Sun ONE Meta-Directory Release Notes

Version 5.1.1 May 2004

Part Number 817-3899-10

These Release Notes contain important information available at the time of release of Sun ONE™ Meta-Directory 5.1.1. New features and enhancements, known issues and limitations, and other information are addressed here. Read this document before you begin using Meta-Directory™ 5.1.1.

The most up-to-date version of these release notes can be found at the Sun ONE documentation web site: `http://docs.sun.com/db/prod/sunone#hic`. Check the web site prior to installing and setting up your software and then periodically thereafter to view the most up-to-date release notes and product documentation.

These release notes contain the following sections:

- Release Notes Revision History
- About Meta-Directory 5.1.1
- Bugs Fixed in This Release
- Important Information
- Known Issues and Limitations
- Redistributable Files
- How to Report Problems and Provide Feedback
- Additional Sun Resources

Third-party URLs are referenced in this document and provide additional, related information.

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Release Notes Revision History

Table 1   Revision History

Date	Description of Changes
May 28, 2004	Initial release of these Release Notes

About Meta-Directory 5.1.1

Sun ONE Meta-Directory synchronizes and consolidates data stored in various repositories such as the Sun Java System™ Directory Server. Meta-Directory can be used to create and delete accounts in various enterprise and extranet applications. By unifying the information about user identities to a single authoritative directory server, Meta-Directory reduces the cost of management, acts as a single point for applications to search and access identity information, and it also ensures this information is consistent. Supported data sources include LDAP directories, Oracle databases, Microsoft Active Directory, Novell eDirectory, and other proprietary formats.

This section includes:

- What's New in This Release
- Hardware and Software Requirements
- About Scalability Limits

What's New in This Release

The focus of this release has been to improve the product stability and quality; more than 150 bugs and 40 'memory leak' related bugs have been addressed in this release. Issues that affected inter-operatability with several key data sources have also been corrected, expanding the list of supported data sources.

Some of the key highlights are:

- Underlying software components are aligned with the Sun Java Enterprise System 2 for improved compatibility.

- NSPERL is updated to version 5.8.2 which supports multi-threading. This improves the stability when running external PERL scripts.

- 'Scheduling' feature is fixed to work as documented.

- The Administration Server and Console is updated to the latest version, to improve memory usage and provide better compatibility with Directory Server 5.2.

- Support for new data source versions:

    ❍ Lotus Notes 5.0.10, 5.0.12, and 6.0.1

NOTE Support for 6.0.1 is limited to 1000 users due to a bug in the Lotus Notes LDAP interface. For more information, see bug #4910198.

    ❍ Oracle 9.2.0

    ❍ Novell eDirectory 8.7

- Due to Sun Java System Directory Server 5.2 dropping support for running on Windows NT, Meta-Directory had to drop support for running on Windows NT 4.0. However, Meta-Directory retains the capability to synchronize data to and from Windows NT 4.0 Primary Domain Controllers.

Hardware and Software Requirements

The following hardware and software is required for the Meta-Directory Join Engine. Individual connectors to the data sources may have additional requirements.

Table 2 Solaris Hardware and Software Requirements

Component	Platform Requirement
CPU	UltraSPARC™ II (32-bit and 64-bit), 400Mhz or higher *or* UltraSPARC™ IIIi (32-bit and 64-bit), 400Mhz or higher
Operating System	Solaris™ 8 or Solaris 9 and recommended service packs
RAM	Minimum: 512MB Recommended: 1 GB or 2 GB
Disk space	Minimum: 100 MB Recommended: 1GB

Table 2   Solaris Hardware and Software Requirements *(Continued)*

Component	Platform Requirement
Sun Java System Directory Server	Sun Java System Directory Server 5.1 *or* Sun Java System Directory Server 5.2 Hotfix 1

Table 3   Windows Hardware and Software Requirements

Component	Platform Requirement
CPU	Intel Pentium I I or later (IA-32 processors), 300 Mhz or higher
Operating System	Windows 2000 Standard Edition, SP4 Windows 2000 Enterprise Edition, SP4
RAM	Minimum: 512MB Recommended: 1 GB or 2 GB
Additional software	Minimum: 512MB Recommended: 1 GB
Sun Java System Directory Server	Sun Java System Directory Server 5.1 *or* Sun Java System Directory Server 5.2 Hotfix 1

About Scalability Limits

Maximum number of entries supported in the Meta View is 500K entries.

Bugs Fixed in This Release

The table below describes the bugs fixed in Meta-Directory 5.1.1:

Table 4   Fixed Bugs in Meta-Directory 5.1.1

Bug Number	Description
Upgrade/Installation/Uninstallation	
4885441	On Windows 2000-based machines, Meta-Directory 5.1 could not be installed using the `setup.exe` file. The installation program was terminated unconditionally, and the message 'Please go to the Control Panel to install and configure your system components' was displayed.
4893447	On Windows-based machines, the installation program failed when attempting to install to a directory (SERVER_ROOT) that contained a space in the directory name, including the default installation directory, `Program Files`.
4977366	Executing the upgrade script led to the 'Cannot access nsperl544.zip' error, and the upgrade tool failed to complete the operation.
Administration	
4965491	Accessing Help in the Fixittool > Authentication window had resulted in the 'Java.lang.NullPointerException' error.
4965492	Text fields in the Fixittool > Authentication window did not contain labels that helped in entering appropriate data in the fields.
4966231	The value for the Maximum Disk Usage field in the log files for the Join Engine were blank.
4966174	An error message that contained a typographical error was displayed when a Constructed Attribute name was created with spaces.
Console	
4887756	The 'ArrayIndexOutOfBoundsException' error had occurred when the Continuous option in the Console > Log window was selected to view the log files.
4886281	Incorrect naming attributes were displayed when the entries of the Connector View (Meta-Directory > Connector Views > <*UTC CV*>) or Meta View (Meta-Directory > Join Engine > Meta-View) were viewed using the Meta-Directory Console.
4804752	In the Console, the Join Engine's status was displayed as 'unknown' although its actual status was either 'started' or 'stopped'.
4929992	The Console used to set the Filter configuration value to `null` if `Default` was selected in the General tab.
4919528	The changes made to the parameters in the Schedule tab (Meta-Directory Console > Connectors > <*any connector*> > <*CV*> > from the right pane, click Schedule tab) were reset to the previous values when modifications were made to the operation settings in the General tab.
General	
4920132	The options in the Advanced Schedule dialog box (in the Schedule tab > click Advanced) did not work as documented when setting the schedule for the synchronization of entries.
Join Engine	
4760313	Special characters, spaces, and # were not escaped when creating the Distinguished Name (DN) of entries in the LDAP Directories. See RFC 2253.

Table 4   Fixed Bugs in Meta-Directory 5.1.1 *(Continued)*

Bug Number	Description
4832692	When the Join Engine attempted to start up, Meta-Directory shut down with the 'Dr. Watson' error on Windows-based machines.
4877779	If a joined entry was deleted, the entry used to get deleted in the Meta View too and it was also added to the owner. This resulted in the entry not having the attributes that were flown to other Connector Views.
4719673	The Join Engine used to always check for changes during start up regardless of the DCNS schedule.
4910331	During synchronization, due to large number of groups in the Oracle Connector View, Join Engine shut down with the 'DCNS_E_TOO_LATE' error and the Connector View was disabled.
4940810	The Join Engine shut down when synchronization of entries was performed from the LDAP Connector View to the Meta View on a single CPU machine.
4924479	When the DN Mapping rules failed to meet the syntax requirements or was set to 'none', the Join Engine had retried the mapping rules three times and then logged an error to the log files. This had resulted in reduced performance of Meta-Directory.
4944688	The Join Engine stopped responding when the refresh operation for groups that contained large number of members, for instance, more than 100K entries, was performed for the LDAP Connector View.
4918670	The Join Engine shut down when the refresh operation (if the Oracle database contained a table with large number of columns, for example, more than 500) was performed in the Meta View to the Connector View flow direction.
4878283	The Join Engine shut down when flowing data from multiple connectors simultaneously.
4969815	When adding an entry to the Meta View failed, the Join Engine attempted to incorrectly retry the 'mapping rules' three times. This led to reduced performance of Meta-Directory.
4938779	The Join Engine shut down abruptly when a large number of entries (for example, more than 500K) were flown from the Connector View to the Meta View.
4958886	Information displayed in the Total number of Meta Views field (Join Engine > select Statistics tab) was not accurate.
4935125	When the Log Level (Join Engine > Log > Log Level) was set to Off, Join Engine still continued to report the log files. This occurred when the Log Level was changed from the Debug or Normal mode to the Off mode or when the Join Engine was started with Log Level set to Off.
4954367	When data was flown from an LDAP Connector View to the Meta View (if the Meta View is on one Directory Server instance and the LDAP Connector View is on another Directory Server instance), and if Directory Server hosting the Connector View was shut down, the Join Engine shut down abruptly. The Log files did not report the cause of the error.
4956616	When an entry was deleted in the Connector View and then a DN mapping rule was applied, Join Engine shut down.

