



**EMC® NetWorker®
Module for Documentum®**

**Release 1.2
Multiplatform Version**

Installation Guide

**P/N 300-004-574
REV A01**

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As part of an effort to improve and enhance the performance and capabilities of its product lines, EMC periodically releases revisions of its hardware and software. Therefore, some functions described in this document may not be supported by all versions of the software or hardware currently in use. For the most up-to-date information on product features, refer to your product release notes.

If a product does not function properly or does not function as described in this document, please contact your EMC representative.

Audience This document is part of the EMC NetWorker Module for Documentum (NMD) documentation set. The guide is intended for use by professional services consultants and the Documentum administrators who are responsible for maintaining the Documentum Content Server and database server backup and restore system. Operators who monitor the Documentum data backups may also find this installation guide useful.

Readers of this document are expected to be familiar with the following topics:

- ◆ Documentum and relevant database terminology and concepts, especially those related to backups and restores
- ◆ Backup and restore procedures on a Documentum Server
- ◆ Disaster recovery procedures on a Documentum Server

Related documentation Documentation related to the use of this product can be found on the EMC website, <http://Powerlink.EMC.com>, including:

- ◆ The NetWorker Module for Documentum release 1.2 documentation set:
 - Administration guide
 - Installation guide
 - Release notes
 - Best practices guide
 - Command reference guide
- ◆ The NetWorker documentation set:
 - Administration guide
 - Installation guide
 - Release notes
 - Command reference guide
 - Disaster recovery guide
- ◆ Appropriate versions of the following documentation sets:
 - NetWorker Module for DB2
 - NetWorker Module for Microsoft SQL Server
 - NetWorker Module for Oracle

- NetWorker Module for Sybase
- NetWorker SnapImage Module
- ◆ Other EMC documentation:
 - *Software Compatibility Guide*
 - UNIX man pages

The following additional documentation may be useful:

- ◆ Documentum Content Server documentation
- ◆ Appropriate database (IBM DB2, Microsoft SQL Server, Oracle, or Sybase) backup and recovery documentation

Conventions used in this document

EMC uses the following conventions for special notices.

Note: A note presents information that is important, but not hazard-related.



CAUTION

A caution contains information essential to avoid data loss or damage to the system or equipment.



IMPORTANT

An important notice contains information essential to operation of the software.

Typographical conventions

EMC uses the following type style conventions in this document:

Normal:	Used in running (nonprocedural) text for: <ul style="list-style-type: none"> • Names of interface elements (such as names of windows, dialog boxes, buttons, fields, and menus) • Names of resources, attributes, pools, Boolean expressions, buttons, DQL statements, keywords, clauses, environment variables, functions, utilities • URLs, pathnames, filenames, directory names, computer names, links, groups, service keys, file systems, notifications
Bold:	Used in running (nonprocedural) text for: <ul style="list-style-type: none"> • Names of commands, daemons, options, programs, processes, services, applications, utilities, kernels, notifications, system call, man pages Used in procedures for: <ul style="list-style-type: none"> • Names of interface elements (such as names of windows, dialog boxes, buttons, fields, and menus) • What user specifically selects, clicks, presses, or types
<i>Italic:</i>	Used in all text (including procedures) for: <ul style="list-style-type: none"> • Full titles of publications referenced in text • Emphasis (for example a new term) • Variables
Courier:	Used for: <ul style="list-style-type: none"> • System output, such as an error message or script • URLs, complete paths, filenames, prompts, and syntax when shown outside of running text
Courier bold:	Used for: <ul style="list-style-type: none"> • Specific user input (such as commands)
<i>Courier italic:</i>	Used in procedures for: <ul style="list-style-type: none"> • Variables on command line • User input variables

< >	Angle brackets enclose parameter or variable values supplied by the user
[]	Square brackets enclose optional values
	Vertical bar indicates alternate selections - the bar means "or"
{ }	Braces indicate content that you must specify (that is, x or y or z)
...	Ellipses indicate nonessential information omitted from the example

Where to get help EMC support, product, and licensing information can be obtained as follows.

Product information — For documentation, release notes, software updates, or for information about EMC products, licensing, and service, go to the EMC Powerlink website (registration required) at:

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Technical support — For technical support, go to EMC Customer Service on Powerlink. To open a service request through Powerlink, you must have a valid support agreement. Please contact your EMC sales representative for details about obtaining a valid support agreement or to answer any questions about your account.

Your comments Comments and suggestions about our product documentation are always welcome.

To provide feedback:

1. Go to:

<http://Powerlink.EMC.com>

2. Click the **Feedback** link.

This installation guide describes how to install and enable the EMC NetWorker Module for EMC Documentum (NMD) release 1.2 on a Documentum Server host with a supported operating system.

Note: The *Software Compatibility Guide* on the EMC Powerlink website at <http://Powerlink.EMC.com> provides details on the specific operating system versions that NMD supports.

The NMD software is distributed in a downloadable file, available from the EMC website.

This chapter includes the following sections:

- ◆ [Revision history](#) 14
- ◆ [Overview of this guide](#) 14
- ◆ [Overview of the NMD software](#) 14

Revision history

The following table presents the revision history of this document.

Revision	Date	Description
A01	September 21, 2007	First release of the product.

Overview of this guide

Use the information in this guide to perform the following:

- ◆ Prepare to install or update the EMC® NetWorker® Module for EMC Documentum® (NMD) software on a Documentum Server host according to the instructions in [Chapter 2, "Preparing to Install."](#)
- ◆ Install the NMD software according to the instructions in the following chapters:
 - [Chapter 3, "Installing on UNIX and Linux"](#)
 - [Chapter 4, "Installing on Microsoft Windows"](#)
- ◆ Enable the NMD software according to the instructions in [Chapter 5, "Licensing and Enabling the Software."](#)
- ◆ Uninstall the NMD software according to the instructions in [Chapter 6, "Uninstalling the Software."](#)

Overview of the NMD software

NMD software is an integrated EMC solution to back up and restore a Documentum system. This solution enforces consistency among the different Documentum components and supports content file restores based on information that is known to the end user.

The software backs up and restores the components of an online Documentum content repository.

Note: The Documentum 5.3.x and 6.x term *repository* is synonymous with the Documentum 5.2.x term *docbase*.

A repository includes all the content and metadata for a Documentum instance, including the following components:

- ◆ Database managed by a third-party database management system (DBMS), such as an Oracle DBMS, IBM DB2 DBMS, Microsoft SQL Server DBMS, or Sybase DBMS
- ◆ Content storage area under the operating system file system
- ◆ Configuration files under the operating system file system
- ◆ Optional full-text index

NMD software supports the following:

- ◆ Both single server and separate database server configurations:
 - The Content Server and database server can be on either the same host or separate hosts.
 - NetWorker client software must be installed on *both* the Content Server host and the separate database server.

Note: NMD software must be installed only on hosts that contain a Content Server or remote storage area.

- If a database NetWorker Module is used, it must be installed on the database server host.

The EMC NetWorker Module for Documentum Administration Guide provides backup script examples that apply to *both* the single server and separate database server configurations.

- ◆ A full-text index server:
 - The Content Server and full-text index server can be on either the same host or separate hosts.
 - NetWorker client software must be installed on *both* the Content Server host and the separate full-text index server.

Note: The use of a full-text index server for multiple repositories is *not* recommended. Also, NMD does *not* support the backup of multinode full-text indexes (where multiple full-text indexer hosts perform the indexing for a single repository).

- ◆ Both local storage area and distributed storage area configurations:
 - With distributed storage areas, the storage areas are on different hosts and the remote storage areas are directly accessible from either the primary Content Server or remote Content Server hosts through local disks, SAN, shared SCSI, NAS, or NFS.

Note: The NetWorker SnapImage™ Module does *not* support remote disks mounted through NAS or NFS.

