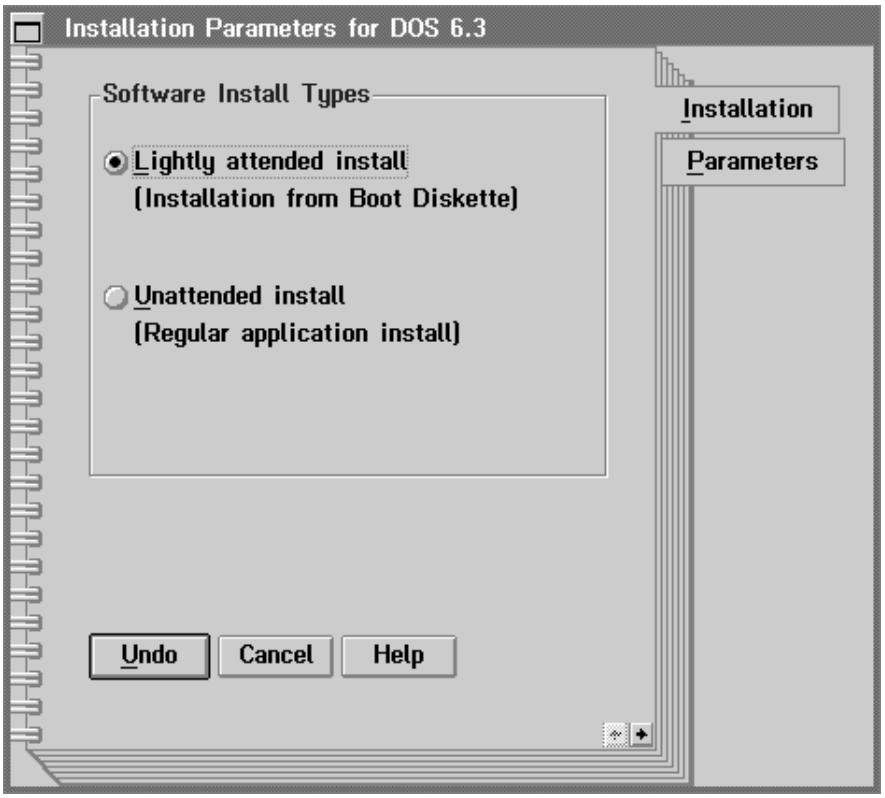
Now you are ready to create change files to install the products in the software group. To start, in the Configuration and Packaging window, use mouse button 2 to click on a software group, then on **Package for Installation** in the pop-up window. The Package for Installation window appears:



In the Package for Installation window, you specify how you want NetView DM/2 to install the products in the software group. Double-click on each product in the group in turn. The Installation Parameters notebook appears.

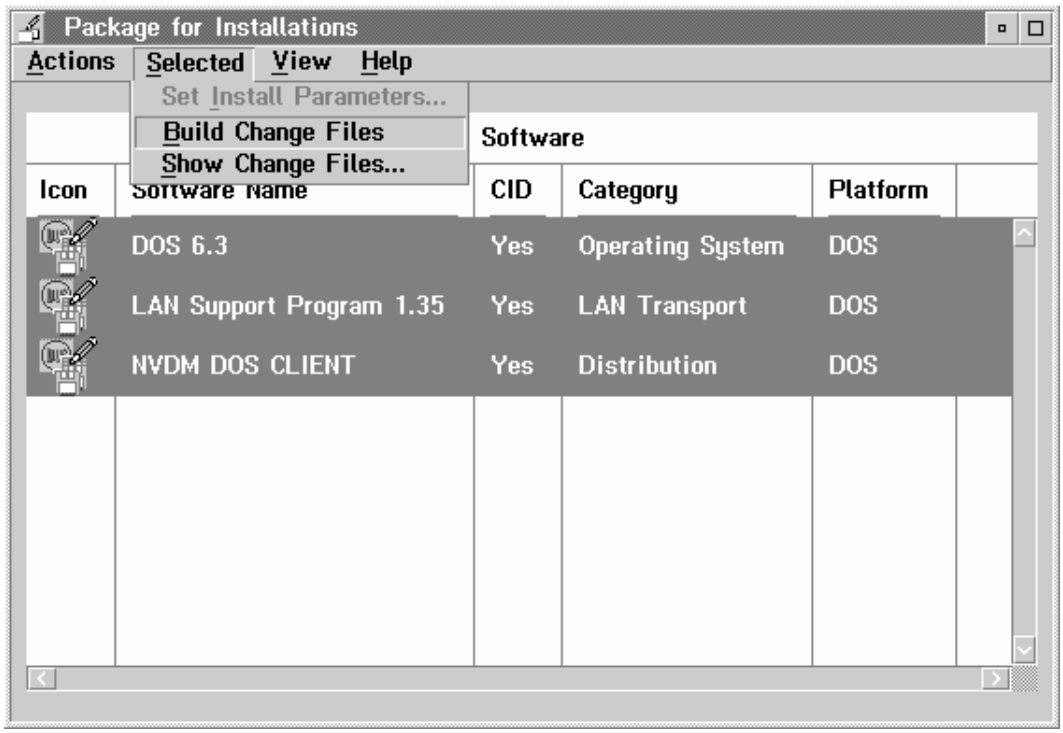
Setting Installation Parameters

Follow the notebook and fill in the parameters to tell NetView DM/2 how to install each product in the group:

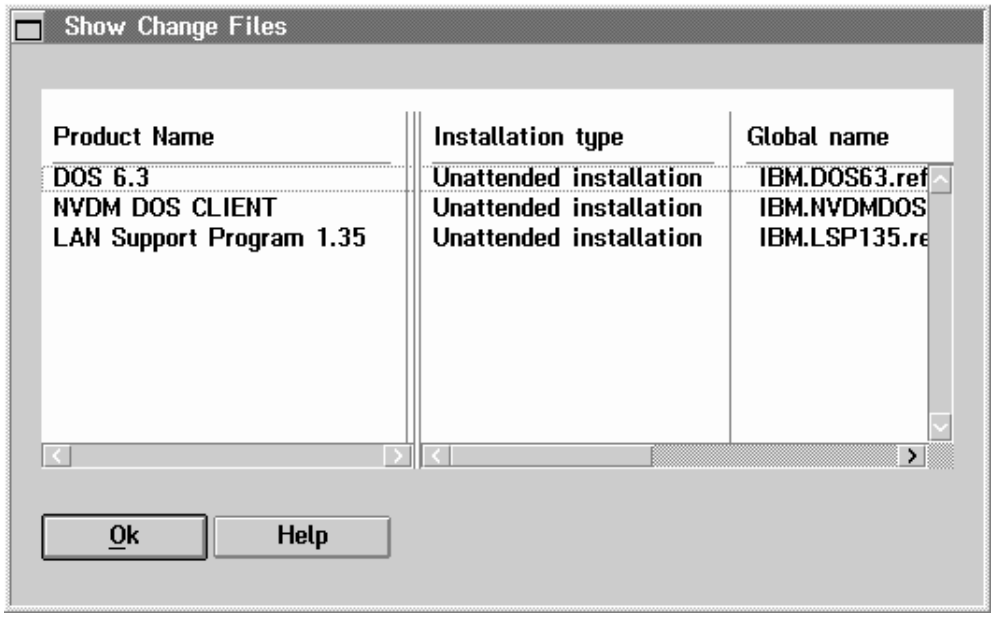


Building Change Files

Now you are ready to generate change files to install products. Select the products for which you want to build change files. Then from the **Selected** pull-down menu, select **Build Change Files.**



When the build is complete, you can select **Show Change Files** from the **Selected** pull-down menu to see a list of change files created.



For information about how NetView DM EasyPrep names change files, see Appendix B, “How NetView DM EasyPrep Names Change Files” on page 93.

If a product is not CID-enabled and you specified changes for a modification file when you defined the product, NetView DM EasyPrep builds the modification file as part of change file generation.

The change files are ready for a NetView DM product to distribute. From a CC server, use NetView DM/2 interfaces to install on your CC clients. From a remote administrator workstation or a CC single node, use NetView DM/2 interfaces to send the change files to another node for distribution.

Preparing for a Pristine Installation

If you are planning a pristine installation of this software group (an installation from boot diskettes on a workstation that has no operating system installed), click on **Actions** in the menu bar. You now have three options:

Select **Partitioning** to specify that you want the hard disk of the pristine workstation to be partitioned.

Select **Formatting** to specify that you want the hard disk of the pristine workstation to be formatted.

Select **Create boot diskettes** when you have specified your partitioning and formatting options and are ready to create boot diskettes. NetView DM EasyPrep prompts you to enter diskettes as required.

Chapter 4. Using NetView DM EasyPrep Sample Files

The NetView DM EasyPrep diskettes contain various sample files for your use. The samples include:

- Software definitions for various products
- Model response files for various products
- A model workstation description file
- User exit procedures to collect data for response files

The sample files are ready to use; you need only unpack them and start using them, or edit them to meet your needs.

List of Sample Software Definitions

The file SOFTWARE.EXP contains definitions for various software products. You can import these definitions into your NetView DM EasyPrep system, as described under “Importing Sample Software Definitions” on page 56, rather than defining the products yourself. The software definitions supplied are:

Table 6. NetView DM EasyPrep Sample Software Definitions

CM/2 1.0	CM/2 1.11
DB2/2 1.0	DB2/2 1.2
DCAF 1.3 controller, gateway, and LAN directory	DCAF 1.3 DOS target
DCAF 1.3 Windows target	DDCS/2
DOS 6.3	DOS 7.0
LAN Server 3.0 server component	LAN Server 3.0 LAN requester component
LAN Server 4.0 server component	LAN Server 4.0 LAN requester component
LAN Support Program 1.35	LAN Support Program 1.36
LAPS 7045	Lotus 1-2-3 for OS/2
NetView DM EasyPrep	MPTS for OS/2
NetView DM/2 2.1 DOS client	NetView DM/2 2.1 OS/2 client
NetView DM/2 2.1 Extended Package	OS/2 2.1
OS/2 2.11	OS/2 Warp 3.0
OS/2 Warp 3.0 Full Pack	Windows 3.1

List of Sample Model Files

Table 7 on page 54 lists the names of the sample model response files and the sample workstation definition file.

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Sample Files

Table 7. NetView DM EasyPrep Sample Model Files

File Name	Model Response File for:
CM21_11.MRF	Communications Manager/2 1.11
DB2CLT.MRF	Database 2 for OS/2 client
DB2SVR.MRF	Database 2 for OS/2 server
DCAFC.MRF	Distributed Console Access Facility controller, gateway, and LAN directory
DCAFTDOS.MRF	Distributed Console Access Facility DOS target
DCAFTWIN.MRF	Distributed Console Access Facility Windows target
DDCS2.MRF	Distributed Database Connection Services/2
DOS63.MRF	DOS 6.3
EASYLAN.MRF	NetView DM EasyPrep at a preparation site for stand-alone LAN or remote LANs
EASYSPMF.MRF	NetView DM EasyPrep as a preparation site for SPMF
LANREQ40.MRF	LAN Server 4.0, LAN requester component
LANSRV40.MRF	LAN Server 4.0, server component
LAPSETH.MRF	LAN Adapter Protocol Support for Ethernet
LAPSTOK.MRF	LAN Adapter Protocol Support for NetBIOS token ring
LSPETH.MRF	LAN Support Program for Ethernet
LSPTOK.MRF	LAN Support Program for NetBIOS token ring
MPTS.MRF	Multi-Protocol Transport Services/2
NVDMCLT.MRF	NetView DM/2 OS/2 client
NVDMDOS.MRF	NetView DM/2 DOS client
NVDMRAQ2.MRF	NetView DM/2 with Remote Administrator feature in a stand-alone LAN
NVDMRAQ3.MRF	NetView DM/2 with Remote Administrator feature for remote LANs, possibly with host connection, Remote Administrator does not act as a CC server.
NVDMRAQ4.MRF	NetView DM/2 with Remote Administrator feature for remote LANs, possibly with host connection, Remote Administrator also acts as a CC server.
NVDM2Q2.MRF	NetView DM/2 CC server in a stand-alone LAN
OS2V21.MRF	OS/2 Version 2.1
OS2V211.MRF	OS/2 Version 2.11
OS2V30.MRF	OS/2 Warp Version 3; can be installed on a pristine workstation.
OS2V30FP.MRF	OS/2 Warp Version 3 Full Pack
OS2V30WIN.MRF	OS/2 Warp Version 3 on a workstation with DOS and Windows already installed
PS2.MRF	Model workstation definition file for PS2

List of Other Sample Files

In addition to sample model response files and workstation description files, NetView DM EasyPrep provides the sample files listed in Table 8.

Table 8. NetView DM EasyPrep Sample Files

File Name	Purpose
CHKLEN.CMD	REXX procedure used to check length of a dialog variable
CHKSTR.CMD	REXX procedure used to check data type of a dialog variable
CHKVALUE.CMD	REXX procedure used to check that a value has been supplied for a dialog variable
GETCLT.CMD	REXX procedure used to obtain client names from NetView DM/2
GETSRV.CMD	REXX procedure used to obtain server names from NetView DM/2
OS2LOAD.CMD	REXX procedure used to load OS/2 diskettes
SOFTWARE.EXP	Software product definitions

Using the Sample Files

After installation, go to the USER subdirectory of the directory where you installed NetView DM EasyPrep. From an OS/2 command prompt, enter:

```
SAMPLES
```

and wait for the sample files to be unpacked.

