

**EMC[®] NetWorker[®]
Module for Informix**Release 3.0
UNIX and Microsoft Windows Version**Release Notes**P/N 300-004-712
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March 20, 2009

These release notes contain supplemental information about this release of EMC NetWorker Module for Informix. Topics include:

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Revision history

Table 1 on page 2 presents the revision history of this document.

Table 1 Revision history

Revision	Date	Description
A01	June 08, 2007	First release of the product.
A02	March 13, 2008	The New features and changes section is updated with Support for backup and restore with a NetWorker 7.3.x client and Support for LPAR on pSeries AIX operating systems features.
A03	June 20, 2008	The New features and changes section is updated with Support for IBM IDS archecker utility feature.
A04	July 30, 2008	The Known problems and limitations section is updated with issue LGTsc19008.
A05	March 20, 2009	Added statement in the Documentation section to consult the Software Compatibility Guide for the most up-to-date supported operating system and version information.

Product description

EMC NetWorker Module for Informix is an add-on module for the NetWorker software that provides:

- ◆ Automated backup media management
- ◆ Scheduling for OnBar, the Informix backup and restore utility

New features and changes

This section describes the following new or improved features and enhancements in NetWorker Module for Informix release 3.0 software:

- ◆ [“AES Encryption” on page 3](#)
- ◆ [“Inactivity timeout and browse/retention policies” on page 3](#)
- ◆ [“Expiring IDS backups” on page 3](#)
- ◆ [“Internationalization support” on page 3](#)
- ◆ [“Improved reporting of scheduled backups” on page 3](#)
- ◆ [“Solaris 10 zones support” on page 4](#)
- ◆ [“Support for backup and restore with a NetWorker 7.3.x client” on page 4](#)
- ◆ [“Support for LPAR on pSeries AIX operating systems” on page 5](#)
- ◆ [“Support for IBM IDS archecker utility” on page 5](#)

AES Encryption

AES encryption improves the security of NetWorker Module backups. AES encryption is enabled by setting the `NSR_AES_ENCRYPTION` parameter to `TRUE`. AES encryption uses a key that is set in the datazone pass phrase field of the NSR resource on the NetWorker server. The *EMC NetWorker Module for Informix Release 3.0 UNIX and Microsoft Windows Version Administration Guide* provides detailed information.

Inactivity timeout and browse/retention policies

Save set browse and retention time can be specified while taking manual backups using OnBar. You must use two environment variables, `NSR_SAVESET_BROWSE` and `NSR_SAVESET_RETENTION` to set the browse and retention time respectively. The policy must be specified in the formats used by `nsr_getdate`. Inactivity timeout and browse and retention policies are fully honored during scheduled backups.

The *EMC NetWorker Multiplatform Version Administration Guide* provides details on `nsr_getdate`.

The *EMC NetWorker Module for Informix Release 3.0 UNIX and Microsoft Windows Version Administration Guide* provides details on using the `NSR_SAVESET_BROWSE` and `NSR_SAVESET_RETENTION` variables.

Expiring IDS backups

The Informix `onmsync` utility is used to remove expired Informix Dynamic Server (IDS) backups from the NetWorker server when they are removed from the IDS backup catalog.

Internationalization support

The internationalization support available in this release of NetWorker Module for Informix allows it to operate in non-ASCII environments. You can:

- ◆ Create non-ASCII databases, and do backup and restore operations.
- ◆ Specify non-ASCII characters for Informix command options.
- ◆ Specify non-ASCII characters for the environment variables in the `nsrdbmi` file.
- ◆ Type the inputs to the NetWorker Module software in non-ASCII language.

Improved reporting of scheduled backups

The NetWorker Module for Informix registers sessions with the NetWorker jobs framework during scheduled backups, and these sessions are displayed in the Session tab of the NMC.

During scheduled backup, the Group Details window of NMC displays:

- ◆ The correct information for completed multiple save set sessions.
- ◆ Completion correct information for client index and bootstrap backups.

- ◆ The total size of the completed backups.

The database name, and the save set name passed by an administrator are differentiated. This differentiation in save set names applies to single, multiple, full, incremental, and level type of backups done by the NetWorker Module. This differentiation does not apply to the meta-data save set backup by the NetWorker Module.

Solaris 10 zones support

This release of NetWorker Module for Informix provides Solaris zones support. The NetWorker Module software must be installed in the same zone as the NetWorker client. The NetWorker Module software can run in both global and whole root zones, and no additional steps are required when installing the NetWorker Module software in a global or whole root zone.

The *EMC NetWorker Module for Informix Release 3.0 UNIX and Microsoft Windows Version Installation Guide* provides detailed information.

Support for backup and restore with a NetWorker 7.3.x client

The NMI 3.0 software supports only NetWorker release 7.4 and later clients. To enable the NMI 3.0 software to perform backup and restore operations with a NetWorker 7.3.x client, apply the binary patch file, `nsr_render_log(.exe)`.