- NMD supports the Distributed Storage Area with Single-Repository model *only*.
- NMD and NetWorker client software must be installed on *each* Content Server host.
- With both distributed and nondistributed storage areas, NMD backs up the file store type of storage area *only*.

[Chapter 2, "Preparing to Install,"](#) provides information on the software prerequisites for an NMD installation.

The following sources provide details on the NMD software features and functionality, including consistency in repository backups:

- ◆ *EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Administration Guide*
- ◆ *EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Best Practices Guide*

This chapter provides an overview of the NetWorker Module for Documentum (NMD) software installation, and the requirements for success of the NMD installation procedures.

This chapter includes the following sections:

- ◆ [Installation requirements](#) 18
- ◆ [Supported configurations](#) 21

Installation requirements

Before installing the NMD software, review the following requirements:

- ◆ “Operating system requirements” on page 18
- ◆ “Documentum Server requirements” on page 18
- ◆ “NetWorker Module requirements” on page 19
- ◆ “NetWorker SnapImage Module requirements” on page 20
- ◆ “NetWorker client and server requirements” on page 20
- ◆ “Remote server requirements” on page 21
- ◆ “Requirements for updating the NMD software” on page 21

Operating system requirements

Before the NMD software is installed, a supported release of one of the following operating systems must be installed:

- ◆ AIX
- ◆ HP-UX
- ◆ Linux
- ◆ Solaris
- ◆ Windows

The current *Software Compatibility Guide* on the EMC Powerlink® website at <http://Powerlink.EMC.com> provides detailed information on the operating system releases that NMD supports with specific Documentum Server, database, and (optional) NetWorker Module releases.

Documentum Server requirements

Before the NMD software is installed, the Documentum Server release 5.3.x or 6.x software must be installed on one of the supported operating systems listed in “Operating system requirements” on page 18.

- ◆ The Content Server and database may be located on *either* the same host or separate hosts.
- ◆ Content Server and full-text index may be located on *either* the same host or separate hosts.
- ◆ In a distributed storage area configuration (which includes at least one Documentum Distributed Store):
 - The configuration includes one primary Content Server host, and one or more remote Content Server hosts.
 - The storage areas are located on the primary host and one or more remote hosts.
 - Each Content Server (primary or remote) includes a far store list (created during configuration), which lists the storage areas that are remote to the Content Server host.
 - NMD backs up component storage areas of the file store type *only*.
 - Only the Distributed Storage Area with Single-Repository model is supported.

- Both NMD and NetWorker client software must be installed on each Content Server host.
- If the SnapImage Module is to be used for snapshot backups of the storage areas, the SnapImage software must be installed and configured on each host.

Table 1 on page 19 lists the operating systems and databases supported with the supported Documentum Server.

Table 1 Supported operating systems and databases

Operating system	Databases supported with the Documentum Server
AIX	IBM DB2, Oracle
HP-UX	Oracle
Linux	Oracle
Solaris	Oracle, Sybase
Windows	Microsoft SQL Server, Oracle

The current *Software Compatibility Guide* on Powerlink provides details on the operating system releases that NMD supports with specific Documentum Server, database, and (optional) NetWorker Module releases.

If a NetWorker Module is to be used for backups of the database, review the list of supported NetWorker Modules in “[NetWorker Module requirements](#)” on page 19.

NetWorker Module requirements

The NMD software only supports systems and platforms that are supported by the NetWorker Modules listed in [Table 2 on page 19](#). The NetWorker Modules are supported on both Documentum 5.3.x and 6.x.

Table 2 Supported databases and NetWorker Modules

Database	NetWorker Module release
IBM DB2	NetWorker Module for DB2 2.1
Microsoft SQL Server	NetWorker Module for Microsoft SQL Server 4.1
	NetWorker Module for Microsoft SQL Server 5.0
Oracle	NetWorker Module for Oracle 4.2
	NetWorker Module for Oracle 4.5 ^a
Sybase	NetWorker Module for Sybase 2.5
	NetWorker Module for Sybase 3.0 ^a

- a. NMD 1.2 supports NetWorker Module for Oracle 4.5 and NetWorker Module for Sybase 3.0 with the English language only.

The supported NetWorker Modules are included when you purchase the NMD software.

To install a database NetWorker Module, follow the instructions in the corresponding Installation Guide available on Powerlink.

NetWorker SnapImage Module requirements

The NMD software only supports systems and platforms that are supported by the following NetWorker SnapImage Modules:

- ◆ NetWorker SnapImage Module release 1.6.1 (or Celestra 1.6.1) on UNIX
- ◆ NetWorker SnapImage Module release 2.0.2 and NDMP TapeServer release 2.0.2 on Microsoft Windows

The supported NetWorker SnapImage Modules are included when you purchase the NMD software.

The SnapImage Module requires the following NetWorker software to be installed and configured:

- ◆ NetWorker 7.2.x or later client, storage node, and server (with new “DSA FBF/DAR” non-NDMP device support patch)
- ◆ EMC License Manager installed on the NetWorker server host for licensing SnapImage 2.0.2 on Windows
- ◆ The NDMP TapeServer from the NDMP Services package must be installed *before* the SnapImage software.

The read1st.txt file that is included with the NMD software provides information on any required NetWorker and SnapImage software updates.

The *Software Compatibility Guide* on Powerlink provides information on the hardware and VERITAS Volume Manager supported by the SnapImage Module.

The appropriate NetWorker documentation provides information on how to install and configure the required NetWorker and SnapImage software.

If the SnapImage software is to be used for snapshot backups in a distributed storage area configuration, the following software must be installed and configured on *each* storage area host:

- ◆ NetWorker client
- ◆ NMD
- ◆ SnapImage Module

NetWorker client and server requirements

The NMD software only supports systems and platforms that are supported by the following NetWorker software:

- ◆ NetWorker client and server release 7.2 and later *without* the SnapImage Module
- ◆ NetWorker client and server release 7.2.1 and later *with* the SnapImage Module

Note: NetWorker release 7.2 is supported only *without* the SnapImage Module. The following NetWorker Module releases support NetWorker client release 7.4 *only*:

- NetWorker Module for Oracle release 4.5
- NetWorker Module for Sybase release 3.0

The read1st.txt file that is included with the NMD software provides more information on any required NetWorker software updates.

The *EMC NetWorker Installation Guide* provides information on how to install all the required NetWorker client and server software.

Remote server requirements

If the database server is on a separate host from the Content Server, the database server must contain the following software:

- ◆ NetWorker client
- ◆ Appropriate NetWorker Module, if used to perform the database backup

If the full-text index server is on a separate host from the Content Server, the full-text index server must contain the NetWorker client software.

In a distribution storage area configuration, each storage area host must contain the following software:

- ◆ NetWorker client
- ◆ NetWorker SnapImage Module, if used for snapshot backups of the storage areas
- ◆ NMD

The *EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Administration Guide* provides information on setting up backups of a remote host.

Requirements for updating the NMD software

To update from a previous NMD release on UNIX or Linux:

1. Manually uninstall the existing NMD software. [“How to uninstall on UNIX and Linux” on page 50](#) provides details.
2. Install the NMD release 1.2 software. [Chapter 3, “Installing on UNIX and Linux,”](#) provides details.

The NMD 1.2 installation procedure on Windows *automatically* uninstalls a previous NMD release and updates the software.



IMPORTANT

If you configured the NMD parameters in the sample configuration file at its default location, make a copy of the file before the existing NMD software is uninstalled for the update. After the NMD software update is complete, restore the previous configuration file to its original location.

Updating from a previous NMD release does not disturb any existing NMD resource and parameter configurations *unless* they are located in the sample configuration file. After an update, all the previous NMD configuration settings should be intact.