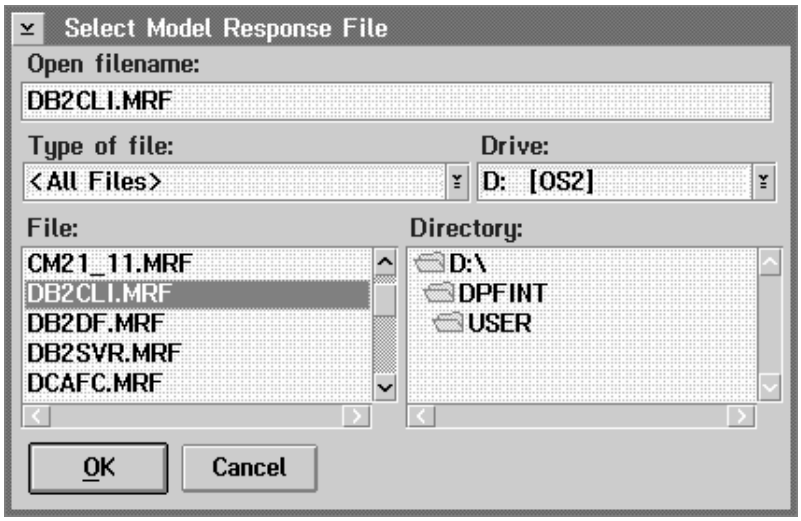
Next you import the sample files into the NetView DM EasyPrep system.

Importing Sample Model Files

To use the sample model response files and model workstation description files, double-click on the **Maintain Model Response Files** icon in the NetView DM EasyPrep folder. The RFG - Model Response File Maintenance window appears. Use mouse button 2 to click on any blank space in the window. Then select **New**. The RFG - Model Response File Entry window appears. Click on **Find...**

Sample Files

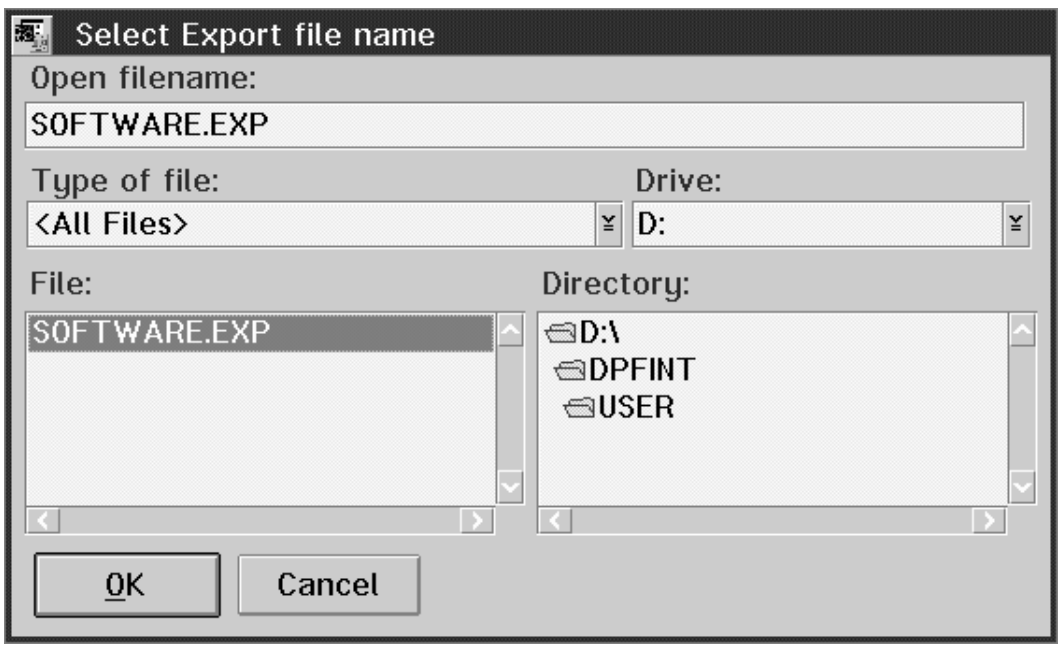
In the Select Model Response File window, choose a file with extension .MRF in the USER subdirectory.



Specify a Model ID that is equal to the name of the model response file and click on **OK** to accept the new model file. Repeat this process for each sample model file you intend to use.

Importing Sample Software Definitions

To use the sample software descriptions, double-click on the **Software Library** icon in the NetView DM EasyPrep folder. From the menu bar of the Software and Software Groups window, select **Software** and **Import Library.** Use **Find...**, and then locate the sample export library file in the Select Export File Name window.



Select the SOFTWARE.EXP file. Click on **OK** and then on **OK** in the Importing Software Definitions window. Select the products you want to import, click on **Import**, and wait until loading of the product definitions is complete.

Assigning Model Response Files to Imported Products

To match your imported software definitions with model response files, follow the procedure in “Assigning Model Response Files to Software Products” on page 39. Then you are ready to use these products to define software groups and configure them in preparation for creating response files.

Chapter 5. Scenario: Preparing Response Files and Change Files To Install A Pristine CC Client

This scenario describes how to use NetView DM EasyPrep to prepare the response files and change files necessary to install software with NetView DM/2 on a pristine workstation—a workstation on which no software has been installed and whose fixed disk may need partitioning and formatting.

In this scenario, imagine that you, as a LAN administrator, have a new workstation and that you want to connect it as a CC client in a LAN, where there is a remote administrator workstation that also serves as a NetView DM EasyPrep preparation site. The new client is to be attached to the remote administrator workstation locally, so that the remote administrator workstation will serve as the client's CC server. You will use NetView DM/2 at the remote administrator workstation to install the following software at the new CC client:

OS/2 Warp Version 3.0 Full Pack
LAPS for NetBIOS token ring
NetView DM/2 Version 2.1 (CC client)
Communications Manager/2 Version 1.11
DB2/2 Version 1.2 (client feature)

(The scenario assumes that the images for these products are already stored at the remote administrator workstation.)

At the remote administrator workstation, you will use NetView DM EasyPrep to:

1. Generate the response files that will drive the installation and customization of this software at the CC client
2. Build the change files necessary to partition and format the hard disk and to distribute this software
3. Create boot diskettes containing the minimal OS/2, LAPS, and NetView DM/2 code to start the workstation as a CC client

You will use the software definitions and model response files for this software from the SAMPLES.EXE self-unpacking file provided with NetView DM EasyPrep.

At the preparation site (the remote administrator workstation), you will perform the following steps:

1. Unpack SAMPLES.EXE located in path \DPFINT\USER.
2. In the Maintain Model Response Files dialog, enter the sample model response files and workstation description file into the NetView DM EasyPrep database.
3. In the Software Library dialog:
   a. Import the SOFTWARE.EXP software library.
   b. Assign model response files to the five software definitions.
   c. Bundle the five software definitions into a software group.
4. In the Workstations dialog:
   a. Create a workstation definition for the new CC client.
   b. Assign a model workstation description file to this workstation.

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5. In the Configuration and Packaging dialog:
   a. Create a base configuration for the software group.
   b. Drag the CC client icon onto the base configuration icon and create a local configuration for the CC client.
   c. Generate the response files.
   d. Enter the information required to drive the partitioning and formatting of the CC client hard disk.
   e. Create the boot diskettes.
   f. Build the change files.

The following pages describe each step in detail.

Unpack SAMPLES.EXE

This file is copied into \DPFINT\USER when you select to install Samples along with the other NetView DM EasyPrep components.

From an OS/2 session, unpack the file by entering SAMPLES at the prompt in the \DPFINT\USER directory.

SAMPLES unpacks into a number of model response files, a workstation description file, user exit procedures, and an import library containing software definitions already prepared for you.

Enter the Model Files into the NetView DM EasyPrep Database

The sample model response files and model workstation description file are stored in directory \DPFINT\USER of your preparation site. You must insert entries for them in the NetView DM EasyPrep database, since NetView DM EasyPrep reads them from the database.

1. Open the Maintain Model Response Files dialog in the NetView DM EasyPrep folder.
2. When the RFG - Model Response File Maintenance window appears, use mouse button 2 to click on any blank space in the container.
3. Click on **New**.

   The RFG - Model Response File Entry window appears.
4. Enter a model ID and the full path and name of the model response file for one of the five products
5. Repeat the last two steps for the remaining four products.

   Table 9 on page 61 contains sample entries for the model response files of the five products. For simplicity, the model IDs are very similar to the model response file names.

Table 9. Sample Names For Model Response File Entry		
Software	**Model ID**	**Path**
OS/2 Warp Version 3.0 Full Pack	OS2V30FP	C:\DPFINT\USER\OS2V30FP.MRF
LAPS for NetBIOS token ring	LAPSTOK	C:\DPFINT\USER\LAPSTOK.MRF
NetView DM/2 Version 2.1 (CC client)	NVDMCLT	C:\DPFINT\USER\NVDMCLT.MRF
Communications Manager/2 Version 1.11	CM2111	C:\DPFINT\USER\CM21_11.MRF
DB2/2 Version 1.2 (client feature)	DB2CLI	C:\DPFINT\USER\DB2CLI.MRF

6. Enter a model ID for the model workstation description file that will eventually be assigned to the workstation definition of the new CC client.

   Enter a model ID named PS2 corresponding to the file name C\DPFINT\USER\PS2.MRF and check the **Hardware Model** check box to indicate that this is a model for a workstation description file.

7. Close the Maintain Model Response Files dialog.

Import the Software Library

The SOFTWARE.EXP import library file was unpacked from SAMPLES.EXE into \DPFINT\USER. It contains, among others, the definitions for the software that you will distribute in this occasion.

To add these definitions to the NetView DM EasyPrep software library:

1. Open the Software Library dialog in the NetView DM EasyPrep folder.
2. Click on **Software** in the action bar and select **Import Library** from the pull-down menu.

   The Importing Product Definition window appears.

3. Enter the full path and name of the import library file, C:\DPFINT\USER\SOFTWARE.EXP, and click on **OK**.

   The Importing Product Definitions window appears.

4. Select from the container the lines with the following names:

   NVDMCLT21
   LAPS7045
   CM211
   DB2V20
   OS2V30FP

5. Click on **Import** to import the definitions and close this window.
6. Select **Refresh Now** from the Software pull-down menu to update the Software Library container with the new definitions.

   You will see the new software definition icons in the container.

7. Using mouse button 2, click on one of them and select **Modify** from the pop-up menu to open the Modify - CID Enabled notebook and review the definition.
8. Close the notebook and repeat the previous step for the other definitions.

Assign Model Response Files to the Software Definitions

Assign a model response file to each of the five software definitions. Remember that the model response file is the template from which NetView DM EasyPrep will generate the response file.

1. Using mouse button 2, click on the **Communications Manager/2 1.11** icon and select **Model RSP** from the pop-up menu to open the RFG - Model Assignment window.
2. Using mouse button 2, click on any blank space in the container.
3. Click on **New**.

   A list of the model IDs of all the model response files defined in the database pops up.
4. Select CM2111 and click on **OK** to complete the model response file assignment for the Communications Manager definition and close the RFG - Model Assignment window.
5. Repeat the preceding four steps for the other software definitions, using the names in Table 10.

Table 10. Sample Names For Model Response File Assignment

Software Definition	Model ID
OS/2 Warp Version 3.0 Full Pack	OS2V30FP
LAN Adapter and Protocol Support 7045	LAPSTOK
NetView DM/2 CC Client	NVDMCLT
Communications Manager V2.11	CM2111
DB2 1.2 Client	DB2CLI

Group the Software Definitions

Grouping the software definitions into a software group will help you in organizing your work of generating and building everything you need to distribute this software to the new CC client. It enables you to manage the five products as a single unit.

To group the software definitions:

1. Select **New Software Group** from the Software pull-down menu.

   The Add Software Group window appears.
2. Enter the name of the new software group, WARPFP, in the entry field and click on **Add** to create the software group in the Software Groups container and to close this window.
3. Using mouse button 2, click on the **Communications Manager/2 1.11** icon, drag it across to the Software Groups container, and drop it onto the WARPFP icon.

   A plus sign (+) appears next to WARPFP, indicating that Communications Manager/2 1.11 is now part of this software group.
4. Repeat the preceding step for the other software definitions.

5. When you have finished, click on the + to display a tree view of WARPFP with the five software definitions.
6. Close the Software Library dialog

Create a Workstation Definition for the New CC Client

You must create a workstation definition for the new CC client so that NetView DM EasyPrep can generate and build response files and change files for it.

