



RELEASE NOTES

**EMC® NetWorker®
Module for Lotus**
Release 3.0.x
Multiplatform Version

Release Notes

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These release notes contain supplemental information about EMC NetWorker Module for Lotus (NML) release 3.0.x. Topics include:

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Revision history

The following table presents the revision history of this document.

Revision	Date	Description
A10	March 30, 2009	Added the following: <ul style="list-style-type: none"> Information on nonsupport of Domino Attachment and Object Service (DAOS) in “New features and changes” on page 4. “Where to find the most recent supported operating system and version information” on page 17
A09	January 9, 2009	Added the following: <ul style="list-style-type: none"> Information that the NML wizard is <i>not</i> supported with NetWorker release 7.5 or later, to these sections: <ul style="list-style-type: none"> “Product description” on page 3 “New features and changes” on page 4 “Remote recovery on Windows fails when a file pathname contains a space (LGTsc23859)” on page 16 Information in “Correct a step in the remote recovery configuration” on page 17.
A08	December 5, 2008	Added “NML backups are not displayed properly on NMC Sessions tab (LGTsc21601, LGTsc21633)” on page 16 .
A07	November 21, 2008	Added “NML wizard is not automatically supported with Sun EBS version of NetWorker (LGTsc19282)” on page 15 .
A06	June 2, 2008	Added the section “Documentation errata” with the subsection “Correct a step in the remote recovery configuration” on page 17 .
A05	April 25, 2008	Added the following: <ul style="list-style-type: none"> Information on support for 64-bit Linux (AMD64/EM64T) to “New features and changes” on page 4 “Domino server may crash when a file or link name contains a wildcard (LGTsc15503)” on page 15
A04	March 6, 2008	Added the following: <ul style="list-style-type: none"> Information on support for IBM Dynamic Logical Partitioning (LPAR) to “New features and changes” on page 4 “Domino server may crash when an incremental backup is interrupted (LGTsc13536)” on page 14
A03	December 21, 2007	Added the following: <ul style="list-style-type: none"> Information on NML 3.0.1 (replaces NML 3.0 on Windows) to “NML release 3.0.1 on Windows” on page 5 Information on bugs fixed in NML 3.0.1 to “Fixed problems” on page 8 Important note to the start of “Known problems and limitations” on page 10 Changed several references from NML release 3.0 to release 3.0.x throughout the Release Notes.
A02	December 19, 2006	Added “Backup of nondatabase files may create aborted save sets (LGTpa94025)” on page 14 .
A01	January 27, 2006	Initial release of this document.

Product description

The NML software is an add-on module for the EMC® NetWorker® software that enables backups and recovery of supported Lotus Domino and Notes databases.

The NML software enables the NetWorker software to work with Lotus Domino server and Notes client software to provide high-performance online and offline data protection for the Lotus databases. Both NetWorker client and NML software must run on the computer that contains the Lotus data.

NML release 3.0.x software provides the following:

- ◆ Backups and restores of Lotus Domino or Notes databases through either of the following:
 - The command-line programs:
 - **nsrnotesv** for backups
 - **nsrnotesrc** for restores
 - On Windows only, the NetWorker User for Lotus graphical user interface program, **nwbml.exe**, which is installed with the NML software
- ◆ Backups and restores of the following:
 - Multiple Domino installations on the same UNIX host
 - Partitioned Domino servers
 - Domino servers in supported cluster environments (both active-active and active-passive modes)
- ◆ Support of both logged and non-logged Lotus databases.
- ◆ Both ad hoc and scheduled backups, where the scheduled backups can be optionally configured through the NML configuration wizard.

Note: The NML configuration wizard is *not* supported with 64-bit Windows or with NetWorker release 7.5 or later. In either of these cases, a scheduled backup must be configured manually according to the instructions in *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Administration Guide*.

- ◆ Both full and incremental level backups.
- ◆ Storage of backup information in the backup catalog file specified by the **NSR_CATALOGFILE** parameter.
- ◆ Backups and restores of files and directories that contain non-ASCII characters when the corresponding localized NetWorker client is installed on the NML client host.

For example, the Chinese version of the NetWorker client must be installed on the NML client to support Chinese characters.