Table 4   Fixed Bugs in Meta-Directory 5.1.1 *(Continued)*

Bug Number	Description
4844931	After a refresh operation, the owner of an entry was changed to an incorrect Connector View (when the entry from the original Connector View was shut down).
4925961	When an event script used the 'localtime()' function, Join Engine had shut down.
4938633	When both the Connector View and the Meta View used `dc=<>`, the Join Engine shut down due to an 'Object_Class_Violation' error.
4923256	Entries from the Connector View to the Meta View stopped flowing after a few entries were flown and the Join Engine had shut down if a large number of DN mapping rules existed.
4793456	In the Connector View, the entire directory information structure (DIT) of an entry was displayed under each entry.
4959422	The log files on a Solaris-based machine had incorrectly reported the 'nsmds:daemon.error PR_Open(start.conf)' error although the `start.conf` file was available.
4800813	When executing the Perl scripts, the Script Here option that was used to specify the location of the perl scripts did not work.
4947644	When several Participating Views were enabled, Join Engine shut down due to a 'nsmds' error.
4926008	Join Engine shut down when flowing two million or more entries from an Oracle database to the Connector View.

Active Directory and Exchange Connector

Bug Number	Description
4815651	Incremental mode has been implemented in the Active Directory and Exchange connector. This is the default mode. In this mode, the connector detects only new and modified entries in the Active Directory and flows it to the Connector View. For more information on this and the other modes, see the table in "To set configuration parameters from the configuration file" section in the *Meta-Directory 5.1.1 Administration Guide.*
4833345	When the Active Directory administrator password was stored in the `adc.ini` file, it was not encrypted.
4897015	If no value was entered in the 'sn' field in Active Directory, user entries from the Active Directory connector did not flow to the Connector View, on synchronization.
4964191	An entry that contained the hypen character did not flow from the Connector View to Active Directory, for example, `cn=cn-1-username`.
4970338	The Manual Refresh operation failed when executed for the Connector View to Active Directory flow direction.
4918763	Due to an incorrect mapping of the `employeeID` attribute (in Active Directory) with `employeenumber` in Directory Server, data did not flow to the Connector View, on synchronization.
4960161	Values of the `msexchmailboxsecuritydescriptor` attribute did not flow from the Connector View to Active Directory.
4917915	Due to an incorrect mapping of the `initials` attribute (in Active Directory) to the `initial` attribute in the Directory Server, data flow for this attribute failed.

Table 4 Fixed Bugs in Meta-Directory 5.1.1 *(Continued)*

Bug Number	Description
4915812	Data of the `msexchobjectalversion` attribute did not flow due to an incorrect search attribute present in the `adc.ini` file.
4916361	Values of the entries that contained the 'Organization' (o) attribute did not flow from Active Directory to the Connector View, on synchronization.
4916556	Using the Default Attribute Flow mapping, the 'memberOf' attribute of a group DN did not contain any value when flown from Active Directory to the Connector View.

NT Domain Connector

4910993	When creating an NT Domain Connector instance, no validation was performed for read-write hostnames.

Universal Text Connector

4771792 4537752 4543794 4786815	Renaming a RDN entry (ModRDN operation) is now supported in the Universal Text Connector.
4883004	The `uniqueMember` attribute was not escaped if the DN value contained UTF-8 data.
4899815	The Euro symbol in an entry was corrupted when the entry was flown to the external file (*.out). The *.out file did not contain the actual Euro symbol.
4935861	Using a remote Console (if the console was running on a machine where Meta-Directory was not installed), none of the options in the Log window could be modified. An error occurred when attempting to modify any of the options.
4980172	The external file (*.out file) did not contain the complete data when a Manual Refresh operation was executed in the Connector View to the external file flow direction.
4945344 /4947638	Meta-Directory shutdown abruptly when several Universal Text connectors were started (with all the Participating Views enabled), and the data did not flow from the Connector View to the Meta View. The schedule was set to run every minute for a day.
4919481	Entries that had quotation marks, for example, `character` in their values were flown on synchronization, however in the external file the values did not contain the quotation marks. This occurred although the parameters *Keep Quotes=TRUE* and *QuoteCharacter="* were appropriately set in the `task.cfg` file.
4901237	When performing synchronization if the `MultiValToNoValAttr` parameter in the `task.cfg` file contained *cn* in its value, then the Universal Text connector shut down.
4635520	When performing the Refresh operation using filters (from the Connector View to the external directory direction), the operation failed if the entries were 500K and more. The Universal Text Connector did not shutdown gracefully.
4901842	When binary values of an entry that contained multiple values (a list of comma separated values), on synchronization, the connector had failed to process these values.

Database Connector

Table 4 Fixed Bugs in Meta-Directory 5.1.1 *(Continued)*

Bug Number	Description
4865897	Support for Oracle 9.2.0 has been implemented. **Note:** See the "Compatibility Issues" section for limitations when using a 32/64 bit Oracle client/server.
4913256	On Windows-based machines, the non-ASCII character set was not loaded properly when flowing data from the Meta View to the Oracle database.
4937210	Entries that contained single quotation marks (') in the Directory Server were converted to double quotation marks (") in Oracle when synchronization was performed.
4987493	When the Join Engine was started and stopped within a short time interval, for example, 5 minutes, and if the Oracle Connector View had more than 50 Connector Views, Meta-Directory had shut down with an error.
Lotus Notes Connector	
4927227	When flowing large number of entries from the Lotus Notes connector to the Connector View, the 'sERR_LDAP_DA_003' error occurred. Synchronization of the entries had failed.
4940319	When an entry was made to flow from the Directory Server to the Lotus Notes server, the user ID file did not contain the correct user name information.
4897816	If the modification to nonRDN attributes and modification to RDN attributes (modRDN operation) were performed simultaneously, the modified user entries did not flow to the Lotus Notes server.
4882986	When running the Manual Refresh operation on the directory tree (DIT), an error message was displayed 'Failed to submit the command to the connector. Ensure that it is running'. Due to this, the refresh operation failed to complete.
4799004	When the attribute mappings list was viewed (Console > Connectors > Novell eDirectory Connector > select Attribute Flow tab > Complete Attribute Set for Default Schema), it was not sorted alphabetically.
Novell Connector	
4897816	If the modification to non-RDN attributes and modification to RDN attributes (modRDN operation) was performed simultaneously, the modified user entries did not flow to the Novell eDirectory server.
4799004	When the attribute mappings list was viewed (Console > Connectors > Novell eDirectory Connector > select Attribute Flow tab > Complete Attribute Set for Default Schema), it was not sorted alphabetically.
4973612	When modifications were made to an entry from multi-value to no value, the modified entry did not flow from the Connector View to the Novell eDirectory server.
4900336	The system stopped responding when multiple connectors where enabled and the synchronization operation was performed.