1. Open the Workstations dialog in the NetView DM EasyPrep folder.
2. Select **New** from the **Actions** pull-down menu to open the New Client notebook.
3. On the first notebook page, enter CLIENT09 in the **Client Name** field.
4. On the second page:
   a. Select the CC client boot drive.
   b. Select OS/2 as the operating system.
   c. Check **Define node to NetView DM/2** to automatically update also the NetView DM/2 catalog at the remote administrator workstation with this new CC client definition.
5. Close the notebook to save the workstation definition to NetView DM EasyPrep, add CLIENT09 to the NetView DM/2 catalog at the remote administrator workstation, and see the Workstations container updated with this new definition.

Assign a Model Workstation Description File to CLIENT09

A model workstation description file is analogous to a model response file for a workstation. With this file you enter information that describes the physical characteristics of a workstation. This information can be used not only to know who the workstation belongs to, where it is located, or what purpose it serves, but also to check hardware prerequisites for the installation of software.

1. Using mouse button 2, click on the CLIENT09 icon and select **Hardware** from the resulting pop-up menu.

   The RFG - Hardware Model Assignment window appears, displaying all the model workstation description files in the NetView DM EasyPrep database.
2. Select PS2 and click on **OK** to open the RFG - Hardware Configuration notebook for CLIENT09

   In this notebook you are prompted to choose and enter names and values for a number of variables that describe your workstation, according to the specifications in the model workstation description file.
3. Select and enter the values asked for in the notebook. Click on **OK** to save them in the database and return to Workstations and Groups Definitions.

   At this point CLIENT09 has been duly defined to NetView DM EasyPrep and NetView DM/2.
4. Close the Workstations and Groups Definitions window.

Create a Base Configuration for WARPFP

Creating a base configuration is the first stage in the generation and building of response files and change files. Here you enter values for variables that, according to the model response files, are applicable to all or most workstations. A base configuration is created for a software group without regard for any specific workstation.

1. Open the Configuration and Packaging dialog in the NetView DM EasyPrep folder.
2. Using mouse button 2, click on the WARPFP icon in the Software/Groups container and select **Configure** in the resulting pop-up menu.

   This opens the New Base Configuration window.
3. Enter the name of the new base configuration, WARPBASE, in the entry field and click on **Add**.

   The RFG - Model Assignment window appears, prompting you to select one model response file from all the model response files that may have been assigned to each software.

   The container displays a list of the five software products that you want to install.
4. Using mouse button 2, click on the first line in the container to display the possible list of model response files for this software (in this scenario the list has just one entry).
5. Click on the entry to select it; it will be added in the same line in the container under **Model ID**.
6. Repeat these last two steps for the remaining four products and click on **OK**.

   This opens the RFG - Group Value Configuration notebook where, for each of the five products in WARPFP, you are prompted to enter names and values for a number of variables, as specified in the respective model response files.
7. Select and enter the values and names asked for in the notebook and click on **OK** to save them in the database and return to Configuration and Packaging.

   The base configuration is now saved as shown by the + displayed next to WARPFP.
8. Click on the + to display the WARPBASE icon within the tree view of WARPFP.

Create a Local Configuration for CLIENT09

When you create a local configuration you enter the remaining, workstation-specific, values that will go into the response file.

1. Using mouse button 2, click on CLIENT09 in the Workstations/Groups container and drag it across to Software/Groups to drop it onto the WARPBASE base configuration icon.

In this way, CLIENT09 will be assigned to base configuration WARPBASE as shown in Figure 5 on page 65

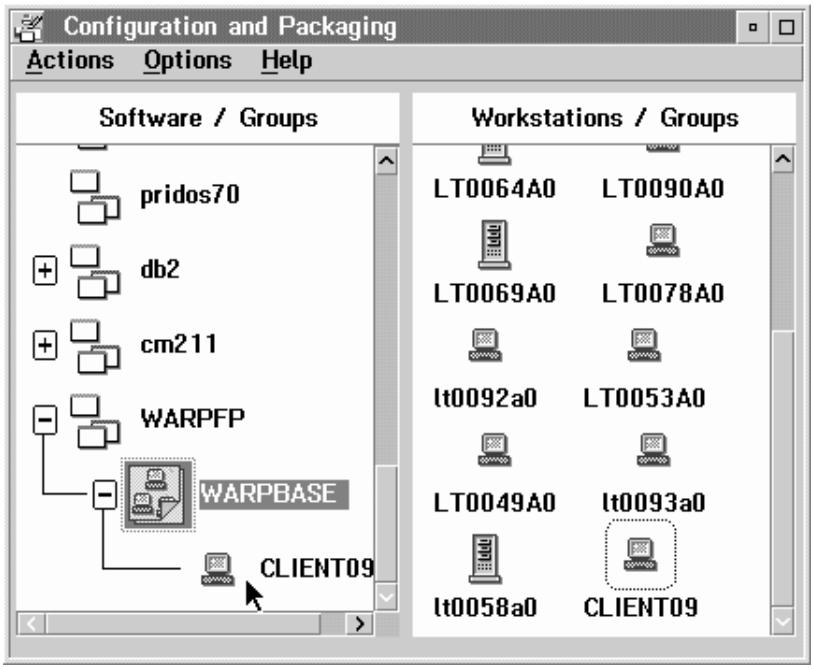

Figure 5. Assigning CLIENT09 to the Base Configuration

2. Using mouse button 2, click on CLIENT09 and select **Configure** from the resulting pop-up menu to open the RFG - Local Value Configuration notebook. Figure 6 on page 66 shows the notebook for this local configuration.

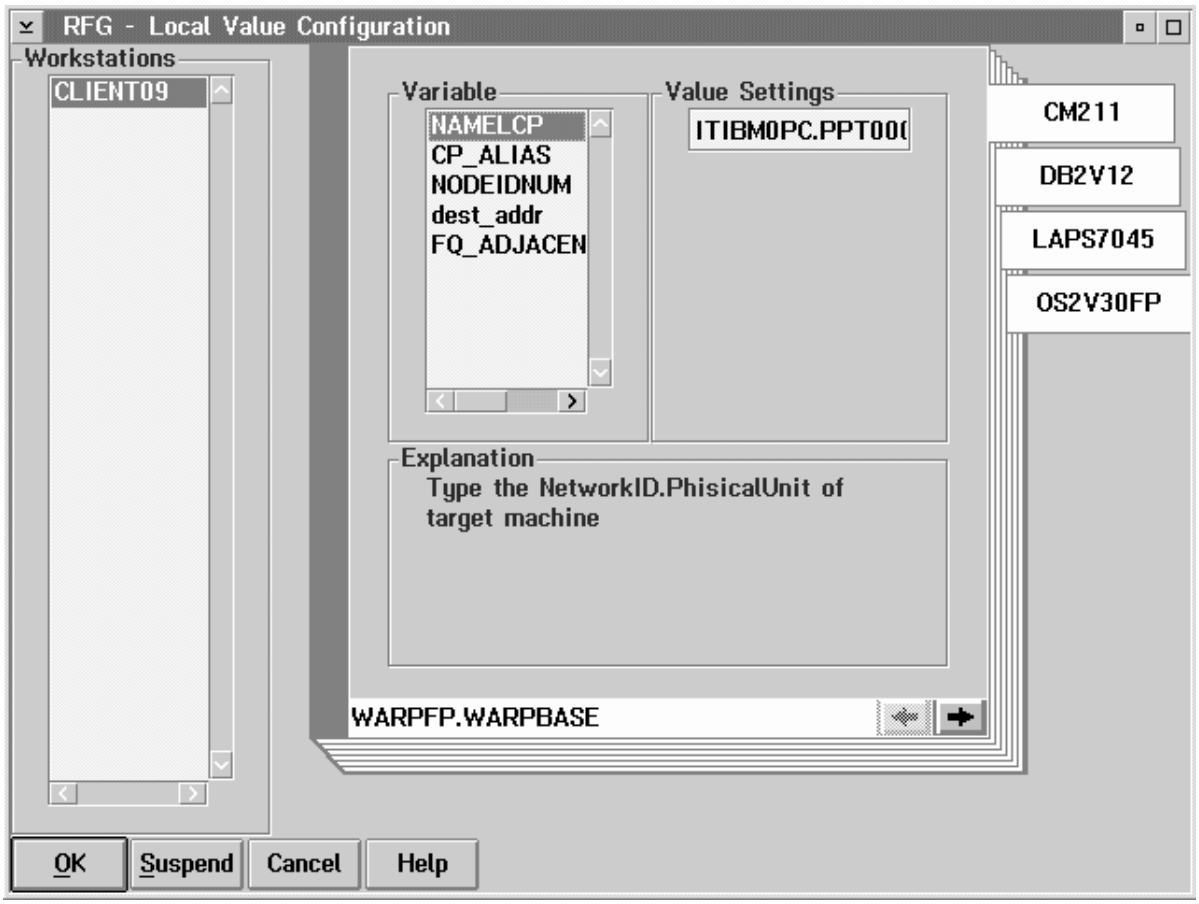

Figure 6. RFG - Local Value Configuration Notebook for WARPBASE and CLIENT09

Notice in this figure that there are no notebook pages for NVDMCLT21 (the NetView DM/2 client program). This is because the values that generate the response file for the NetView DM/2 client will be supplied entirely by a user exit procedure, GETCLT.CMD, provided with SAMPLES.EXE. If you browse model response file NVDMCLT.MRF, you will see that it calls GETCLT.CMD.

Conversely, the values and names needed to generate a local configuration for the other four products are requested in this notebook.

3. Select and enter the values and names requested in the notebook and click on **OK** to save them in the database and return to Configuration and Packaging.

In the Software/Groups container, a check mark placed next to the CLIENT09 icon, as Figure 7 on page 67 shows, signifies that the local configuration was created successfully.

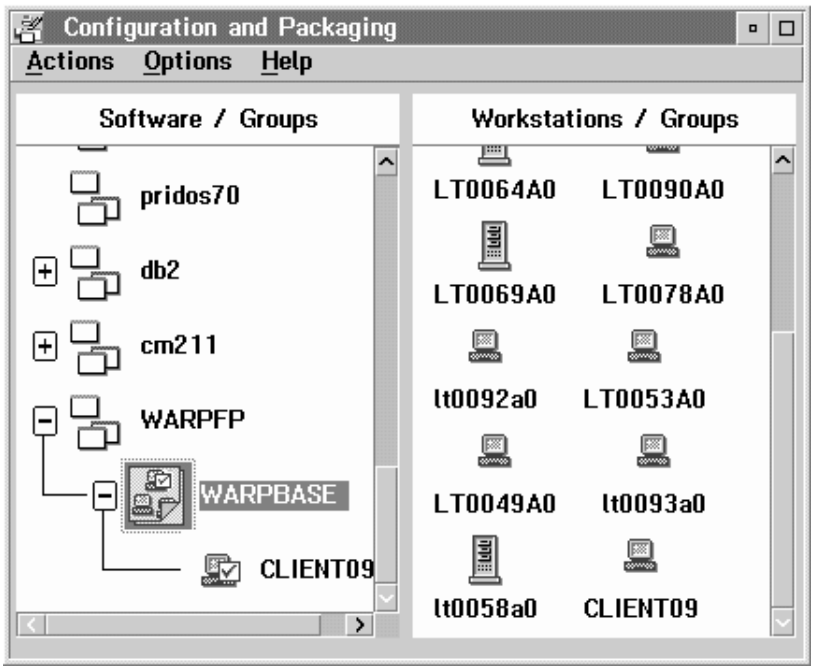

Figure 7. Local Configuration Was Created Successfully

Generate the Response Files

From the local configuration data that was saved in the NetView DM EasyPrep database, you can quickly have NetView DM EasyPrep generate the corresponding response files for you.

1. Using mouse button 2, click on the CLIENT09 icon and select **Generate Response Files** in the resulting pop-up menu.

   A number of windows appear, from the one informing you that response file generation is underway to the one that tells you that response files were generated successfully.

   At this point, the CLIENT09 icon is automatically removed from the WARPBASE tree view.

2. Using mouse button 2, click on the WARPFP icon and select **List Response Files** from the resulting pop-up menu to open the List Response Files window.

   This window lists all the response files that have been generated for this particular software group. The response files are grouped by software product and they are named after the workstation on which they will install the software.

   Physically, the response files are stored, all with the same name CLIENT09.RSP, in the \IBMNVDM2\SHARE_A\RSP\<product_name> directories at the remote administrator/preparation site. So you will find a CLIENT09.RSP in the subdirectory that contains the response files to install

OS/2 Warp Version 3.0 Full Pack, another CLIENT09.RSP in the subdirectory containing the response files to install the NetView DM/2 client feature, and so on for each software product. Each CLIENT09.RSP contains the data that drives the installation and customization of the product <product_name> on CLIENT09.

Enter Partitioning and Formatting Information

You can enter through NetView DM EasyPrep the information necessary to drive the partitioning and formatting of the new workstation hard disk. This information will be added in the boot diskettes that you create next.

