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Installation Instructions for Identity Synchronization for Windows 6.0 Service Pack 1

May 2011

This technical note covers the following topics:

- [“About Identity Synchronization for Windows 6.0 Service Pack 1” on page 2](#)
- [“Bugs Fixed in Identity Synchronization for Windows 6.0 Service Pack 1” on page 2](#)
- [“Obtaining Identity Synchronization for Windows 6.0 Service Pack 1” on page 4](#)
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Revision History

The following table describes the changes in versions of this document.

Date	Description of Changes
May 2011	Identity Synchronization for Windows in ODSEE 11gPS1 delivers JDK 5.0_u29 and Message Queue 4.3. See “Installation Instructions” on page 7 .
July 2010	Initial release

About Identity Synchronization for Windows 6.0 Service Pack 1

Identity Synchronization for Windows 6.0 Service Pack 1 provides a number of bug fixes. The service pack is available as a patch that is designed to be applied on top of Sun Java System Identity Synchronization for Windows 6.0, with a migration procedure to upgrade to Service Pack 1.

Sun Java System Identity Synchronization for Windows 6.0 is a component of the Sun Java System Directory Server Enterprise Edition 6.x product. It is also part of Sun Directory Server Enterprise Edition 7.0. Customers running Identity Synchronization for Windows through Directory Server Enterprise Edition 7.0 should migrate to Identity Synchronization for Windows 6.0 Service Pack 1.

Identity Synchronization for Windows 6.0 Service Pack 1 is also available as a full install for customers running Oracle Directory Server Enterprise Edition 11g Release 1 (11.1.1).

To migrate or to install Identity Synchronization for Windows 6.0 Service Pack 1 on this platform, see the [“Installation Instructions” on page 7](#).

Bugs Fixed in Identity Synchronization for Windows 6.0 Service Pack 1

This section lists the bugs fixed since the last release of Identity Synchronization for Windows 6.0 Service Pack 1.

TABLE 1 Bugs Fixed in Identity Synchronization for Windows 6.0 Service Pack 1

Bug ID	Description
6501874	Synchronization of account lockout from Directory Server to Active Directory fails if <code>pwdcompat</code> mode is set to 2 or 4.
6544353	Improvements to the mapping of the attribute <code>pwdlastset</code> is mapped in the Directory Server and also to Directory Server plug-in logic.
6572575	A run-time exception occurs during resynchronization of a group when the user is not located at the same level.

TABLE 1 Bugs Fixed in Identity Synchronization for Windows 6.0 Service Pack 1 (Continued)

Bug ID	Description
6691600	Linking between Directory Server and Active Directory fails for entries that contain auxiliary object classes.
6709099	The <code>dspPluginconfig</code> subcommand fails to configure the correct SUBC value for the Identity Synchronization for Windows plug-in.
6721443	The Identity Synchronization for Windows connector can fail with a null pointer exception if the debug log is enabled.
6725352	The Identity Synchronization for Windows connector can fail unexpectedly while acquiring a synthetic boolean value.
6728359	Group synchronization from Directory Server to Active Directory can fail if the number of members exceeds 1000.
6728372	During group synchronization between Directory Server and Active Directory, group members can be discarded if the members are not present in the same level of group on both systems.
6740714	The maximum number of values that can be retrieved from a multivalued attribute in a single search request on Active Directory is 1500 values.
6740715	Resynchronization fails for a group entry from Directory Server to Active Directory because of RDN member value.
6744089	Member changes from Directory Server 6 to Active Directory are converted incorrectly.
6749286	A very large log message is stored in the audit log for large static group synchronization.
6749294	A connection can fail because of a timeout issue for large static group.
6749923	The Domain Global Security group is repeatedly created during resynchronization from Directory Server to Active Directory.
6758690	An attempt to synchronize an attribute with an empty string value fails.
6762863	The Domain Global Security group is repeatedly created during resynchronization from Directory Server to Active Directory for non-English locales.
6773492	The Identity Synchronization for Windows connector restarts repeatedly when it cannot parse the <code>Ret rochange</code> log entry.
6793036	Group synchronization from Active Directory to Directory Server can fail if the DIT root is chosen as the synchronization root.
6796659	Resynchronization can fail when group synchronization is enabled.
6854004	The Directory Server connector can hang when managing RCL entries.
6874400	A misleading error can appear in installation logs.
6874406	The admin server can fail to start in a zip installation because of an incorrect lib being installed.
6894663	Message Queue 3.7 UR1 fails to start on Windows.
6894665	The Identity Synchronization for Windows core installation on Windows halts because the Message Queue EE version check fails.
6894674	The Identity Synchronization for Windows core installation fails to get Message Queue 4.3 version information and cannot complete.
6896176	After patching, Identity Synchronization for Windows 6.0 does not create or synchronize groups while the <code>Posixaccount</code> auxiliary object class is in use.
6896326	The Identity Synchronization for Windows core installer fails to stop Message Queue 4.3 in post-installation processing.
6896331	Synchronization stops due to the <code>JMSException</code> SSL hand shake failure in Message Queue 4.3.
6916038	The password for <code>cn=Directory Manager</code> appears in the clear in Identity Synchronization for Windows install logs.

TABLE 1 Bugs Fixed in Identity Synchronization for Windows 6.0 Service Pack 1 (Continued)

Bug ID	Description
6926460	Adding a large number of group members can cause Identity Synchronization for Windows to fail.

Obtaining Identity Synchronization for Windows 6.0 Service Pack 1

Identity Synchronization for Windows 6.0 Service Pack 1 is available as an installation patch on the Oracle Support web site, and is also bundled with the Oracle Directory Server Enterprise Edition 11g Release 1 (11.1.1) software.

Downloading the Patch from Oracle Support

To download the installation patch from the [SunSolve \(http://support.oracle.com\)](http://support.oracle.com) web site, use the following table to identify the patch numbers and zip files for each supported operating system.

TABLE 2 Identity Synchronization for Windows 6.0 Service Pack 1 Patches

Operating System	Patch Number	Zip Patch File
Solaris 9,10 SPARC	144589-01	isw.6.0.sp1.solaris.sparc.zip
Solaris 9 x86 Solaris 10 x86 and AMD x64	144590-01	isw.6.0.sp1.solaris.x86.zip
Red Hat Linux 3.0 Red Hat Linux 4.0	144591-01	isw.6.0.sp1.linux.zip
Windows	144592-01	isw.6.0.sp1.windows.zip

Obtaining the Software as Part of Oracle Directory Server Enterprise Edition

Download the Oracle Directory Server Enterprise Edition 11g Release 1 (11.1.1) software, as described in the [Oracle Fusion Middleware Release Notes for Oracle Directory Server Enterprise Edition](#).