Supported configurations

In each supported single server configuration, the Documentum Server host contains the following software:

- ◆ Documentum Server
- ◆ Database server (IBM DB2, Microsoft SQL Server, Oracle, or Sybase)
- ◆ (Optional) Documentum full-text index server
- ◆ NMD release 1.2
- ◆ NetWorker server, client, or storage node

- ◆ (Optional) NetWorker Module for the database:
 - NetWorker Module for DB2
 - NetWorker Module for Microsoft SQL Server
 - NetWorker Module for Oracle
 - NetWorker Module for Sybase
- ◆ (Optional) NetWorker SnapImage Module
- ◆ (Optional, Windows *only*) NDMP TapeServer

Note: NMD also supports configurations where the database server or full-text index server is located on a separate host. The optional NetWorker Module must be located on the database server host. The *EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Administration Guide* provides more information.

The NetWorker server is installed on the Documentum Server host or a separate computer. If the NetWorker server is on a separate computer, the following software must be installed on the Documentum Server host:

- ◆ NetWorker client software
- ◆ NetWorker storage node software, if the backup device is on the Documentum Server host

The NetWorker Module for the database is optional. It is required *only* if NMD is configured to use the database module to back up the database. As an alternative, the database can be backed up through a user-created script that does *not* use a NetWorker Module.

During an NMD backup, data is backed up to a storage device, which is connected to the NetWorker server host or a separate computer. If the device is connected to a separate computer, then the NetWorker storage node software must be installed on that computer. The NetWorker storage node can also be the same as the Documentum Server (the NetWorker client), with local or SAN-attached devices that provide significantly shorter backup and restore durations.

The NetWorker SnapImage Module (with NDMP TapeServer on Windows only) is required *only* if snapshot backups are configured for the storage areas.

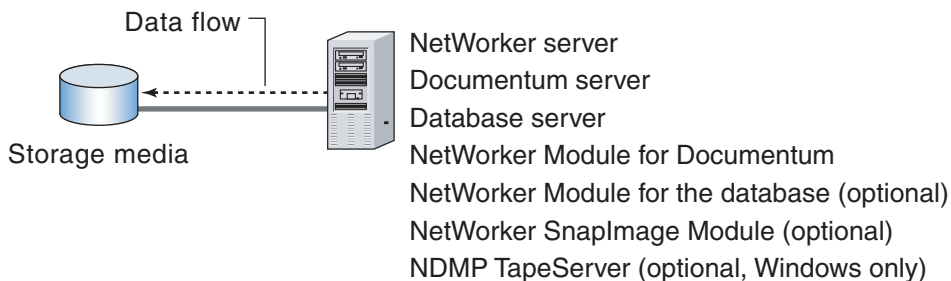
The *EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Administration Guide* provides more information on how to configure the NMD software after installation.

The following sections describe the supported configurations where the Content Server, database server, and full-text index server are all located on the *same* host:

- ◆ [“Local backup configuration” on page 22](#)
- ◆ [“Remote server configuration” on page 23](#)
- ◆ [“Remote storage node configuration” on page 23](#)
- ◆ [“Remote server and storage node configuration” on page 24](#)
- ◆ [“Remote server and local storage node configuration” on page 25](#)

Local backup configuration

In this configuration, all the software components are installed on the Documentum Server host. The backup device is also connected to the same host. [Figure 1 on page 23](#) illustrates this supported configuration.

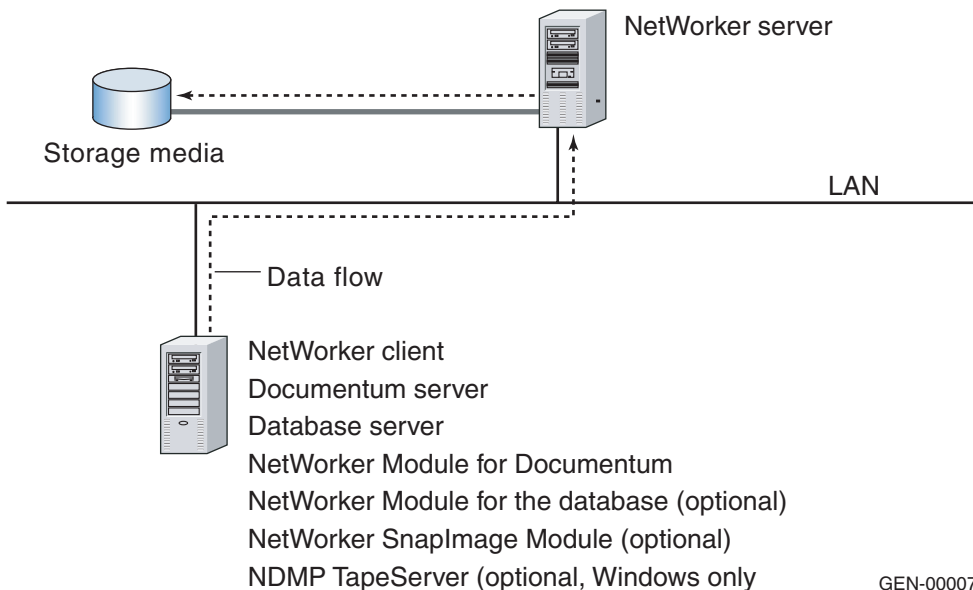


GEN-000070

Figure 1 Local backup configuration

Remote server configuration

In this configuration, the Documentum Server host contains the NetWorker client software. The Documentum data is backed up to a remote NetWorker server, which is connected to the backup device. [Figure 2 on page 23](#) illustrates this supported configuration.



GEN-000071

Figure 2 Remote NetWorker server configuration

Remote storage node configuration

In this configuration, the Documentum Server host contains the NetWorker server software. The Documentum data is backed up to a remote NetWorker storage node, which is connected to the backup device. [Figure 3 on page 24](#) illustrates this supported configuration.

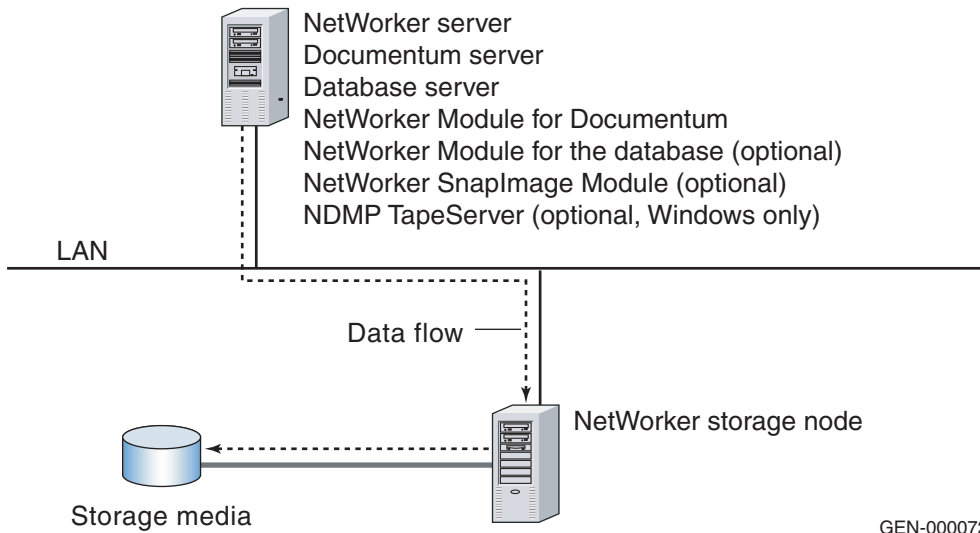


Figure 3 Remote NetWorker storage node configuration

Remote server and storage node configuration

In this configuration, the Documentum Server host contains the NetWorker client software. The NetWorker server is located on a separate computer. The Documentum data is backed up to a remote NetWorker storage node, which is connected to the backup device. [Figure 4 on page 24](#) illustrates this supported configuration.