1. Using mouse button 2, click on WARPFP again and select **Package for Installation** in the pop-up menu. This opens the Package For Installation window.
2. Select **Partitioning** from the **Actions** pull-down menu. This opens the Partitioning Settings notebook where you can specify how you want the CC client hard disk(s) partitioned. Note that in the container for each disk's partition information, you must click, using mouse button 2, on the highlighted line to open a pop-up menu where you can enter the partitioning specifications.
3. When you have finished, close the notebook to return to the Package For Installation window
4. Select **Formatting** from the **Actions** pull-down menu to open the Format Workstations notebook.
5. Select the name of the drive(s) that you want to format, select the type of file system(s), and, optionally, enter a label for each of the drives.
6. Close the notebook to return to the Package for Installation window.

As a result, NetView DM EasyPrep builds the following four change files:

A change file containing the partitioning details

A change file for the VREXX procedure that executes the partitioning process

A change file containing the formatting details

A change file for the VREXX procedure that executes the formatting process

These four change files are referred to as the *partitioning corequisite* and *formatting corequisite* change files in “Install the CC Client” on page 69.

Create the Boot Diskettes

The boot diskettes will contain the essential OS/2, LAPS, and NetView DM/2 programs necessary to start the workstation as a CC client. Two boot diskettes are necessary:

An installation diskette
Disk 1

1. Select **Create Boot Diskettes** from the **Actions** pull-down menu to open the Boot Diskettes notebook.

2. Scroll through the notebook pages and enter or select the required information.
3. When you have finished, return to the first notebook page and click on **Create**.

   You will be prompted to insert a diskette.

   Note: Repeat this process twice, once to create the installation diskette and then to create disk 1.

Build the Change Files

You now build the five change files that NetView DM/2 will use to perform the full installation of this software.

1. In the Package for Installation window, select all the lines corresponding to the products making up WARPFP.
2. Select **Build Change Files** from the **Selected** pull-down menu to start the build process.

   When the process finishes, a response log window shows the results.
3. Select **Show Change Files** from the **Selected** pull-down to see a list of change files.

   The new change files are listed according to the installation type. You will notice that Operating System/2, LAN Adapter Protocol Support, and NetView DM/2 are enclosed in brackets to indicate that they are corequisites for the NetView DM/2 install.

Install the CC Client

Now you have done everything that is necessary to partition and format the new CC client hard disk and to install your software.

To perform the installation:

1. Insert the first boot diskette (the installation diskette) in the new workstation.

   You will be prompted to insert the second boot diskette (disk 1).
2. Install the partitioning corequisite change files from the NetView DM/2 catalog at the remote administrator workstation. You created these change files in “Enter Partitioning and Formatting Information” on page 68.
3. When partitioning has completed, reboot the workstation.
4. Install the formatting corequisite change files from the NetView DM/2 catalog at the remote administrator workstation. You created these change files in “Enter Partitioning and Formatting Information” on page 68.
5. Install the pristine corequisites (OS/2 Warp, LAPS, and NetView DM/2) from the NetView DM/2 catalog at the remote administrator workstation.
6. Install the CM2/2 and DB2/2 change files from the NetView DM/2 catalog at the remote administrator workstation.

Chapter 6. Building Model Response Files and Model Workstation Description Files

This chapter documents General-Use Programming Interfaces and Associated Guidance Information.

Read this chapter to learn how to create new model response files and model workstation definition files, or customize existing ones.

A model response file is a template for a response file for a software product. You can use a single model response file to derive individual response files to install an installable unit on a group of workstations.

A model response file follows the structure of the final response file; it contains keywords, some of which may have fixed values and others variable values. To create the response file to install a product on a workstation, you substitute actual values for the variable keywords according to the characteristics of the target workstations and how you want to install the product. Depending on the way the model response file is coded, NetView DM EasyPrep may get the actual values in any of the following ways:

Solicit the values from the user in a dialog
Start a user-written program that gets the values
Get the values from a specially formatted file
Get the values from another response file

Similarly, a model workstation description file is a template for a workstation description file. Its structure is analogous to that of a model response file. The variables in a model workstation description file identify the hardware characteristics of the workstation and, optionally, administrative details such as the owner of the workstation. When you configure the description of a specific workstation, NetView DM EasyPrep solicits values for the variables just as it does when building a response file.

When NetView DM EasyPrep builds a response file from a model response file that specifies hardware dependencies, it checks the completed workstation description files to be sure there is no conflict with installing the software on the workstation.

As a system administrator, you determine whether the model response files and model workstation description files that come with NetView DM EasyPrep are sufficient for your needs. If you determine that you need additional model response files or model workstation description files, you can create them with any editor.

Creating a Model Response File

A model response file consists of three sections:

A *structure* section that matches the structure of the response file that will be generated and that contains temporary placeholders in place of the final installation and configuration values

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A *variable* section that contains the statements that replace the placeholders with actual data

An optional *dependency* section that specifies requirements for which NetView DM EasyPrep is to check during response file generation. The dependencies may be values that must appear in the workstation description file or in the response files for other software in the same software group.

The Structure Section

The *structure* section is a list of all the keywords required to install and configure the software product. You can get these keywords from the product publications.

The statements making up this section can be of two types:

Keyword = fixed value
Keyword = &*variable_name*&

Use the first type of statement when you know that the corresponding installation or configuration value will not change from workstation to workstation, but will remain the same on each response file generated from this model. The statement is copied, as is, into the final response file at generation time.

When NetView DM EasyPrep checks the dependency section of a model response file against configured values for another product, it does not check that product for keywords coded with a fixed value in the structure section.

Use the second type of statement when you know that the value will vary depending on the destination workstation. This type of statement tells NetView DM EasyPrep to proceed to the *variable* section; this section holds information on where to retrieve the value for this particular keyword (from a dialog, a user exit, an external file, or the value provided for another product).

The *variable_name* is the placeholder you choose for the value of a response file keyword. The name can be 1 to 32 characters long. It must consist of letters, digits, and underscore characters, and it cannot begin with a digit.

The structure section begins with the statement @structure and ends with the statement @endstructure.

Example of a Structure Section

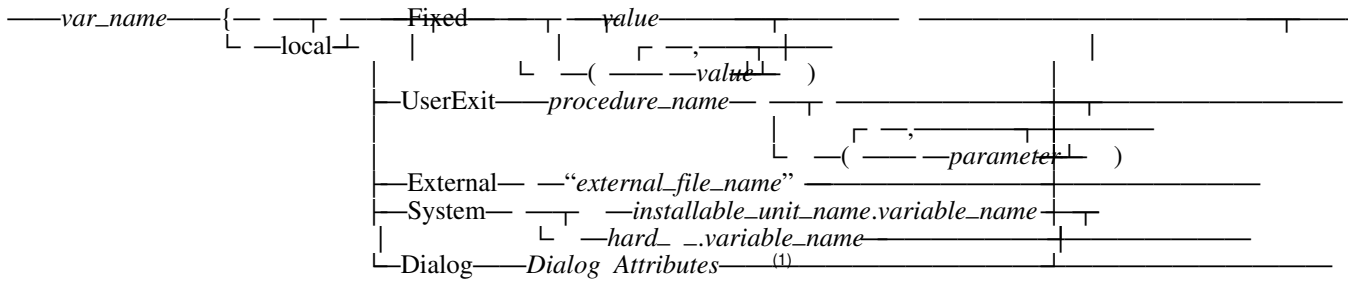
The following example shows the *structure* section of a model response file that generates a response file for the installation of the client feature of IBM DB2/2. All the keywords of this model response file have placeholders are be replaced by actual values when the final response files are generated.

```
@STRUCTURE

DBModelCFG=&DBModelCfg&
DBUpdateType=&DBUpdateType&
DBStopCommunications=&DBStopCommunications&
DBTarget=&DBTarget&
DBCommunicationType=&DBCommunicationType&
DBInstallDatabaseTools=&DBInstallTools&
DBInstallQueryManager=&DBInstallQueryMgr&
DBInstallDocumentation=&DBInstallDoc&
DBWorkstationName=&DBWsName&
DBUpdateConfigSys=&DBUpdateConfigSys&

@ENDSTRUCTURE
```

The final response file is the list of keywords you see in this example with actual values rather than placeholders.

The Variable Section

The *variable* section contains the information required to resolve the variable keywords. It begins with the statement @variable and ends with the statement @endvariable. It consists of a stanza for each variable, having the following syntax:



Note:
[1] Dialog attributes appear in the next syntax diagram.

Where *var_name* is the placeholder that you specified for a certain keyword in the *structure* section and the other entries tell where the value will come from:

local indicates that the related variable must be calculated at the workstation level (that is, when you do a local configuration, not a global configuration).

Fixed means that the keyword remains unchanged in all the configurations generated from this model.

When NetView DM EasyPrep checks the dependency sections of a model response file against configured values for another product, it does not check that product for keywords coded with a fixed value in the structure section, whereas it does check fixed keywords coded only in the structure section.

UserExit indicates that NetView DM EasyPrep is to get the value for this variable from a user-supplied REXX program named *procedure_name*.RUE or *procedure_name*.CMD. Information about how to code a user exit procedure is in "Using User Exits" on page 80.

External indicates that NetView DM EasyPrep is to get the value from an *external file*—a specially formatted file where the value for this keyword is stored. You might, for example, set up an external file that contains the output of a program that extracts configuration data from a database other than the NetView DM EasyPrep database. Information about how to create an external file is in "Using External Files" on page 82.

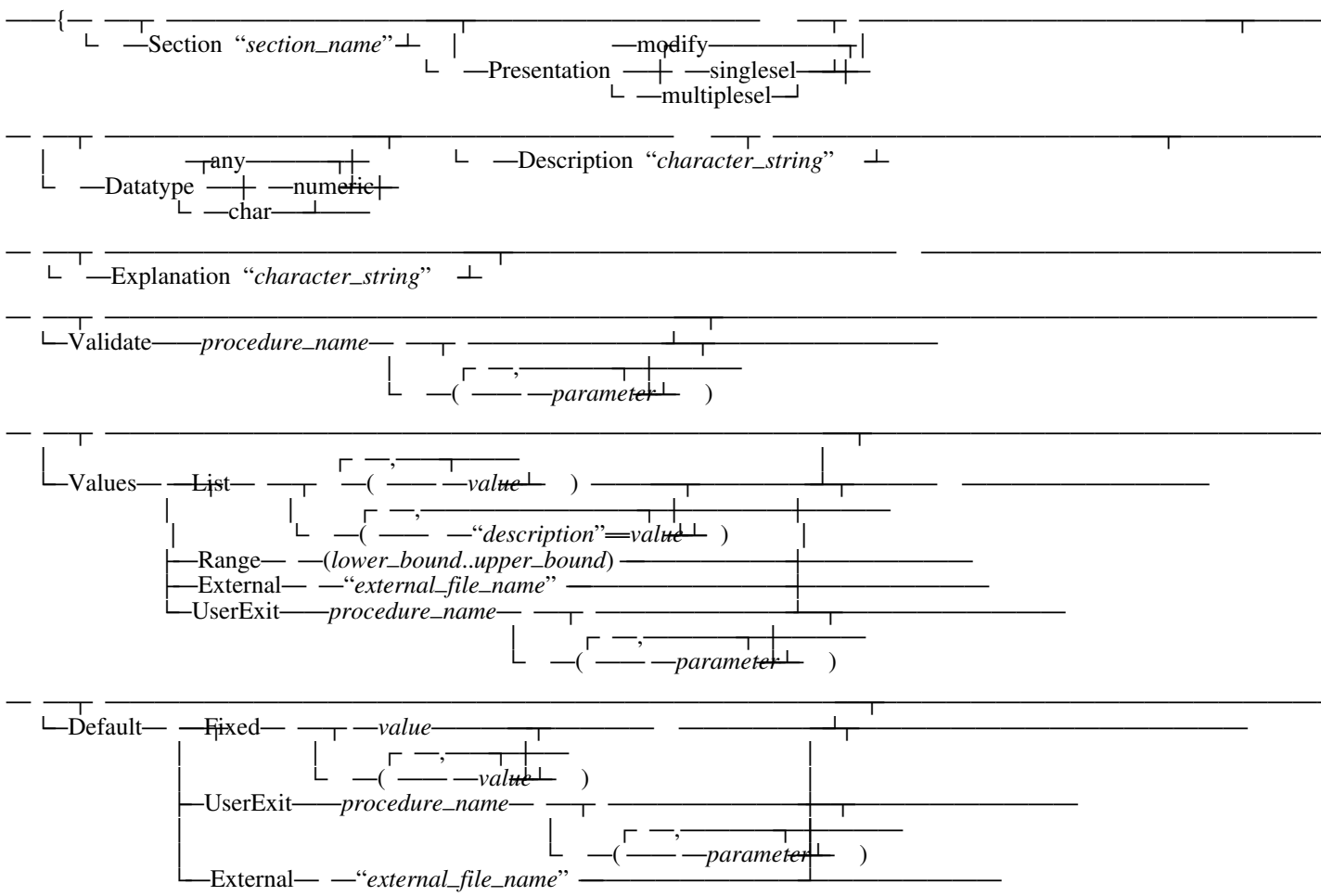
In the model response file, put the external file name in quotation marks.

System indicates that NetView DM EasyPrep is to use the value provided for a variable in the configuration of another product in the software group being configured. System hard__ indicates that NetView DM EasyPrep is to use the value of a variable in the workstation description file. System hard__ is valid only if the variable is local.