Install Oracle Directory Server Enterprise Edition 11g Release 1 (11.1.1), as described in the [Oracle Fusion Middleware Installation Guide for Oracle Directory Server Enterprise Edition](#).

The following table lists the contents of the `ODSEE_Identity_Synchronization_for_Windows` directory after you have installed Oracle Directory Server Enterprise Edition.

TABLE 3 Identity Synchronization for Windows 6.0 Service Pack 1 Content

Operating System	Contents of the <code>ODSEE_Identity_Synchronization_for_Windows</code> Directory
Solaris 9, 10 SPARC (64-bit)	README.txt 144589-01/isw.6.0.sp1.solaris.sparc.zip 144589-01/README.144589-01 144589-01/patchinfo packages/SunOS5.9/SUNWjss packages/SunOS5.9/SUNWpr packages/SunOS5.9/SUNWprd packages/SunOS5.9/SUNWtls packages/SunOS5.9/SUNWtlsu patches/125358-13 patches/SunOS5.9/119211-25 patches/SunOS5.10/119213-25 jdk/ mq4_3-installer/

TABLE 3 Identity Synchronization for Windows 6.0 Service Pack 1 Content (Continued)

Operating System	Contents of the ODSEE_Identity_Synchronization_for_Windows Directory
Solaris 9 x86 (32-bit)	README.txt 144590-01/isw.6.0.sp1.solaris.x86.zip 144590-01/README.144590-01 144590-01/patchinfo packages/SUNWjss packages/SUNWpr packages/SUNWprd packages/SUNWtls packages/SUNWtlsu patches/125359-13 patches/119212-25 jdk/ mq4_3-installer/
Solaris 10 x86, AMD64, I64 (64-bit)	README.txt 144590-01/isw.6.0.sp1.solaris.x86.zip 144590-01/README.144590-01 144590-01/patchinfo patches/125359-13 patches/119214-25 jdk/ mq4_3-installer/
Linux RH 3.0U4 (x86 & AMD64) (32-bit) Linux RH 4.0U2 (x86 & AMD64) (32-bit)	README.txt 144591-01/isw.6.0.sp1.linux.zip 144591-01/README.144591-01 packages/RHEL3.0/sun-jss-4.3.2-2.i386.rpm packages/RHEL3.0/sun-nspr-4.8.6-2.i386.rpm packages/RHEL3.0/sun-nss-3.12.8-1.i386.rpm packages/RHEL4.0/sun-jss-4.3.2-2.i386.rpm packages/RHEL4.0/sun-nspr-4.8.6-2.i386.rpm packages/RHEL4.0/sun-nss-3.12.8-1.i386.rpm patches/RHEL3.0/142506-06 patches/RHEL4.0/121656-24 jdk/ mq4_3-installer/
Windows 2003 (Server Enterprise & Standard Edition)	README.txt 144592-01/isw.6.0.sp1.windows.zip 144592-01/README.144592-01 jdk/ mq4_3-installer/

Supported Platforms and System Requirements

Identity Synchronization for Windows 6.0 Service Pack 1 is supported on the platforms listed in this section.



Caution – Installing Identity Synchronization for Windows 6.0 Service Pack 1 on an unsupported platform will have unpredictable results. Installing Identity Synchronization for Windows into either global or non-global Solaris zones, or in a virtualized environment, is *not supported*.

You can use Oracle VM and Oracle Virtualbox for testing in non-production environments. Production use of ISW on virtualization technology is not recommended at this time.

Certain operating systems require additional service packs or patches, as shown in the following table:

Operating System	Supported OS Versions	Architecture	Additional Required Software
Solaris Operating System	Solaris 10 Operating System for SPARC, x86 and AMD 64 architectures	64-bit	No additional software is required.
	Solaris 9 Operating System for SPARC architectures	64-bit	No additional software is required.
	Solaris 9 Operating System for x86 architectures	32-bit	
Red Hat Linux	Red Hat Advanced Server 3.0 Red Hat Advanced Server 4.0	32-bit and 64-bit	RPM-BUILD must be installed. This is provided in the standard Developer Tools of the RHEL software installation media. The <code>libstdc-compat</code> libraries must be installed. These are provided in the Legacy Developer software option of the RHEL software installation media.
Microsoft Windows	Windows 2003 Server Enterprise and Standard Edition	32-bit	Any Windows host that will have Identity Synchronization for Windows core installed on it must be a member of an Active Directory domain. Installation on a workgroup system is not supported.



Caution –

- Windows Server 2008 is not a supported installation platform for Identity Synchronization for Windows 6.0 Service Pack 1. So, although you can synchronize with Active Directory 2008 data, installing Identity Synchronization for Windows 6.0 Service Pack 1 on Windows Server 2008 is not supported.
- Linux hosts must install JDK from RPM. Only JDK 1.5.09 is supported with 11g R1 (11.1.1.3.0). Only JDK 1.5.0_29 is supported with 11gR1 (11.1.1.5.0). Make sure the JDK bin directory is first in your PATH (before `/usr/java`), or use the Linux “alternates” facility to configure Java properly for the system.

Upgrading Components in an Existing Identity Synchronization for Windows 6.0 Service Pack 1 Installation

The upgrade of JDK or Message Queue is not supported; only new installations are possible. To install JDK 5.0_u29 and Message Queue 4.3, see [“Installing Identity Synchronization for Windows 6.0 Service Pack 1 from Scratch” on page 10](#).

▼ To Upgrade ODSEE Components

Before You Begin Identity Synchronization for Windows 6.0 Service Pack 1 must already be installed.

1 Change to the `ODSEE_Identity_Synchronization_for_Windows` directory.

This directory contains the following components:

- Identity Synchronization for Windows 6.0 Service Pack 1 patch
- Network Security Services/Netscape Portable Runtime (NSS/NSPR) packages

- Network Security Services/Netscape Portable Runtime (NSS/NSPR) patches
- JDK 5.0_u29
- Message Queue 4.3

2 Stop Identity Synchronization for Windows 6.0 Service Pack 1.

3 Upgrade the Network Security Services/Netscape Portable Runtime (NSS/NSPR) shared components available on the system where Identity Synchronization for Windows 6.0 Service Pack 1 is installed.