Application of the `nsr_render_log(.exe)` patch file does not add the new features and functionality that are available in NetWorker release 7.4. These new features and functionality include I18N and L10N support, backup configuration wizard support, and improved scheduled backup reporting in NMC.

To install the patch:

1. Obtain the `nsr_render_log(.exe)` file from the Updates download site.

```
ftp://ftp.legato.com/pub/NetWorker/Updates/render_logs/platform
```

where *platform* is the folder for the operating system of the NMI client.

2. Place a copy of the `nsr_render_log(.exe)` file in the same directory that contains the NetWorker client binaries.
3. Ensure the NetWorker client binaries directory is in the `$PATH (%PATH%)` environment variable. It should be either in the environment for manual backup operations or in the `nsrdbmi.sh(.bat)` file for scheduled backup operations.

Note: For Microsoft Windows systems, the binary patch must be manually removed before an upgrade from NetWorker 7.3.x to NetWorker 7.4 client.

The support solution at <http://solutions.emc.com/emcsolutionview.asp?id=esg92218> provides more details.

Support for LPAR on pSeries AIX operating systems

IBM Dynamic Logical Partitioning (LPAR) and micro-partitioning with multiple LPAR partitions are supported on pSeries AIX operating systems. This provides more efficient resource allocations, more logical partitions, and higher resource utilization.

- ◆ LPAR allows the dynamic division of a single server into several completely independent virtual servers or logical partitions without restarting the partitions.
- ◆ Micro-partitioning allows multiple logical partitions to automatically share the system's processing power.

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

Support for IBM IDS archecker utility

The IBM IDS **archecker** utility is used to verify backups and recover specific tables or set of tables. The NetWorker Module for Informix supports both features of the **archecker** utility.

1. **Verify backups** — Use the **archecker** utility to check the validity and completeness of backups. To ensure that a backup is restored safely, use the **onbar -v** command, which calls the **archecker** utility.
2. **Recover specific tables or sets of tables** — Use the **archecker** utility to easily extract data in tables of databases from a level - 0 (full) backup to a backup at a specified time. The extracted data can be kept in internal or external tables, or ASCII files.

The following features are supported:

1. Extract a table or a set of tables.
2. Filter the retrieved data.
3. Retrieve a subset of columns.
4. Repartition the data.
5. Place data in the same version of the database, or in a different database version with a different machine architecture.

Note: This feature is not available with IBM IDS 9.40 database.

The *IBM IDS Backup And Restore Guide* provides more details on the usage of the **archecker** utility.

Fixed problems

Table 2 on page 6 lists bugs that have been fixed in the NetWorker Module for Informix release 3.0.

Table 2 Fixed problems

Issue number for DDTS	Product feature	Problem summary
LGTpa27678	Backup	The NMI 3.0 software was required to support the onbar -w option.
LGTpa44484	Browse and Retention	The ability to specify the browse and retention time in manual backups was required.
LGTpa51730	Backup	The ability to back up Informix logical logs was required.
LGTpa64363	Backup	Optimize the client file index lookup queries in NMI.
LGTpa75042	Backup	NMI support for IDS version 10 is required.

Note: The most up-to-date product issues for NetWorker Module for Informix release 3.0 are detailed online in the EMC Issue Tracker available on the EMC Powerlink website: <http://powerlink.EMC.com>.

Environment and system requirements

Consult the *EMC Information Protection Software Compatibility Guide* for the most up-to-date information on the environment and system requirements for different operating systems.

Known problems and limitations

Table 3 on page 6 lists the known problems and limitations in NetWorker Module for Informix release 3.0.

Table 3 Known problems and limitations (page 1 of 3)

Issue number	Product feature	Problem summary	Workaround
LGTsc01934	Backup	Windows client indexes are generated with the wrong syntax, a forward slash (/) rather than a back slash (\).	
LGTsc01937	Backup	On Windows, the onsmsync utility does not delete the entries from mminfo on the NetWorker server.	
LGTsc02139	Backup	Successful backups of multiple save sets write errors to log file.	To avoid incorrect messages in the log, backup each dbspace independently.

Table 3 Known problems and limitations (page 2 of 3)