Important Information

This section contains the latest information that is not contained in the core product documentation. This section covers the following topics:

- Installation Notes
- Compatibility Issues
- Documentation Updates for Meta-Directory 5.1.1

Installation Notes

Before you install Meta-Directory 5.1.1, ensure that the following are installed and running:

- Sun Java System Directory Server™ 5.1 or 5.2 HF1
  Install Directory Server and Meta-Directory on separate machines for production use. In the testing and development environment, it can be installed on the same machine (note that this machine must comply with the recommended machine requirements, see the "Hardware and Software Requirements" section for more information).

- Recommended Patch Clusters for Solaris 8 or Solaris 9
  These patches must be installed on machines where any component of Meta-Directory (Join Engine, Console, and connectors) is installed. For the latest patch clusters, access the following link
  http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/patch-access

- Solaris Operating System patches for Java 2 Standard Edition™ (J2SE) 1.4.1 or higher
  These patches must be installed on machines where the Console or the Java-based connectors (Novell and Lotus Notes) are installed.
  Localized JRE patch set can be downloaded from:
  http://sunsolve.sun.com/pub-cgi/show.pl?target=patches/J2SE

- C++ Runtime Objects
  These runtime objects must be installed on machines where any component of Meta-Directory (Join Engine, Console, and connectors) is installed. Download and install these runtime objects from:
  http://sunsolve.sun.com/pub-cgi/findPatch.pl?patchId=108434&rev=13

Installing on Solaris

CAUTION	This recommendation must be reviewed before you begin installing Meta-Directory on Solaris-based machines.

Install in *different* server roots, when installing Meta-Directory 5.1.1 with Directory Server.

Installing on Windows

CAUTION	These are important notes to consider when installing Meta-Directory 5.1.1 on Windows-based machines. (#4878333)

- When installing **Meta Directory 5.1.1** on the same machine where **Directory Server 5.1 (any service pack installed)** is installed, you must choose a directory *different* from the Directory Server installation.

  - Or -

- When installing **Meta Directory 5.1.1** on the same machine where **Directory Server 5.2** is installed, you must choose the *same* directory where the Directory Server is installed.

Compatibility Issues

- Ensure that you review the following compatibility constraints when using Oracle 9.2.0 with Meta-Directory 5.1.1:

  On Solaris

  ❍ Oracle 9.2.0 32 bit server and 32 bit client is compatible

  ❍ Oracle 9.2.0 32 bit client and Oracle 9.2.0 64 bit server is compatible

  ❍ Oracle 9.2.0 64 bit client/server only is *not* compatible

  On Windows

  ❍ Oracle 9.2.0 32 bit server and 32 bit client is compatible

- Meta-Directory does not support Windows 2003 Active Directory

Documentation Updates for Meta-Directory 5.1.1

- Documentation has been corrected to state the correct compatibility for Novell eDirectory 8.7.

- Documentation has been corrected to state the correct compatibility for Netscape Directory Server 4.x.

- Key concepts and an introduction to the various components of Meta-Directory has been consolidated in the new Product Brief manual. See *Sun ONE Meta-Directory 5.1.1 Product Brief* for more information. Part number: 817-3895-10.

Installation Guide

- Information on performing the upgrade procedure for this release of Meta-Directory has been enhanced. See Chapter 5 of the *Sun ONE Meta-Directory 5.1.1 Installation Guide*, for information.

- Important information on uninstalling Meta-Directory on Windows has been enhanced in Chapter 6 of the *Sun ONE Meta-Directory 5.1.1 Installation Guide*.

- Before installing this release of Meta-Directory, ensure that you review the hardware and software prerequisites. For more information, see the "Supported Platforms Overview" in Chapter 1 of the *Sun ONE Meta-Directory 5.1.1 Installation Guide*.

Administration Guide

- Name has changed from *Sun ONE Meta-Directory Configuration and Administration Guide* to *Sun Meta-Directory Administration Guide*.

- Procedure to use the Solaris 9 libthread on Solaris 8 is documented in the *Sun ONE Meta-Directory 5.1.1 Administration Guide*. For information on this, see *Appendix C, Table C-15* in the *"Common Problems"* section. (#4912514)

Known Issues and Limitations

This section contains a list of the known issues with Meta-Directory 5.1.1. The following product areas are covered:

- Uninstallation

- Upgrading from Prior Meta-Directory Versions

- Installation

- General

- Configuration

- Console

- Join Engine

- Connectors

Uninstallation

Uninstallation of Meta-Directory 5.1.1 on Windows damages Directory Server 5.2 (#4884333)

When Directory Server 5.2 is installed in the same SERVER_ROOT (file system directory) as Meta-Directory 5.1.1 (prerequisite when installing on Windows-based machines), uninstalling Meta-Directory 5.1.1 will damage Directory Server 5.2.

Workaround
When uninstalling Meta-Directory, do not select the Server-Core Components and Administration Services options from the list of components.

For more information, see the detailed procedure described in the "*Uninstalling Meta-Directory 5.1.1 and Directory Server 5.2 if they Cohabit*" section in the *Meta-Directory 5.1.1 Installation Guide.*

The changelog tables from the Oracle database are not removed after performing the uninstallation operation (#4886138)

Uninstalling Meta-Directory without uninstalling the Oracle connector instances results in the changelog tables not being deleted from the Oracle database.

Workaround
Before you begin uninstalling Meta-Directory, delete the configured Oracle data servers. This generates the `uninst_<dataserver>.sql` files. Execute these *.sql files to remove the changelog database. For information on removing the sql files, see the Oracle documentation.

The 'Join Engine' service and the installation directory structure on Windows are not removed after performing the uninstallation operation (#4895462)

Workaround
Ensure that you stop the 'Join Engine' service (from Start > Control Panel > Administrative Tools > Services) before you run the uninstallation program.

After uninstalling Directory Server 5.2 on Solaris-based machines, the uninstallation operation fails when attempting to uninstall Meta-Directory (#4949894)

'ERROR. Failure uninstalling Meta-Directory Join Engine' may occur when uninstalling Meta-Directory. This occurs because the uninstallation program is attempting to locate the configuration directory which was available on Directory Server 5.2.

Workaround
Before you uninstall Meta-Directory, ensure that the Directory Server containing the configuration directory is available.

For specific details on uninstalling Meta-Directory on Solaris-based machines, see Chapter 6 in the *Meta-Directory 5.1.1 Installation Guide.*

When the Meta-Directory Console is running, if the uninstallation program is executed, the 'java.lang.ArrayIndexOutOfBoundsException' occurs (#4958843)

Workaround
Before attempting to uninstall Meta-Directory, ensure that you stop all the Meta-Directory Console instances, all connector instances, and the Join Engine.

A message that contains a typographical error is displayed during the uninstallation of Meta-Directory (#4950674)

When attempting to uninstall Meta-Directory with the Directory Server shutdown, the 'A serious problem occurred while uninstalling the Meta-Directory Join Engine Meta-Directory Join Engine. It reported the following problem: No value exists for the name 'ConfigDirectoryLdapURL' error message is displayed. 'Meta-Directory Join Engine' is incorrectly repeated twice in the error message.

Upgrading from Prior Meta-Directory Versions

After upgrading to Directory Server 5.2 and Meta-Directory 5.1.1 from Directory Server 5.1 and Meta-Directory 5.1, the user directory port is displayed incorrectly (#4930118)

After the upgrading and changing the new Directory Server port to a port number of the earlier Directory Server, Meta-Directory Console continues to display the new Directory Server port number prior to the upgrade.

After upgrading from Meta-Directory 5.0.1 SP1, an empty server group of Meta-Directory 5.0.1 is displayed in the Console (#4899786)

When upgrading from Meta-Directory 5.0.1 SP1 to Meta-Directory 5.1.1 (on Solaris-based machines with Directory Server 5.1 SP2), an empty server group of Meta-Directory 5.0.1 is displayed in the Console. This server group does not contain any content nor any component.

Executing the upgrade script without any parameters does not display an error message nor prompts you to enter the required parameters (#4942383)

The upgrade script does not validate whether any of the parameters are specified while executing the script.