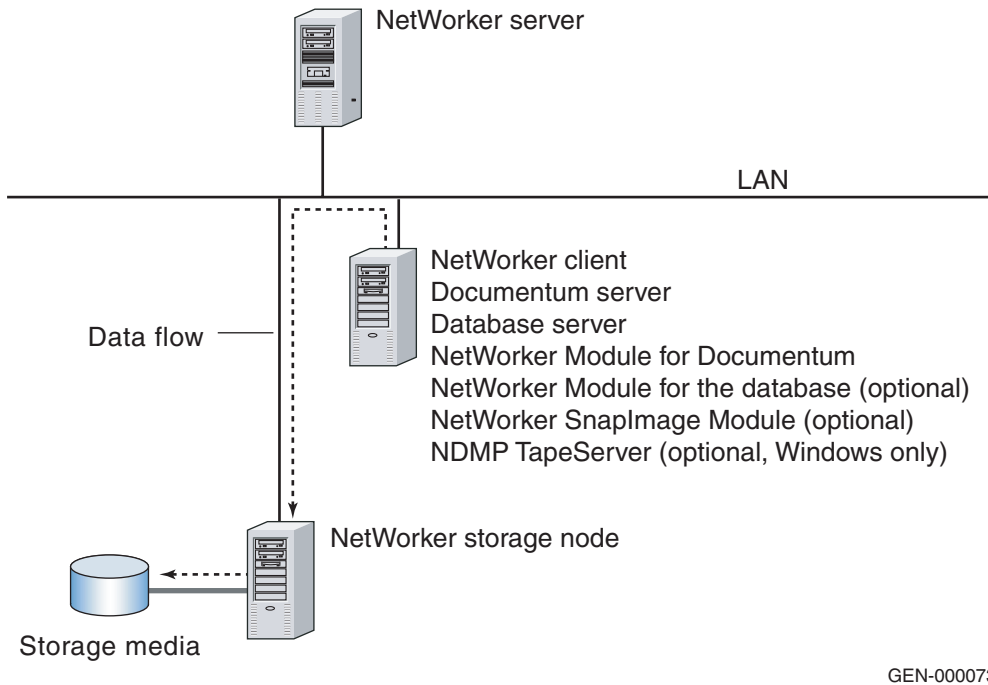
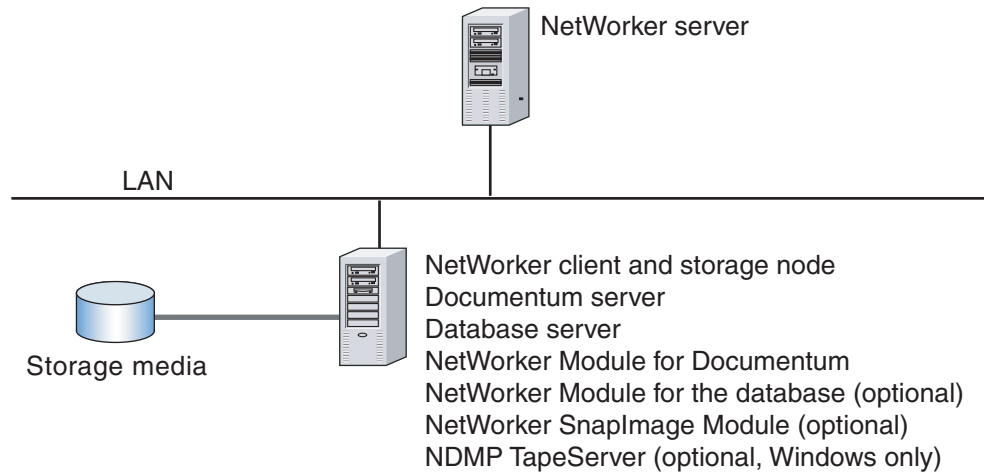


Figure 4 Remote NetWorker server and storage node configuration

Remote server and local storage node configuration

In this configuration, the Documentum Server host contains both the NetWorker client and storage node software. The NetWorker server is located on a separate computer. The backup device is connected to the Documentum Server host. [Figure 5 on page 25](#) illustrates this supported configuration.



GEN-000074

Figure 5 Remote NetWorker server and local storage node configuration

This chapter describes how to install and enable NetWorker Module for Documentum (NMD) on a supported UNIX or Linux operating system.



IMPORTANT

After the installation, if the NetWorker software on the Documentum Server host is updated and the NetWorker client installation directory is changed to a different location, the NMD software must be uninstalled and then reinstalled.

To install and enable the NMD software on UNIX or Linux, perform the following tasks:

- ◆ [Task 1: Access the software](#) 28
- ◆ [Task 2: Install the software](#) 30
- ◆ [Task 3: Enable the software](#) 33

Task 1: Access the software

Access the NMD software files from any of the following sources:

- ◆ “From a local CD-ROM” on page 28
- ◆ “From a remote CD-ROM” on page 28
- ◆ “From the EMC website” on page 29

From a local CD-ROM

To access the software files on a Documentum Server host with a local CD-ROM drive:

1. Log in as root on the Documentum Server host.
2. Insert and mount the NetWorker Module CD-ROM in the CD-ROM drive:


```
mount /dev/cd_drivename /mount_point
```
3. Change to the appropriate directory on the CD-ROM, as shown in [Table 3 on page 28](#).

Table 3 Accessing the correct directory on the local CD-ROM

Operating system	Directory on the local CD-ROM
AIX	<code>/mount_point/documentum/aix</code>
HP-UX	<code>/mount_point/documentum/hpux</code>
Linux	<code>/mount_point/documentum/linux</code>
Solaris	<code>/mount_point/volume_label/documentum/solaris</code>

4. Continue with “[Task 2: Install the software](#)” on page 30.

From a remote CD-ROM

To access the software files from a remote CD-ROM drive:

1. Insert and mount the NetWorker Module CD-ROM in the CD-ROM drive on the remote computer:


```
mount /dev/cd_drivename /mount_point
```
2. Make the mounted CD-ROM exportable through the network file system (NFS).
3. Log in as root on the local Documentum Server host.
4. Create a mount point on the local host. For example:


```
mkdir /tmpmntdir
```
5. NFS-mount the remote CD-ROM onto the local host by using the **mount** command, as shown in [Table 4 on page 29](#).

Table 4 NFS-mounting the remote CD-ROM

Operating system	Command to mount the remote CD-ROM
AIX	<code>mount remote_host:/mount_point/documentum/aix /tmpmntdir</code>
HP-UX	<code>mount remote_host:/mount_point/documentum/hpux /tmpmntdir</code>
Linux	<code>mount remote_host:/mount_point/documentum/linux /tmpmntdir</code>
Solaris	<code>mount remote_host:/mount_point/volume_label/documentum/solaris /tmpmntdir</code>

- Change to the mounted directory:

```
cd /tmpmntdir
```

- Continue with [“Task 2: Install the software” on page 30](#).

From the EMC website

To access the NMD software from the EMC website:

- Log in as root on the Documentum Server host.
- Create a temporary installation directory in a local file system with sufficient free disk space (10 MB) to contain and extract the downloaded software. The directory must have space for *both* the compressed download file and the uncompressed and untarred files. For example, create the following directory:

```
mkdir /usr/nsr_extract_nmd
```

- Go to <http://Powerlink.EMC.com>.
- Select **Support > Software Downloads and Licensing > Downloads D-R > NetWorker Module**.
- In the table of NetWorker Module Software Downloads, click the **NetWorker Module for Documentum Version 1.2** for the particular UNIX or Linux platform.
- Download the NMD software file to the temporary directory you created, for example, /usr/nsr_extract_nmd.
- Uncompress the downloaded file. For example:

```
gunzip filename.tar.gz
```

- Extract the software from the uncompressed, tarred file:

```
tar xvpBf filename.tar
```

The distribution software files are listed as the extraction proceeds.