On Solaris systems, for each of the packages SUNWjss, SUNWpr, SUNWprd, SUNWtls, and SUNWtlsu type the following command:

```
# pkgparam -v pkgname VERSION PATCHLIST
```

If PATCHLIST does not return the expected patch level, install the patch as follows:

```
# cd patchlocation
# patchadd patch-id
```

To determine the appropriate patch location for your platform, see [Table 2](#).

Installation Instructions

- To replace an existing Identity Synchronization for Windows 6.0 installation, see [“Migrating from Identity Synchronization for Windows 6.0” on page 7](#).
- For a new Identity Synchronization for Windows 6.0 Service Pack 1 installation, see [“Installing Identity Synchronization for Windows 6.0 Service Pack 1 from Scratch” on page 10](#).
- To upgrade components in an existing installation, see [“Upgrading Components in an Existing Identity Synchronization for Windows 6.0 Service Pack 1 Installation” on page 6](#).

Migrating from Identity Synchronization for Windows 6.0

You can migrate a system where Identity Synchronization for Windows 6.0 is installed, and so apply the latest bug fixes.

The process for migrating from Identity Synchronization for Windows 6.0 includes the following general steps:

- [“Obtaining the Patch” on page 7](#)
- [“Preparing for Migration” on page 7](#)
- [“Uninstalling Identity Synchronization for Windows 6.0” on page 9](#)
- [“Installing Identity Synchronization for Windows 6.0 Service Pack 1” on page 9](#)
- [“Confirming the Installation” on page 10](#)

Obtaining the Patch

Obtain the patch, as described in [“Obtaining Identity Synchronization for Windows 6.0 Service Pack 1” on page 4](#).

Preparing for Migration

Complete the following steps before you begin the migration process.

▼ To Prepare for Migration

1 Schedule an appropriate time for migration.

Migration typically requires four to eight hours, depending on your system's performance and the configuration of Identity Synchronization for Windows 6.0.

2 Disable the group synchronization and account lockout features as described in these documents:

- “Configure Identity Synchronization for Windows to Detect and Synchronize Groups Related Changes between Directory Server and Active Directory” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*
- “Using the Account Lockout Feature” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*

3 Unpack the Identity Synchronization for Windows 6.0 Service Pack 1 patch content.

- On Solaris and Linux installations, run this command:

```
unzip zipped_patch_file
```

- On Windows installations, run this command:

```
unzip.exe zipped_patch_file
```

To identify the `zipped_patch_file` for your installation, see Table 2 in “Obtaining Identity Synchronization for Windows 6.0 Service Pack 1” on page 4.

After the patch files are unzipped, the migration subdirectory contains the migration tools:

- `export11cnf.jar`
- `checktopics.jar`

4 Export the current Identity Synchronization for Windows 6.0 configuration setting to an XML file.

Change the current directory to migration and run the `export11cnf.jar` file with the following usage:

```
java -jar export11cnf.jar -D bind_DN -w bind_password
| - [-h configuration_directory_hostname] [-p configuration_directory_port_number]
-s root_suffix [-Z] -q configuration_password
| - -f xml_configuration_filename_to_export
```

The following example shows a typical use:

```
$ java -jar export11cnf.jar -D "cn=directory manager"
-w - -h "test.example.com" -p 389 -s "dc=example,dc=com" -q - -f export.cfg
```

5 Add a clear text password to the exported configuration file.

Edit the exported configuration file, and enter a password between the double quotation marks for each `cleartextPassword` field.

6 Stop synchronization as described in “Starting and Stopping Synchronization” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.

7 Verify that your system is in a quiescent state.

Make sure that the current directory is migration, and run the `checktopics.jar` file with the following usage:

```
java -jar checktopics.jar -D bind_DN -w bind_password | -
[-h configuration_directory_hostname] [-p configuration_directory_port_number]
-s root_suffix [-Z] -q configuration_password | -
```

The following example shows a typical use:

```
java -jar checktopics.jar -D "cn=directory manager"
-w - -h "test.example.com" -p 389 -s "dc=example,dc=com" -q -
```

If the system is in a quiescent state, `checktopics.jar` displays the following message:

There are no synchronization messages currently in the Message Queue

If `checktopics.jar` does not display this message, follow these steps:

- a. Restart synchronization as described in “Starting and Stopping Synchronization” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.
- b. Wait until the synchronization messages are applied to the destination connector.

- c. Stop synchronization again, as described in [“Starting and Stopping Synchronization” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#).
 - d. Run the `checktopics.jar` file again.
- 8 Stop the Identity Synchronization for Windows services (daemons) as described in [“Starting and Stopping Services” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#).
 - 9 Save the connector states by backing up the `persist` and `etc` directories from the existing 6.0 installation tree.
 On Windows systems, change the current directory to `server_root\isw-hostname` and run the following commands:

```
zip -r C:\WINNT\Temp\connector-state.zip persist etc
%JAVA_HOME%\bin\jar -cfM %TEMP%\connector-state.jar persist etc
```

 On Solaris and Linux systems, change the current directory to the `server_instance_root` directory and run the following command:

```
$ tar cf /var/tmp/connector-state.tar persist etc
```

Note – To identify the `server_instance_root` on Solaris systems, run:

```
pkginfo -l SUNWiswfc | grep BASEDIR
```

To identify the `server_instance_root` on Linux systems, run:

```
$ rpm -q --queryformat '%{INSTALLPREFIX}\n' sun_iswco-6.0-01
```

 - 10 Start the Identity Synchronization for Windows services as (daemons) as described in [“Starting and Stopping Services” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#).

Uninstalling Identity Synchronization for Windows 6.0

Uninstall ISW 6.0 as described in [Chapter 7, “Removing the Software,” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#).

Installing Identity Synchronization for Windows 6.0 Service Pack 1

To install Identity Synchronization for Windows 6.0 Service Pack 1, use these steps:

1. Install the Identity Synchronization for Windows 6.0 Service Pack 1 core, as described in [Chapter 3, “Installing Core,” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#).
2. To import your version 6.0 configuration XML file, run this command:

```
idsync importcnf -w admin_password -q configuration_password -f xml_configuration_filename_to_import
```

 For more information about using `idsync importcnf`, see [“Using importcnf” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#).
3. Optionally, install the group synchronization and deletion flow features as described in these sections:
 - [“Specifying Configuration Settings for Group Synchronization” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#)
 - [“Specifying How Deletions Flow” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#)
4. Install the Identity Synchronization for Windows 6.0 Service Pack 1 connectors as described in [Chapter 5, “Installing Connectors,” in Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide](#).