Workaround
Ensure that you enter all the required parameters while executing the upgrade script. For more information on the required parameters, see the "Upgrading to Meta-Directory 5.1.1" chapter in the *Meta-Directory 5.1.1 Installation Guide.*

Perl scripts that are used to configure the Universal Text Parser are not updated to the latest version

Workaround
When upgrading to Meta-Directory 5.1.1, update the perl scripts manually.

After upgrading from Directory Server 4.16 to Directory Server 5.2 and Meta-Directory 5.0 to Meta-Directory 5.1.1, the 'No nsHosts found in this admin domain' error occurs (#4977282)

This occurs when the upgrade script is executed with the 'restore' parameter (upgrade -R). The upgrade operation fails.

The default decompression program could fail to decompress the upgrade script binaries (#4928711)

When performing the upgrade operation, the upgrade script uses a command-line program to decompress the binaries. The upgrade operation fails if the upgrade script does not locate this program.

Workaround
Execute the script with the required parameters. When prompted for the command-line decompression program, make sure that you manually point to the location of the program. Once the files are decompressed, run the upgrade script manually from the directory where the script files was decompressed. For more details on this procedure, see the "Step by Step Upgrade Example" section in Chapter 5 of the *Meta-Directory 5.1.1 Installation Guide.*

After upgrading from Meta-Directory 5.0 (SP1-P1) to Meta-Directory 5.1.1, the Console files of version 5.0 are not uninstalled on Windows (#5038214)

The Console files of Meta-Directory 5.0 are not removed from the *Directory_Server_Root*, after uninstalling Meta-Directory 5.0. Due to this issue, after upgrading from Meta-Directory 5.0 to Meta-Directory 5.1.1, two options to access the Console are available in the Program Files menu (click Start > Program Files). The Program Files menu displays the iPlanet Server Products > iPlanet Console 5.1 and the Sun ONE Server Products > SunONE Server Console 5.1.1 options to access the Console. (The iPlanet 5.0 Console will not work correctly if it is used to perform the configuration related operations.)

Workaround
Ensure that you click Start > Program Files > Sun ONE Server Products > SunONE Server Console 5.1.1 to start the Console. Use only this option to perform all the Console related operations.

After upgrading to Meta-Directory 5.1.1, the NT Domain connector does not start as the administrator of the NT domain automatically on Windows (#5039688)

The upgrade script successfully creates the connector and the required service for the NT Domain connector, however, the NT connector service does not automatically log on as the administrator of the NT domain. The connector cannot be used to flow the data.

Workaround
Click Start > Control Panel > double-click Services > display properties for NT Connector service. Edit the Logon User properties. Specify the appropriate Administrator credentials for the connector service.

After upgrading to Meta-Directory 5.1.1, filter rules created using prior versions of Meta-Directory may not be displayed correctly (#5038222)

The filter rules created using 'All Subtrees Except' and 'No Entries Except' option in prior versions of Meta-Directory will not display the rules correctly in the Filter configuration window (for example, in Join Engine > Filter Rules window). This is only a user interface issue. The filter rules will function correctly.

Workaround
After performing the upgrade operation, you must review the filter rules manually and remove the incorrectly displayed rules.

After upgrading to Meta-Directory 5.1.1, when attempting to start the Active Directory or Exchange connector, the 'Failed to get root DSE' error is displayed (#5039681)

Due to this error, the Active Directory connector does not flow the data.

Workaround
Create a temporary Active Directory connector (which is not used to flow data), and then copy the `ADC.DAT` file from its present configuration directory to the configuration directory of the original Active Directory connector (that existed before the upgrade operation).

When upgrading from Meta-Directory 5.1 to Meta-Directory 5.1.1, the operation does not complete if the Oracle Connector View has large number of entries (more than 500K) (#5038230)

Workaround
Disable the retro-changelog plug-in and then backup the `cn=proxy views,ou=5,ou=meta-directory,ou=global preferences,ou=<`*admin-domain*`>,o=netscaperoot` tree using the `ldapsearch` command. Once completed, delete the `cn=proxy`

views,ou=5,ou=meta-directory,ou=global preferences,ou=*<admin-domain>*,o=netscaperoot tree using the ldapdelete command. Perform the upgrade operation using the upgrade.pl script. Once completed, restore the cn=proxy views tree from the backed up data and then enable the retro-changelog plug-in.

For complete details on executing this procedure, see *Problem 1* under the *Troubleshooting* section in Chatper 5 of the *Meta-Directory 5.1.1 Installation Guide*.

Upgrade.pl fails to upgrade to Meta-Directory 5.1.1 when the configuration (NetscapeRoot) is shared (#5045826)

Workaround
Backup the Meta-Directory configuration and the File Systems, and then uninstall Meta-Directory. Once completed, install Meta Directory 5.1.1, restore the configuration and File Systems from backed up data, and then add new the configuration elements. Once completed, create the Windows Service (for Windows-based system only).

This procedure is described in detail in Chapter 5 of the *Meta-Directory 5.1.1 Installation Guide*. See *Problem 2* under the *Troubleshooting* section, for more information.

Installation

The installation program fails when installing specific components such as Novell or Lotus Notes (#4798001)

This issue occurs because the installation program does not automatically select the components that Novell and Lotus Notes connectors require. The dependent components for Novell, Lotus, and all the UTC-based connectors (Exchange connector, Active Directory connector, and so on) are the 'Server Core Components', 'Administration Services', 'nsperl', and the 'Sun ONE Console'.

Workaround
You must manually select these components, when installing the Novell, Lotus, and the UTC-based connectors.

Unable to start or stop the Directory Server using the Console on Windows-based machines (#4995500)

This occurs because an incorrect administration domain was specified in the Login dialog box, when Meta-Directory was installed.

Workaround
When installing Directory Server 5.2 and Meta-Directory 5.1.1 on the same Windows-based machine, ensure that the administration domain is the same as the system domain.

Meta-Directory 5.1.1 installation fails to install the components if LD_LIBRARY_PATH was set to *Directory_Server_Root*/lib (#4798082)

If the LD_LIBRARY_PATH environment variable is set to the *Directory_Server_Root*/lib path, then after an installation of Meta-Directory 5.1.1, the 'Create Instance of' operation is disabled and, the Join Engine and connectors cannot be created.

Workaround
Remove the reference of *Directory_Server_Root*/lib from the environment variables PATH and LD_LIBRARY_PATH on Solaris and from PATH on Windows, and then install Meta-Directory 5.1.1.

After installing Meta-Directory 5.1.1, Administration Server fails to start on Windows-based systems (#5043790)

This issue occurs on restarting the machine (containing Directory Server 5.2 with HotFix1 installed) after installing Meta-Directory 5.1.1. The *Administration Server* service does not start either automatically or manually nor can the Console be used to perform any operation.

Workaround
Before you install HotFix1 of Directory Server 5.2, remove all the registry keys associated with the Administration Server. After installing the Directory Server with HF1, be sure to restart the system before you begin the installation of Meta-Directory 5.1.1.

General

The rename (ModRDN) operation on non-owned entries is not supported by indirect connectors such as Exchange, Novell, or the Notes connector

The Join Engine, Oracle connector, and direct LDAP connectors can perform the rename (ModRDN) operation on non-owned entries.

Selecting an external attribute does not automatically select the corresponding Connector View attribute for the 'To Connector View' flow direction (#4847813)

The user interface does not display the attributes automatically.

After a connector instance is created, no message is displayed prompting you to enable the retro-changelog plug-in before you begin using the instance (#4798636)

When creating the Novell connector instance if the Enable Changelog Later option is selected, a confirmation message displays 'Instance Creation Succeeded'. Although the connector instance is created, the instance cannot be used until the retro-changelog plug-in is enabled.

To enable the retro-changelog plug-in, from the Directory Server Console > select Configuration > Plug-ins > click Enable Plug-in > select Retro-changelog Plug-in and click Save.