- Remain in the installation directory created in [Step 2](#), for example, /usr/nsr_extract_nmd.
- Continue with [“Task 2: Install the software” on page 30](#).

Task 2: Install the software

Once you have accessed the software files, you are ready to begin the installation.

To install the software on the UNIX or Linux system:

1. Ensure that all the installation requirements have been met, as described in [“Installation requirements” on page 18](#).
2. Ensure that you are logged in as root on the Documentum Server host.
3. Ensure that you are in the correct directory, as described in [“Task 1: Access the software” on page 28](#).

Notes:

- If the installation is *not* started from the correct directory, the installation might fail.
 - The Documentum Server processes and database do *not* need to be shut down during the installation.
4. Install the software by using the instructions in the appropriate section:
 - [“How to install on AIX” on page 30](#)
 - [“How to install on HP-UX” on page 31](#)
 - [“How to install on Linux” on page 32](#)
 - [“How to install on Solaris” on page 32](#)
 5. If the MANPATH environment variable does not include the pathname of the directory containing the NMD man pages, modify the variable to include the correct pathname. This enables access to the man pages with the **man** command.

The NMD man pages are installed in the same location as NetWorker client man pages. For example, with the man pages in the default directory on Solaris, ensure that the MANPATH environment variable includes the /usr/man pathname.

How to install on AIX

To install NMD release 1.2 on AIX, invoke either the **installp** command line interface or the **System Management Interface Tool (SMIT)** at the shell prompt.

By using installp

To install NMD with the **installp** command line interface:

1. Invoke the command line interface by entering the following command:

```
installp -a -d /dir_pathname LGTONmd.rte
```

where */dir_pathname* is the complete pathname of the directory containing the **LGTONmd.rte** package.

2. To verify that the installation was successful, enter the following command:

```
lslpp -L all | grep -i lgtonmd
```

If the **lslpp** command output includes **LGTONmd.rte 1.2**, then the installation was successful.

By using SMIT

To install NMD with the **SMIT** program:

1. Start the **SMIT** program by entering the following command:
`smit`
2. In the **System Management** list of the main window, select **Software Installation and Maintenance**.
3. In the **Software Installation and Maintenance** list, select **Install and Update Software**.
4. In the **Install and Update Software** list, select **Install and Update from ALL Available Software**.
5. In the **INPUT device/directory for software** field, enter the complete pathname of the directory containing the **LGTONmd.rte** package, and click **OK**.

Note: Do *not* add the **LGTONmd.rte** package name at the end of the directory pathname.

6. In the **Software to Install** field, enter **LGTONmd.rte**, and click **OK**.
7. When prompted to continue, click **OK**.
8. When the installation is complete, click **Done**.

How to install on HP-UX

To install NMD release 1.2 on HP-UX, invoke either the **swinstall** command line interface or the **swinstall** GUI program at the shell prompt.

By using the swinstall command line

To install NMD with the **swinstall** command line interface, enter the following command:

```
swinstall -x mount_all_filesystems=false
-s /dir_pathname/LGTONmd.pkg NMD
```

where */dir_pathname* is the complete pathname of the directory containing the **LGTONmd.pkg** package, as described in [“Task 1: Access the software”](#) on page 28.

By using the swinstall GUI program

To install NMD with the **swinstall** GUI program:

1. Enter the following command:

```
swinstall -x mount_all_filesystems=false -i
-s /dir_pathname/LGTONmd.pkg NMD
```

where */dir_pathname* is the complete pathname of the directory containing the **LGTONmd.pkg** package, as described in [“Task 1: Access the software”](#) on page 28.

2. From the **Actions** menu, select **Install (analysis)**.

When the analysis is complete, a “Ready with Warnings” message appears. This is normal.

3. Click **OK**.

How to install on Linux



IMPORTANT

The software must be installed in the same base directory as the NetWorker client software. The software can be *relocated* during the installation on Linux, but *only* to the same relocation path as the NetWorker client. For example, if the NetWorker client software is installed in the /disk1 (nondefault) directory, NMD must also be installed in the /disk1 directory.

To install NMD release 1.2 on Linux Intel:

1. Enter one of the following **rpm** commands at the shell prompt:

- To install the software in the default directory:

```
rpm -i lgtonmd-1.2-1.i686.rpm
```

- To relocate the software to the same relocation path as the NetWorker client:

```
rpm -i lgtonmd-1.2-1.i686.rpm --relocate  
/usr=NetWorker_base_directory
```

Note: To relocate the software during the installation, enter the **--relocate** option for the /usr directory only, *not* for individual subdirectories.

2. To verify that the installation was successful, enter the following command:

```
rpm -aq | grep -i lgto
```

If the **rpm** command output includes the following lines, the installation was successful:

```
lgtocInt-7.3.2-1  
lgtonmd-1.2-1
```

Note: If NetWorker server software is also installed on the Linux system, the **rpm -aq** command produces other output lines in addition to these two lines.

How to install on Solaris



IMPORTANT

The software must be installed in the same base directory as the NetWorker client software. The software can be *relocated* during the installation on Solaris, but *only* to the same relocation path as the NetWorker client. For example, if the NetWorker client software is installed in the /disk1 (nondefault) directory, NMD must also be installed in the /disk1 directory.

To install NMD release 1.2 on Solaris:

1. If you are updating from a previous NMD release, enter the following command to uninstall the existing NMD software:

```
pkgrm LGTONmd
```

Updating from a previous NMD release does *not* disturb any existing NMD resource and parameter configurations. After an update to NMD 1.2, all the previous NMD configuration settings are intact.

2. Enter the following command to install the NMD software:

```
pkgadd -d /dir_pathname LGTONmd
```

where */dir_pathname* is the complete pathname of the directory containing the **LGTONmd** package.

Note: If the installation program detects *no* NetWorker client binaries, it displays an error message and exits *without* installing the NMD software.

Task 3: Enable the software

After installation, ensure that the required NetWorker software components are enabled according to the instructions in [Chapter 5, "Licensing and Enabling the Software."](#)

After the NMD software is installed and enabled, it must be properly configured for Documentum data backup and restore operations. The *EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Administration Guide* provides details on the required configuration procedures.

This chapter describes how to install and enable NetWorker Module for Documentum (NMD) on a supported Microsoft Windows operating system.



IMPORTANT

After the installation, if the NetWorker software on the Documentum Server host is updated and the NetWorker client installation directory is changed to a different location, the NMD software must be uninstalled and then reinstalled.

“[Software installation path on Windows](#)” on page 36 describes the convention that is used in this guide to refer to the NetWorker software installation path on Windows.

To install and enable the NMD software on Windows, perform the following tasks:

- ◆ [Software installation path on Windows](#)..... 36
- ◆ [Task 1: Access the software](#)..... 36
- ◆ [Task 2: Install the software](#)..... 37
- ◆ [Task 3: Enable the software](#)..... 38

Software installation path on Windows

This guide refers to the root directory of the NetWorker installation path on Windows by using the variable *NetWorker_install_path*. The actual location represented by this variable depends on when and how the NetWorker software was installed on the Windows platform.

For new installations of NetWorker release 7.x, the default location is *%SystemDrive%\Program Files\Legato\nsr*.

The installation path is not changed during a NetWorker update. For example, an installation of NetWorker release 6.x software that has been updated to release 7.x has the default installation path *%SystemDrive%\Program Files\nsr*.

In NetWorker documentation, references to locations under the installation root use the *NetWorker_install_path* variable in the path statement. For example, the *daemon.log* file is located in the *NetWorker_install_path\logs* directory.

Note: During a NetWorker installation, you can specify a nondefault location. The appropriate *EMC NetWorker Installation Guide* provides more information on NetWorker installation procedures.

