DECmcc WANdesigner Installation

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This document provides instructions for installing DECmcc WANdesigner on a VAX VMS system.

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Operating System and Version: VMS Version 5.1 or higher

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Preface

This document explains how to initially install DECmcc WANdesigner on VAX VMS systems. You will also need this document should you need to reinstall DECmcc WANdesigner for any reason.

DECmcc WANdesigner is installed using VMSINSTAL, a command procedure that executes the installation. The installation procedure is described step by step. The dialog, for the most part, is self-explanatory. The system prompts you to answer questions and waits for you to tell it to continue.

Intended Audience

The audience for this manual is the system manager or whoever installs and maintains WANdesigner. If you plan to install WANdesigner, you should be familiar with the following manuals:

- *VMS Authorize Utility Manual*
- *VMS System Manager's Manual*
- *VMS System Messages and Recovery Procedures Reference Volume*

Structure of This Document

Chapter 1 provides an explanation of installation prerequisites such as hardware, software, and license registration. It also lists special installation requirements for WANdesigner and describes the installation procedure requirements.

Chapter 2 details the installation procedure. It includes information about online release notes, the installation verification procedure (IVP), and installation error recovery.

Chapter 3 explains postinstallation customizing and maintenance procedures.

Appendix A contains a sample installation.

Associated Documents

For information on how to use DECmcc WANdesigner, refer to:

- *DECmcc WANdesigner Use*
- *DECmcc WANdesigner Reference*

Conventions Used in This Document

The following documentation conventions are used in this guide:

Convention	Meaning
`screen typeface`	Text printed in this typeface represents messages and prompts that the system displays on the screen, or information you enter at the DCL command prompt.
command syntax	Text printed in this typeface represents the syntax for information you enter at the DCL command prompt.
Ctrl/Y	The word Ctrl followed by a slash followed by a letter means that you must type the letter while holding down the Ctrl key. For example, Ctrl/Y means press the Y key while holding down the Ctrl key.
enter	The word "enter" means type the information that follows and then press the Return key.
UPPERCASE	Uppercase text is used to indicate program names (VMSINSTAL), command responses (YES), and file names.
asterisk (*)	Lines beginning with an asterisk (*) are system prompts.
brackets ([ ])	Items in brackets [ ] *before* the colon in a prompt are the system's default answers. Pressing the Return key in response to a prompt means you accept the default answer.
slash (/)	A slash after a command indicates that a qualifier follows.

1 Preparing to Install DECmcc WANdesigner

This chapter discusses the preparations and requirements necessary for installing DECmcc WANdesigner.

Your bill of materials (BOM) and indented bills report (BIL) specify the number and contents of your media. Be sure to verify the contents of your kit with this information. If your kit is damaged or if you find that parts of it are missing, contact your Digital representative.

WANdesigner provides online release notes. Digital strongly recommends that you read the release notes before proceeding with the installation. For information on accessing the online release notes, see Section 2.1.1.

1.1 Prerequisite Software

This section discusses the software you must have installed on your system before installing WANdesigner. It also includes information about the software that you need to run WANdesigner.

Before you install WANdesigner, the following software must be installed on your system:

- VMS, Version 5.1 or higher

WANdesigner Version 1.0 requires the following Digital software products:

- DEC GKS for VMS, Version 4.1, run-time option
- DECforms, Version 1.1, run-time option

WANdesigner will install correctly without DEC GKS and DECforms installed, but the Installation Verification Procedure (IVP) will not run. You cannot run WANdesigner until DEC GKS and DECforms are installed.

1.2 Prerequisite Hardware

WANdesigner requires a video terminal to run the IVP.

1.3 License Registration

You must register the WANdesigner license through the VMS License Management Facility (LMF) in accordance with the license agreement signed by your site. The license registration information you need is contained in the Product Authorization Key (PAK) that is shipped with WANdesigner. The PAK is a paper certificate that contains information about the license you have to run a particular piece of software.

During the installation, the system asks whether you have registered the WANdesigner license and loaded the appropriate authorization key. You must register and load your license for WANdesigner *before* you start the installation in order to run the IVP and use the software.