Instead of only the selected Connector, 'Save' operates on all the similar connector instances (#4777417)

The 'Default' and 'minimal' configuration settings of a connector can be added, modified, or deleted, although it is not recommended (#4801455)

When setting the Attribute Flow and Object Class Flow options, the 'default' and 'minimal' sets (any Connector > select Attribute Flow > select the Configuration > click Add or Delete) can be added, modified, or deleted. Although permitted, do not add, modify, or delete the 'default' or 'minimal' set. This may result in improper functioning of the connector.

Unable to delete entries from the Directory Server 4.16 Connector View (#4946127)

If you add an entry to the LDAP 4.16 Connector View, and then attempt to delete the entry from the Meta-Directory Console, the 'No such object' error is displayed.

Performing the refresh operation from the Directory Server 4.16 Connector View to the Meta View does not display the information about the group members (#4945383)

If an entry and a group is added to the Connector View, and then a member is added to this group as a new entry, synchronizing to the Meta View only displays the 'member name'. The 'Member user ID' is not displayed although the entry and group was synchronized.

When attempting to start the Console, the 'java.lang.IndexOutOfBoundsException' error occurs (#4935084)

This occurs if the Java 2 Standard Edition 1.4.1 or higher is not updated with the recommended Patch Clusters for Solaris-based machines. For more details, see the "Installation Notes" section.

User interface options in the Console window are partially displayed (#4955734)

For instance, you may not be able to view the DN mapping rule (in the direction of the Meta View) in the configuration window of the Participating View. The list box is not displayed. The user interface does not display the options appropriately.

Workaround
Increase the window size to view all the objects.

The administration Console attempts to stop a connector instance that has not been started (#4966320)

When you right-click a connector instance, and select Stop Server, a 'Request sent to stop the component' message is displayed although the connector is not started.

Workaround
Always use the Meta-Directory Console to start and stop the connector instances.

An error message is displayed when you click the 'Dochome' link in the Help window of the Fixittool (#4981016)

Logging on to the Fixittool and clicking Dochome from the Help window results in the 'Exception occurred during event dispatching' message.

When the fixittool.bat file is executed, the Fixittool does not start (#4981020)

This occurs if Meta-Directory is installed in the Program Files directory on Windows-based machines.

When uninstalling the Join Engine, if the associated Meta View is of the Directory Server 5.2 SP2 instance, the uninstallation operation does not remove the Meta View although it was selected to be removed (#4983989)

Workaround
Manually uninstall the Directory Server hosting the Meta View.

Two menu options for the 'Sun ONE Console' may be displayed on Windows-based machines (#4900369)

Clicking Start > Programs > Sun ONE Server Products displays two options to start the Sun ONE Console. One for the Directory Server 5.2 console and the other for the Meta-Directory 5.1.1 Console.

This occurs because Directory Server 5.2 and Meta-Directory 5.1.1 are installed in the same SERVER_ROOT (prerequisite when installing Directory Server 5.2 with Meta-Directory 5.1.1 on Windows-based machines).

Workaround
Click any option to start the Sun ONE Console.

The Help button in the Advanced Schedule dialog box is disabled (#4977282)

When defining the refresh schedule, the Help button in the Advanced Schedule dialog box (from any Participating View > Schedule tab > Click Advanced) is disabled. Online help is not available to assist you in setting the Advance Schedule options.

Workaround
For details on configuring the options in the Advanced Schedule dialog box, see the "Configuring a Participating View" section in the *Meta-Directory 5.1.1 Administration Guide*.

When any UTC-based connector instances is started without enabling the changelog, nsperlconn.exe fails to execute (#5001859)

After setting the refresh schedule, if any UTC-based connector instance (such as Exchange, Active Directory, and NT Domain) is started, 'nsperlconn.exe' fail to execute. This occurs because the changelog was not present or not enabled before the connector instance was started.

When the Console is running for a long period of time, several 'nsperl manage.pl' processes are spawned on Solaris-based machines (#5002959)

This issue occurs if many connector instances are present and if they have never been started. Due to the large number of connectors present, the `manage.pl` processes stops responding and are not killed automatically when it fails. These process could consume large amounts of the CPU.

Workaround
Start all the connectors at least once. Ensure that you install the latest Patch Clusters on the machine. For information on downloading and installing the latest Patch Cluster, see the "Installation Notes" section.

When attempting to start the Administration Server, error messages are reported in the Log files (#5011512)

Error messages such as 'failure (1151): AdmInit: Failed to create psetHandle for cn=<>, cn=nsPerl <>, cn=Server Group ()...' is reported in the Log files. These error messages do not have any impact on the normal working of the Administration Server. Ignore these messages and continue to use the Administration Server.

Meta-Directory Administration Server continuously reports errors in the log files due to failed CGI requests, on Windows-based machines (#5011713)

If the Console is running continuously for a long period of time (without being used), the 'Send-cgi reports: error occurred while sending content to script (IO already pending error)' is reported in Administration Server Log files.

Workaround
Make sure you shut down the Console, when it is not being used.

Configuration

The Join Engine processes top level DN (both Meta View and Connector View use dc=<>) when the DN mapping rules failed, the Participating View gets disabled (#4940297)

Join Engine incorrectly processes the top level suffix using the data flow rules (it applies the DN Rule or Join Rule to the top level suffix).

Workaround
Use a *selection criteria* to exclude the top level DN to avoid this issue from occurring.

When viewing log files, the Date option in the Calender cannot be modified (#4777342)

When viewing log files (Console > Status > select Join Engine > Log tab) to set a criteria (such as: date, month, and year) to display the log files (based on the criteria), the 'Date' option cannot be modified using the Calender.

Workaround
Enter the date manually to modify it.

The Meta-Directory Console does not process the 'preferredLanguage' attribute for a user (#4804790)

During creation or modification of a user, setting the 'preferred language' attribute to any value does not save the change to the Directory Server.

Workaround
Use the *LDAPModify* command-line tool to set this attribute.

Saving a modified Constructed Attribute rule fails if the rule name contains spaces (#4925860)

When creating a constructed attribute rule (Console > click Meta-Directory > Attribute Construction tab), spaces can be specified in the name. However, attempting to modify this rule and save the changes results in the 'Operation not allowed on RDN' error. The changes are not saved.

Workaround
Do not create a name with spaces in the 'Rule Name' field.

The user interface for the Refresh Schedule window does not display the modified time interval correctly for an existing refresh schedule (#4971033)

Modifications to an existing refresh schedule (click Participating View > Schedule tab) is not reflected appropriately in the Refresh Schedule window. For example, if the default refresh schedule (every 30 minutes between 0 and 23) is modified to 'every 1 minute between 0 and 23', and you click 'New', the Schedule window still displays 'every 30 minutes between 0 and 23'.

Workaround
Once a new schedule is created, click 'Update' to display the modified time interval.

A Join Rule cannot be modified if the rule name contains spaces (#4973369)

When attempting to modify a Join Rule, the operation fails if the name entered in the Rule Name field contains spaces.

Workaround
When entering a join rule name, do not use spaces in the name. For example, 'Test Rule1' is an invalid name.

An existing Attribute Flow rule gets replaced if a new rule has the same name as the existing flow rule (#4969791)

No warning message is displayed when you create an Attribute Flow rule with the same name as an existing rule. The new rule replaces the existing rule without displaying an error message.

Workaround
Verify that the name of the new Attribute Flow rule is not being used by an existing flow rule.

The Console may display the status as 'refreshing' although the Connector View is actually 'disabled' during synchronization (#4968368)

When attempting to flow two million or more entries from Oracle to the Meta View, an error 'Failed to update MDS Config to disable status' is reported in the log files. The Connector View is disabled, however, an incorrect status (as 'refreshing') is displayed in the Console.

The Meta-Directory Console window may not display all the user interface options (#4955734)

For instance, in the configuration window of the Attribute Flow tab, the drop-down list box is not displayed appropriately. User interface objects are not visible.

Workaround
Increase the window size to view all the user interface options.