5. Optionally, configure the account lockout feature as described in “Configuring and Synchronizing Account Lockout and Unlockout” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.
6. Configure the Identity Synchronization for Windows 6.0 Service Pack 1 plug-in as described in “Using dspluginconfig” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.
7. Stop Identity Synchronization for Windows services (daemons) as described in “Starting and Stopping Services” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.
8. Delete the Identity Synchronization for Windows 6.0 Service Pack 1 persist and etc directories and all their contents from the instance directory, and replace them with the Identity Synchronization for Windows version 6.0 persist and etc directories that you backed up in “Preparing for Migration” on page 7.

On Solaris and Linux systems, use these commands:

```
cd server-instance-root
rm -rf etc persist
tar xf /var/tmp/connector-state.tar
```

Note – To identify the `server_instance_root` on Solaris systems, run:

```
pkginfo -l SUNWswfc | grep BASEDIR
```

To identify the `server_instance_root` on Linux systems, run:

```
$ rpm -q --queryformat '%{INSTALLPREFIX}\n' sun_iswco-6.0-01
```

On Windows systems, use these commands:

```
cd serverroot\isw-hostname
rd /s etc persist
%JAVA_HOME%\bin\jar -xf %TEMP%\connector-state.jar
```

9. Start the Identity Synchronization for Windows 6.0 Service Pack 1 services as described in “Starting and Stopping Services” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.
10. Start synchronization as described in “Starting and Stopping Synchronization” in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.

Confirming the Installation

To confirm that the installation is successful, run this command and verify that the response is the same as shown here:

```
idsync -V
common.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
connector.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
install.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
registry.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
ui.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
watchdog.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
manager.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
```

Installing Identity Synchronization for Windows 6.0 Service Pack 1 from Scratch

The process for a new installation of Identity Synchronization for Windows 6.0 Service Pack 1 includes the following general steps:

- “Obtaining the Software” on page 11
- “Preparing for Installation” on page 11
- “Installing the Software” on page 12
- “Checking the Software Version” on page 12

Obtaining the Software

To obtain the software for a complete install, refer to [“Obtaining the Software as Part of Oracle Directory Server Enterprise Edition” on page 4.](#)

▼ Preparing for Installation

- 1 **After you have installed Oracle Directory Server Enterprise Edition 11g Release 1 (11.1.1) change to the `ODSEE_Identity_Synchronization_for_Windows` directory.**

This directory contains the following components:

- The Identity Synchronization for Windows 6.0 Service Pack 1 patch
- Network Security Services/Netscape Portable Runtime (NSS/NSPR) packages
- Network Security Services/Netscape Portable Runtime (NSS/NSPR) patches
- JDK 5.0_u29
- Message Queue 4.3

- 2 **Install JDK 5.0_u29.**

Identity Synchronization for Windows 6.0 Service Pack 1 requires JDK 5.0 . Check to be sure that version 1.5.0 is installed on your system, or proceed to the installation of JDK 5.0_u29 which contains the latest bug fixes of JDK 5.0.

Install the packages available underneath appropriate jdk directory:

- On Solaris, use the `pkgadd` command.
- On Linux, use the `rpm -Uvh` command.
- On Windows, launch the .exe file.

- 3 **Install Message Queue 4.3.**

See [“Sun Java System Message Queue” on page 13](#) for detailed information.

- 4 **Install the Network Security Services/Netscape Portable Runtime (NSS/NSPR) shared components.**

You must install the NSS/NSPR packages and patch them to the appropriate level before you install Identity Synchronization for Windows 6.0 Service Pack 1.

On Solaris systems, for each of the packages `SUNWjss`, `SUNWpr`, `SUNWprd`, `SUNWtls`, and `SUNWtlisu` type the following command:

```
# pkgparam -v pkgname VERSION PATCHLIST
```

If *pkgname* is not installed, obtain it as follows:

```
# pkgadd -d pkglocation pkgname
```

If `PATCHLIST` does not return the expected patch level, install the patch as follows:

```
# cd patchlocation  
# patchadd patch-id
```

Note – To determine the appropriate *pkglocation* and *patchlocation* for your platform, see [Table 3](#).

- 5 **Unpack the Identity Synchronization for Windows 6.0 Service Pack 1 binaries.**

Change to the *patch-id* directory that corresponds to your platform and unzip the Identity Synchronization for Windows zip file.

For example:

- On Solaris SPARC systems:

```
$ cd 144589-01  
$ unzip isw.6.0.sp1.solaris.sparc.zip
```
- On Windows systems:

```
C:\> cd 144592-01
C:\> unzip.exe isw.6.0.sp1.windows.zip
```

To determine the *patch-id* directory and the zip file name for your platform, see [Table 3](#).

▼ Installing the Software

Before You Begin

The following “best practices” will help to ensure you have a reliable point of recovery in case you encounter issues during installation:

- Create a backup or snapshot of your environment before you install ISW.
- Consider testing a pilot ISW installation in a non-production environment or over a virtual machine.
- Check for updated ISW installation information at [Oracle Support \(http://www.oracle.com/us/support/systems/index.html\)](http://www.oracle.com/us/support/systems/index.html). The Directory Server Enterprise Edition documentation set is available at <http://docs.sun.com/coll/1819.3>.
- Be sure to follow the installation steps as documented in this guide and in other guides where links are provided.

1 Install the Identity Synchronization for Windows 6.0 Service Pack 1 Core.

For more information, see [Chapter 3, “Installing Core,”](#) in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.

2 Configure the Identity Synchronization for Windows 6.0 Service Pack 1 Core.

For more information, see [Chapter 4, “Configuring Core Resources,”](#) in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.

3 Start the Identity Synchronization for Windows service.

For more information, see [“Starting and Stopping Services”](#) in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.

4 Start synchronization.

For more information, see [“Starting and Stopping Synchronization”](#) in *Sun Java System Identity Synchronization for Windows 6.0 Installation and Configuration Guide*.

Checking the Software Version

To confirm that the Identity Synchronization for Windows 6.0 Service Pack 1 installation has been successful, run the following command:

```
$ idsync -V
```

The output should be the same as the following:

```
common.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
connector.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
install.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
registry.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
ui.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
watchdog.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
manager.jar : 6 2009Q1_SP1 (ISW build id:2010.116.1118 built by svbld)
```

Installation Recommendations

There are many known issues with the installation of Identity Synchronization for Windows 6.0 Service Pack 1. Be sure to review the sections [“Known Issues and Limitations”](#) on page 15 and [“Supported Platforms and System Requirements”](#) on page 5 before reading the recommendations provided in this section.