- ◆ Directed recovery of Lotus database files when just the NetWorker User for Lotus program is used.
- ◆ Recovery of Lotus directory and database links.
- ◆ Document-level recovery of deleted Lotus documents in a *local* database through the **nsrdocrc** command-line program. The recovery can be to any point-in-time as long as the database is logged.

- ◆ On Windows only, document-level recovery of selected (modified) and deleted Notes documents in either a *local* Notes or Domino database or a *remote* Domino database, through the Lotus Notes client GUI.
- ◆ Disaster recovery of Lotus Notes client and Domino server computers.

New features and changes

NML release 3.0.x includes the following new or enhanced features. Unless specified otherwise, the *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Administration Guide* provides more details on these features.

Note: NML release 3.0.x does *not* support the following:

- Domino with DB2
- Domino Attachment and Object Service (DAOS)

- ◆ Support for new Lotus Domino, Notes, and NetWorker software releases, as described in the current *EMC Information Protection Software Compatibility Guide* on the EMC Powerlink® website at <http://Powerlink.EMC.com>.
- ◆ Support for 32-bit Lotus Domino running on 64-bit Linux (AMD64/EM64T) with the following requirements and limitations:
 - 64-bit NetWorker software must be installed on the NML host.
 - NML 3.0 software for Linux x86 (32-bit) must be downloaded from the EMC website or installed from the distribution CD.
 - The NML wizard is *not* supported for configuring scheduled backups on 64-bit Linux (AMD64/EM64T).
- ◆ Support for IBM Dynamic Logical Partitioning (LPAR) with multiple LPAR partitions on pSeries AIX operating systems. As a virtualization technology, LPAR virtualizes the AIX operating system and Domino, and maximizes the utilization of given hardware resources. The Domino Release Notes provide more information.

Note: NML must be installed on *each* LPAR partition on pSeries AIX systems.

- ◆ Support for 32-bit Lotus Domino or Lotus Notes running on 64-bit Windows (x64 AMD64/EM64T) through the NML 3.0 service pack 1 release, NML 3.0.1. "[NML release 3.0.1 on Windows](#)" on page 5 provides more information.
- ◆ Support for cluster environments on UNIX and Linux.
- ◆ Support for multiple installations of Domino server on the same UNIX host, whereby different versions of Domino may be installed on the same host.
- ◆ Support for a new NML configuration file containing parameters that specify the configuration settings for both NML backups and recovery.

The configuration file is specified by one of the following:

 - The new **-z** option of the NML backup or recovery command.
 - A new field in the Backup Options or Recover Options dialog box of the NetWorker User for Lotus GUI.
- ◆ Improved command-line options for the NML backup and recovery commands.

- ◆ Improved requirements for the user access privileges for NML backups and recovery.
- ◆ Support for the following backup-specific features:
 - An NML configuration wizard that can be used to configure scheduled NML backups, as described in the *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Installation Guide*.

Note: The NML configuration wizard is *not* supported with 64-bit Windows or with NetWorker release 7.5 or later. In either of these cases, a scheduled backup must be configured manually according to the instructions in *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Administration Guide*.

 - Uniform configuration procedures used to set up NML scheduled backups on all supported platforms.
 - 256-bit AES encryption during NML backups, as specified through parameter settings in the NML configuration file.
 - Enhanced identification of NML backup entries in the NetWorker online indexes.
- ◆ Support for the following recovery-specific features:
 - On Windows only, document-level recovery of selected (modified) and deleted Notes documents in a remote Domino database, through the Lotus Notes client GUI.
 - Updated fields in the Lotus Notes GUI for use during document-level recovery operations.
 - Recovery of *both* a linked database or directory and the corresponding link file during the same recovery operation.
 - Document-level recovery from a linked database when the link name only is specified.
- ◆ Improved error logging, including descriptive error messages and a new debug log file.
- ◆ Support for backups and restores of files and directories that contain non-ASCII characters when the corresponding localized NetWorker client is installed on the NML client host.
- ◆ Implementation of key bug fixes and requests for enhancement, as described in [“Fixed problems” on page 8](#).

NML release 3.0.1 on Windows

Note: NML release 3.0 service pack 1 means the same as NML release 3.0.1.

The NML 3.0 service pack 1 release, NML 3.0.1, replaces NML 3.0 on Windows.