Values specified in the Minute Specifier field in the Advance Schedule dialog box is reset when the Update button is clicked in the Schedule window (#4997769)

When creating the refresh schedule for a Participating View, the values specified in the Minute Specifier field gets reverted to the previous values, after you click the Update button in the Schedule window.

Workaround
Click the Save button (not the Update button), once the values are specified in the Advance Schedule dialog box (click Participating View > Schedule tab > click Advanced).

Values greater than 59 are not accepted in the minute field (every) of the Schedule window (#4997808)

When creating the refresh schedule for a Participating View, if the value entered in the minute field (every) is, for example, 70, then only 7 is displayed. The value gets truncated if the value specified is greater than 59.

Workaround
Do not enter a value greater than 59 in the minute field (every). If the value is greater than 59, enter the required value in the Minute Specifier field of the Advanced Schedule dialog box (click Participating View > Schedule tab > click Advanced).

Console

Select any connector and right-click, two menu options for Start and Stop may be displayed (#4885938)

This may occur if the Console was running for long period of time (more than a day).

An error 'java.io.EOFException: Connection Lost' is displayed, when attempting to log on to the Meta-Directory Console (#4893471)

This occurs if the Directory Server's port number is specified in the Administration URL field in the Login dialog box.

Workaround
Use the appropriate Meta-Directory's port number in the 'Administration URL' field.

The Console fails to start on a Solaris-based machine installed with Japanese locale (#4921122)

This occurs, when attempting to log onto the Console, if the recommended patches for the Solaris environment is not installed. For more information on the required patches, see the "Installation Notes" section.

When attempting to manage large number of groups in the Console, for example, 20000 entries and more, the 'java.lang.OutOfMemoryError' is displayed and the machine stops responding (#4952041)

When attempting to view the groups in the Connector View that contains 20000 and more entries, this error will occur.

Adding a new user under an existing user entry or group in the Connector View will fail with the 'java.lang.ClassCastException' error (#4966167)

From the Meta-Directory Console, when attempting to add a new user under a existing user entry in the Connector View fails.

The Console incorrectly save a new Constructed Attribute with the same name as an existing one but with a trailing space (#4968356)

For example, if a Constructed Attribute with the name 'test' exists and a new attribute is created is 'test '(having a trailing space), the Console incorrectly saves the new attribute. When flowing data, the new Constructed Attribute that contains the rule is executed. In the example, the new attribute 'test '.

Workaround
When entering the name for the Constructed Attribute rule (from the Meta-Directory Console > Constructed Attribute window), do not use a name that is being used by an existing rule. Manually verify whether the Constructed Attribute name is being used by an existing attribute.

Join Engine

Join Engine stops responding and the flow of entries gets into a cyclic loop when a ModRDN operation is executed (#4862343)

Workaround
When configuring the DCNS/Manual Refresh schedule, ensure that the poll in either directions (from Connector View to the Meta View and from Meta View to the Connector View) do not occur simultaneously.
- Or -

Deselect the options in the Capabilities settings, so that the data does not flow in the reverse direction. (Set the options either 'to the Meta View' or 'from the Connector View' direction.)

When attempting to save the DCNS schedule parameters for a data server, an error is displayed in the terminal window (#4926636)

When setting the DCNS schedule (Meta-Directory > Participating View > DCNS Schedule window), if values are not entered in any of the fields in the Schedule window, an error occurs. The schedule with blank fields can be saved, but when the Join Engine processes the schedule parameters, the blank fields are not validated and an error occurs.

Workaround
Delete this schedule. Create a new schedule; make sure that valid values are entered in all the fields of the DCNS Schedule window.

When creating the Attribute Flow rules for the Join Engine, the Rule Set is incorrectly saved although the rule did not have appropriate mappings defined to the Rule Set (#4882443)

A rule added to the Rule Set is not saved if it does not contain any mappings to the Rule Set, however the Rule Set is incorrectly saved.

Workaround
When a rule is added to a Rule Set, ensure that the rules have valid mappings to the Rule Set.

Special characters that contain '%' are not escaped, when used in the DN Mapping Rules (#4908112)

The 'Da_e_invalid_DN_syntax' error is reported in the Join Engine log file, if special characters are used when constructing DN mapping rules. The entries do not flow and the Connector View gets disabled.

Modified entries in the data source (for example, Oracle) do not flow to the Meta View if the *case* of the attribute values were changed (#4760307)

Incorrect UTF-8 configuration (character set) stops the Join Engine from processing data (#4891349)

The entries get currupted due to the incorrect character set (charset).

Workaround
Ensure that you use the correct charset. For information on UTF-8 data, see the "Using Special Characters and UTF 8 data in DN" section in Chapter 5 of the *Meta-Directory 5.1.1 Administration Guide.*

Synchronization of entries fails due to insufficient disk space and the Join Engine shuts down (#4936471)

Synchronization of entries will fail if there is no sufficient disk space. Join Engine does not prompt you when the disk space is low.

Workaround
Be sure to allocate appropriate disk space before you run an operation that involves synchronization of several thousands of entries. For details on the machine requirements, see the "Hardware and Software Requirements" section.

The Join Engine shuts down when the *refresh_unlinked* operation is executed for the Participating Views (#4926540)

This may occur if several Participating Views that are configured for the Join Engine have been set with overlapping refresh schedules for each Connector View.

Workaround
Ensure that the time interval to run the refresh operation between each Connector View is large. Do not configure overlapping schedules or have a short time interval between each refresh operation.

A scheduled refresh operation starts although the previous refresh cycle was not completed (#5007778)

This issue occurs if the time interval between two, simultaneously occurring, schedule refresh operations is small (to synchronize entries from the Connector View to the Meta View).

Workaround
Define a sufficient time interval between each *scheduled* refresh operation (Join Engine > Participating View > set parameters in the Schedule tab). Ensure that, while setting the time, the first refresh operation is completed before the second operation begins.

Modifing an entry in the Connector View results in the error 'Cannot lock entry' (#4971919)

When an entry in the Connector View is modified, on synchronization, the Join Engine is unable to retrieve information of the renamed entry. Mapping rules continues to locate the original entry (before the entry was modified).

Workaround
Make sure the settings in the Capabilities tab is set (Participating View > select a view > select Capabilities > deselect options to disable the flow to the Meta View) so that the flow of entries do not occur in the direction of the Meta View.

When perl scripts that are used to create the DN mapping rules fail, Join Engine continuous to run (#4957251)

Join Engine continues to report messages to the log files, although the Perl scripts (for example, used to create the DN mapping rules) failed to execute due an error in the script.

NOTE	Use of PERL scripts to create DN Mapping rules is not supported. For information and assistance, contact Sun Professional Services. For contact information, see the "Additional Sun Resources" section.

When performing the Break Link operation on a data of 2.5 million entries for an Oracle Database connector, memory does not get utilized effectively (#4969116)

Join Engine fails to initialize the DCNS schedule, synchronization of some of the entries in the Connector View does not occur due to the 'DCNS_E_TOO_LATE' error (#4930796)

The Connector View does not refresh the entries due to the 'DCNS_E_TOO_LATE' error.

Synchronization is delayed when entries are modified or deleted in the Connector View, when the Join Engine is performing a refresh operation (#4535865 / #4540609)

This occurs if the schedule to perform synchronization is three minutes or less between either flow directions (Connector View to external directory and external directory to Connector View). The Join Engine does not process the changes in the Connector View until it checks the changelog three times for all the modified entries. This could delay the synchronization of the entries.

Workaround
Do not modify or delete entries in the Connector View, when the Join Engine is performing a refresh operation.

When performing synchronization with multiple connectors enabled, a Connector View gets disabled and flow of entries stops (#4878283)

This occurs if the each Connector View (an Oracle Connector View, LDAP Connector View, and Universal Text Connectors such as Exchange and Active Directory) contains 50K or more entries. Due to the voluminous data in each Connector View, during synchronization, a Connector View can get disabled and the flow of entries could stop.

Workaround
Perform the synchronization operation for each Connector View individually. Do not enable all the Connector Views, when attempting to perform bi-directional synchronization with multiple Connector Views.

