



RELEASE NOTES

EMC Legato NetWorker Module for Lotus

Release 3.0

Release Notes

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

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Product description

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

Note: At this time, NML release 3.0 does *not* yet support Domino with DB2. IBM currently offers Domino with DB2 as limited availability.

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 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.
- ◆ 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 Notes 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 includes the following new or enhanced features. Unless specified otherwise, the *NetWorker Module for Lotus, Release 3.0, Administration Guide* provides more details on these features.

Note: At this time, NML release 3.0 does *not* yet support Domino with DB2. IBM currently offers Domino with DB2 as limited availability.

- ◆ Support for new Lotus Domino, Notes, and NetWorker software releases, as described in the current Software Compatibility Guide on the EMC Legato website at www.legato.com.
- ◆ 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 *NetWorker Module for Lotus, Release 3.0, Installation 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 5](#).

Fixed problems

[Table 1 on page 5](#) lists the bugs that have been fixed and implemented in NML release 3.0.

Table 1 Fixed bugs in NML release 3.0 (Sheet 1 of 2)

Number	Description	Operating system
LGTpa36809	Document-level recovery was <i>not</i> supported for databases located on remote Lotus Domino servers.	All
LGTpa50506	Lotus data recovery required the "Backup local data" user group privilege.	All
LGTpa50974	Backups of files with German characters failed.	UNIX, Linux
LGTpa53792	A minimum of 64 MB of logged transactions was required before an incremental backup could be performed.	All
LGTpa72583	Shared memory segments and semaphores were incorrectly left behind after the completion or termination of a backup or recovery.	AIX
LGTpa72865	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.	All
LGTpa72961	Backups failed with the LGTpa66441 patch and the -A option when a nondatabase file could not be opened for backup.	Microsoft Windows
LGTpa74574	Backups caused termination of the Domino server when the shortcut feature of EmailXtender [®] was enabled.	Microsoft Windows
LGTpa75521	In a Microsoft cluster, a physical node incorrectly used the NML license during a virtual node backup.	Microsoft Windows
LGTpa79084	When Lotus Notes links were recovered, the files pointed to by the links were <i>not</i> automatically recovered.	All

Table 1 Fixed bugs in NML release 3.0 (Sheet 2 of 2)

Number	Description	Operating system
LGTpa79770	The <code>nsnotesrc -L</code> option for prefetching transaction logs during recovery was <i>not</i> supported on UNIX and Linux.	UNIX, Linux
LGTpa81498	Backups failed with the LGTpa74574 patch installed on a partitioned Domino server, and a library initialization error was displayed.	Microsoft Windows

Environment and system requirements

Details on the versions of operating systems, Lotus Domino and Notes software, and NetWorker software that NML release 3.0 supports are available in the current Software Compatibility Guide on the EMC Legato website at www.Legato.com.

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

Known problems and limitations

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

- ◆ [“Zero byte databases are skipped during backups” on page 7](#)
- ◆ [“Recovery fails to apply transaction logs \(LGTpa22627\)” on page 7](#)
- ◆ [“Backup and recovery of a Domino server fails with a secured console \(LGTpa48238\)” on page 7](#)
- ◆ [“Recovery fails with Domino 6.0.1, 6.0.3, and 6.5 databases \(LGTpa48533, LGTpa59807\)” on page 8](#)
- ◆ [“Limitations exist with using the NetWorker User for Lotus GUI for remote recovery \(LGTpa50352\)” on page 8](#)
- ◆ [“Limitations exist with recovery of a logged SCOS \(LGTpa53861\)” on page 9](#)
- ◆ [“NML configuration wizard on Linux displays incorrect client version \(LGTpa80340\)” on page 10](#)

- ◆ “NML 2.2.x configuration method fails for scheduled backups of files and directories on UNIX and Linux (LGTpa83850)” on page 10
- ◆ “Debug level 9 may cause the Domino server to crash during a backup or recovery (LGTpa84477)” on page 10
- ◆ “Vague error appears for a document-level recovery failure (LGTpa84482)” on page 11

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 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.

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 *NetWorker Module for Lotus, Release 3.0, 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 *NetWorker Module for Lotus, Release 3.0, 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.

Documentation

Documentation related to the use of this product can be found at the EMC Legato website, www.Legato.com, including:

- ◆ The NetWorker Module for Lotus release 3.0 documentation set:
 - Administration guide
 - Installation guide
 - Command reference guide
- ◆ The NetWorker documentation set:
 - Administration guide
 - Installation guide
 - Release notes
 - Command reference guide
- ◆ Other EMC documentation:
 - Software compatibility guide
 - UNIX man pages

Note: The most up-to-date product issues for NML release 3.0 are detailed online in the EMC Issue Tracker, available on the EMC Powerlink™ website at <http://Powerlink.EMC.com>.

Software media, organization, and files

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

Installation

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

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

Troubleshooting and getting help

EMC support, product, and licensing information can be obtained as follows.

Technical support — For information about software patches, technical documentation, and support programs, customers and partners with an active support agreement should go to:

<http://softwaresupport.EMC.com>

Customers without an active support agreement, please contact Support Sales and Renewals for more information.

Support sales, renewals, and licensing — For additional information about EMC storage products and services, go to:

<http://www.Legato.com/support/contact/index.htm>

To license and register this product, go to:

<http://www.Legato.com/support/licensing>

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