- ◆ NML 3.0 supports 32-bit Lotus Domino and Lotus Notes on 32-bit Windows.
- ◆ NML 3.0.1 supports 32-bit Lotus Domino and Lotus Notes on both 32-bit and 64-bit Windows (x64 AMD64/EM64T).

NML 3.0.1 supports the same set of features and the same Domino and NetWorker releases as NML 3.0.

Note: NML 3.0.1 does *not* support the configuration wizard with 64-bit Windows or with NetWorker release 7.5 or later. In either of these cases, a scheduled backup must be configured manually according to the instructions in *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Administration Guide*.

Review the following sections for details on NML release 3.0.1.

Installation requirements

Prior to installation of NML 3.0.1, ensure that the Windows computer meets the following requirements:

- ◆ On 32-bit Windows:
 - The following software is installed:
 - 32-bit Lotus Notes client or Domino server
 - 32-bit NetWorker client
 - If the NML configuration wizard is to be installed, ensure that the wizard requirements are met according to Chapter 3 of the *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Installation Guide*.
- ◆ On 64-bit Windows (AMD64/EM64T), the following software is installed:
 - 32-bit Lotus Notes client or Domino server
 - 64-bit NetWorker client

Note: The NML configuration wizard is *not* supported with 64-bit Windows or with NetWorker release 7.5 or later.

The current *EMC Information Protection Software Compatibility Guide* on the EMC Powerlink website lists the supported operating system, Lotus Domino, Notes, and NetWorker software releases.

Files installed during installation

On 32-bit Windows, the NML 3.0.1 files installed and their locations are the same as described for NML 3.0 in Chapter 3 of the *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Installation Guide*.

On 64-bit Windows (AMD64/EM64T):

- ◆ NML 3.0.1 files are *not* installed in the same directory as the 64-bit NetWorker client files.
- ◆ NML 3.0.1 files are installed in the following directory:
`%SystemDrive%\Program Files (x86)\Legato\nsr\bin`

If the `%SystemDrive%\Program Files (x86)\Legato\nsr` directory does *not* yet exist, the NML installation creates the directory along with the bin and applogs subdirectories.

- ◆ Although the NML client-side component for the configuration wizard, `libnmlcdc.dll`, is installed under `%SystemDrive%\Program Files (x86)\Legato\nsr\bin`, the library is *not* registered with the NetWorker client.

Note: Even if you manually register the wizard library with the NetWorker client, the NML wizard functionality is *not* supported with 64-bit Windows or with NetWorker release 7.5 or later.

- ◆ The additional wizard library file, `libnmlwiz.dll`, is *not* installed during the NML 3.0.1 installation.

On both 32-bit and 64-bit Windows, the NML 3.0.1 GUI is installed under the EMC NetWorker group in the Startup menu, instead of under the Legato NetWorker group.

NML 3.0.1 installation procedures

To install NML 3.0.1, follow the installation procedures in Chapter 3 of the *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Installation Guide*, with the following exceptions:

- ◆ To access the NML 3.0.1 installation files from the EMC website, use the instructions in “[Accessing NML 3.0.1 from the EMC website](#)” on page 7.
- ◆ If you install from a file downloaded from the EMC website, you must run `nml30sp1_win_x86.exe`.
- ◆ When you run the installation program, you are *not* given the Complete and Custom options for installation.

Accessing NML 3.0.1 from the EMC website

To access the *evaluation* version of the NML 3.0.1 software from the EMC website:

1. Log in as administrator or equivalent on the Lotus Notes client or Domino server.
2. Create a temporary installation directory in a local file system with sufficient free disk space (8 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 Lotus Version 3.0.1** for Windows.
6. Download the NML software file to the temporary directory you created, for example, `C:\instdir`.
7. Unzip the downloaded software file.
8. Go to the `networkr` directory that was created.

Additional configuration procedures

To enable scheduled backups with NML 3.0.1 on 64-bit Windows:

1. Add the path `%SystemDrive%\Program Files (x86)\Legato\nsr\bin` to the System user `%PATH%` environment variable.
2. Restart the NetWorker Remote Exec Service (the program `nsrexecd.exe`).

Fixed problems

[Table 1 on page 8](#) provides a list of the major bug fixes implemented in NML release 3.0.1.

[Table 2 on page 9](#) provides a list of the major bug fixes implemented in NML release 3.0.