To register a license under VMS, first log in to the system manager's account, SYSTEM. You then have a choice of two ways to perform the registration:

- Invoke the SYS$UPDATE:VMSLICENSE.COM procedure. When it prompts you for information, respond with data from your PAK.
- At the DCL prompt, issue the LICENSE REGISTER command with the appropriate qualifiers that correspond to PAK information.

For complete information on using LMF, see the manual on the License Management Utility in the VMS documentation set.

1.4 Special Requirements for Installing WANdesigner

Install DEC GKS and DECforms prior to installing WANdesigner if you want the IVP to run as part of installation. If either DEC GKS or DECforms is not installed, the IVP will not run. Both DEC GKS and DECforms must be installed to run WANdesigner.

If you plan on installing WANdesigner on a VAXcluster, see Section 3.3.

1.5 Installation Procedure Requirements

The following sections discuss various requirements for installing WANdesigner.

1.5.1 Time

The installation takes approximately 5 to 30 minutes, depending on your type of media and your system configuration.

Installing WANdesigner and running the IVP on a standalone VAXstation 2000 system takes 6 minutes.

1.5.2 Privileges

To install WANdesigner, you must be logged in to an account that has SETPRV or at least the following privileges:

- CMKRNL
- WORLD
- SYSPRV

Note that VMSINSTAL turns off BYPASS privilege at the start of the installation.

1.5.3 Disk Space

Installing WANdesigner requires a certain amount of free disk storage space during the installation. Table 1–1 summarizes the storage requirements.

Table 1–1 Disk Space Requirements

Kit	Blocks During Installation	Blocks After Installation
WANdesigner Version 1.0	3,000	3,000

To determine the number of free disk blocks on the current system disk, enter the following command at the DCL prompt:

```
$  SHOW DEVICE SYS$SYSDEVICE
```

1.5.4 VMSINSTAL Requirements

When you invoke VMSINSTAL, it checks the following:

- Whether you have set your default device and directory to SYS$UPDATE
- Whether you are logged in to a privileged account
- Whether you have adequate quotas for installation
- Whether DECnet is running
- Whether any users are logged in to the system

Note that the VMSINSTAL requires that the installation account have a minimum of the following quotas:

ASTLM = 24
BIOLM = 18
BYTLM = 18,000
DIOLM = 18
ENQLM = 30
FILLM = 20

If VMSINSTAL detects any problems during the installation, it notifies you and asks if you want to continue the installation. In some instances, you can enter YES to continue. To stop the installation process and correct the situation, enter NO or press the Return key. Then correct the problem and restart the installation.

1.5.5 Backing Up Your System Disk

At the beginning of the installation, VMSINSTAL asks if you have backed up your system disk. Digital recommends that you do a system disk backup before installing any software.

Use the backup procedures that are established at your site. For details on performing a system disk backup, see the section on the Backup Utility in the VMS System Management Subkit.

1.5.6 WANdesigner Requirements

WANdesigner checks for DEC GKS and DECforms. If DEC GKS or DECforms is not installed, then installation will continue, but the IVP will not run. Both DEC GKS and DECforms must be installed to run WANdesigner.

2 Installing WANdesigner

This chapter describes how to install WANdesigner. Section 2.2 contains a step-by-step description of the installation procedure.

2.1 General Information

This section includes information about the following topics:

- Accessing release notes
- Determining files and logical names added to your system
- Running the Installation Verification Procedure (IVP)
- Aborting the installation

2.1.1 Accessing the Online Release Notes

WANdesigner provides online release notes. You must specify OPTIONS N when you invoke VMSINSTAL to see the question about online release notes. This question comes near the beginning of the installation.

You should review the release notes in case they contain any information about last minute changes in the installation procedure. If you are starting the installation over again and have already reviewed the release notes, you do not need to specify OPTIONS N.