Identity Synchronization for Windows Patches and Hot Fixes

After you have installed Identity Synchronization for Windows 6.0 Service Pack 1 and before you perform the linking process, you should contact Sun Service Support to obtain the latest patches and hot fixes for this product.

For a comprehensive list of the known issues in Identity Synchronization for Windows 6.0 Service Pack 1, see “Known Issues and Limitations” on page 15.

Sun Java System Message Queue

Identity Synchronization for Windows 6.0 Service Pack 1 requires the installation and configuration of Message Queue software. For optimum use of Identity Synchronization for Windows 6.0 Service Pack 1, install Message Queue 4.3. Identity Synchronization for Windows 6.0 Service Pack 1 also supports Message Queue 3.7 Update 1 (which is the version that is provided with Java Enterprise System 5 update 1).

If you are running a version of Message Queue older than 3.7 update 1, use the following steps to upgrade your installation:

1. Uninstall Message Queue.
2. Go to *mq4_3-installer* directory.
3. Install and configure Message Queue 4.3, as described in *Sun Java System Message Queue 4.3 Installation Guide*.

The complete Message Queue 4.3 documentation is available at <http://docs.sun.com/app/docs/coll/1307.6>.

4. Run the following commands to create a dummy Message Queue license file:

```
$ mkdir /etc/imq/lic
$ touch /etc/imq/lic/imqbrokerun.lic
```

5. If you are running the Solaris Operating System, you can then patch the Message Queue installation up to update 2, by using Solaris update patching, available at [Oracle Support \(http://support.oracle.com\)](http://support.oracle.com).
6. Install Identity Synchronization for Windows 6.0 Service Pack 1.

Note – Message Queue 3.7 update 1 or later is supported.

Group Synchronization

If you use Identity Synchronization for Windows 6.0 Service Pack 1 to synchronize groups, you *must* use the following configuration:

- Map the following Directory Server (DS) attributes to Active Directory (AD):
 - DS cn to AD cn
 - DS uid to AD samaccountname
- Define the creation expression as follows:
 - For Directory Server: uid=%uid%,sync_base
 - For Active Directory: cn=%cn%,sync_base
- In Directory Server, specify the uid attribute as the RDN for synchronized groups.

In spite of this configuration, group synchronization still has the following limitations:

- Concurrent modifications of a specific attribute is not supported with synchronized groups.
- Synchronization of nested groups fails.
- Group synchronization fails if the user entries that belong to a group are not at the same level as the sync base.

For example, if your sync base is ou=employees,dc=example,dc=com, the user DN must be uid=user-1,ou=employees,dc=example,dc=com. If the user DN is of the form uid=user-2,ou=sales,ou=employees,dc=example,dc=com, the ou=sales branch between the user and the sync base causes group synchronization to fail.

- If you create new users in Directory Server, and add those users to an existing group, the users must also be created in the corresponding connector before the synchronization of that group between Directory Server and Active Directory will work.

Synchronization With Active Directory 2008

Synchronization between Oracle Directory Server Enterprise Edition 11g Release 1 (11.1.1) and Active Directory 2008 is supported, with the following restrictions:

- Fine-grained password policies.

These are supported, as long as the service complies with the configuration described here.

Active Directory, up to and including version 2003, uses Group Policy (GPO) that is global and domain-wide. The password policy and account lockout settings are therefore global in nature. In Active Directory 2008, domain level, fine-grained PSOs (password setting objects) can be configured for individual users or groups.

Identity Synchronization for Windows requires the password policy and account lockout settings to be uniform between Active Directory and Directory Server. This uniformity must include the PSOs, to avoid unpredictable behavior. Specifically, the following PSO attributes must have the same values in Active Directory and Directory Server:

- `msDS-LockoutThreshold` Determines how many failed password attempts are allowed before locking out a user account.
 - `msDS-LockoutObservationWindow` Determines the time after which a bad password counter is reset.
 - `msDS-LockoutDuration` Determines how long an account is locked out after too many failed password attempts.
- Read-only domain controllers.

These are not supported. Identity Synchronization for Windows uses a failover server for all operations. Unlike Directory Server read-only replicas, a read-only domain controller cannot be a part of the Active Directory failover setup.

A Directory Server replica uses a password plug-in that redirects all writable requests to the masters. This functionality cannot be provided in Active Directory, as there is no such plug-in.

Note – Windows Server 2008 is not a supported installation platform for Identity Synchronization for Windows 6.0 Service Pack 1. So, although you can synchronize with Active Directory 2008 data, installing Identity Synchronization for Windows 6.0 Service Pack 1 on Windows Server 2008 is not supported. For more information, see [“Supported Platforms and System Requirements” on page 5](#).

Windows 2008 does not alleviate the current group synchronization restrictions that are described in [“Group Synchronization” on page 13](#).

Using SUL Filters

If you specify different filters for Active Directory and Directory Server in the Synchronization User List (SUL), you might have unpredictable results. You must use the same filters for Active Directory and for Directory Server.

Also, a group and its members should be defined in the same SUL. Members of a group are not synchronized if they are defined in a different SUL than their group.

Tuning the Client Timeout Setting

By default, Identity Synchronization for Windows 6.0 Service Pack 1 is configured with a client time-out period of two minutes. If your Active Directory server is under a heavy load, this setting can be too short and cause failures between the two servers. In this case, increase the client timeout setting.

▼ To Change the Client Timeout Setting

1 Edit the `WatchList.properties` file.

By default, this file is located at `/var/opt/SUNWiw/resources/WatchList.properties`.

2 Change the value of this setting.

`-Dcom.sun.directory.wps.CLIENT_TIME_LIMIT=value`

where *value* is the maximum number of milliseconds to wait for an operation to complete. The value must be from 0 through 600000. A value of 0 specifies that the client waits for server to complete the operation. The default value is the recommended minimum of 120000 milliseconds.

The following example sets `CLIENT_TIME_LIMIT` to 300,000 milliseconds, or 5 minutes.

`-Dcom.sun.directory.wps.CLIENT_TIME_LIMIT=300000`

3 Save and close the `WatchList.properties` file.

Verifying that Uninstallation is Complete

When Identity Synchronization for Windows is uninstalled, the `productregistry` file may not be updated.

After uninstalling Identity Synchronization for Windows, use a text editor to edit one of the following files, depending on your installation.

- `/var/sadm/install/productregistry` (Solaris)
- `/var/opt/sun/install/productregistry` (on Linux)

If the file still contains any entries for `isw`, delete them.