Issue number	Product feature	Problem summary	Workaround
LGTsc03261	Backup	A full backup is performed despite the existence of Level 1.	To avoid unnecessary full backups, use the client save set name to ensure that NetWorker is able to find the save set name in mminfo during the scheduled backup. This backup will be incremental.
LGTsc04085	Backup	Informix ON-Bar reports failure of successful save on Linux IA_IDS94.	
LGTsc04406	Backup	NMC Group Details window displays invalid backup level.	To display the list of backups and their correct backup levels, use the mminfo command.
LGTsc04671	Backup	Backup levels are not displayed for all save sets with the Jobs Framework It is a limitation of Networker and NMC.	To display the list of save sets and their correct backup levels, use the mminfo command.
LGTsc02067	Browse and Retention	Setting the NSR_SAVESET_RETENTION=FOREVER results in a NetWorker Archive which is not supported by the NetWorker module.	To avoid this, perform a backup without setting the NSR_SAVESET_RETENTION variable, and use nsrmm to set the browse and retention policy to forever.
LGTsc03175	Browse and Retention	On Solaris, and HP-UX, the bourne shell (/bin/sh) does not pass file descriptors to child processes. When the NetWorker Module is invoked, the session channel is not passed from the nsrdbmi script to the nsrifmx binary.	To avoid this problem, change the first line of the nsrdbmi script from #!/bin/sh to #!/bin/ksh . The Korn Shell passes the session channel from the nsrdbmi script to the nsrifmx binary.
LGTsc01920	Installation	The upgrade option is not available for the NetWorker module on Windows.	Uninstall the old version of NetWorker Module for Informix before installing NetWorker Module for Informix release 3.0. Complete instructions for uninstalling and installing the NetWorker Module are available in the <i>EMC NetWorker Module for Informix Release 3.0 UNIX and Microsoft Windows Version Installation Guide</i> .
LGTsc03842	Installation	Currently, NMI is not uninstalled in a shared zone at the first attempt.	The uninstallation is successful with a second attempt.

Table 3 Known problems and limitations (page 3 of 3)

Issue number	Product feature	Problem summary	Workaround
LGTsc04046	Installation	DB_LOCALE, DBLANG, SERVER_LOCALE and CLIENT_LOCALE parameters must be set in nsrdbmi file for scheduled backups to complete successfully for non-default locales. The Default Locale for IDS is English (en_us).	
LGTsc06063	Installation	The shared library, libxnmi is incorrectly installed at /usr/opt/networker/lib. It should be installed at /usr/opt/networker/lib/libxnmi.so.1.	To correct this, change the BAR_BSALIB_PATH variable in the onconfig file to the correct path: /usr/opt/networker/lib/libxnmi.so.1
LGTsc19008	Scheduled Backup	IDS version 7.3.1 does not support the option of backing up only individual database spaces. If the D0_LOG_FILE_BAKCUPS option in the nsrdbmi file is set to No, then scheduled backups fails.	During scheduled backup for IDS version 7.3.1, set the D0_LOG_FILE_BAKCUPS option in the nsrdbmi file to Yes.

Note: The most up-to-date product issues for NetWorker Module for Informix release 3.0 are detailed online in the EMC Issue Tracker available on Powerlink at <http://powerlink.EMC.com>.

Technical notes

There are no technical notes for this release.

Documentation

This section describes related documentation and any corrections or additions to the NetWorker module documentation:

- ◆ [“Documentation Errata” on page 8](#)
- ◆ [“Related Documentation” on page 8](#)

Documentation Errata

This section contains corrections or updates to the NetWorker Module documentation.

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

The *NetWorker Module for Informix Release 3.0 UNIX and Microsoft Windows Version Administration Guide* and *Installation Guide* do not contain the most recent supported operating system and version information. Consult the *EMC Information Protection Software Compatibility Guide* for the most up-to-date information on supported operating systems and versions.

Related Documentation

The following manuals, available on Powerlink at <http://powerlink.EMC.com> provide further information about the NetWorker software and the NetWorker Module for Informix software:

- ◆ *NetWorker Module for Informix Release 3.0 UNIX and Microsoft Windows Version Installation Guide*
- ◆ *NetWorker Module for Informix, Release 3.0 UNIX and Microsoft Windows Version Administration Guide*
- ◆ *NetWorker Release 7.4 Multiplatform Version Administration Guide*
- ◆ *NetWorker Command Reference Guide*
- ◆ *NetWorker Power Edition Performance Tuning Guide*
- ◆ *NetWorker Error Message Guide*
- ◆ *EMC Software Compatibility Guide*
- ◆ Technical Bulletins

Software media, organization, and files

Make sure you have:

- ◆ The CD-ROM from the Media Kit
- ◆ Access to EMC PowerLink at <http://powerlink.EMC.com> to download the media kit and documentation.

The *EMC NetWorker Module for Informix Release 3.0 UNIX and Microsoft Windows Version Installation Guide* provides details about files that are installed and their location.

Installation

The *EMC NetWorker Module for Informix Release 3.0 UNIX and Microsoft Windows Version Installation Guide* provides information about installation of the NetWorker Module in different environments.

Supported operating systems

For up-to-date details on supported operating systems, consult the *EMC Compatibility Guides* at <http://powerlink.EMC.com>.

Supported Informix database servers

The NetWorker Module supports the following versions of the Informix database servers (IDS):

- ◆ 9.4
- ◆ 10.0

Supported NetWorker versions

For supported NetWorker server and client releases for all operating systems with the NetWorker Module 3.0 software, consult the *EMC Information Protection Software Compatibility Guide*.

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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