Dialog indicates that NetView DM EasyPrep is to display a notebook to solicit the value from the person building the response file.

For a dialog variable, you can also code **Default** to indicate where NetView DM EasyPrep is to get default values to present to the dialog user. The value is fixed or NetView DM EasyPrep gets it from a user exit or an external file.

The syntax of the dialog attributes is:



Within the dialog attributes:

Section is the name of the notebook tab where you want to place the request for this variable. Put the name in quotation marks.

Note: Do not specify **Section** for the first dialog global variable or the first dialog local variable in a model response file. You cannot specify a notebook tab for the first dialog variable because the first variable must appear on the first page of the notebook, and the tab for the first page of the notebook is the name of the software product.

Presentation indicates how you want to display the request for this variable: **modify** indicates an entry field; **singlesel** means the user is to choose one value from a list; **multiplesel** means the user is to choose multiple values from a list.

Datatype indicates whether the dialog user's response can be alphabetic (**char**), numeric (**num**) or any sequence of ASCII characters (**any**).

Description appears in place of the variable name in the notebook shown to the person responding to the dialog. Put the name in quotation marks.

Explanation is text that appears on the notebook page to tell the dialog user what the variable means and how to give it a value. You can enter up to five lines of text, with about 40 characters per line. If you enter more, the text may be cut off when NetView DM EasyPrep displays the it to the dialog user.

Validate calls a user exit after the dialog user enters a value. The user exit can validate the entry.

Values indicates where NetView DM EasyPrep is to get a list of possible values to display in the dialog. You can enter:

- A list of individual values (for example, (100, 200, 300)).
- A list of individual values with text to be displayed (for example, ("YES"=1, "NO"=2)).
- A range of valid values.
- The name of, and parameters for, a user exit that is to fetch the list of values (see "Using User Exits" on page 80).
- The name of an external file where NetView DM EasyPrep is to get the list of values (see "Providing Choices for Dialog Variables in External Files" on page 84 and "Providing Defaults for Dialog Variables in External Files" on page 84).

Example of a Variable Section

The following example shows the *variable* section of the model response file that generates a response file for the installation of the client feature of IBM DB2/2.

```
@VARIABLE

DBCommunicationType {
    DIALOG  {
         DESCRIPTION "Workstation Type"
        EXPLANATION
"Specifies the role of the workstation
in the DB/2 LAN"
      PRESENTATION  SingleSel
         Datatype  numeric
          VALUES LIST (
              "Database client only"                          = 2,
              "Database client with local database"       = 3 )
     } DEFAULT Fixed 2
}

DBModelCfg {
     LOCAL DIALOG {
        DESCRIPTION "Default Configuration file"
       EXPLANATION
"Enter the fully qualified path of the
user's configuration file; specify
 DEFAULT to use the system default values;
specify  CURRENT to use the current
configuration as a model."
      PRESENTATION  SingleSel
      Datatype  any
      VALUES  LIST    (
      " DEFAULT",
      " CURRENT"  )
     } DEFAULT Fixed " DEFAULT"
}

DBInstallQueryMgr {
  DIALOG  {
        DESCRIPTION "Install Query Manager Facility"
       PRESENTATION  Singlesel
       DataType  char
        VALUES LIST (
           "No" = N,
           "Yes" = Y )
      } DEFAULT Fixed N
}
```

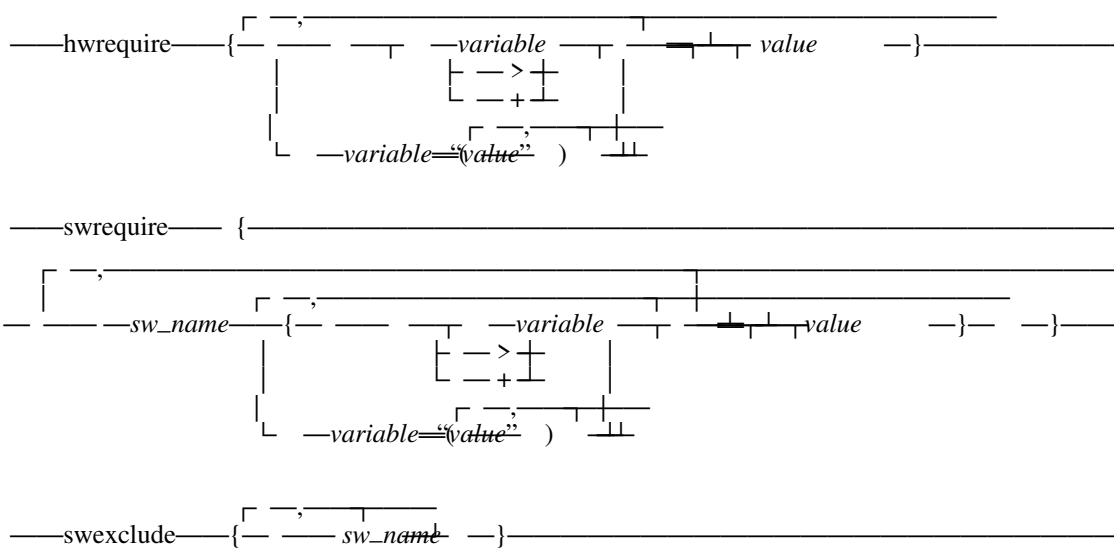
```
DBInstallTools {
  DIALOG  {
       DESCRIPTION "Install Database Tools"
       EXPLANATION
"Specifies if you want to install
the Database administration tools:
Configuration tool, Directory tool,
Recovery tool"
       PRESENTATION  Singlesel
       DataType  char
        VALUES LIST (
           "No" = N,
           "Yes" = Y )
      } DEFAULT Fixed N
}

DBInstallDoc {
  DIALOG  {
       DESCRIPTION "Install Documentation"
       EXPLANATION
"To load the online documentation,
which includes: DB2/2 Messages,
Master Index and Glossary, Online
Command Reference"
       PRESENTATION  Singlesel
       DataType  char
        VALUES LIST (
            "No" = N,
            "Yes" = Y )
      } DEFAULT Fixed Y
}

DBUpdateType
{
   FIXED  1
}

DBStopCommunications {
   DIALOG  {
        DESCRIPTION "Stop Database Manager"
        PRESENTATION  Singlesel
        DataType  numeric
         VALUES LIST (
             "Do not attempt to stop"              =  ,
             "Stop if unable to continue"          = 1,
             "Stop if unable to terminate"         = 2 )
      } DEFAULT Fixed
}
```

```
DBTarget {
   LOCAL DIALOG {
        DESCRIPTION "Target Drive Letter"
       EXPLANATION
"The drive on which to install
the DB/2 Client enabler"
       PRESENTATION  Modify
       DATATYPE  Char
        VALUES RANGE (C..Z)
   } DEFAULT Fixed C
}

DBWsName {
   LOCAL DIALOG {
      DESCRIPTION "Workstation Name"
     EXPLANATION
"Unique name for the workstation.
1-8 characters, starting with a
letter or @, #, or $; digits and
underscore are also allowed
after the first character"
     PRESENTATION  Modify
      VALIDATE CHKVALUE ()
   }
}

DBUpdateConfigSys {
  DIALOG  {
      DESCRIPTION "Update CONFIG.SYS"
     EXPLANATION
"Specifies if you want to update
the CONFIG.SYS at the end of the
installation."
     PRESENTATION  Singlesel
     DataType  char
      VALUES LIST (
         "No" = N,
         "Yes" = Y )
   } DEFAULT Fixed N
}

@ENDVARIABLE
```

The Dependency Section

The optional *dependency* section is made up of three kinds of stanzas that define the hardware and software requirements to install and configure the software for which you are writing the model response file. It begins with the statement @dependency and ends with the statement @enddependency.

The stanzas have the following syntax:



hwrequire lists hardware requirements to install your software. When NetView DM EasyPrep builds a response file, it checks these requirements against the workstation description file.

Use *variable* +*value* to indicate that the software requires a certain amount of a resource for its own use. For example, the requirement RAM >10 is met if the workstation has at least 10MB of available RAM, regardless of what combination of software is installed; but RAM +2 means that NetView DM EasyPrep is to add all RAM + requirements in the software group and fail this requirement if the total is more than the available RAM on the workstation.

If you supply a list of values for a variable, the dependency is met if the variable has any one of those values.

swrequire lists software requirements to install your software. The products specified by *sw_name* must be in the same software group as this product. When NetView DM EasyPrep builds a response file, it checks the values supplied for the other products against the variables listed here.

If you supply a list of values for a variable, the dependency is met if the variable has any one of those values.

swexclude lists other software that cannot coexist with the software that this model response file describes. When NetView DM EasyPrep builds a response file, it ensures that those products are not in the software group.

Example of a Dependency Section

The following example shows the *dependency* section of the sample model response file that generates a response file for the installation of the client feature of IBM DB2/2.

```
@DEPENDENCY

   SwRequire  {
    LAPS {Sessions +1 }
   }

   HwRequire  {
   RAM  >1 ,
   DASD  +5,
    Processor == (“x386”, “x486”, “Pentium”),
    Card == (“TokenRing”, “Ethernet”)
   }

   SwExclude  {
   DB2SRV,DOS63
   }

@ENDDEPENDENCY
```

Collecting Data from a Dialog

To select the way in which NetView DM EasyPrep solicits a value for a dialog variable, code as follows:

Entry field: Presentation modify and Values range.
Single selection list: Presentation singlesel and Values list.
Multiple selection list: Presentation multiplesel and Values list.
Spin button: Presentation singlesel and Values range.
Combo box: Presentation modify and Values list.

Using User Exits

You can use user exit procedures to:

Collect values for keywords from other sources in your environment
Validate the data entered for a dialog variable
Collect a default value for a dialog variable

A user exit procedure is a REXX program with the extension CMD or RUE. The name can be 1 to 32 characters long. It must consist of letters, digits, and underscore characters, and it cannot begin with a digit.

NetView DM EasyPrep looks first for a file with extension .RUE and then for a file with extension .CMD in the USER subdirectory of the NetView DM EasyPrep installation directory.

A user exit receives as input the parameters that you specify in the model response file.

When you code the user exit procedure, you can access a predefined REXX stem variable, RFGVAR, which is structured in the following way:

RFGVAR.0 is the number of lines in the RFGVAR. stem

RFGVAR.1 is the software component name

RFGVAR.2 is the name of the configuration parameter

RFGVAR.3 is the name of the model file

RFGVAR.4 is the name of the workstation that is currently being configured (null string if you are defining a global software configuration)

RFGVAR.5 specifies if the model file is for a workstation or software

RFGVAR.6 is the configuration parameter value

Collecting Values with User Exits

To have a user exit return a string to NetView DM EasyPrep, code:

```
⋮
return res_string

⋮
```

For example, insert the following line in your user exit procedure to have it return the name of the workstation that you are configuring:

```
⋮
return RFGVAR.4
⋮
```

If you want the user exit to return a string that is structured in several lines (such as a portion of a response file), you can set another REXX stem predefined variable, RFGRSLT, in this way:

RFGRSLT.0 is the total number of lines in the RFGRSLT stem; one occurrence of RFGRSLT is required to return each line making up a certain string.

RFGRSLT.1 is the first line, RFGRSLT.2 is the second, and so on; NetView DM EasyPrep concatenates each line to the following with a new-line character.

Note: In user exits that collect values for variables, do not use the CD command to change directories; use the REXX function DIRECTORY() instead.

Validating Dialog Variables with User Exits

Your user exit can validate the value a user enters for a dialog variable. Use the Validate keyword in the dialog attributes of your model response file. Your user exit procedure must return 1 or “true” to accept the value specified in RFGVAR.6 and 0 or “false” to reject the value.

For example, insert the following lines in your user exit to have it check whether a certain value is numeric or not:

```
/  This is part of a user exit for NetView DM EasyPrep /
if datatype(RFGVAR.6) = 'NUM' then
   return  1
else
   return
```

Providing Choices for Dialog Variables with User Exits

Your user exit can return a list or range of values from which you want the dialog user to select. In the model response file, code:

```
variable_name {Dialog Values UserExit procedure_name parameters}
```

Your user exit procedure returns the choices this way:

```
return "value1, value2, value3..."
```

or

```
return "min..max"
```

Providing Defaults for Dialog Variables with User Exits

Your user exit can return the default value of a dialog variable, which the dialog user can accept or change. In the model response file, code:

```
variable_name {Dialog Default UserExit procedure_name parameters}
```

Your user exit procedure returns the default this way:

```
return "default_value"
```

Using External Files

You can get the value for a response file variable from an *external file,* which you create and update outside of NetView DM EasyPrep. You can also use an external file to provide choices and defaults for dialog variables.

An external file can change independently of the model response file. The configuration values in an external file can be the result of some process that extracted configuration data from a source other than the local NetView DM EasyPrep database.

For example, you may want to query the LAN NetView Management Utility database to extract hardware information about a set of workstations and store the data in a file that NetView DM EasyPrep can use during configuration.