- ◆ When you contact Customer Service about an issue, use the issue number listed for Customer Service.
- ◆ When you search for an issue in Powerlink, use the issue number listed for Issue Tracker.

Note: The most up-to-date product issues for NML are detailed online in the EMC Issue Tracker available on the EMC Powerlink website: <http://Powerlink.EMC.com>.

Table 1 Fixed bugs in NML release 3.0.1

Issue number for Customer Service	Issue number for Issue Tracker	Product feature	Problem summary
LGTpa88016	88016nml_c	Lotus backup	The sizes of individual save streams were incorrect in the savegroup completion report produced by a scheduled NML backup. However, the total backup size was correct in the report.
LGTpa88104	88104nml_c	Lotus backup	When the system clock of the NetWorker server was faster than the system clock of an NML client machine, automatic clones of the NML save sets failed silently. However, automatic clones of the index save sets succeeded.
LGTpa89397	89397nml	Lotus backup	When the NML backup binary, <code>nsrnotesv</code> , could not read a directory while creating the browselist save set, the backup caused the Domino Server to crash.
LGTpa94025	94025nml_c	Lotus backup	When an NML backup attempted to back up a nondatabase (flat) file that could not be opened for reading, the backup might create aborted save sets that could not be recovered. However, the backup completion report showed that the backup was successful.
LGTsc03369	03369nml_c	Lotus backup	When an NML scheduled backup failed, the savegroup completion report stated that the backup had succeeded.
LGTsc04748	04748nml_c	Lotus backup	When debugging was enabled and parallelism was set to 2 or more, an NML backup might fail and cause the Domino server to crash.
LGTsc04827	04827nml_c	Lotus backup	When <code>NSR_SKIPDBERRORS</code> was set to TRUE, an API error 5113 (noncritical) was not skipped during an NML backup, and the backup failed.
LGTsc04831	04831nml_c	Lotus backup	When one of the NML backup processes failed due to a critical error, other processes continued to back up data. The whole NML backup might be marked as failed at the end.

Table 2 Fixed bugs in NML release 3.0

Issue number for Customer Service	Issue number for Issue Tracker	Product feature	Problem summary
LGTpa36809	36809nml_c	Lotus recovery	Document-level recovery was <i>not</i> supported for databases located on remote Lotus Domino servers.
LGTpa50506	50506nml	Lotus recovery	Lotus data recovery required the "Backup local data" user group privilege.
LGTpa50974	50974nml_c	Lotus backup	Backups of files with German characters failed.
LGTpa53792	53792nml	Lotus backup	A minimum of 64 MB of logged transactions was required before an incremental backup could be performed.
LGTpa72583	72583nml_c	Lotus backup, Lotus recovery	Shared memory segments and semaphores were incorrectly left behind after the completion or termination of a backup or recovery.
LGTpa72865	72865nml_c	Lotus backup, Lotus recovery	Configuration of a list of files (to save or recover) that could be used for more than one backup or recovery was <i>not</i> supported. The required filenames had to be specified on the command line with each backup and recovery command.
LGTpa72961	72961nml_c	Lotus backup	Backups failed with the LGTpa66441 patch and the -A option when a nondatabase file could not be opened for backup.
LGTpa74574	74574nml_c	Lotus backup	Backups caused termination of the Domino server when the shortcut feature of EmailXtender [®] was enabled.
LGTpa75521	75521nml_c	Lotus backup	In a Microsoft cluster, a physical node incorrectly used the NML license during a virtual node backup.
LGTpa79084	79084nml	Lotus recovery	When Lotus Notes links were recovered, the files pointed to by the links were <i>not</i> automatically recovered.
LGTpa79770	79770nml	Lotus recovery	The nsrnotesrc -L option for prefetching transaction logs during recovery was <i>not</i> supported on UNIX and Linux.
LGTpa81498	81498nml_c	Lotus backup	Backups failed with the LGTpa74574 patch installed on a partitioned Domino server, and a library initialization error was displayed.

Environment and system requirements

Details on the versions of operating systems, Lotus Domino and Notes software, and NetWorker software that NML release 3.0.x supports are available in the current *EMC Information Protection Software Compatibility Guide* on the EMC Powerlink website at <http://Powerlink.EMC.com>.