Connectors

Lotus Notes Connector

When creating a connector instance, the values entered in the 'Notes Cert ID Password' and 'Domino Server Name' fields are not validated (#4798167)

If incorrect values are entered in these fields (in the New Instance dialog box), the connector instance is created but an accurate data flow does not occur when the connector is used.

Workaround
Verify whether the values entered in the 'Notes Cert ID Password' and 'Domino Server Name' fields are correct.

The Lotus Notes connector does not work with Lotus Notes 5.0.11

The LDAP schema search does not work due to a known issue in Lotus Notes 5.0.11.

The Lotus Notes connector does not synchronize access rights and roles

Special characters used when entering the *baseDN* values are not escaped for the Connector View (#4927368)

If special characters such as $ # % & are entered in the *baseDN* values, then problems may occur during retrieval of changes from the changelog maintained by the retro-changelog plug-in in Directory Server 5.2.

Workaround
Ensure that the *baseDN* value does not contain any special characters.

The schedule refresh operation does not start the operation at 2300 hours if the system time is between 2300 hours through 2400 hours (#4988288)

If the Advanced Schedule option is defined between 2300 through 2400 hours, for example, '* minutes past the hour, every 1 minute between 0 and 23 everyday', and system time is in the range between 23 through 24 hours, then the connector does not flow the data to the Connector View (from the example, after 1 minute from the time it started). It starts the data flow at 00.00 hours.

The Lotus Notes connector shuts down when flowing large volumes of entries from the Connector View to the external directory (#4910198)

This occurs due to a bug in Lotus Notes 6.0.1.
When external to directory synchronization is performed, if the Lotus Notes 6.0.1 server has large volumes of entries (more than 1000) and a Lotus Notes connector is created to connect to the server, the connector shuts down with 'Limit on the number of entries or the time was exceeded in ldap search results' error. The 'exception' occurs as *LDAPsearch* is executed on the Lotus Notes directory (6.0.1) although the *timelimit* to search and *sizelimit* on the number of entries to return is set to *unlimited.*

After reinstalling Meta-Directory, creating a Lotus Notes connector instance fails when the same parameters of the prior Meta-Directory installation is used (#4927307)

If you enter the same parameters that were used to create the connector instances of the previous Meta-Directory installation, this problem occurs. Information about the previous connector instances are not automatically removed from the MySQL database when Meta-Directory is uninstalled.

Workaround
Before you uninstall the Lotus Notes Connector instances, remove each connector instance individually using the 'Remove Server' option from the Meta-Directory Console. This cleans the file system, registry (on Windows), configuration-directory, Connector Views, and the created items (new database and users) from the MySQL database.

Importing an ldif file into the Connector View through initialization fails to synchronize the entries to the external directory (#4981715)

When a `ldif` file is created using *makeldif* and imported to a Connector View using the `initialize` command in Directory Server 5.2, the entries do not get synchronized to the external directory.

Workaround
Create the `ldif` file using *makeldif* and then use an *LDAPbrowser* to import the entries to the Connector View. Now perform the synchronization to the external directory.

Novell eDirectory Connector

Special characters used when entering the *baseDN* values are not escaped for the Novell Connector View (#4927368)

If special characters such as $ # % & are used when entering the *baseDN* values, then problems could occur during retrieval of changes from the changelog maintained by the retro-changelog plug-in in Directory Server 5.2.

Workaround
Do not use special characters when entering the *baseDN* values.

The Log files could display an incorrect 'last modified' time (#4807643)

The last modified time of the log files is not displayed correctly, although the content in the log files is updated correctly.

When sufficient disk space is not available to complete the synchronization operation, the connector does not shut down gracefully (#4969161)

The connector stops responding, and the status is displayed as 'Down' in the Statistics tab. Log files do not contain any specific information on the cause.

Schedule refresh operation does not start the operation at 2300 hours if the system time is between 2300 hours through 2400 hours (#4988288)

If the Advanced Schedule option is defined between 2300 through 2400 hours, for example, '* minutes past the hour, every 1 minute between 0 and 23 everyday', and system time is in the range between 23 through 24 hours, then the connector does not flow the data to the Connector View (from the example, after 1 minute from the time it started). It starts the data flow at 00.00 hours.

Values of the 'uniqueMember' attribute for group entries do not flow from the Connector View to the external directory (#4899965)

This occurs due an incorrect attribute mapping for the 'Member' attribute in the 'LDAP Group Object' in the Novell eDirectory server.

Workaround
Modify the attribute mapping for the Novell eDirectory server attribute 'Member' in the 'LDAP Group Object', by specifying 'uniqueMember' as the 'Primary LDAP Attribute' and 'member' as the 'Secondary LDAP Attribute'. Restart the Novell eDirectory server. This schema change allows the 'uniqueMember' attribute for group entries to flow from the Connector View to the external directory.

After reinstalling Meta-Directory, creating a Novell eDirectory connector instance fails when the same parameters of the prior Meta-Directory installation is used (#4927307)

If you enter the same parameters that were used to create the connector instances of the previous Meta-Directory installation, this problem occurs. Information about the previous connector instances are not automatically removed from the MySQL database when Meta-Directory is uninstalled.

Workaround
Before you uninstall the Novell eDirectory connector instances, remove each connector instances individually using the 'Remove Server' option using the Meta-Directory Console. This cleans the file system, registry (on Windows), configuration-directory, Connector Views, and the created items (new database and users) from the MySQL database.

When performing the Manual Refresh operation, the data is deleted from the Connector View immediately but this data is not added again to the Connector View until the next Scheduled Refresh cycle is performed (#5012391)

This leads to reduced performance of Meta-Directory.

NT Domain Connector

Filters settings do not work for the 'To NT Connector View' flow direction although the options can be set in the 'Filter Configuration' window (#4930120/ #4994284)

NT SAM does not store data in the form of subtrees. Due to this, irrespective of the filter settings defined in the direction of the NT Connector View, *all* the data from NT SAM flows to the Connector View.

The group members in NT SAM do not get added to an existing group in the Connector View (#4929445)

Adding existing members in NT SAM to a group in the Connector View fails. The members are not added to the group.

Workaround
When creating a group in the Connector View, the group must have the `ntGroupDomainID` attribute set (this attribute is present in the `ntGroup` auxilliary objectclass in the Directory Server).

Data is synchronized after the specified End Hour value if the Till Hour value is not specified (#4917839)

When setting the Schedule parameters, if the Till Hour value is not specified, then on synchronization, data gets updated even after the specified End Hour value.

When creating a connector instance, if an invalid domain is entered in the 'NT Domain' field, the instance will still be created (#4906612)

This connector cannot be used to flow data although it was created.

Workaround
Use a valid domain name when creating the connector instance.

When the status of the NT Domain Connector View is viewed, the Console may display an incorrect status as either Stopped or Unknown although it is actually in the Started state (#4914849)

When the Connector View is started and if the server status is viewed using the Administration Console, the status is displayed is either Stopped or Unknown although the connector is actually in the 'started' state.

The specified NT Logon hours do not flow correctly (#4993473)

The NT Logon hour is not the same as the one specified, if the time zone is different on the NT PDC and the machine on which Meta-Directory is running.

Active Directory and Exchange Connector

Connector must run in the *full-dump* mode to modify a RDN entry or rename a non-owned entry. The default mode *incremental* does not work

Workaround
If the entry is modified or renamed, run the connector instance in the *full-dump* mode to propagate the change from Active Directory to the other data sources.

Groups are not flown from the Connector View to Active Directory if the group contains one or more non-existing members (#4899803)

This occurs because Active Directory does not allow a group to contain non-existent members.

Workaround
Enable the 'Referential Integrity PostOperation' plug-in in the Directory Server. To enable the plug-in, from the Directory Server Console > select Configuration tab > select Plug-ins > click Enable Plug-in > select Referential Integrity PostOperation from the list > click Save.