Once WANdesigner has been installed, the release notes are located in the following file:

```
SYS$HELP:NDS010.RELEASE_NOTES
```

Online help also directs you to the release notes file. After the installation, you can enter the following command to review the release notes through the Help facility:

```
$  HELP DESIGN DECMCC_WANDESIGNER RELEASE_NOTES
```

2.1.2 Determining the Files Added to the System

During the installation, WANdesigner creates some files on your system.

The following files are created:

SYS$SYSTEM:NDS$DESIGN.EXE
SYS$LIBRARY:NDS$FORM.EXE
SYS$MESSAGE:NDS$MESSAGE.EXE
SYS$TEST:NDS$IVP.COM
SYS$STARTUP:NDS$STARTUP.COM
SYS$HELP:NDS010.RELEASE_NOTES
SYS$SYSROOT:[SYSHLP.EXAMPLES]NDS.DIR
SYS$SYSROOT:[SYSHLP.EXAMPLES.NDS]NDS$EXAMPLE.DAT

2.1.3 Running the Installation Verification Procedure

The Installation Verification Procedure (IVP) for WANdesigner verifies the installation. During the installation, you are asked if you want to run the IVP as part of the installation. If you respond YES, VMSINSTAL runs the IVP. It is recommended that you run the IVP to make sure that WANdesigner is installed correctly.

After WANdesigner is installed, you can run the IVP independently to verify that the software is available on your system. You might need to run the IVP after a system failure to make sure that users can access WANdesigner. Type the following command at the VMS prompt:

```
$ @SYS$TEST:NDS$IVP
```

Note: To do this, you need write access to SYS$TEST.

2.1.4 Aborting the Installation

To abort the installation procedure at any time, press Ctrl/Y. When you press Ctrl/Y, the installation procedure deletes all files it has created up to that point and exits. You can then start the installation again.

2.2 Installation Procedure

The WANdesigner installation procedure consists of a series of questions and informational messages.

2.2.1 Invoking VMSINSTAL

To start the installation, invoke the VMSINSTAL command procedure from a privileged account, such as the SYSTEM account. VMSINSTAL is in the SYS$UPDATE directory. You use the following syntax to invoke VMSINSTAL:

@SYS$UPDATE:VMSINSTAL saveset-name device-name OPTIONS N

saveset-name
The installation name for the component. For WANdesigner, use the following installation name:

```
NDS010
```

device-name
The name of the device on which you plan to mount the media. For example, MTA0: is the device name for a tape drive. It is not necessary to use the console drive for this installation. However, if you do use the console drive, you should replace any media you removed once the installation is complete.

OPTIONS N
An optional parameter that indicates you want to see the release notes question. If you do not include the OPTIONS N parameter, VMSINSTAL does not ask you about the release notes. You should review the release notes before proceeding with the installation in case they contain new information about the installation.

Note that there are several other options you can select when you invoke VMSINSTAL. See the VMS documentation on software installation in the VMS System Management Subkit for information on these options. If you specify more than one option, separate the options with commas (OPTIONS A,N).

The following example invokes VMSINSTAL to install WANdesigner from tape drive MTA0: and shows the system response. This example uses the OPTIONS N release note parameter.

```
$  @SYS$UPDATE:VMSINSTAL NDS010 MTA0: OPTIONS N

      VAX/VMS Software Product Installation Procedure V5.1


It is 05-MAR-1990 at 09:15.
Enter a question mark (?) at any time for help.
```

If you do not supply either the product name or the device name, VMSINSTAL prompts you for this information later in the installation procedure. VMSINSTAL does not prompt you for any options, so be sure to include OPTIONS N on the VMSINSTAL command line to access the release notes during the installation.

2.2.2 Installation Questions

This section discusses the questions that appear during the installation. Appendix A contains a sample installation procedure showing how the questions can be answered.

Each question in the installation is marked with an asterisk (*) at the beginning of the line. Some questions show the default response in brackets, for example [YES]. To use the default response, press the Return key.