Details on the environment and system configurations required to operate the NML 3.0.x software are available in the *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Administration Guide*.

Known problems and limitations



IMPORTANT

Table 1 on page 8 describes known problems that are fixed in NML 3.0.1.

If you encounter any of those problems in NML 3.0, perform *one* of the following:

- If your operating system is Windows, upgrade to NML 3.0.1.
- If your operating system is *not* Windows, contact your EMC Customer Support Representative for the required hotfix.

The following sections describe the known limitations and workarounds for NML release 3.0.x:

- ◆ “Zero byte databases are skipped during backups” on page 11
- ◆ “Recovery fails to apply transaction logs (LGTpa22627)” on page 11
- ◆ “Backup and recovery of a Domino server fails with a secured console (LGTpa48238)” on page 11
- ◆ “Recovery fails with Domino 6.0.1, 6.0.3, and 6.5 databases (LGTpa48533, LGTpa59807)” on page 11
- ◆ “Limitations exist with using the NetWorker User for Lotus GUI for remote recovery (LGTpa50352)” on page 12
- ◆ “Limitations exist with recovery of a logged SCOS (LGTpa53861)” on page 12
- ◆ “NML configuration wizard on Linux displays incorrect client version (LGTpa80340)” on page 13
- ◆ “Child processes waiting for volumes are not terminated when an NML backup is cancelled (LGTpa82144)” on page 13
- ◆ “NML 2.2.x configuration method fails for scheduled backups of files and directories on UNIX and Linux (LGTpa83850)” on page 13
- ◆ “Debug level 9 may cause the Domino server to crash during a backup or recovery (LGTpa84477)” on page 14
- ◆ “Vague error appears for a document-level recovery failure (LGTpa84482)” on page 14
- ◆ “Backup of nondatabase files may create aborted save sets (LGTpa94025)” on page 14
- ◆ “Domino server may crash when an incremental backup is interrupted (LGTsc13536)” on page 14
- ◆ “Domino server may crash when a file or link name contains a wildcard (LGTsc15503)” on page 15
- ◆ “NML wizard is not automatically supported with Sun EBS version of NetWorker (LGTsc19282)” on page 15
- ◆ “NML backups are not displayed properly on NMC Sessions tab (LGTsc21601, LGTsc21633)” on page 16
- ◆ “Remote recovery on Windows fails when a file pathname contains a space (LGTsc23859)” on page 16

Zero byte databases are skipped during backups

The NML software cannot back up zero byte database files. If a zero byte database file is encountered during a backup, the file is skipped and a message appears in the backup log.

Recovery fails to apply transaction logs (LGTpa22627)

The following problem occurs only if the log.nsf file in the Notes data directory is missing or corrupt.

When you use the NOTES option to recover all database files to the Notes default data directory, transaction logs are *not* applied to the recovered database files.

As a workaround, recover the database files to an alternate directory and copy the files back to the Notes default data directory.

Backup and recovery of a Domino server fails with a secured console (LGTpa48238)

If a Domino server is configured with a secured (password-protected) console, the NML software cannot back up or recover the Lotus databases.

Under these conditions, backups and recoveries fail and report the following error:

```
Notes Library initialization failed, error = 417
```

For backups and recoveries to succeed, you must remove the password protection for the Domino server console by using the Domino Administrator program or the **Set Secure** command. The Domino Administrator online help provides instructions on removing password protection.

Recovery fails with Domino 6.0.1, 6.0.3, and 6.5 databases (LGTpa48533, LGTpa59807)

During recovery of Domino 6.0.1, 6.0.3, or 6.5 databases where a large amount of data (several MB) is continuously applied to the same database from the transaction logs, the recovery process may fail at the media recovery stage. This can cause the recovery to stop and result in severe problems on the Domino server.

To work around the problem, shut down the Domino server before performing the recovery.

