

Novell Data Synchronizer Mobility Pack Update 2

Readme

Novell®

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1 Overview

The Novell Data Synchronizer Mobility Pack creates a new Synchronizer system that consists of the Synchronizer services, the GroupWise Connector, and the Mobility Connector on a single server. This Synchronizer system enables you to easily synchronize GroupWise data to mobile devices.

Update 2 of the Data Synchronizer Mobility Pack provides the following enhanced features:

- ♦ **Synchronizer System Update:** When you update the Mobility Pack software, you also update the Mobility database, so that all device information is retained during the update process.
- ♦ **GroupWise Authentication:** You can configure the Mobility Connector to accept GroupWise mailbox passwords instead of LDAP (network) passwords when mobile devices connect to the Synchronizer system.
- ♦ **GroupWise Connector Monitoring:** Synchronizer Web Admin now provides a Connector Information Monitoring page for the GroupWise Connector, similar to what was already available for the Mobility Connector.
- ♦ **Improved Device Blocking:** The Mobility Connector Information Monitoring page displays the traffic level for each mobile device. This assists in recognizing when a device needs to be blocked because it is having synchronization problems. This prevents a synchronization issue with one device from impacting performance for all other devices.
- ♦ **Synchronization of Attachments:** When an attachment is too large to synchronize to your mobile device, the item still includes the attachment icon and indicates that the attachment was not downloaded because of its size.
- ♦ **Synchronization of Discussion Notes:** Instead of being automatically synchronized along with e-mail messages, GroupWise discussion notes can be synchronized or not synchronized independently from e-mail messages.
- ♦ **Nightly Maintenance:** Items in the Mobility database that have exceeded the age limit for retention on mobile devices are automatically cleared from the database to maintain optimum database performance.

For a list of the bugs that have been fixed since Update 1 of the Data Synchronizer Mobility Pack, see [Section 9, “Mobility Pack Update 2 Bug Fixes,” on page 16.](#)

2 System Requirements

See “Data Synchronizer System Requirements” in the *Novell Data Synchronizer Mobility Pack Installation Guide*.

3 Mobility Pack Update Instructions

Follow the instructions in this section to update an existing Synchronizer system.

If you are installing Novell Data Synchronizer Mobility Pack Update 2 as your initial Synchronizer system, see [Section 4, “Mobility Pack Installation Instructions,” on page 5](#).

Updates for the Data Synchronizer Mobility Pack software are released regularly. You can update the Mobility Pack software while retaining the configuration of your existing Synchronizer system, including commercially signed certificates that you have purchased.

If you update from the Novell Customer Center, you can subscribe to receive future updates through the Novell Update channel. Or, if you update from the Novell Download Web site, you must periodically check for future updates.

- ♦ [Section 3.1, “Updating from the Novell Customer Center,” on page 3](#)
- ♦ [Section 3.2, “Updating from the Novell Downloads Web Site,” on page 4](#)

NOTE: If you need to uninstall and reinstall the Mobility Pack, follow the instructions in [“Uninstalling the Mobility Pack”](#) in the *Novell Data Synchronizer Mobility Pack Installation Guide*. See also [Section 5.7, “Thorough Uninstallation Required,” on page 10](#).

3.1 Updating from the Novell Customer Center

When you update the Mobility Pack software from the Novell Customer Center, you automatically obtain the software through the Novell Update channel. This is a convenient way to receive regular updates.

- 1 Log in to the [Novell Customer Center \(http://www.novell.com/customercenter\)](http://www.novell.com/customercenter).
- 2 (Conditional) If you have not already done so, obtain the product registration code for the Data Synchronizer Mobility Pack and register to receive Mobility Pack updates.

Data Synchronizer Mobility Pack Update 2 is then delivered through the Novell Update channel to your Synchronizer server.

- 3 Apply Data Synchronizer Mobility Pack Update 2 to the Synchronizer server:

```
zypper up -r nu_novell_com:Mobility-1.0-Updates
```

- 4 Run the Update script to update the Synchronizer database (datasync) and the Mobility database (mobility) for use with the updated software:

```
/opt/novell/datasync/update.sh
```

- 5 Restart the Synchronizer services.