Known Issues and Limitations

This section lists the bugs fixed in Identity Synchronization for Windows 6.0 Service Pack 1 and describes the known issues at the time of the release of this service pack.

Note – Any reference to “Directory Server” in this section is to the Directory Server that is provided with Oracle Directory Server Enterprise Edition.

Identity Synchronization for Windows Limitations

This section lists product limitations. Limitations are not always associated with a change request number. Note that installation of Identity Synchronization for Windows in a virtualized environment is not supported.

Do not change file permissions by hand.

Changes to file permissions for installed Directory Server Enterprise Edition product files can in some cases prevent the software from operating properly.

To workaround this limitation, install products as a user having appropriate user and group permissions.

There is no failover for the Identity Synchronization for Windows core service.

If you lose the system where the Identity Synchronization for Windows core service is installed, you must install it again.

Take a backup of `ou=services` (configuration branch of Identity Synchronization for Windows DIT) in LDIF format and use this information when you reinstall Identity Synchronization for Windows.

Change in authentication behavior on Microsoft Windows 2003 SP1.

When you install Windows 2003 SP1, by default users are allowed one hour to access their accounts using their old passwords.

As a result, when users change their passwords on Active Directory, the on-demand sync attribute `dspswvalidate` is set to true, and the old password can be used to authenticate against Directory Server. The password synchronized on Directory Server is then the prior, old password, rather than the current Active Directory password.

See the [Microsoft Windows support documentation \(http://support.microsoft.com/?kbid=906305\)](http://support.microsoft.com/?kbid=906305) for details on how to turn off this functionality.

Include the admin jars path in the CLASSPATH variable.

The CLASSPATH variable should contain the location of the admin jars, otherwise a `noClassDefFound` error is displayed during resynchronization.

Performing Data Recovery When System or Application Fails

After hardware or application failure, you might have to restore the data from backup in some of the synchronized directory sources.

After completing the data recovery, however, you must perform an additional procedure to ensure that the synchronization can proceed normally.

The connectors generally maintain information about the last change that was propagated to the message queue.

This information, which is called the connector state, is used to determine the subsequent change that the connector has to read from its directory source. If the database of a synchronized directory source is restored from a backup, then the connector state might no longer be valid.

Windows-based connectors for Active Directory and for Windows NT also maintain an internal database. The database is a copy of the synchronized data source. The database is used to determine what has changed in the connected data source. The internal database is no longer valid once the connected Windows source is restored from a backup.

In general, the `idsync resync` command can be used to repopulate the recovered data source.

Note – Resynchronization cannot be used to synchronize passwords with one exception. The `-i ALL_USERS` option can be used to invalidate passwords in Directory Server. This works if the resynchronization data source is Windows. The SUL list must also include only Active Directory systems.

Use of the `idsync resync` command, however, might not be an acceptable option in every situation.



Caution – Before executing any of the steps detailed that follow, make sure that synchronization is stopped.

Bidirectional Synchronization

Use the `idsync resync` command with the appropriate modifier settings, according to the synchronization settings. Use the recovered directory source as the target of the `resync` operation.

Unidirectional Synchronization

If recovered data source is a synchronization destination, then the same procedure can be followed as for bidirectional synchronization.

If recovered data source is a synchronization source, then `idsync resync` can still be used to repopulate the recovered directory source. You need not change the synchronization flow settings in the Identity Synchronization for Windows configuration. The `idsync resync` command allows you to set synchronization flow independent of the configured flows with the `-o Windows | Sun` option.

Consider the following scenario as an example. Bidirectional synchronization is setup between Directory Server and Active Directory.

- The database of a Microsoft Active Directory server has to be recovered from a backup.
- In Identity Synchronization for Windows, this Active Directory Source is configured for the SUL AD.
- Bidirectional synchronization for modifies, creates and deletes is set up between this Active Directory Source and a Directory Server Source.

▼ To Perform Unidirectional Synchronization

1 Stop synchronization.

```
idsync stopsync -w - -q -
```

2 Resynchronize Active Directory Source. Also, resynchronize modifies, creations, and deletes.

```
idsync resync -c -x -o Sun -l AD -w - -q -
```

3 Restart synchronization.

```
idsync startsync -w - -q -
```

Directory Source Specific Recovery Procedures

The following procedures correspond to specific directory sources.

Microsoft Active Directory

If Active Directory can be restored from a backup, then follow the procedures in the sections covering either bidirectional, or unidirectional synchronization.

You might, however, have to use a different domain controller after a critical failure. In this case, follow these steps to update the configuration of the Active Directory Connector.

▼ To Change the Domain Controller

1 Start the Identity Synchronization for Windows management console.

2 Select the Configuration tab. Expand the Directory Sources node.

3 Select the appropriate Active Directory Source.

4 Click Edit controller, and then select the new domain controller.

Make the selected domain controller the NT PDC FSMO role owner of the domain

5 Save the configuration.

6 Stop the Identity Synchronization service on the host where the Active Directory Connector is running.

7 Delete all the files except the directories, under *ServerRoot\isw-hostname\persist\ADPxxx*. Here, *xxx* is the number portion of the Active Directory Connector identifier.

For example, 100 if the Active Directory Connector identifier is CNN100.

8 Start the Identity Synchronization service on the host where the Active Directory Connector is running.

9 Follow the steps according to your synchronization flow in the unidirectional or the bidirectional synchronization sections.

Fail Over and Directory Server

Either the Retro Changelog database, or the database with synchronized users, or both can be affected by a critical failure.

▼ To Manage Directory Server Fail Over

1 Retro Changelog Database.

Changes that the Directory Server connector could not process might have occurred in the Retro Changelog database. Restoration of the Retro Changelog database only makes sense if the backup contains some unprocessed changes. Compare the most recent entry in the `ServerRoot/isw-hostname/persist/ADPxxx/accessor.state` file with the last changenumber in the backup. If the value in `accessor.state` is greater than or equal to the changenumber in the backup, do not restore the database. Instead, recreate the database.

After the Retro Changelog database is recreated, make sure that you run `idsync prepd`s. Alternatively, click Prepare Directory Server from the Sun Directory Source window in the Identity Synchronization for Windows management console.

The Directory Server connector detects that the Retro Changelog database is recreated and log a warning message. You can safely ignore this message.

2 Synchronized Database.

If no backup is available for the synchronized database, then the Directory Server connector has to be reinstalled.

If the synchronized database can be restored from a backup, then follow the procedures in either the bidirectional or the unidirectional synchronization sections.