To resolve the problem, apply the required fixes obtained from IBM support:

- ◆ For Domino 6.0.1:
 1. Apply Critical Fixpack 1 for 6.0.1.
 2. Apply the following hot fix:
 - SPR # PROE5JWUN2: Recovery of a database can crash Domino server
- ◆ For Domino 6.0.3 or 6.5, apply the following hot fix:
 - SPR # JCHN5QVL3E: Fixed a potential crash that was seen when replaying transaction logs during a restore

Limitations exist with using the NetWorker User for Lotus GUI for remote recovery (LGTpa50352)

The following limitations exist with using the NetWorker User for Lotus GUI for NML 3.0.x remote recovery:

- ◆ A remote recovery fails if too many databases are selected for recovery, whereby the total length of the paths of the selected files exceeds the operating system size limit for a command-line argument list. The remote recovery failure might produce one of the following errors:

```
Failed to start nsrexec for remote recover
```

```
The following character string is too long
```

As a workaround, reduce the number of databases selected for remote recovery.

- ◆ The termination of a remote recovery of a Domino server on Windows does *not* stop the **nsrnotesrc** process on the remote Windows computer.

As a workaround, stop the **nsrnotesrc** process manually if the process does not stop long after the remote recovery terminated.

- ◆ The remote recovery of databases with filenames containing non-ASCII characters might fail. The non-ASCII characters are not displayed properly in the NetWorker User for Lotus GUI.

As a workaround, recover the databases locally on the Domino server computer.

Limitations exist with recovery of a logged SCOS (LGTpa53861)

Domino servers can be configured to store messages addressed to more than one user on a mail server in a central database. In Domino R6, this feature is called a Single Copy Object Store (SCOS).

- ◆ Multiple SCOS databases online are supported.
- ◆ The implementation method is through Lotus directory links.
- ◆ Lotus transactional logging is supported.

Recovery of a logged SCOS

If transactional logging is enabled on the Domino server, you *must* recover the SCOS database to a new location first, even if the original database has been deleted. Otherwise, the following Notes API error 553 message appears:

```
Database is currently in use by you or another user and the
transaction logs are not applied to the recovered database.
```

To work around this problem:

1. Recover the SCOS database to another location by using the **-d** option with the **nsrnotesrc** command.
2. Shut down the Domino server, and copy the recovered SCOS database to its original location.
3. Repeat steps 1 and 2 for each SCOS database to recover.
4. Restart the Domino server and bring the SCOS databases online.

Disaster recovery of a logged SCOS

If you are using an SCOS with transactional logging enabled in Archive mode, you must first recover the server ID file before recovering any Lotus databases.

The server ID file is required to apply the transaction logs to the recovered SCOS database.

The following example shows how to recover the server ID file (on Windows):

```
nsrnotesrc -s server -N C:\Lotus\Domino\Data\server.id
```

NML configuration wizard on Linux displays incorrect client version (LGTpa80340)

On Linux only, the configuration summary screen of the NML configuration wizard displays the NetWorker client version as <unknown>, instead of displaying the correct version number.

Child processes waiting for volumes are not terminated when an NML backup is cancelled (LGTpa82144)

If a manual or scheduled NML backup is cancelled while NML child processes are waiting for writable volumes on the NetWorker server, the child processes might not be terminated.

To terminate the child processes, make available the writable volumes on the NetWorker server, as requested by the NML backup. When the volumes become available, the NML backup resumes and immediately fails, and the processes are then terminated.

NML 2.2.x configuration method fails for scheduled backups of files and directories on UNIX and Linux (LGTpa83850)

The NML 3.0 software does *not* support the NML 2.2.x configuration method for scheduled backups of specific files and directories on UNIX and Linux. If you use the **myArgs** option in the **nsrnote** script to specify files and directories for backup, the NML 3.0 scheduled backup *fails*.

With NML 3.0, use the **NSR_BACKUP_PATHS** parameter in the configuration file to specify individual files and directories for scheduled backups on UNIX and Linux. The *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Administration Guide* provides details on NML 3.0 configuration procedures.

Note: The **myArgs = -R** option is still supported in the **nsrnote** script for scheduled NML 3.0 backups on UNIX and Linux.

Debug level 9 may cause the Domino server to crash during a backup or recovery (LGTpa84477)

If the NSR_DEBUG_LEVEL parameter is set to the value 9, the Domino server may crash during an NML backup or recovery of multiple databases.

As a workaround, set the NSR_DEBUG_LEVEL parameter to a value of 0 to 8 *only*, as described in the *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Administration Guide*.