Task 1: Access the software

Access the NMD software files from any of the following sources:

- ◆ [“From a local CD-ROM” on page 36](#)
- ◆ [“From a remote CD-ROM” on page 36](#)
- ◆ [“From the EMC website” on page 37](#)

From a local CD-ROM

To access the software files on a Documentum Server host with a local CD-ROM drive:

1. Log in as administrator on the Documentum Server host.
2. Insert the NetWorker Module CD-ROM into the CD-ROM drive.
3. Select the CD-ROM drive in Windows Explorer.
4. Go to the correct directory on the CD-ROM. For example:

```
documentum\win_x86\networkr
```
5. Continue with [“Task 2: Install the software” on page 37](#).

From a remote CD-ROM

To access the software files from a remote CD-ROM drive:

1. Insert the NetWorker Module CD-ROM into the CD-ROM drive on the remote Windows computer.
2. Mount the CD-ROM drive as a shared network volume.

Your Windows documentation provides information on how to mount and share volumes over a network.

3. Log in as administrator on the local Documentum Server host.
4. Map a drive to the shared volume created on the remote computer.



IMPORTANT

The use of other methods to access the shared volume, such as navigating to the volume by using the Network Neighborhood, produces an error message during the software installation.

5. On the mapped drive, go to the correct directory. For example:
documentum\win_x86\networkr
6. Continue with [“Task 2: Install the software” on page 37](#).

From the EMC website

To access the NMD software from the EMC website:

1. Log in as administrator on the Documentum Server host.
2. Create a temporary installation directory in a local file system with sufficient free disk space (6 MB) to contain the downloaded software file. For example:
mkdir C:\instdir
3. Go to <http://Powerlink.EMC.com>.
4. Select **Support > Software Downloads and Licensing > Downloads D-R > NetWorker Module**.
5. In the table of NetWorker Module Software Downloads, click the **NetWorker Module for Documentum Version 1.2** for the particular Windows platform.
6. Download the NMD software file to the temporary directory you created, for example, C:\instdir.
7. Continue with [“Task 2: Install the software” on page 37](#).

Task 2: Install the software

Once you have accessed the software files, you are ready to begin the installation.

To install the software on Windows:

1. Ensure that you are logged in as the Windows system administrator on the Documentum Server host.
2. Ensure that you are in the correct directory, as described in [“Task 1: Access the software” on page 36](#).

Note: If the installation is *not* started from the correct directory, the installation might fail.

3. Run the installation program:
 - If installing from the NetWorker Module CD-ROM, run the **Setup** program.
 - If installing from the web download executable, run the correct program. For example:

```
nmd12_win_x86.exe
```

If you are updating from a previous NMD release, the NMD 1.2 installation program automatically uninstalls the previous release and updates the software. Updating from a previous release does *not* disturb any existing NMD resource and parameter configurations. After an update, all the previous NMD configuration settings are intact.

4. In the **Setup** dialog box, select **Install** to start the installation.

The installation program installs the software binaries in the same directory as the NetWorker client binaries (the *NetWorker_install_path*\bin directory) by default.

Notes:

- “[Software installation path on Windows](#)” on page 36 provides more information on the *NetWorker_install_path* directory.
 - If the installation program detects *no* NetWorker client binaries, it displays an error message and exits *without* installing the NMD software.
5. Verify that the system PATH environment variable includes the NetWorker client installation directory. If required, add the NetWorker client installation directory to the system PATH variable.



IMPORTANT

The NetWorker client directory pathname may include spaces. Do not include any spaces before or after the NetWorker client directory pathname in the system PATH environment variable.

Task 3: Enable the software

After installation, ensure that the required NetWorker software components are enabled according to the instructions in [Chapter 5, “Licensing and Enabling the Software.”](#)

After the NMD software is installed and enabled, it must be properly configured for Documentum data backup and restore operations. The *EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Administration Guide* provides details on the required configuration procedures.

The chapter includes the following sections:

◆ Licenses required with the NMD software	40
◆ How NetWorker software is licensed.....	40
◆ The evaluation process	40
◆ The licensing process	42
◆ Multiplatform licensing.....	46
◆ Managing licenses	48

Licenses required with the NMD software

The NetWorker Module for Documentum (NMD) software does *not* currently require a separate license. However, any NetWorker server, client, or other software that is used with NMD must be licensed. The following software must be licensed, if used:

- ◆ NetWorker server
- ◆ NetWorker client
- ◆ NetWorker storage node
- ◆ NetWorker Module for DB2
- ◆ NetWorker Module for Microsoft SQL Server
- ◆ NetWorker Module for Oracle
- ◆ NetWorker Module for Sybase
- ◆ NetWorker SnapImage Module
- ◆ NetWorker NDMP client

The SnapImage Module has a separate licensing procedure, as described in the *EMC NetWorker Module for Documentum Release 1.2 Multiplatform Version Administration Guide*.

The installation guide for each product provides more information on the license requirements.

How NetWorker software is licensed

NetWorker software and added features, such as modules, are installed in evaluation mode with all of the features enabled. NetWorker software is licensed by the entry of enabler and authorization codes on the server for the NetWorker environment. Without these codes, the software or added features will *not* run beyond the evaluation period.

Each installation of NetWorker server software must be licensed with a base enabler. This enabler “turns on” the software and allows you to use a particular bundle of features, such as a specified number of clients and devices. All licensing occurs on the server. The licenses are entered and stored on the server. The server enforces the licensing.

Base enablers come in different editions, which enable varying degrees of functionality. Add-on enablers allow a broader scope of features.

The steps in this chapter assume that the NetWorker software is installed and that all of the software and hardware requirements are met on the computer that will access the NetWorker Management Console.

The evaluation process

You can evaluate NetWorker software two ways:

- ◆ By evaluating a new installation of the software on a NetWorker server
- ◆ By evaluating NetWorker features on an existing NetWorker installation

Evaluating a new installation

When you first install the NetWorker software, you can evaluate it with all the modules and features for 30 days free without entering any codes.

By the end of the evaluation period, you must purchase, enter, and authorize a base enabler to continue to use the NetWorker software to back up data. The base enabler is the license that enables the edition purchased.

To continue to use some of the modules and features that were available with the evaluation software, you might need to purchase add-on enablers, depending on the edition of the base enabler.

Evaluating features on an existing installation

If you are evaluating one or more NetWorker Modules or features on an edition of NetWorker software that has already been installed and enabled, enter a temporary enabler for each module or feature. The temporary enabler is valid for 45 days.

To obtain a temporary enabler code, do one of the following:

- ◆ Go to the <http://Powerlink.EMC.com> website, select **Support > Software Downloads and Licensing**, and then follow the instructions for your product.
- ◆ Refer to the EMC Information Protection Media Kit.

“The licensing process” on page 42 provides important information on the temporary enabler code for NetWorker Module for Oracle (NMO) on UNIX.

By the end of the evaluation period, you must purchase, install, and authorize the corresponding license enablers to continue to use modules or features you have evaluated.

- ◆ “The licensing process” on page 42 provides instructions.
- ◆ “Multiplatform licensing” on page 46 provides information on the different NetWorker features.

Entering a temporary enabler code



CAUTION

The temporary enabler code is valid on only one computer in a network. If you enter the same code on more than one computer in a network, a copy protection violation error occurs and the NetWorker server software is disabled on all NetWorker servers with duplicate enablers.

NetWorker server release 7.2.x or earlier

To enter the temporary enabler code:

On UNIX

1. Log in as root or as NetWorker administrator on the NetWorker server.
2. Start the **NetWorker Administrator** program:


```
nwadmin &
```
3. From the **Server** menu, select **Registration**.

The **Registration** window opens.

4. Click **Create**.
5. In the **Enabler Code** attribute, enter the enabler code.
6. (Optional) In the **Comment** attribute, enter a description of the license.
7. Click **Apply**.