Creating External Files

The syntax of the external file FILE1.EXT is:

```
GLOBAL
 var1 = "value1"

⋮
 mycfgvar = "mycfgvar default value"

⋮
 varM = "valueM"
ENDGLOBAL

NODE ws_1
 var1 = "value1"

⋮
 mycfgvar = "mycfgvar value for ws_1"

⋮
 varM = "valueM"
ENDNODE

⋮
NODE ws_N
 var1 = "value"

⋮
 mycfgvar = "my cfg value for ws_N"

⋮
 varM = "valueM"
ENDNODE
```

The value of a variable in the external file must be enclosed in double quotation marks and can extend to multiple lines.

Collecting Values from External Files

To specify an external variable that is not workstation-specific, code the following in the model response file:

```
MYCFGVAR    {
     external  "file1.ext"
}
```

During response file generation, NetView DM EasyPrep looks for a variable with the name MYCFGVAR in the GLOBAL section of the file FILE1.EXT; if there is no such variable, the process fails.

To specify an external variable that is workstation-specific, code the following in the model response file:

```
  MYCFGVAR  {
        local
        external  "file1.ext"
  }
```

During response file generation, NetView DM EasyPrep searches FILE1.EXT for a variable with the name MYCFGVAR in the NODE section with the same name as the workstation you are currently configuring. If there is no such variable, the process looks for the same variable in the GLOBAL section. If there is such a variable in the GLOBAL section, the program issues a message; if not, the configuration process fails.

Providing Choices for Dialog Variables in External Files

You can use an external file to contain a pool of values from which you want the dialog user to select.

Include a statement similar to the following in the model response file:

```
MYCFGVAR {
  DIALOG  {
     PRESENTATION  SingleSel
      EXPLANATION "Select one value from the list"
      VALUES EXTERNAL "VALUE.LST"
  }
}
```

Write an external file VALUE.LST with the following syntax:

```
GLOBAL
⋮
    MYCFGVAR = "value1, value2, value3"
⋮
ENDGLOBAL
```

MYCFGVAR appears in the configuration dialog with a list of values as specified by MYCFGVAR in the GLOBAL section of VALUE.LST and with a range of numeric values as specified by MYCFGNUM in the GLOBAL section of VALUE.LST.

Note: If MYCFGVAR is a workstation-specific variable, you can override the default value list (in the GLOBAL section) by specifying another value list in the NODE section with the same name as the workstation you are currently configuring. In this way, you can have different value lists for different workstations.

Providing Defaults for Dialog Variables in External Files

An external file can contain the default value of a dialog variable, which the dialog user can accept or change. Write the following statement in the model response file:

```
MYCFGVAR {
  DIALOG  {
     PRESENTATION  Modify
      EXPLANATION "Accept or change default value"
  }
   DEFAULT EXTERNAL "FILE.DEF"
}
```

You can write an external file FILE.DEF with the following syntax:

```
GLOBAL
⋮
    MYCFGVAR = "default value"
⋮
ENDGLOBAL
```

MYCFGVAR appears in the configuration dialog with a default value as specified in MYCFGVAR in the GLOBAL section of VALUE.LST.

When a value of a variable is a list of possible choices, the value must be coded in quotation marks. All the values must be separated by commas.

When a value of a variable is a range, the value must be enclosed in quotation marks and the lower and upper bounds of a range must be separated by two periods.

If MYCFGVAR is a workstation-specific variable, you can override the general default value specified in the GLOBAL section by specifying another value in the NODE section with the same name as the workstation you want to configure. In this way, you can have different default values for different workstations.

Creating a Model Workstation Description File

A model workstation description file has the same general structure as a model response file, but the *structure* and *dependency* sections are empty. Only the *variable* section is relevant.

The variables of a model workstation description file specify items of information about a workstation. For example, the variables might include hardware variables such as processor, hard disk capacity, and LAN adapter type. You might choose to use other variables for administrative details such as the owner of the workstation.

As in a model response file, you can solicit values for the variables from a dialog with the user who is configuring a specific workstation description. You can also solicit values from a user-written program, an external file, or another model workstation description file.

The following is an example of a workstation description file. In this example, the variable WORKSTATION_TYPE is fixed, and all the other variables are solicited by means of a dialog when a user configures the description for a particular workstation.

```
@STRUCTURE
@ENDSTRUCTURE
@VARIABLE

WORKSTATION_TYPE {
     FIXED  "PS/2"
}

CDROM_Adapter {
    DIALOG  {
         SECTION  "Physical"
          DESCRIPTION "CD-ROM adapter installed"
         PRESENTATION  SingleSel
          VALUES LIST ("Yes", "No")
    }
     DEFAULT fixed "No"
}

Processor {
    DIALOG  {
         PRESENTATION  SingleSel
         DESCRIPTION  "Processor"
          EXPLANATION "Select the processor model"
          VALUES LIST ("x286", "x386", "x386DLC", "x486", "x486SLC", "x486DLC", "PENTIUM")
    }
     DEFAULT fixed "x386"
}

Nr_3Inch_Diskt {
    DIALOG  {
         PRESENTATION  SingleSel
          DESCRIPTION "Number of 3 inch diskettes"
          EXPLANATION "Enter the number of 3-inch diskette drives"
          VALUES RANGE ( ..4)
    }
     DEFAULT fixed 1
}

Nr_5Inch_Diskt {
    DIALOG  {
          DESCRIPTION "Number of 5-inch diskettes"
          EXPLANATION "Enter the number of 5-inch diskette drives"
         PRESENTATION  SingleSel
         DATATYPE  Numeric
          VALUES RANGE ( ..4)
    }
     DEFAULT fixed
}
```

```
DiskSpace {
   DIALOG  {
        PRESENTATION  Modify
         DESCRIPTION "Hard Disk Capacity"
        EXPLANATION
"Enter the initial capacity of the hard disk in megabytes"
        DATATYPE  Numeric
         VALUES RANGE (1  ..2   )
   }
    DEFAULT fixed 2
}

RAM {
   DIALOG  {
        PRESENTATION  Singlesel
         DESCRIPTION "Available RAM"
         EXPLANATION "Enter the amount of
         available RAM in megabytes"
        DATATYPE  Numeric
         VALUES LIST (4, 8, 1 , 16, 24, 32)
   }
    DEFAULT fixed 16
}

LanAdapter {
  DIALOG  {
         DESCRIPTION "LAN Adapter"
        PRESENTATION  SingleSel
        DATATYPE  Any
         VALUES LIST (
             "Token-Ring",
             "Ethernet",
             "BusMaster",
             "Pc  Net"
        )
  }
   DEFAULT Fixed "Token-Ring"
}

WorkstationName {
   DIALOG  {
        SECTION  "Logical"
        PRESENTATION  SingleSel
         VALUES UserExit WSNAME()
         EXPLANATION "Name of the client; you cannot modify the value"
   }
}
```

```
ServerName {
  DIALOG  {
        PRESENTATION  Modify
        DATATYPE  Any
        VALIDATE  CHKSTR(8,1,SNA)
        EXPLANATION
"Enter the name of the server
in the LAN to which the
workstation is connected"
  }
}

OwnerName {
  DIALOG  {
        SECTION  "Owner"
        PRESENTATION  Modify
        DATATYPE  Any
        DESCRIPTION  "Owner"
        EXPLANATION
"Enter the name of the
owner of the workstation"
}
}

OwnerLocation {
  DIALOG  {
        PRESENTATION  Modify
        DATATYPE  Any
        DESCRIPTION  "Address"
        EXPLANATION
"Enter the address of the
machine, for example: 1  5AFF345 6"
  }
}

OwnerManager {
  DIALOG  {
        PRESENTATION  Modify
        DATATYPE  Any
        DESCRIPTION  "Manager"
        EXPLANATION
"Enter the name of the manager of the workstation owner"
  }
}
@ENDVARIABLE
```

Appendix A. Database Layout

NetView DM EasyPrep maintains all data for response file generation (except output response files) in its relational database. The contents of each database table are described in this appendix.

Models Model response files and model workstation description files, together with a unique model ID assigned during the registration of each model file.

Products Model response files assigned to each product.

ConfiguredPGs Relationships between configured software groups, products, and models.

ConfPGStatus Status information for configured software groups.

GroupValues Values specific to a configured software group.

WorkstationHardware Hardware status information for configured workstations.

WorkstationSoftware Software status information for workstations in regard to a configured software group.

LocalValues Workstation-specific values.

Items marked with an asterisk (*) next to the column name form a unique index for each table. Table layouts are shown in the following sections.

Models

Table 11. Column Definition of Table "Models"

Column	Content	Type
*ModelID	ID of the model file	varchar(8)
Type	Type of the model file (0=hardware or 1=software)	smallint
ModRSPFile	File specification of the model file	varchar(260)
Registered	Date and time when the model file was registered	timestamp
SeqNo	Sequence number of the chunk	smallint
Content	One chunk of the model file, according to SeqNo	varchar(3600)
UserName	Reserved	varchar(8)

Products

Table 12. Column Definition of Table "Products"

Column	Content	Type
*Product	Name of the product (installable unit)	varchar(16)
*ModelID	ID of a model response file that may be used for that product	varchar(8)
UserName	Reserved	varchar(8)

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ConfiguredPGs

Table 13. Column Definition of Table "ConfiguredPGs"

Column	Content	Type
*ConfPG	Name of the configured software group: concatenation of PGName and ConfigurationName	varchar(33)
*Product	Name of the product (installable unit)	varchar(16)
ModelID	ID of the corresponding model response file	varchar(8)
UserName	Reserved	varchar(8)

ConfPGStatus

Table 14. Column Definition of Table "ConfPGStatus"

Column	Content	Type
*ConfPG	Name of the configured software group: concatenation of PGName and ConfigurationName	varchar(33)
Configured	Date and time when the software group was configured	timestamp
Status	Status of the software group (0=invalid, 1=valid, or 2=frozen)	smallint
UserName	Reserved	varchar(8)

GroupValues

Table 15. Column Definition of Table "GroupValues"

Column	Content	Type
*ConfPG	Name of the configured software group	varchar(33)
*Product	Name of the product (installable unit)	varchar(16)
*Variable	Placeholder name from variable section of the model response file	varchar(100)
VarType	Type of the variable (undefined, any, decimal, integer, singlechar, list)	smallint
Value	Software group-specific value of the response file variable	varchar(400)

WSHardware

Table 16. Column Definition of Table "WSHardware"

Column	Content	Type
*Workstation	Name of the workstation (NetBIOS name, computer name)	varchar(8)
ModelID	ID of the corresponding model workstation description file	varchar(8)
Configured	Date and time when the workstation was configured	timestamp
Status	Status of the workstation	smallint
UserName	Reserved	varchar(8)

WSSoftware

Table 17. Column Definition of Table "WSSoftware"

Column	Content	Type
*Workstation	Name of the workstation (NetBIOS name, computer name)	varchar(8)
*ConfPG	Name of the configured software group for which the workstation was last configured	varchar(33)
Configured	Date and time when the workstation was configured	timestamp
Status	Status of the workstation	smallint
UserName	Reserved	varchar(8)

LocalValues

Table 18. Column Definition of Table "LocalValues"

Column	Content	Type
*Workstation	Name of the workstation (NetBIOS name, computer name)	varchar(8)
*Product	Name of the product (installable unit), HARD__ for hardware values	varchar(16)
*Variable	Placeholder name from variable section of the model response file	varchar(100)
VarType	Type of the variable	smallint
Value	Workstation-specific value of the response entry	varchar(400)

Synchronization between the NetView DM EasyPrep Database and the NetView DM/2 Catalog

This section gives you a brief explanation of what effect some of the NetView DM EasyPrep functions have on the NetView DM EasyPrep database and on the NetView DM/2 catalog at a NetView DM/2 CC server or remote administrator workstation.

The **Workstation** functions, *New*, *Change*, and *Delete*, update the NetView DM/2 catalog if you are working at a CC server or a remote administrator workstation and you check **Define to NetView DM/2**. They also update the NetView DM EasyPrep database.

The **Software** function, *Prepare Change Files*, updates the NetView DM/2 catalog if you are working at a CC server or a remote administrator workstation. It has no effect on the NetView DM EasyPrep database.

The **Hardware** function, in which you configure a workstation description, affects only the NetView DM EasyPrep database.

The **Software Group** functions, global and local configuration, update only the NetView DM EasyPrep database.

Appendix B. How NetView DM EasyPrep Names Change Files

This appendix shows how NetView DM EasyPrep names the change files it generates.

Change Files to Install a Product

In "Building Change Files" on page 50, you build change files to install a product. The names NetView DM EasyPrep gives these change files are of particular interest to the SPMF administrator. When NetView DM EasyPrep downloads a package or profile definition from the SPMF database and the package or profile definition contains change file global names, NetView DM EasyPrep ignores any global names that do not follow this syntax. NetView DM EasyPrep matches global names that follow this syntax with the software already defined to NetView DM EasyPrep.