Known Identity Synchronization for Windows Issues

This section lists known issues. Known issues are associated with a change request number.

4997513	<p>On Windows 2003 systems, the flag that indicates the user must change his password at the next login is set by default.</p> <p>When you create users on Windows 2003 systems with the user must change pw at next login flag set, users are created on Directory Server with no password. The next time the users log into Active Directory, the users must change their passwords. The change invalidates their passwords on Directory Server. The change also forces on-demand synchronization the next time those users authenticate to Directory Server.</p> <p>Until users change their password on Active Directory, users are not able to authenticate to Directory Server.</p>
5077227	<p>Problems can occur when attempting to view the Identity Synchronization for Windows console with PC Anywhere 10 with Remote Administration 2.1. PC Anywhere version 9.2 has been seen not to cause errors. If problems persist, remove the remote administration software. Alternatively, VNC can be used. VNC is not known to cause any issues when displaying the Identity Synchronization for Windows console.</p>
5097751	<p>If you install Identity Synchronization for Windows on a Windows system that is formatted with FAT 32 system, then no ACLs are available. Furthermore, no access restrictions are enforced for the setup. To ensure security, use only Windows NTFS system to install Identity Synchronization for Windows.</p>
6251334	<p>User deletion synchronization cannot be stopped even after changing the Active Directory source. Deletion synchronization therefore continues when the Synchronized Users List has been mapped to a different organizational unit, OU, in</p>

	the same Active Directory Source. The user appears to have been deleted on the Directory Server instance. The user appears as deleted even if the user is deleted from the Active Directory source which does not have a SUL mapping.
6254516	When Directory Server plug-in is configured on the consumers with command-line, the plug-in does not create a new subcomponent ID for the consumers. The plug-in configuration does not create new IDs for consumers.
6288169	<p>The password synchronization plug-in for Identity Synchronization for Windows tries to bind to the Active Directory for accounts that have not been synchronized even before checking the account lock and passwordRetryCount.</p> <p>To resolve this issue, enforce a password policy on the LDAP server. Also, configure Access Manager to use the following filter on user search:</p> <pre>((!(passwordRetryCount=*)) (passwordRetryCount <=2))</pre> <p>This workaround, however, throws a user not found error when too many login attempts are made over LDAP. The workaround does not block the Active Directory account.</p>
6331956	Identity Synchronization for Windows console fails to start if o=Net scapeRoot is replicated.
6332183	<p>Identity Synchronization for Windows might log exceptions stating that a user already exists, if the Add action flows from Directory Server to the Active Directory before the Delete can. A race condition might occur where the add operation is performed before the delete operation during synchronization, thus cause Active Directory to log an exception.</p> <p>For example, if a user, dn: user1, ou=isw_data, is added to an existing group, dn: DSGroup1,ou=isw_data, when the user is deleted from the group, the uniquemember of the group is modified. If the same user is added to a group that has the same DN, (for userdn: user1, ou=isw_data), an Add operation is performed. At this point, Identity Synchronization for Windows might log exceptions stating that the user already exists.</p>
6332197	Identity Synchronization for Windows throws errors when groups, with user information of users not yet created, are synchronized on Directory Server.
6335193	<p>You might try to run the resynchronization command to synchronize users from Directory Server to Active Directory. The creation of the group entity fails if unsynchronized users are added to an unsynchronized group.</p> <p>To resolve this issue, you should run the resync command twice for the synchronization to happen correctly.</p>
6336471	Identity Synchronization for Windows plug-in cannot search through chained suffixes. As a result, the modify and bind operations cannot be performed on the Directory Server instance.
6339444	<p>You can specify the scope of synchronization with the Synchronization Users List using the Browse button on the Base DN pane. When you specify the scope, the subsuffixes are not retrieved.</p> <p>To work around this issue, add ACIs to permit anonymous access for reads and searches.</p>
6379804	During the upgrade of core components of Identity Synchronization for Windows to version 1.1 SP1 on Windows systems, the updateCore.bat file contains a hard-coded incorrect reference to Administration Server. As a result, the upgrade process does not complete successfully.

To resolve this problem, replace two instances of references to Administration Server in the upgrade script.

Replace the following instructions on lines 51 and 95 of the upgrade script. Change lines as follows.

```
net stop "Sun Java(TM) System Administration Server 5.2"
```

Instead, the lines should read as follows:

```
net stop admin52-serv
```

After making the specified changes, rerun the upgrade script.

- 6386664 Identity Synchronization for Windows synchronizes user and group information between Active Directory and Directory Server when group synchronization feature is enabled. The synchronization should ideally happen only after issuing the `resync` command from the command line.
- 6388815 Active Directory connectors and Directory Server connectors crash when an attempt is made to synchronize nested groups as such synchronization is not currently supported.
- 6388872 For Windows Creation Expressions in a Directory Server to Active Directory, the flow `cn=%cn%` works both for users and groups. For every other combination, Identity Synchronization for Windows shows errors during synchronization.
- 6444341 The Identity Synchronization for Windows uninstallation program is not localized. `WPSyncResources_X.properties` files fail to be installed in the `/opt/sun/isw/locale/resources` directory.
- To work around this issue, copy the missing `WPSyncResources_X.properties` files from the `installer/locale/resources` directory by hand.
- 6444878 Install and set up Java Development Kit version 1.5.0_06 before running Administration Server.
- 6444896 When performing a text-based installation of Identity Synchronization for Windows, leaving the administrator password empty and typing return causes the installation program to exit.
- 6452425 If you install Identity Synchronization for Windows on a Solaris system where the `SUNWtls` package version 3.11.0 is installed, the Administration Server might not launch. To resolve this, uninstall the `SUNWtls` package before you install Identity Synchronization for Windows.
- 6452538 On Windows platforms, Message Queue 3.5 used by Identity Synchronization for Windows requires a `PATH` value less than 1 kilobyte in length. Longer values are truncated.
- 6472296 After installation in the Japanese locale on Windows systems, Identity Synchronization for Windows user interfaces are not fully localized.
- To work around this issue, include `unzip.exe` in the `PATH` environment variable before starting the installation.
- 6477567 In Directory Server Enterprise Edition 11g Release 1 (11.1.1), the Directory Server plug-in for Identity Synchronization for Windows is installed with Directory Server installation. The Identity Synchronization for Windows installer does not install the Directory Server plug-in. Instead Identity Synchronization for Windows only configures the plug-in.
- In this release of Identity Synchronization for Windows, the text-based installer does not prompt you to configure the Directory Server plug-in for Identity Synchronization for Windows during the installation process. As a workaround,