On Windows

1. Log in with administrator privileges to the NetWorker server.
2. Start the **NetWorker Administrator** program.
3. On the **Configure** tab, click **Registration**.
The **Registration** window opens.
4. Right-click **Registration** and select **Create**.
5. In the **Create Registration** window, enter the enabler code in the **Enabler Code** attribute.
6. (Optional) In the **Comment** attribute, enter a description of the license.
7. Click **OK**.

NetWorker server release 7.3 or later

To enter the temporary enabler code:

1. Start the **NetWorker Management Console** software.
2. Open the **Administration** window:
 - a. In the **Console** window, click **Enterprise**.
 - b. In the left pane, select a NetWorker server in the **Enterprise** list.
 - c. In the right pane, select the application.
 - d. From the **Enterprise** menu, click **Launch Application**.
The **Administration** window is launched as a separate application.
3. From the **Administration** window, click **Configuration**.
4. In the left pane, select **Registrations**.
5. From the **File** menu, select **New**.
6. In the **Enabler Code** attribute, type the enabler code.
7. In the **Name** attribute, type the name of the license.
8. (Optional) In the **Comment** attribute, type a description of the license.
9. Click **OK**.

The licensing process

To permanently use NetWorker software, you must purchase and enter a license enabler code, and then authorize it. This licensing process is the same for all editions of NetWorker software as well as for individual modules and features.

The license enabler code that you purchase is valid for 45 days, as a registration period. During the registration period, you must obtain and enter a corresponding authorization code.

The following sections explain how to enter and authorize the license enabler:

- ◆ “Task 1: Enter the license enabler code” on page 43
- ◆ “Task 2: Obtain an authorization code” on page 44
- ◆ “Task 3: Enter the authorization code” on page 45

Task 1: Enter the license enabler code

Note: To save time when entering multiple licenses, enter the base enabler last. Otherwise, once a base enabler is entered, devices that do not yet have licenses entered could become disabled. Those devices have to be reenabled manually after their licenses are installed.

NetWorker server release 7.2.x or earlier

To enter the license enabler code:

On UNIX

1. Log in as root or as NetWorker administrator on the NetWorker server.
2. Start the **NetWorker Administrator** program:

```
nwadmin &
```

3. From the **Server** menu, select **Registration**.

The **Registration** window opens.

4. If the **Registration** list displays a temporary enabler for the product or feature being licensed, select the enabler and click **Delete**.
5. In the **Registration** window, click **Create**.
6. In the **Enabler Code** attribute, enter the enabler code.
7. (Optional) In the **Comment** attribute, enter a description of the license.
8. Click **Apply**.

Repeat [Step 1](#) to [Step 8](#) to add any additional enabler codes.

On Windows

1. Log in with administrator privileges to the NetWorker server.
 2. Start the **NetWorker Administrator** program.
 3. On the **Configure** tab, click **Registration**.
- The **Registration** window opens.
4. If a temporary enabler is listed, right-click the enabler and select **Delete**.
 5. In the **Registration** window, right-click **Registration** and select **Create**.
 6. In the **Create Registration** window, enter the enabler code in the **Enabler Code** attribute.
 7. (Optional) In the **Comment** attribute, enter a description of the license.
 8. Click **OK**.

Repeat [Step 1](#) to [Step 8](#) to add any additional enabler codes.

After you enter a license enabler code, you have 45 days as a registration period to authorize the NetWorker software.

NetWorker server release 7.3 or later

To enter the license enabler code:

1. Start the **NetWorker Management Console** software.
2. Open the **Administration** window:
 - a. In the **Console** window, click **Enterprise**.
 - b. In the left pane, click a NetWorker server in the **Enterprise** list.
 - c. In the right pane, click the application.
 - d. From the **Enterprise** menu, select **Launch Application**.

The **Administration** window is launched as a separate application.

3. In the **Administration** window, click **Configuration**.
4. In the left pane, select **Registrations**.
5. From the **File** menu, select **New**.

The **Create Registration** dialog box appears.
6. In the **Enabler Code** attribute, type the enabler code.
7. In the **Name** attribute, type the name of the license.
8. (Optional) In the **Comment** attribute, type a description of the license.
9. Click **OK**.

The new license is added and appears in the right pane. Repeat [Step 1](#) to [Step 9](#) to add any additional enabler codes.

After you type a license enabler code, you have 45 days as a registration period to authorize the NetWorker software.

Task 2: Obtain an authorization code

Registration of NetWorker software occurs by obtaining an authorization code.

To obtain a unique authorization code:

1. Go to the <http://Powerlink.EMC.com> website.
2. Select **Support > Software Downloads and Licensing** and follow the instructions for your product.



IMPORTANT

If the software or feature is *not* authorized by the end of the 45-day registration period, the NetWorker backup function or feature is disabled. However, data that was backed up during the registration period can still be recovered from local devices.

Task 3: Enter the authorization code

To complete the licensing process, you must enter the unique authorization code on the NetWorker server within 45 days of entering the license enabler code.

If the authorization process is successful, the expiration date for the license displays “Authorized - No expiration date.” If the authorization is not verified in this way, contact the Powerlink website (<http://Powerlink.EMC.com>).

To avoid an interruption in scheduled backups if you move the NetWorker software from one computer to another, or to change the network address of a computer after the software is installed, perform one of the following:

- ◆ Obtain a new authorization code. You need the host ID of the original server as well as the new server. The host ID appears in the server’s Registration window.
- ◆ Install and configure the NetWorker License Manager software. “[Managing licenses](#)” on page 48 provides information on use of the NetWorker License Manager, and the latest *EMC NetWorker License Manager Installation and Administration Guide*.

NetWorker server release 7.2.x or earlier

To enter the authorization code:

On UNIX

1. Log in as root or as NetWorker administrator on the NetWorker server.
2. Start the **NetWorker Administrator** program:

```
nwadmin &
```

3. From the **Server** menu, select **Registration**.

The **Registration** window opens.

4. Select the appropriate license.
5. In the **Auth Code** field, enter the authorization code.
6. Click **Apply**.

On Windows

1. Log in with administrator privileges to the NetWorker server.
2. Start the **NetWorker Administrator** program.

3. On the **Configure** tab, click **Registration**.

The **Registration** window opens.

4. Right-click the appropriate license and select **Edit**.
5. In the **Auth Code** field, enter the authorization code.
6. Click **OK**.

The license is now permanently enabled.

NetWorker server release 7.3 or later

To enter the authorization code:

1. Start the **NetWorker Management Console** software.
2. Open the **Administration** window:
 - a. In the **Console** window, click **Enterprise**.
 - b. In the left pane, select a NetWorker server in the **Enterprise** list.
 - c. In the right pane, click the application.
 - d. From the **Enterprise** menu, select **Launch Application**.

The **Administration** window is launched as a separate application.
3. In the **Administration** window, click **Configuration**.
4. In the left pane, select **Registrations**.
5. In the right pane, select a license.
6. From the **File** menu, select **Properties**.
7. In the **Auth Code** attribute, type the authorization code for the product. The authorization code is the code assigned to the specified permanent enabler or update enabler code.
8. Click **OK**.

The license is now permanently enabled.

Multiplatform licensing

The client connections that come with a NetWorker server can be used for only that server platform. A NetWorker ClientPak[®] license allows the NetWorker server to back up clients of different platforms. For example:

- ◆ The client connections that accompany a NetWorker server for Microsoft Windows can be used for Windows client computers only.
- ◆ The client connections that accompany a NetWorker server for Solaris can be used for Solaris clients only.

With a ClientPak for UNIX, other UNIX platforms can be enabled for use with a NetWorker server for Solaris. The ClientPak for UNIX supports all UNIX platforms. The ClientPak for UNIX is sufficient for all UNIX clients (backed up by a UNIX or Windows server).

Note: The NetWorker software treats Linux as a separate operating system. A ClientPak for Linux is necessary to back up Linux clients by either UNIX or Windows servers.