The Console stops responding if the Refresh option in the Log tab is selected when viewing the log files (#4915668)

This occurs if the value entered in the 'Lines to Show' field (Console > Status > Log tab) to display the log files is very large.

Workaround
Set a lower value in the 'Line to Show' field.

Entries that contain the special character *hash* (#) in the DN value (owned by the Connector View) do not flow to Active Directory (#4913269)

When entry created in the Connector View has a DN value that contains the special character *hash* (#), for example, dn=CV#$%#@#$%, then this entry does flow from the Connector View to Active Directory.

Workaround
Do not use the special character *hash* (#) when entering the DN value.

Entries created in the Connector View with more than one value for the 'description' and 'mail' attribute do not flow to Active Directory (#4916406)

This occurs because the 'description' and 'mail' attribute are declared as multi-valued attributes in the Sun ONE Directory Server, however these attributes are considered as single-value attribute in Active Directory.

Workaround
Do not use multiple values when creating the entry in the Connector View.

The 'manager' attribute value does not flow from the Connector View to Active Directory (#4913396)

Database Connector

Refreshing only the unlinked entries in the Oracle Connector View operation could take a long to complete the operation (#4645846)

When the refresh all *unlinked* entries in the Oracle Connector View operation is executed, the Join Engine processes all the entries in the Connector View instead of only those entries that are not linked. This operation could take a long time to complete if the data is large, for example, 100K entries and more.

The Oracle Database connector does not flow entries from tables that have composite primary keys (#4973371)

The Connector View gets disabled when flowing entries that contain composite primary keys.

Workaround
Do not use composite keys in an entry.

NOTE	Contact Sun Software Support services to receive a *Hotfix* that resolves this issue. This patch is not included in the Meta-Directory 5.1.1 release.

Unable to flow large number of entries or cannot instrument a table that contains several columns (large scheme) (#4970340, #4781607)

This may occur if the Database connector is attempting to retrieve a very large schema. When attempting to instrument columns (Data Server > select the appropriate data server > select Columns > Add 'Instrumented Columns') for an Oracle data server, a 'timeout' error may occur.

The Oracle Database Connector View gets disabled if continuous modification to the entries is occurring in the database during synchronization (#4926600)

After an uninstallation of the database, creating an data server similar to the previous data server (database) will fail (#4970348)

When you attempt to create a data server similar to the previous data server instance (prior to the uninstallation of database), an error 'Changelog is not configured for the user' message is displayed. This occurs because the changelog still contains the information of the previous data server although the schema is successfully removed.

Universal Text Connector

Only the new users flow when the manual refresh operation is executed although a refresh all entries operation is executed (#4790531)

After creating some users, groups, and organization entries in the Connector View, perform the manual refresh operation to flow all the entries (Universal Text Connector > Status tab > select Refresh Updates to the External Directory > from the dialog box, select the '*Repropagating all Existing Entries in the Connector View to External Directory Immediately*' option). It does not flow *all* the entries, instead only the newly created users flow to the external file (*.out).

For more information on the refresh operation, see "Refreshing the External Data or Connector View" section in Chapter 2 of the *Meta-Directory 5.1.1 Administration Guide.*

When entries containing the leading backslash (\) are modified in the Connector View, the 'Cannot Save to Directory Server, netscape.ldap.LDAPException:error result (68);Already Exists' is displayed (#4787549)

This occurs when the Meta-Directory Console or Directory Server Console is used to modify the entries that contain leading spaces.

Workaround
Modify these entries with other *LDAP browsers* or using *LDAPmodify*.

The schedule time is incorrectly processed if a non-integer, for example, 0.1 or 0.5 is entered in the minute field of the Schedule window (#4716732)

When setting the schedule (Universal Text Connector > select a Connector View > select the Schedule tab), if the value entered, for example is 0.5, then on synchronization the contents of the *.out file is updated only after 5 minutes. Only a whole integer must be entered in the minute field, the minimum value for the minute field is 1 minute.

The Console stops responding if the Refresh option in the Log tab is selected when viewing the log files (#4915668)

This occurs if the value entered in the 'Lines to Show' field (Console > Status > Log tab) to display the log files is very large.

Workaround
Set a lower value in the 'Line to Show' field.

When an input file is not available, and if a refresh operation (to the external directory) is performed, all the data from the Connector View is deleted (#4977992)

This occurs when no input file is present and a manual refresh operation (Console > select Status > select an UTC instance > select Operation > select Refresh > select Update the > from the list box, select External Directory) is executed.

Connector shuts down during synchronization of 500K and more entries from the Connector View to the external directory (#4979945)

The quotations in an attribute value of an entry are improperly placed in the *.out file after synchronization (#4989288)

When flowing data from the Connector View to the external directory (*.out file), if an entry had open and closed quotation marks, then the entry in the *.out file contained improperly placed quotes. For example, if an entry had an initial attribute value defined as `"description"`, then after flowing the data this value is " " `description`.

The log files are not created if the Log Level is changed from the *Off* or *Debug* mode to the *Normal* mode (#4997052)

During synchronization of data from the external file to any Connector View, if the log level is modified from the *Off* or *Debug* mode to the *Normal* mode, no information is reported in the log files.

Workaround
In the *Normal* mode (Join Engine > select Log > select Log Level > select Normal), restart the connector instance to generate the log files.

When processing the data file, 'nsperlconn.exe' could consume high CPU (#4972618)

This occurs because the connector process the data file without detecting whether the entries have been modified since the last scheduled synchronization cycle. This could lead to high CPU usage and reduced performance of Meta-Directory.

When the Connector View contains 50K entries and more, then during bi-directional synchronization the memory utilization is very high and the synchronization operation may not complete (#4997711)

This issue occurs only during the first instance of synchronization of entries using the Universal Text Connector.

Workaround
When running the synchronization operation for the first time, perform the operation in uni-directional mode (either from the Connector View to the external directory or the external directory to the Connector View direction), and then perform the operation in the other direction.

Redistributable Files

Sun ONE Meta-Directory 5.1.1 does not contain any files which you can redistribute.

How to Report Problems and Provide Feedback

If you have problems with Sun ONE Meta-Directory, contact Sun customer support using one of the following mechanisms:

- Sun Software Support services online at
  http://www.sun.com/service/support/software/

  This site has links to the Knowledge Base, Online Support Center, and ProductTracker, as well as to maintenance programs and support contact numbers.

- The telephone dispatch number associated with your maintenance contract

So that we can best assist you in resolving problems, please have the following information available when you contact support:

- Description of the problem, including the situation where the problem occurs and its impact on your operation

- Machine type, operating system version, and product version, including any patches and other software that might be affecting the problem

- Detailed steps on the methods you have used to reproduce the problem

- Any error logs or core dumps

Sun Welcomes Your Comments

Sun is interested in improving its documentation and welcomes your comments and suggestions. Use the web-based form to provide feedback to Sun:

http://www.sun.com/hwdocs/feedback

Please provide the full document title and part number in the appropriate fields. The part number is a seven-digit or nine-digit number that can be found on the title page of the book or at the top of the document. For example, the part number of these Release Notes document is 817-3899-10.

Additional Sun Resources

Useful Sun Java Enterprise System information can be found at the following locations:

- Sun ONE Meta-Directory Documentation
  http://docs.sun.com/db/coll/S1_MetaDir_511

- Sun Java Systems Directory Server Documentation
  http://docs.sun.com/db/prod/2121#hic

- Sun Java Enterprise System Documentation
  http://docs.sun.com/db/prod/entsys#hic

- Java Enterprise System Software Services
  http://www.sun.com/service/products/software/javaenterprisesystem/

- Sun Java Systems Software Products and Service
  http://www.sun.com/software

- Sun Java Systems Support and Knowledge Base
  http://www.sunsolve.sun.com

- Sun Support and Training Services
  http://www.sun.com/supporttraining

- Sun Developer Information
  http://developers.sun.com/

- Sun Developer Support Services
  http://www.sun.com/developers/support

- Sun Software Data Sheets
  http://wwws.sun.com/software