The global names NetView DM EasyPrep gives to those change files are as follows:

corporate_ID.base_prod.REF.level.nlsversion.config_tokens
corporate_ID.base_prod.UPD.old_level.new_level.nlsversion.config_tokens
corporate_ID.base_prod.FIX.level.problem.nlsversion.config_tokens
corporate_ID.OS_MAINT.base_prod.REF.level.nlsversion.config_tokens
corporate_ID.LT_MAINT.base_prod.REF.level.nlsversion.config_tokens
corporate_ID.DM_MAINT.base_prod.REF.level.nlsversion.config_tokens

Where:

corporate_ID comes from the General tab of the Software Definition notebook. *base_prod,* REF, UPD, or FIX, *level, old_level, new_level,* and *problem* come from the Level tab of the Software Definition notebook. REF means the software was defined as a base product, and UPD means it was defined as a CSD in the notebook.

nlsversion comes from the National Language tab of the Software Definition notebook.

OS_MAINT means the change file runs SEMAINT in a maintenance system.

LT_MAINT means the change file installs LAN Transport in a maintenance system.

DM_MAINT means the change file installs NetView DM/2 in a maintenance system.

config_tokens is:

<software_group_name>.TDRIVE<target_drive_letter>_BOOT_<boot_drive_letter>

for all environments other than SPMF.

In an SPMF environment, *config_tokens* is:

TDRIVE_<target_drive_letter>_BOOT_<boot_drive_letter>

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Change Files Containing Images

In “Packing Product Images” on page 38, you build change files containing the images of a product to send to another node.

The global names NetView DM EasyPrep gives to those change files are as follows:

corporate_ID.IMG.base_prod.REF.level.nlsversion
corporate_ID.CSD_IMG.base_prod.REF.level.nlsversion

Where:

corporate_ID comes from the General tab of the Software Definition notebook.

IMG means the software is a base component and CSD_IMG means it is a CSD (ServicePak), as indicated in the Level tab of the Software Definition notebook.

base_prod comes from the Platform tab of the Software Definition notebook.

level comes from the Level tab of the Software Definition notebook.

nlsversion comes from the National Language tab of the Software Definition notebook.

Change Files Containing Response Files

In “Packing Response Files” on page 47, you build change files containing response files for a software product, to send to another node. Each change file contains all the response files for one product for the workstations in the CC domain of one CC server.

The global name NetView DM EasyPrep gives to those change files in all environments other than SPMF is:

corporate_ID.RSP.product_name.REF.1.software_group_name.server

Where:

corporate_ID and product_name come from the General tab of the Software Definition notebook.

In an SPMF environment, the global name is:

corporate_ID.RSP.product_name.REF.1.server

Appendix C. Changing Installation Parameters and Defaults

After installation, you can change:

- The name and drive of the NetView DM EasyPrep database
- The path to NetView DM/2
- The directory used for external files (by default, the directory where you installed NetView DM EasyPrep)
- The directory used for user exits (by default, the \USER subdirectory in the directory where you installed NetView DM EasyPrep)
- The directory where response files are stored (by default, the \SHARE_A\RSP subdirectory on the directory where NetView DM/2 is installed)
- The directory where images are stored (called the CID directory; by default, the \SHARE_A\IMG subdirectory on the directory where NetView DM/2 is installed)

To make changes, go to the \DLL subdirectory in the directory where you installed NetView DM EasyPrep and enter the command DPFMKINI. This gives you access to the NetView DM EasyPrep INI Editor notebook, where you can change the values.

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Bibliography

This bibliography lists publications that you may find helpful in understanding the concepts and terms used in this manual and for installing and using related software.

NetView DM/2

NetView DM/2 Getting Started, SH19-4067, is for the beginning NetView DM/2 user.

NetView DM/2 Concepts and Overview, GH19-4009, gives you an overview of NetView DM/2.

NetView DM/2 Change Distribution Manager User's Guide, SH19-5048, explains how to use the Change Distribution Manager feature of NetView DM/2.

NetView DM/2 LAN Download Utility User's Guide, SH19-5049, explains how to use the LAN Download Utility feature of NetView DM/2.

NetView DM/2 Installation and Customization Guide, SH19-6915, explains how to install and customize NetView DM/2, as well as how to configure other products that NetView DM/2 uses or with which it communicates.

NetView DM/2 Messages and Error Recovery Guide, SH19-6924, tells you how to diagnose problems and recover from errors when installing or using NetView DM/2.

OS/2 Version 2.0

IBM OS/2 2.0 Installation Guide describes how to install OS/2 2.0.

IBM OS/2 2.0 Command Reference describes how to use the various commands available to OS/2 2.0.

OS/2 Version 2.1

IBM OS/2 2.1 Installation Guide describes how to install OS/2 2.1.

IBM Using OS/2 2.1 describes how to use OS/2 2.1.

OS/2 Warp Version 3.0

User's Guide to OS/2 Warp contains information on installing and using OS/2 Warp.

Communications Manager/2

IBM Communications Manager/2 Workstation Installation and Configuration Guide, SC31-6169, provides both basic and advanced information to install Communications Manager and to configure it for various connections and features. This book also contains information about using a response file for installation and about changing a configuration.

IBM Communications Manager/2 User's Guide, SC31-6108, provides information for you to accomplish basic communications tasks using Communications Manager.

In addition, the following separately orderable publications contain information relevant to users of NetView DM/2:

IBM Communications Manager/2 Information and Planning Guide, SC31-7007, provides a complete overview of the Communications Manager/2 product, and planning information such as hardware and software requirements, migration considerations, and product ordering information.

IBM Communications Manager/2 Network Administration and Subsystem Management Guide, SC31-6168, provides an overview of Communications Manager/2 functions and the steps required to create the configurations for the workstations you support. This book also contains configuration worksheets.

IBM Communications Manager/2 Host Connection Reference, SC31-6170, contains parameter matching and sample system generations for OS/2 connections to S/370 and Application System/400 (AS400) hosts.

LAN Adapter and Protocol Support

IBM LAN Adapter and Protocol Support Configuration Guide, S04G-1113, provides the steps and basic information for installing LAN adapter and protocol support.

Network Transport Services/2 LAN Adapter and Protocol Support Configuration Guide, S96F-8489, contains conceptual, user interface, response file, and configuration reference information to configure workstations that enable OS/2 LAN-based products to operate over NDIS-compliant networks.

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Database 2 OS/2 (DB2/2)

IBM Database 2 OS/2 Information and Planning Guide, S62G-3662, provides product and planning information for the DB2/2 product.

IBM Database 2 OS/2 Guide, S62G-3663, contains information on the administration and operation of DB2/2.

IBM Database 2 OS/2 Installation Guide, S62G-3664, contains information on the DB2/2 installation program and its operation.

IBM Database 2 OS/2 SQL Reference, S62G-3667, contains information about how to use SQL to access the tables of DB2/2 databases.

Distributed Database Connection Services/2 (DDCS/2)

IBM SAA Distributed Database Connection Services/2 Guide, S62G-3792, provides details on the installation and configuration of Distributed Database Connection Services, as well as on the usage of DDCS/2 to access remote data.

NetView DM for MVS

NetView DM for MVS General Information, GH19-6792, contains a general introduction to NetView DM for MVS, a description of its functions, and what you need to install it.

NetView DM for MVS Overview and Scenarios, SH19-6797, contains a detailed overview of NetView DM and specific examples (scenarios) of its implementation and use.

NetView DM for MVS Installation and Customization, SH19-6794, contains information on how to prepare and plan for installing NetView DM for MVS and how to customize NetView DM for MVS for your environment.

NetView DM for MVS User's Guide, SH19-6795, is for those persons who will use NetView DM for MVS after installation. It describes how you use NetView DM for MVS to create transmission plans and manage your network, by using the General Interactive Executive (GIX) and Batch Utilities. In addition, the manual explains how NetView DM for MVS monitors and controls NetView DM for MVS transmission activity with the interactive operator facility (IOF).

NetView DM for MVS Base Application Programming, SH19-6958, is for those persons responsible for developing user application programs that make use of the NetView DM for MVS base user interfaces.

NetView DM for MVS Distribution and Change Control Application Programming, SH19-6959, is for those persons responsible for developing user application programs that make use of the Distribution and Change Control API.

NetView DM for MVS Diagnosis, LY19-6374, defines the procedures to isolate the cause of a NetView DM for MVS problem and how to extract additional NetView DM data for further analysis. It also describes how to apply a Program Temporary Fix (PTF).

NetView DM for MVS Messages and Codes, SH19-6798, describes the routine NetView DM for MVS operational messages and the NetView DM for MVS abnormal end (ABEND) messages.

NetView DM for MVS SPMF User's Guide, SH19-4148, describes the SPMF function, which provides a single interface and simplifies the distribution of software to large numbers of workstations on LANs.

NetView DM for MVS Database Model, SH19-4147, describes the structure of the relational database for NetView DM for MVS

Configuration, Installation, and Distribution (CID)

Configuration, Installation, and Distribution Enablement Guidelines, S10H-9666, describes the rules for designing a product to conform to the CID methodology.

Glossary

This glossary defines NetView DM family product abbreviations and terms. It includes terms and definitions from the *IBM Dictionary of Computing*, New York: McGraw-Hill, 1994, which defines many additional data processing terms.

This glossary also includes terms and definitions from:

The *American National Standard Dictionary for Information Systems*, ANSI X3.172-1990, copyright 1990 by the American National Standards Institute (ANSI). Copies may be purchased from the American National Standards Institute, 11 West 42nd Street, New York, New York 10036. Definitions are identified by the symbol (A) after the definition.

The *Information Technology Vocabulary*, developed by Subcommittee 1, Joint Technical Committee 1, of the International Organization for Standardization and the International Electrotechnical Committee (ISO/IEC JTC1/SC1). Definitions from published parts of this vocabulary are identified by the symbol (I) after the definition; definitions taken from draft international standards, committee drafts, and working papers being developed by ISO/IEC JTC1/SC1 are identified by the symbol (T) after the definition, indicating that final agreement has not yet been reached among the participating National Bodies of SC1.

For abbreviations, the definition usually consists only of the words represented by the letters; for complete definitions, see the entries for the words.

Reference Words Used in the Entries

The following reference words are used in this glossary:

Synonymous with. Appears in the commentary of a preferred term and identifies less desirable or less specific terms that have the same meaning.

Synonym for. Appears in the commentary of a less desirable or less specific term and identifies the preferred term that has the same meaning.

Contrast with. Refers to a term that has an opposed or substantively different meaning.

See also. Refers to related terms that have similar (but not synonymous) meanings.

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A

advanced program-to-program communication (APPC). The general facility characterizing the LU 6.2 architecture and its various implementations in products.

American National Standard Code for Information Interchange (ASCII). The standard code with a coded character set consisting of 7-bit coded characters (8 bits including parity check), used for information interchange among data processing systems and data communication systems. The ASCII set consists of control characters and graphic characters.

APPC. Advanced program-to-program communication.

ASCII. American National Standard Code for Information Interchange.

AS/400. IBM Application System/400.

authorization. In NetView DM for MVS, the right to access specific resources, work with specific node types, and perform specific functions.

B

batch utilities. A set of NetView DM for MVS programs that provide a batch interface to NetView DM for MVS facilities. Batch utilities can be invoked by application programs or using JCL, and allow the user to:

- Define nodes and data objects to NetView DM for MVS
- Assign data objects to nodes
- Manage data objects in the resource repository
- Prepare and submit transmission plans
- Maintain NetView DM for MVS files

bridge. A functional unit that interconnects two local area networks that use the same logical link control protocol but may use different medium access control protocols. (T) See also *gateway*.

builder. A person, working at a preparation site, who prepares software packages and data files for installation at application sites.

C

catalog. The database used to describe, register and track all of the information that is required to manage software and user data distribution and change control. It includes:

- The identification of the software or data to be distributed
- The identification of the controlled workstations
- The relationships between these two
- The identification of files of data that control the way changes are implemented

CC client. Change control client.

CC server. Change control server.

CC single node. Change control single node.

CDM agent. In NetView DM/2, the change distribution manager component that executes change control requests on all workstations in a LAN that have CDM installed. It manages the interface with specific system and application software installation programs. It is the only CDM component installed on a change control client.

change control. The control of software and data at a target, by means of actions such as Install, Remove, Accept, Uninstall, and Activate.

change control (CC) server. A workstation that controls and tracks the distribution of software and data files to other workstations (its *change control clients*). In a NetView DM/2 environment, a CC server and all its CC clients must be on the same LAN. In a NetView DM/6000 environment, a CC server and all its CC clients must be in the same TCP/IP network. In a NetView DM for NetWare** environment, a CC server and all its CC clients must be in the same IPX network.

change control (CC) single node. A workstation running NetView DM/2, NetView DM/6000, or SystemView Managed System Services/400 that is not a CC server or a CC client. A CC single node can serve as a preparation site, an application site, or a remote administrator workstation.

change distribution manager (CDM). A component of NetView DM/2 that is used to manage and control the execution of local and remote (where appropriate) requests for distribution of, and changes to, system software, application software, and user data. The remote communication is based on the formats and protocols described in the change management category of SNA/Management Services.

change file. An object used to apply change control.

change file profile. A list of statements that describe how to build a change file. The statements identify the files that are to be the subject of the change control request, the identity of the software installation program to be used to install the software after the change control request has been processed, and the global name to be given to the change file when it is entered into the catalog.