Vague error appears for a document-level recovery failure (LGTpa84482)

A vague error appears when a document-level recovery fails due to the following:

- ◆ The encryption phrase on the NetWorker server has changed since the time of a database backup.
- ◆ A document-level recovery of a document from the database backup is attempted *without* specifying the current encryption phrase in the Notes client program.

In this case, an error message box appears containing only the word Error. The message does *not* specify the reason for the document-level recovery failure.

Backup of nondatabase files may create aborted save sets (LGTpa94025)

When NML 3.0 software attempts to back up a nondatabase (flat) file that cannot be opened for reading, the ad hoc or scheduled backup may create aborted save sets that cannot be recovered. However, the backup completion report shows that the backup was successful.

As a workaround in NML 3.0, apply the software fix from the following site:

ftp://ftp.legato.com/pub/NetWorker/Updates/NML/30_Patches

With this fix, the NML 3.0 software skips the backup of nondatabase files that cannot be opened (does *not* create aborted save sets), and continues the backup of other files. The README file, available with the fix, provides the following:

- ◆ Information on how to identify if you have encountered the problem.
- ◆ Information on how to apply the fix.

The Support Solution esg80583, available through the EMC Powerlink website at <http://Powerlink.EMC.com>, provides additional information.

Domino server may crash when an incremental backup is interrupted (LGTsc13536)

When an incremental NML backup is interrupted or canceled, the Domino server may crash.

If you experience this problem, contact your EMC Customer Support Representative.

Domino server may crash when a file or link name contains a wildcard (LGtsc15503)

When a Lotus database filename or symbolic link name in an NML backup contains a wildcard character supported by NML (for example, ? or *), the backup might cause the Domino server to crash.

If you experience this problem, contact your EMC Customer Support Representative.

NML wizard is not automatically supported with Sun EBS version of NetWorker (LGtsc19282)

With the Sun StorageTek Enterprise Backup Software (EBS) version of NetWorker 7.3.x or later:

- ◆ NML wizard libraries are *not* automatically registered during the NML 3.0.x install process.
- ◆ NML wizard libraries are *not* automatically unregistered during the NML 3.0.x uninstall process.

As a result, the NML 3.0.x wizard on the Sun EBS host cannot be used to configure NML scheduled backups.

As a workaround, register and unregister the NML wizard libraries *manually* by running the **nsrwizreg** command after the NML 3.0.x install or uninstall is complete.

Note: If Sun EBS software has been installed in a *nondefault* directory, the correct pathnames to use with the **nsrwizreg** command might differ from the following pathnames.

- ◆ To register the wizard library files manually:
 - To register the libnml32.so library in /nsr/res/nsrwizclnt.res after the install of the LGTONml package, enter this command on the NML client computer:


```
# /usr/sbin/nsr/nsrwizreg -a -t NML -n "NetWorker Module for Lotus" -p /usr/lib/nsr/libnml32.so -v 3.0 -f nsrwizclnt.res
```
 - To register the libnmlwiz.so library in /nsr/res/nsrwizcon.res after the install of the LGTONmlwz package, enter this command on the wizard computer:


```
# /usr/sbin/nsr/nsrwizreg -a -t NML -n "NetWorker Module for Lotus" -p /usr/lib/nsr/libnmlwiz.so -v 3.0 -f nsrwizcon.res
```
- ◆ To unregister the wizard library files manually:
 - To unregister the libnml32.so library in /nsr/res/nsrwizclnt.res after the uninstall of the LGTONml package, enter this command on the NML client computer:


```
# /usr/sbin/nsr/nsrwizreg -r -t NML -p /usr/lib/nsr/libnml32.so -v 3.0 -f nsrwizclnt.res
```
 - To unregister the libnmlwiz.so library in /nsr/res/nsrwizcon.res after the uninstall of the LGTONmlwz package, enter this command on the wizard computer:


```
# /usr/sbin/nsr/nsrwizreg -r -t NML -p /usr/lib/nsr/libnmlwiz.so -v 3.0 -f nsrwizcon.res
```

The following sources provide more details on the **nsrwizreg** command:

- ◆ The **nsrwizreg** entry in the *NetWorker Command Reference Guide*
- ◆ The **nsrwizreg** man page

NML backups are not displayed properly on NMC Sessions tab (LGTsc21601, LGTsc21633)

The Sessions tab of the Monitoring window in the NetWorker Management Console (NMC) does *not* properly display the following:

- ◆ Save sessions of an NML scheduled backup (LGTsc21601)
- ◆ Save sessions of an NML manual backup (LGTsc21633)

The Sessions tab should list all of the save sessions during an NML backup.