1 DECnet status

If you are installing WANdesigner on VMS Version 5.1, VMSINSTAL notifies you if DECnet is running and displays a list of all active

processes. It then asks if you want to continue the installation. You should install WANdesigner on a standalone system or cluster with DECnet shut down. NO is the default response to the question.

```
%VMSINSTAL-W-DECNET, Your DECnet network is up and running.
   .
   .
   .
* Do you want to continue anyway [NO]?
```

If you are installing on VMS Version 5.2 or higher, VMSINSTAL does not check the DECnet status. You can install WANdesigner while DECnet is up and running.

2 System backup

VMSINSTAL asks if you are satisfied with your system backup. You should always back up your system disk before performing an installation. If you are satisfied with the backup of your system disk, press Return. Otherwise, enter NO to discontinue the installation. After you back up your system disk, you can restart the installation.

```
* Are you satisfied with the backup of your system disk [YES]?
```

3 Mounting the media

You should now mount the first distribution volume on the device you specified when you invoked VMSINSTAL. The device name appears in the line preceding the question. VMSINSTAL then asks you if you are ready to continue with the installation.

If you respond YES to indicate that you are ready, VMSINSTAL displays a message that the media containing WANdesigner has been mounted on the specified device and that the installation has begun. For example:

```
Please mount the first volume of the set on MTA0:.
* Are you ready?  YES
%MOUNT-I-MOUNTED, WANdesigner MOUNTED ON _$$MTA0:  (NODE 1)
The following products will be processed:
  NDS V1.0

    Beginning installation of NDS V1.0 at 20:01

%VMSINSTAL-I-RESTORE, Restoring product saveset A...
```

If you entered the wrong device name when you invoked VMSINSTAL and need to restart the installation, enter NO in response to the ‘‘Are you ready?’’ question. To abort the installation for other reasons, press Ctrl/Y.

4 Release Notes

If you specified OPTIONS N when you started the installation, VMSINSTAL asks a release notes question. You have five options for handling the release notes under VMS Version 5.1. There are only four options under VMS Version 5.2 or higher.

For VMS Version 5.1, you see the following display:

```
Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  Copy release notes to SYS$HELP
 5.  Do not display, print or copy release notes

* Select option [2]:
```

For VMS Version 5.2 or higher the display is as follows:

```
Release notes included with this kit are always copied to SYS$HELP.

Additional Release Notes Options:

 1.  Display release notes
 2.  Print release notes
 3.  Both 1 and 2
 4.  None of the above

* Select option [2]:
```

If you select option 1, VMSINSTAL displays the release notes immediately on the console terminal. You can terminate the display at any time by pressing Ctrl/C.

If you select option 2, VMSINSTAL prompts you for the name of the print queue that you want to use:

```
* Queue name [SYS$PRINT]:
```

Press Return to send the file to the default output print device or enter another queue name.

If you select option 3, VMSINSTAL displays the release notes immediately on the console terminal and then prompts you for a queue name for the printed version.

Option 4 under VMS Version 5.1 causes the installation to copy the release notes to the help directory. Even if you do not select the VMS Version 5.1 option 4, the release notes for WANdesigner are copied to the SYS$HELP directory. Under VMS V5.2 or higher, release notes are always copied to SYS$HELP.

VMSINSTAL automatically copies the WANdesigner release notes to the system help directory. The file specification is as follows:

```
SYS$HELP:NDS010.RELEASE_NOTES
```

Select option 4 (VMS Version 5.2 or higher) or option 5 (VMS Version 5.1) if you have already reviewed the release notes and are restarting the installation.

5 Continuing the installation

The installation procedure now asks if you want to continue the installation. To continue, enter YES. Otherwise, press Return. In either case, the release notes are copied to a file in the SYS$HELP directory. For example:

```
* Do you want to continue the installation [N]?:  YES
%VMSINSTAL-I-RELMOVED, The product's release notes have been
                                        successfully moved to SYS$HELP.
```

The release notes are located in the following file:

```
SYS$HELP:NDS010.RELEASE_NOTES
```

Note: The name of the release notes file installed by VMSINSTAL consists of the current product name and version number. Do not delete release notes for previous versions of WANdesigner.