	run the <code>Idsync dspluginconfig</code> command in the terminal window after the Identity Synchronization for Windows installation is completed.
6485333	The installer and uninstaller on Windows systems are not internationalized.
6486505	On Windows, Identity Synchronization for Windows supports only English and Japanese locales.
6492125	The Identity Synchronization for Windows online help contents displays square boxes instead of multi-byte characters for CCK locales.
6501886	When the Active Directory domain administrator password changes, the Identity Synchronization for Windows Console has been seen to show a warning. The warning shown is <code>Invalid credentials for Host-hostname.domainname</code> , even when the password used is valid.
6529349	<p>On Solaris SPARC, Identity Synchronization for Windows might not uninstall due to the absence of the <code>/usr/share/lib/mps/jss4.jar</code> file. It happens only during the installation of the product, when the installer detects the already installed instance of the SUNWjss package and does not update it.</p> <p>As a workaround, while installing the product, add <code>/usr/share/lib/mps/secv1/jss4.jar</code> in the Java class path.</p> <pre> \$JAVA_EXEC -Djava.library.path=./lib \ -classpath "\${SUNWjss}/usr/share/lib/mps/secv1/jss4.jar:\ \${SUNWjss}/usr/share/lib/mps/jss4.jar:\ \${SUNWxrcsj}/sfw/share/lib/xerces-200.jar:./lib/installsdk.jar:\ ./lib/ldap.jar:./lib/webstart.jar:\ \${SUNWiqc}/usr/share/lib/jms.jar:./lib/install.jar:\ ./resources:./locale/resources:./lib/common.jar:\ ./lib/registry.jar:./lib/ldapjdk.jar:./installer/registry/resources" \ -Djava.util.logging.config.file=./resources/Log.properties \ -Djava.util.logging.config.file=./resources/Log.properties \ -Dcom.sun.directory.wps.logging.redirectStderr=false \ -Dcom.sun.directory.wps.logging.redirectStdout=false \ uninstall_ISW_Installer \$1 </pre>
6879679	<p>The Identity Synchronization for Windows stop script is not called on reboot.</p> <p>On the Solaris operating system, if the system is rebooted by the command <code>shutdown -i6 -g0 -y</code>, the stop script is not called and the pid in the <code>pid.txt</code> file is not cleared. As a result, Identity Synchronization for Windows sometimes fails to start automatically after the operating system is rebooted.</p> <p>To work around this limitation, create the following hard link:</p> <pre> \$ ln /etc/rc2.d/K41isw /etc/rc0.d/K41isw </pre>
6920471	The <code>/var/sadm/install/logs</code> directory might not be created when the installation occurs. In this case, installation log entries are written to standard out instead of a log file. As a workaround, create the <code>/var/sadm/install/logs</code> directory before installing Identity Synchronization for Windows.
6962426	<p>When you start the Identity Synchronization for Windows 6.0 Service Pack 1 console on a Red Hat Linux 4.0 64-bit system, you might encounter the following error:</p> <pre> java.lang.UnsatisfiedLinkError </pre> <p>This problem arises because the RPM package <code>seamonkey-nss-1.0.3-0.el4.1</code> that is shipped with Red Hat Linux 4.0 64-bit conflicts with the <code>sun-nss-3.12.6-1</code> package. To enable the console to start correctly, set the <code>LD_LIBRARY_PATH</code> environment variable as follows:</p> <pre> export LD_LIBRARY_PATH=/opt/sun/private/lib:\$LD_LIBRARY_PATH </pre>

6967645	<p>When you create an Active Directory connector on a Linux system, using the installer script, you might encounter the following error:</p> <pre>java.lang.UnsatisfiedLinkError</pre> <p>This problem arises because of a conflict with the RPM package <code>/usr/lib/libnss3.so</code>. To work around this problem, set the <code>LD_LIBRARY_PATH</code> environment variable as follows:</p> <pre>export LD_LIBRARY_PATH=/opt/sun/private/lib/:\$LD_LIBRARY_PATH</pre>
6974782, 12299415	<p>When you install Identity Synchronization for Windows 6.0 Service Pack 1 on a Windows system, the core installation fails when installing the bundled Administration Server.</p> <p>This occurs because the Administration Server installation checks for the presence of a <code>LICENSE.txt</code> file in the Administration Server installation directory <code>isw_install_bits\installer\admserv_package\setup_data\</code>.</p> <ul style="list-style-type: none"> ■ If you have already attempted installation and installation failed, be sure to uninstall the product before attempting installation again. See “Uninstalling Identity Synchronization for Windows 6.0” on page 9. <p>Then use the following workaround.</p> <ul style="list-style-type: none"> ■ To prevent the problem from occurring, before you begin installation, create a dummy <code>LICENSE.txt</code> file in the Administration Server installation directory <code>isw_install_bits\installer\admserv_package\setup_data\</code>.
6976249	<p>When Directory Server and Microsoft Active Directory are synchronized, and you restore entries from a backup Directory Server instance, the entries in Active Directory and Directory Server are no longer synchronized. Directory Server entries are created, they are propagated to Active Directory, and then Active Directory entries are also created. But the entries created in Active Directory contain <code>objectguid</code> values which are different from Directory Server entries that contain <code>dspswuserlink</code> values.</p> <p>To work around this problem, follow these steps to re-link the entries.</p> <ol style="list-style-type: none"> 1. Delete the <code>dspswuserlink</code> attribute from the Directory Server entries. 2. Resync the unlinked entries. Example: <pre># ./idsync resync -f linkusers.cfg -D bind-DN -w bind-password -q configuration-password -k</pre>
7018916 and 12308010	<p>Password quality check functionality in the Directory Server synchronized host must be disabled in order to perform the entries synchronization from Active Directory to Directory Server. Set the configuration parameter as following:</p> <pre>pwd-check-enabled: off</pre>
12387882	<p>The <code>LD_LIBRARY_PATH</code> environment variable must be set properly to restart Identity Synchronization for Windows 6.0 Service Pack 1 on the Linux platform. Do one of the following:</p> <ul style="list-style-type: none"> ■ Set <code>LD_LIBRARY_PATH=/opt/sun/private/lib/:\$LD_LIBRARY_PATH</code> in the terminal where you launch <code>/etc/init.d/isw start</code> ■ Add the <code>/opt/sun/private/lib/</code> pathname in the <code>LD_LIBRARY_PATH</code> variable defined in the <code>/opt/sun/isw/bin/start_watchdog.sh</code> shell script.

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821-1581

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