If you experience either of these problems, contact your EMC Customer Support Representative.

Remote recovery on Windows fails when a file pathname contains a space (LGTsc23859)

With NML 3.0.x on Windows, a remote recovery fails if you use the NetWorker User for Lotus program on the performing client and either (or both) of the following are true:

- ◆ You select to remotely restore any Lotus file that contains a space in its pathname.
- ◆ The **nsrnml_remcov** script is located in a path that contains a space.

Ensure that you follow these guidelines to set the **NSRNML_RECOVCMD** variable on the performing client for a remote recovery:

- ◆ Set the variable in the environment of the performing client, *not* in the NML configuration file.
- ◆ Include any file extension (for example, .bat) in the pathname.
- ◆ On Windows, if the pathname contains any spaces, use quotes and double backslashes in the variable setting. For example:

```
NSRNML_RECOVCMD="C:\\Program Files\\Legato\\nsr\\bin\\  
nsrnml_remrecov.bat"
```

If you experience the problem with remote recovery of a Lotus file containing a space in its pathname, contact your EMC Customer Support Representative.

Technical notes

This section is not applicable.

Documentation

The following sections describe related documentation and any documentation corrections or additions for NML release 3.0.x.

Related documentation

The *EMC Information Protection Software Compatibility Guide* provides the latest information on operating systems and versions supported by the NML software. The guide is available at <http://Powerlink.EMC.com>, **Support > Interoperability and Product Lifecycle Information > Compatibility Guides**.

The following guides provide information related to the NML software:

- ◆ The NetWorker Module for Lotus release 3.0.x documentation set:
 - Administration guide
 - Installation guide
 - Release Notes
 - Command reference guide
- ◆ The NetWorker documentation set:
 - Administration guide
 - Installation guide
 - Release notes
 - Command reference guide

These guides are available at <http://Powerlink.EMC.com>, **Support > Technical Documentation and Advisories**.

Note: The most up-to-date product issues for NML are detailed online in the EMC Issue Tracker available on the Powerlink website: <http://Powerlink.EMC.com>.

Documentation errata

The following sections describe documentation corrections or additions for NML release 3.0.x.

Where to find the most recent supported operating system and version information

The *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Installation Guide* and *Administration Guide* do not contain the most recent supported operating system and version information. Consult the *EMC Information Protection Software Compatibility Guide* on Powerlink for the most up-to-date information on the supported versions of operating systems, clusters, and Lotus Domino and Notes.

Correct a step in the remote recovery configuration

On page 6-15 of the *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Administration Guide*, change step 4 to the following:

4. On the performing client, set the NSRNML_RECOVCMD environment variable to the name of the **nsrnm1_remrecov** script that you modified on the source client. If this environment variable is *not* set, the NetWorker User for Lotus program uses **nsrnm1_remrecov** for UNIX or Linux clients, by default.

Follow these guidelines to set the NSRNML_RECOVCMD variable:

- Set the variable in the environment of the performing client, *not* in the NML configuration file.
- Include any file extension (for example, .bat) in the pathname.
- On Windows, if the pathname contains any spaces, use quotes and double backslashes in the variable setting. For example:

```
NSRNML_RECOVCMD="C:\\Program Files\\Legato\\nsr\\bin\\  
nsrnml_remrecov.bat"
```

Software media, organization, and files

The *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Installation Guide* provides details on the NML release 3.0 software media, organization, and files.

[“NML release 3.0.1 on Windows” on page 5](#) provides details on the NML release 3.0.1 for Windows.

Installation

If the NetWorker client installation directory is relocated (for example, during an upgrade) on the computer where the NML release 3.0.x software is installed, you must uninstall and reinstall the NML software.

The *EMC NetWorker Module for Lotus, Release 3.0, Multiplatform Version, Installation Guide* provides detailed install and uninstall instructions for the NML 3.0 software.

[“NML release 3.0.1 on Windows” on page 5](#) provides details on installation of the service pack release, NML 3.0.1 on Windows.

Troubleshooting and getting 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:

<http://Powerlink.EMC.com>

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.

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