The statements can be placed in a file for processing, or can be entered interactively.

change management. The area of activity concerned with administration, coordination, and execution of centrally managed changes to the software and data at nodes in a network.

CID. Configuration, installation, and distribution. See *CID methodology*.

CID methodology. An IBM-specified way to install and configure products on, or remove products from, remote workstations and hosts. CID-enabled products use response files and redirected installation and configuration to eliminate or reduce user interaction with the CID-enabled product.

command interface. A direct method of communication between the user and a NetView DM family product. The user can type in commands at a command prompt. Contrast with *dialog interface*.

command prompt. A displayed character or string of characters that indicates that a user may enter a command to be processed.

component. (1) A software package supplied in the form of change files. A change file has the name of the component as the first one or more tokens in the global name. (2) A functional part of a software product.

component name. The first tokens, usually two, in the global name of a change file.

configuration file. (1) In Communications Manager, a file that describes the devices, optional features, communication parameters, and programs installed on a workstation. (2) In Database Manager, a file containing values that can be set to adjust the performance of Database Manager. (3) For the base operating system, the CONFIG.SYS file that describes the devices, system parameters, and resource options of a workstation.

corporate ID. The first token in the global name of a change file.

customization. The process of designing a data processing installation or network to meet the requirements of particular users.

D

Database 2. An IBM relational database management system.

Database Manager. The OS/2 subsystem that administers the creation and maintenance of databases, including the NetView DM/2 catalog.

data distribution. The exchange of data files between nodes with NetView DM family products installed across SNA networks.

data object. Synonym for *object.*

destination. In NetView DM family product transmissions, the node to which an object is being sent.

device driver. A file that contains the code needed to use an attached device.

dialog. In an interactive system, a series of interrelated inquiries and responses analogous to a conversation between two people.

dialog interface. A user interface made up of graphical images such as windows and buttons, and controlled primarily with a mouse. Contrast with *command interface.*

directory. (1) A list of the files that are stored on a disk or diskette. A directory also contains information about the file such as size and date of last change. (2) A named grouping of files in a file system. (3) In Database Manager, a list of objects, for example, databases or nodes, and their corresponding locations.

DiskCamera. A utility program that provides the means to replicate, at a DOS or Microsoft Windows workstation, an application installation that was performed manually at the preparation site.

distribution. The transmitting of one or more objects from one node to other nodes in the network.

distribution and change control (D&CC). The distribution of change files and change control commands to targets and the support of the commands on those targets.

domain. (1) The set of workstations controlled by a CC administrator. (2) That part of a computer network in which the data processing resources are under common control. (T)

E

Easy Preparer for OS/2, NetView DM. A product that runs in conjunction with NetView DM/2 and OS/2; it simplifies preparation of response files and change files.

enterprise administrator. A person who works at a focal point and is responsible for all distribution and change control activities across a network.

F

feature. A particular part of an IBM product that a customer can order separately.

file. A collection of related data that is stored and retrieved by an assigned name.

file name. (1) The name used by a program to identify a file. (2) In OS/2 or DOS, the portion of the identifying name of the file that precedes the file name extension.

file services. A set of services for distributing objects to remote destinations.

file system. The collection of files and file management structures on a physical or logical mass storage device such as a disk.

focal point. A system running NetView DM for MVS that provides centrally controlled distribution, installation, maintenance, and tracking of software and data files.

G

gateway. In communication, a functional unit that connects two computer networks with different network architectures. See also *bridge.*

global configuration. In NetView DM EasyPrep, a configuration of a software group that includes identification of the software products in the group, a model response file assigned to each product, and values for the model response file variables that are not workstation-dependent.

group. A logical association of SPMF and NetView DM for MVS nodes that provides a mechanism for organizing nodes for software distribution.

H

host. (1) In TCP/IP, any system that has at least one Internet address associated with it. (2) A mainframe system running NetView DM for MVS.

I

IBMNVDM2. The default name of the directory where NetView DM/2 is installed.

IBM Operating System/2. An operating system for personal computers.

IBM Token-Ring Network. A high-speed, star-wired local area network to which a variety of IBM products can be connected.

install. A change control action that performs the installation of one or more objects at a selected group of workstations.

installation unit. A separately installable item of software.

installation. The process of adding or replacing a program, program option, or program update to a system in such a manner that it can be executed and interacts properly with all the affected programs in the system.

interactive operator facility (IOF). That part of NetView DM for MVS that allows its control operator to monitor the progress of transmissions and to intervene as necessary.

IOF. Interactive operator facility.

L

LAN. Local area network.

LAN adapter. A card that is installed in a personal computer and is used to attach the computer to a local area network.

LAN download utility (LDU). A component of NetView DM/2 that provides downloading of files within a LAN environment.

LAN requester. A component of the OS/2 LAN Server program that allows users to access shared network resources made available by OS/2 LAN servers.

LAN Server. IBM Operating System/2 LAN Server. A program that allows resources to be shared with other computers on the network.

local administrator. A person who works at a workstation and is responsible for controlling distribution and maintenance of software packages and data files across a domain that consists of (1) a CC server and its CC clients or (2) one CC single node.

local area network (LAN). (1) A computer network located on a user's premises within a limited geographical area. (2) A network in which a set of devices are connected to one another for communication and that can be connected to a larger network. Contrast with *wide area network.*

local configuration. In NetView DM EasyPrep, a configuration of a software group that includes identification of the software products in the group, a model response file assigned to each product, and values for the model response file variables.

logical unit (LU). In SNA, a type of network addressable unit that enables end users to gain access to network resources and communicate with each other.

logical unit name. The LU name identifying a node in the network.

LU. Logical unit.

LU alias. The Communications Manager name used by NetView DM/2 to identify each APPC-connected node in the network.

LU 6.2. Logical unit 6.2.

M

message log. A file in which messages that are displayed to the user during operation are recorded and stored.

migration. Installation of a new version or release of a program when an earlier version or release is already in place.

model response file. In NetView DM EasyPrep, a template for a response file for a CID-enabled product. NetView DM EasyPrep generates a response file by combining a model response file with specific configuration values.

model workstation description file. In NetView DM EasyPrep, a template for a workstation description file.

modification file. A file of changes to be made to system files. Modification files may be sent as part of a change control request; they are input to the system file update utility.

modification level. A distribution of all temporary fixes that were issued since the previous modification level. A new modification level normally does not include new functions.

N

NetBIOS. Network Basic Input/Output System. A protocol for application programs used on IBM personal computers that are attached to the IBM Token-Ring Network.

NetView. A mainframe-based IBM licensed program used to monitor a network, manage it, and diagnose its problems.

NetView Distribution Manager (NetView DM). A name given to a suite of IBM programs providing change control and distribution facilities.

NetView Distribution Manager Easy Preparer for OS/2. A product that runs in conjunction with NetView DM/2 and OS/2; it simplifies preparation of response files and change files.

network. (1) A configuration of data processing devices and software connected for information interchange. (2) A group of nodes and the links interconnecting them.

network ID. (1) In SNA, the eight-character identifier of the network. A workstation's network ID identifies the network to which it belongs. (2) In TCP/IP, that part of the Internet address that defines a network.

node. (1) In SNA, an end point of a link or junction common to two or more links in a network. Nodes can be processors, communication controllers, cluster controllers, or terminals. Nodes can vary in routing and other functional capabilities. (2) In the NetView DM product family, any mainframe processor, workstation, or other computer participating in the distribution and change control system. (3) In VTAM, a point in a network defined by a symbolic name.

node software profile. In SPMF, a combination of software packages that satisfies the business needs for a set of workstation users within an enterprise. The profile is a combination of software functional packages.

O

object. The unit of distribution in a network controlled by the NetView DM product family to manage software distribution and changes. It can contain any kind of software or user data. The object manipulation and distribution is based on the IBM SNA/File Services architecture formats and protocols. Synonymous with *data object*.

operating system. Software that controls the execution of programs and that may provide services such as resource allocation, scheduling, input/output control, and data management. Although operating systems are predominantly software, partial hardware implementations are possible. (T)

OS/2. IBM Operating System/2.

P

package. In NetView DM for MVS, a user-defined collection of related change files required to maintain an application or system software product. Typically, the package contains all files necessary to run an application or product; it may contain updates and fixes as well as the base. Also called a *software functional package*.

path. (1) The route used to locate files on a disk or diskette. The route consists of a collection of drives and directories. (2) In the IBM Token-Ring Network, a route between any two nodes. (3) In Systems Network Architecture (SNA), the set of data links, data link control layers, and path control layers that a path information unit travels through when sent from transmission control of one half-session to transmission control of another half-session.

PC Network. A low-cost broad-band network that allows attached IBM personal computers to communicate and to share resources.

preparation site. A workstation where builders prepare software and data files for installation on other workstations in the network.

Presentation Manager. The interface of the OS/2 program that presents, in windows, a graphics-based interface to applications and files installed and running on the OS/2 operating system.

pristine. Pertaining to a workstation that has no software installed.

profile. In SPMF, a combination of software packages that satisfies the business needs for a set of workstation users within an enterprise. The profile is a combination of software functional packages. Also called a *node software profile.*

program temporary fix (PTF). A temporary solution or bypass of a problem diagnosed by IBM in a current unaltered release of the program.

protocol. A set of semantic and syntactic rules that determines the behavior of functional units in achieving communication. (I)

R

RACF. Resource Access Control Facility.

remote administrator. A person who works at a workstation and is responsible for controlling distribution and maintenance of software packages and data files across a domain that can include multiple CC servers and their clients, and multiple CC single nodes. A remote administrator's workstation can, optionally, be configured so that all change control activities within the domain are reported to a focal point or to a higher-level remote administrator workstation.

remote administrator workstation. The workstation from which a remote administrator controls distribution of software and data files across a domain that can include multiple CC servers and their clients, and multiple CC single nodes.

Resource Access Control Facility (RACF). A licensed program that provides for access control by identifying and verifying users to the system, authorizing access to DASD data sets, logging detected unauthorized attempts to enter the system, and logging detected accesses to protected data sets.

response file. A file containing the installation parameters for an item of application or system software. It is used by the installation program of the software item.

response file generator. A component of NetView DM EasyPrep that creates response files based on model response files.

S

send. A file service action that distributes an object to a remote destination.

software distribution manager. A program that controls remote installation of software.

software functional package. In NetView DM for MVS, a user-defined collection of related change files required to maintain an application or system software product. Typically, the package contains all files necessary to run an application or product; it may contain updates and fixes as well as the base.

software group. In NetView DM EasyPrep, a group of software products that the user intends to install on the same group of workstations. NetView DM EasyPrep builds response files and change files for all products in a software group at the same time.

Software Profile Management Facility (SPMF). A feature of NetView DM for MVS that allows software distribution based on workstation profiles.

source. Any computer running a NetView DM family product that is the origin of change control or file service actions. Contrast with *target.*

SPMF. Software Profile Management Facility.

subdirectory. In an IBM personal computer, a file referred to in a root directory that contains the names of other files stored on the disk or diskette.

T

target. Any computer running a NetView DM family product to which change control or file service actions are directed. Contrast with *source.*

TCP/IP. Transmission Control Protocol/Internet Protocol.

token. (1) In a NetView DM family product, a group of alphabetic or numeric characters or both, separated from the next token by a period, that is used to make up the global name of an object. (2) In NetView DM/6000 and NetView DM for NetWare, a short item of text that is replaced with specific text at the target. Use of tokens allows use of a general term that can be replaced with the text needed at each target. Each target can have many tokens defined. They are normally used for customizing directory path names during change control operations.

token ring. A network with a ring topology that passes tokens from one attaching device to another. For example, the IBM Token-Ring Network.

transmission. The sending of data from one place for receipt elsewhere. (A) (Transmission implies only the sending of data; the data may or may not be received. The term *transmit* is used to describe the sending of data in telecommunication operations. The terms *move* and *transfer* are used to describe movement of data in data processing operations.)

In NetView DM for MVS, transmission is also used to indicate both sending and receiving.

Transmission Control Protocol/Internet Protocol (TCP/IP). A set of communication protocols that support peer-to-peer connectivity functions for both local and wide area networks.

U

user exit. (1) A point in a program supplied by IBM at which a user routine can be given control. (2) A programming service provided by an IBM software product that can be requested during the execution of an application program for the purpose of transferring control back to the application program on the later occurrence of a user-specified event.

V

version. (1) A token in the global name of a change file that makes it possible to distinguish different files that have the same component name, change name, and maintenance level. (2) A separate IBM licensed program, based on an existing IBM program, that usually has significant new code or new functions. Each version has its own license, terms, conditions, product type number, monthly charge, documentation, test allowance (if applicable), and programming support category.

W

wide area network (WAN). A network that provides communication services to a geographic area larger than that served by a local area network or a metropolitan area network, and that may use or provide public communication facilities. (T) Contrast with *local area network.*

workstation description file. In NetView DM EasyPrep, a file, analogous to a response file for software, that contains details about the hardware and software configuration of a workstation.

workstation group. In NetView DM EasyPrep, a group of workstations on which the user intends to install the same software group. NetView DM EasyPrep creates response files and change files for all workstations in a workstation group at the same time.

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