6 License Registration

The installation procedure displays license information about your product and then asks if you have registered and loaded your authorization key for WANdesigner. For example:

```
Product:       DECmcc WANdesigner
Producer:      DEC
Version:       1.0
Release Date:  27-JUL-1990

* Does this product have an authorization key registered and loaded?
```

You must register and load your product authorization key to successfully complete the installation. If you have not registered and loaded your authorization key, you must answer NO to this question. If you have not done so, you should stop the installation, register and load your product authorization key, and then restart the installation.

7 Choosing to run the Installation Verification Procedure (IVP)

The installation procedure now asks if you want to run the IVP. The IVP for WANdesigner checks to be sure that the installation is successful. It is recommended that you run the IVP.

```
* Do you want to run the IVP after the installation [YES]?
```

8 Choosing to purge files

You have the option to purge files from previous versions of WANdesigner that are superseded by this installation. Purging is recommended; however, if you need to keep files from the previous version, enter NO in response to the question.

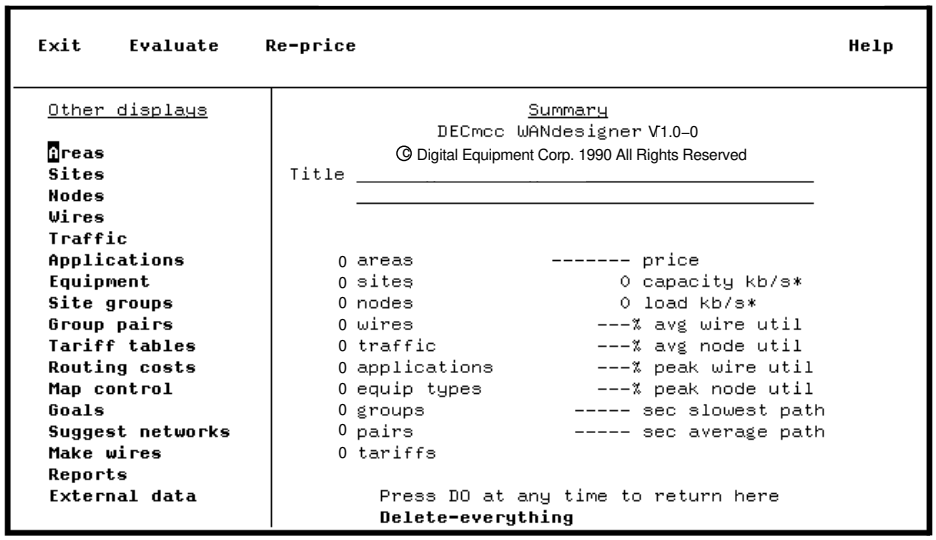
```
* Do you want to purge files replaced by this installation [YES]?
```

2.2.3 Informational Messages

At this point, the installation procedure displays a number of informational messages that report on the progress of the installation. There are no further questions. If the installation procedure has been successful up to this point, VMSINSTAL moves the new or modified files to their target directories, updates help files, and updates DCL tables, if necessary. If you chose to have files purged, that work is done now. The following messages are displayed:

```
%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                          VMI$ROOT:[SYSHLP.EXAMPLES.NDS]

      To define the DECmcc WANdesigner system logicals on system boot,
        add the command to execute NDS$STARTUP.COM to the system startup
        command file:  @SYS$STARTUP:NDS$STARTUP.COM

%VMSINSTAL-I-MOVEFILES, files will now be moved to their target
                                    directories...
```

2.2.4 Running the Installation Verification Procedure




```
DECmcc WANdesigner V1.0 IVP completed successfully.

The DECmcc WANdesigner V1.0 IVP has completed successfully.
```

The last message is displayed only during the installation, not if the IVP is run from SYS$TEST at some other time.

2.2.5 Completing the Installation Procedure

The following messages indicate that the entire installation procedure is complete:

```
   Installation of NDS V1.0 completed at 20:20

   VMSINSTAL procedure done at 20:20
```

You can now log out of the privileged account:

```
$  LOGOUT
SYSTEM     logged out at 04-APR-1990 20:21:15.03
```

Note that VMSINSTAL deletes or changes entries in the process symbol tables during the installation. Therefore, if you are going to continue using the system manager's account and you want to restore these symbols, you should log out and log in again.