Example 1 Multiplatform licensing scenarios

A company was using a Linux server to back up Solaris, Linux, and Microsoft Windows clients. It needed two ClientPak licenses, one for Solaris and one for Microsoft Windows. The company added HP-UX and AIX clients, which required the addition of a ClientPak license for UNIX.

As the company grew and needed to add a server, it added a Windows 2000 server, which backed up the existing Windows clients and subsequent Windows 2000 clients without requiring a ClientPak. The company assigned the NetWorker server to a

Solaris computer to back up the HP-UX, Solaris, and AIX clients by using a single ClientPak for UNIX.

Update enablers

To update existing NetWorker software to a major release, an update enabler is necessary. Update enablers are required for any major NetWorker software upgrade from release 4.0 and later, including the current NetWorker release. To use the NetWorker License Manager, the NetWorker server must be release 5.0 or later.

With a first-time purchase of NetWorker software, a one-year update agreement may be included. After a year, an update enabler may be acquired with a new update agreement purchase.

[Table 5 on page 47](#) lists the NetWorker releases that require update enablers.

Table 5 NetWorker update enablers

Upgrade from	to 5.0	to 5.5	to 5.5.x	to 5.6	to 5.7	to 6.x	to 7.0	to 7.1	to 7.2	to 7.3	to 7.4
Any release prior to 5.0	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
5.0		yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
5.5			yes	yes (UNIX only)	yes (NT only)	yes	yes	yes	yes	yes	yes
5.5.x				yes (UNIX only)	yes (NT only)	yes	yes	yes	yes	yes	yes
5.6					NA*	yes	yes	yes	yes	yes	yes
5.7						yes	yes	yes	yes	yes	yes
6.0						no	yes	yes	yes	yes	yes
7.0								yes	yes	yes	yes
7.1									yes	yes	yes
7.2										yes	yes
7.3											yes

Note: * Release 5.6 is UNIX only, and release 5.7 is Microsoft Windows only. NT refers to Microsoft Windows NT.

Additional licenses

This section describes a few of the additional licenses that are required to operate some of the NetWorker features.

Client connection licenses

Every computer to be backed up in a NetWorker datazone requires a client connection license, even the NetWorker server. The client connection license may be one of the licenses that is supplied with the base enabler or purchased separately. A cluster client or NDMP data server requires a special type of client connection license.

Storage nodes

Each storage node requires a storage node license, in addition to its client connection license. A dedicated storage node, which allows the storage node to back up only itself, is licensed separately.

NetWorker Application Modules

NetWorker Application Modules are licensed on the basis of one enabler per database type host. For example, to back up the Oracle database on two hosts, two NetWorker Module for Oracle enablers are required, even if the two hosts are backed up by the same server. However, if multiple database instances are running on a NetWorker client host, only one NetWorker Module enabler is required for that one host.

Cluster clients

For each physical node in a cluster, you must purchase a Cluster Client Connection, which takes the place of one standard client connection. The *NetWorker Administration Guide* provides information on how to license computers in a cluster.

NDMP licensing

NDMP licensing requires one NDMP Client Connection per NDMP data server. The NDMP Client Connection is valid for any supported NDMP data server. The NDMP data server does not require a standard client connection.

Managing licenses

The NetWorker License Manager software provides centralized license management, which enables you to maintain all of an enterprise's NetWorker licenses from a single computer. With the NetWorker License Manager, you can move NetWorker software from one computer to another, or change the IP address on an existing NetWorker server without having to reauthorize the software. The NetWorker License Manager can be installed as an option during the NetWorker software installation.

To begin to implement the NetWorker License Manager:

1. Obtain bulk enabler codes. For contact information, go to <http://Powerlink.EMC.com>.
2. Install the NetWorker License Manager software.
3. Configure the NetWorker License Manager software.
4. Configure the NetWorker servers to access the NetWorker License Manager for their licenses.

The latest *EMC NetWorker License Manager Installation and Administration Guide* provides more information on how to install and use the NetWorker License Manager.

This chapter describes how to uninstall NetWorker Module for Documentum (NMD) on a supported UNIX, Linux, or Windows operating system.

Note: To uninstall a previous release of the NMD software, follow the instructions in the appropriate *EMC NetWorker Module for Documentum Installation Guide*.

To uninstall the NMD software, follow the instructions in the appropriate section:

- ◆ [How to uninstall on UNIX and Linux.....](#) 50
- ◆ [How to uninstall on Windows](#) 52

How to uninstall on UNIX and Linux

To uninstall NMD release 1.2 on a UNIX or Linux computer, follow the instructions in the appropriate section:

- ◆ [“How to uninstall on AIX” on page 50](#)
- ◆ [“How to uninstall on HP-UX” on page 51](#)
- ◆ [“How to uninstall on Linux” on page 51](#)
- ◆ [“How to uninstall on Solaris” on page 51](#)

Note: The Documentum Server processes and database do *not* need to be shut down to uninstall the software.

How to uninstall on AIX

To uninstall NMD release 1.2 on AIX, invoke either the **installp** command line interface or the **SMIT** program.

By using installp

To uninstall NMD with the **installp** command line interface:

1. Ensure that no database or repository backups are running.
2. Log in as root on the Documentum Server host.
3. Enter the following at the command line:

```
installp -u LGTOnd.rte
```

By using SMIT

To uninstall NMD with the **SMIT** program:

1. Ensure that no database or repository backups are running.
2. Log in as root on the Documentum Server host.
3. Enter the following at the command line:


```
smit
```
4. In the **System Management** list of the main window, select **Software Installation and Maintenance**.
5. In the **Software Installation and Maintenance** list, select **Software Maintenance and Utilities**.
6. In the **Software Maintenance and Utilities** list, select **Remove Installed Software**.
7. In the **Software Name** field, enter **LGTOnd.rte**, and click **OK**.
8. When prompted to continue, click **OK**.
9. When the uninstall is complete, click **Done**.

How to uninstall on HP-UX

To uninstall NMD release 1.2 on HP-UX, invoke either the **swremove** command line interface or the **swremove** GUI program.

By using the swremove command line

To uninstall NMD with the **swremove** command line interface:

1. Ensure that no database or repository backups are running.
2. Log in as root on the Documentum Server host.
3. Enter the following at the command line:

```
swremove NMD
```

By using the swremove GUI program

To uninstall NMD with the **swremove** GUI program:

1. Ensure that no database or repository backups are running.
2. Log in as root on the Documentum Server host.
3. Enter the following at the command line:

```
swremove -i NMD
```

4. From the **Actions** menu, select **Remove (analysis)**.

When the analysis is complete, a “Ready with Warnings” message appears. This is normal.

5. Click **OK**.
6. To confirm the uninstall, click **Yes**.

How to uninstall on Linux

To uninstall NMD release 1.2 on Linux:

1. Ensure that no database or repository backups are running.
2. Log in as root on the Documentum Server host.
3. Determine the name of the installed NMD 1.2 package by entering the following command:

```
rpm -q -a | grep -i lgto
```

4. Uninstall the NMD software by entering the following command:

```
rpm -e NMD1.2_package_name
```

where *NMD1.2_package_name* is the package name obtained in [Step 3](#).

How to uninstall on Solaris

To uninstall NMD release 1.2 on Solaris:

1. Ensure that no database or repository backups are running.
2. Log in as root on the Documentum Server host.
3. Enter the following at the command line:

```
pkgrm LGTONmd
```

How to uninstall on Windows

To uninstall NMD release 1.2 on Windows:

1. Log in as administrator on the Documentum Server host.
2. Ensure that no database or repository backups are running.
3. In the Windows **Start** menu, select **Settings > Control Panel**.
4. In the **Control Panel** window, double-click **Add/Remove Programs**.
5. In the **Add/Remove Programs** window, select **NetWorker Module for Documentum** and then click **Add/Remove**.
6. In the **Setup** dialog box, select **Remove** to start the uninstall process.