2.3 Error Recovery

If errors occur during the installation itself or when the IVP is running, VMSINSTAL displays failure messages. If the installation fails, you see the following message:

```
%VMSINSTAL-E-INSFAIL, The installation of DECmcc WANdesigner V1.0
                                    has failed.
```

If the IVP fails, you see these messages:

```
The DECmcc WANdesigner V1.0 Installation Verification Procedure failed.

%VMSINSTAL-E-IVPFAIL, The IVP for DECmcc WANdesigner V1.0 has failed.
```

Errors can occur during the installation if any of the following conditions exist:

- The operating system version is incorrect.
- A prerequisite software version is incorrect.

  In this case, the installation will proceed, but will not run IVP.
- The product license has not been registered and loaded.

  In this case, the installation will proceed, but will not run IVP.
- IVP runs, but fails.

For descriptions of the error messages generated by these conditions, see the VMS documentation on system messages, recovery procedures, and VMS software installation. If you are notified that any of these conditions exist, you should take the appropriate action as described in the message. (You might need to change a system parameter or increase an authorized quota value.) For information on installation requirements, see Chapter 1.

3 After Installing WANdesigner

After installing WANdesigner, you need to edit the system startup files.

If you have not already run the Installation Verification Procedure (IVP) as part of installation, instructions to run IVP independently after the software is installed are in Section 2.1.3.

3.1 Editing the System Files

You must edit the system startup files to define the WANdesigner logicals when your system is rebooted.

Add the command line that defines the WANdesigner logicals to the system startup file, SYS$MANAGER:SYSTARTUP_V5.COM. Put this command line with the command lines that execute other product startup files. The following example shows the WANdesigner startup command line:

```
$  @SYS$STARTUP:NDS$STARTUP.COM
```

3.2 Privileges

To use WANdesigner, each account must have at least the TMPMBX and NETMBX privileges. In addition, accounts must have the required privileges and quotas for both DECforms and DEC GKS. Refer to each product's installation guide for this information. Use the VMS Authorize Utility to determine whether users have the privileges they require.

3.3 VAXcluster Considerations

If you are installing WANdesigner on a VAXcluster, you must do the following tasks on each licensed node in the VAXcluster:

- Register your WANdesigner license
- Execute the WANdesigner startup command procedure
- Install DCLTABLES.EXE
- Run the IVP

To register the WANdesigner license on a node, see Section 1.3.

To execute the startup command procedure, log in to a node in the VAXcluster and enter the following command:

```
$ @SYS$STARTUP:NDS$STARTUP.COM
```

To install DCLTABLES.EXE, enter the following commands:

```
$ INSTALL :== $SYS$SYSTEM:INSTALL/COMMAND_MODE
$ INSTALL REPLACE SYS$SHARE:DCLTABLES.EXE/OPEN/SHARE/HEADER
```

To run IVP, see Section 2.1.3.

3.4 Determining and Reporting Problems

If you encounter a problem while using WANdesigner, report it to Digital. Depending on the nature of the problem and the type of support you have, you can take one of the following actions:

- Call Digital if your software contract or warranty agreement entitles you to telephone support.
- Submit a Software Performance Report (SPR).

Review the Software Product Description (SPD) and Warranty Addendum for an explanation of warranty. If you encounter a problem during the warranty period, report the problem as indicated previously or follow alternate instructions provided by Digital for reporting SPD nonconformance problems.

See the online release notes for WANdesigner for information on how to submit an SPR.

A Sample Installation

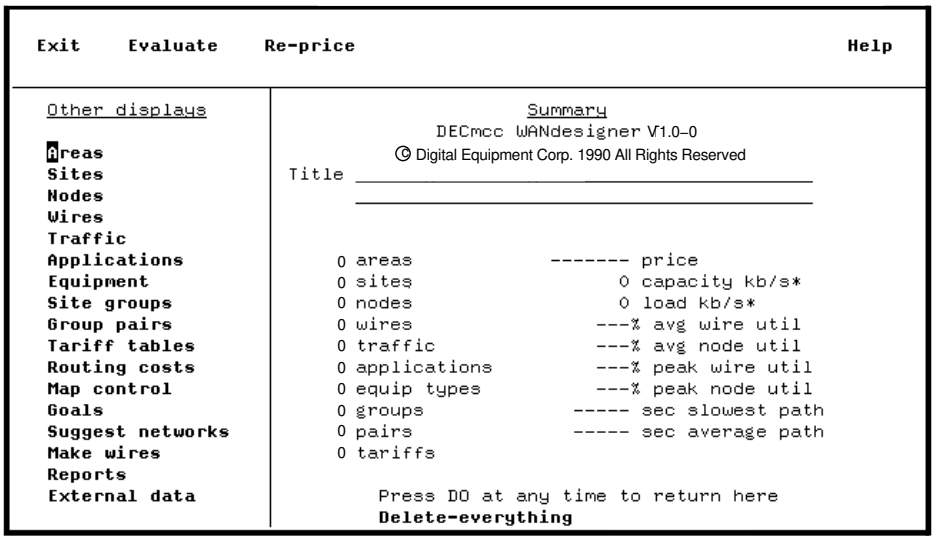
This appendix contains a sample installation of WANdesigner. This sample was run on a system that had no previous version of WANdesigner installed.

The sample installation assumes that DECnet has been shut down, that no users are logged in to your system, and that OPTIONS N is specified to print the release notes. The Installation Verification Procedure (IVP) runs at the end of the installation.

```
$ @sys$update:vmsinstal nds010 "kit location device:directory"

        VAX/VMS Software Product Installation Procedure V5.1


It is NN-XXX-NNNN at NN:NN.
Enter a question mark (?) at any time for help.

* Are you satisfied with the backup of your system disk [YES]? yes


The following products will be processed:

  NDS V1.0


        Beginning installation of NDS V1.0 at NN:NN

%VMSINSTAL-I-RESTORE, Restoring product saveset A ...

    Release Notes Options:

        1.  Display release notes
        2.  Print release notes
        3.  Both 1 and 2
        4.  Copy release notes to SYS$HELP
        5.  Do not display, print or copy release notes

* Select option [2]: 2
* Queue name [SYS$PRINT]:
Job NDS010 (queue XXXXXXXXX, entry NNN) started on XXXXXXXXX
* Do you want to continue the installation? yes
%VMSINSTAL-I-RELMOVED , The product's release notes have been successfully moved
                                to SYS$HELP.
  © Digital Equipment Corporation. 1990. All Rights Reserved.


        Product:      DECMCC-WANDESIGNER
        Producer:     DEC
        Version:      1.0
        Release Date: 27-JUL-1990
```

Sample Installation

```
* Does this product have an authorization key registered and loaded? yes

        This kit contains an Installation Verification Procedure (IVP)
        to verify the correct installation of DECmcc WANdesigner.
        It can be run prior to the conclusion of this
        procedure by answering "YES" to the IVP prompt or invoked
        after the installation as follows:

        @SYS$TEST:NDS$IVP.COM

* Do you want to run the IVP after the installation [YES]? yes
* Do you want to purge files replaced by this installation [YES]? yes

  The remainder of the installation is expected to take between
  2 and 20 minutes.

  No further questions will be asked during this installation.

%VMSINSTAL-I-SYSDIR, This product creates system disk directory
                          VMI$ROOT:[SYSHLP.EXAMPLES.NDS]

        To define the DECmcc WANdesigner system logicals on system boot,
        add the command to execute NDS$STARTUP.COM to the system startup
        command file:  @SYS$STARTUP:NDS$STARTUP.COM

%VMSINSTAL-I-MOVEFILES, Files will now be moved to their target directories...

Starting DECmcc WANdesigner V1.0 Installation Verification Procedure.
```




```
  DECmcc WANdesigner V1.0 IVP completed successfully.

  The DECmcc WANdesigner V1.0 IVP has completed successfully.

        Installation of NDS V1.0 completed at NN:NN

        VMSINSTAL procedure done at NN:NN
```