- 6 Verify that Update 2 has been applied:

```
cat /opt/novell/datasync/version
```

The version number in the version file should match the version number in the filename of the ISO from which you installed Update 2. For convenience, this version number is also displayed in Synchronizer Web Admin.

For more detailed instructions, see [“Updating from the Novell Customer Center”](#) in [“Mobility Pack Installation”](#) in the *Novell Data Synchronizer Mobility Pack Installation Guide*.

3.2 Updating from the Novell Downloads Web Site

When you update the Mobility Pack software from the Novell Downloads Web site, you manually download and install the software whenever you choose.

- 1 Download the Novell Data Synchronizer Mobility Pack Update 2 ISO file from [Novell Downloads \(http://download.novell.com\)](http://download.novell.com) to a convenient temporary directory on the Synchronizer server.

IMPORTANT: The Mobility Pack Update 2 software is located on the *Patches* list, not the *Products* list.

- 2 Use YaST to update the Mobility Pack repository from the new ISO file:
 - 2a Under *Groups*, click *Software*, then click *Patch CD Update*.
 - 2b Follow the prompts to install the updated software from the ISO file.
- 3 Run the Update script to update the Synchronizer database (datasync) and the Mobility database (mobility) for use with the updated software:

```
/opt/novell/datasync/update.sh
```
- 4 Restart the Synchronizer services.
- 5 Verify that Update 2 has been applied:

```
cat /opt/novell/datasync/version
```

The version number in the `version` file should match the version number in the filename of the ISO from which you installed Update 2. For convenience, this version number is also displayed in Synchronizer Web Admin.
- 6 Check the Novell Downloads Web site periodically for updates.

For more detailed instructions, see “[Updating from the Novell Downloads Web Site](#)” in “[Mobility Pack Installation](#)” in the *Novell Data Synchronizer Mobility Pack Installation Guide*

4 Mobility Pack Installation Instructions

Follow the instructions in this section if you are installing Novell Data Synchronizer Mobility Pack Update 2 in order to create your initial Synchronizer system. The Update 2 software is available on the Novell Downloads Web site.

NOTE: If you need to uninstall and reinstall the Mobility Pack, follow the instructions in “[Uninstalling the Mobility Pack](#)” in the *Novell Data Synchronizer Mobility Pack Installation Guide*. See also [Section 5.7, “Thorough Uninstallation Required,”](#) on page 10.

- 1 Make sure that the Linux server where you plan to install the Mobility Pack meets the system requirements.

For system requirements, see “[Data Synchronizer System Requirements](#)” in the *Novell Data Synchronizer Mobility Pack Installation Guide*.

For additional planning assistance, see the [Data Synchronizer Mobility Pack Best Practices Wiki \(http://wiki.novell.com/index.php/Data_Synchronizer_Mobility_Pack_Best_Practices\)](http://wiki.novell.com/index.php/Data_Synchronizer_Mobility_Pack_Best_Practices).
- 2 If a Web server is currently running on the Synchronizer server, stop it, and preferably disable it.

- 3 Download the Novell Data Synchronizer Mobility Pack ISO file to a convenient temporary directory:
 - 3a On the [Novell Downloads Web site \(http://download.novell.com\)](http://download.novell.com), click *Search Patches* in the Patches box.
 - 3b In the *Standard Select* field, select *Data Synchronizer*.

IMPORTANT: If you do not see *Data Synchronizer*, you are looking in the *Product* list, not the *Patch Finder* list. Click *Search Patches* to the right of the *Product* list, then look in the *Patch Finder* list.

 - 3c Under *Current Patches*, click the *Novell Data Synchronizer Mobility Pack Update 2 x86-64* link to display information about the download.
 - 3d Review the description of Update 2, then click *Proceed to Download*.
 - 3e Follow the online instructions to download the Update 2 ISO file to a convenient location.
- 4 Use YaST to install the Data Synchronizer Mobility Pack software:
 - 4a Under *Groups*, click *Software*, then click *Add-On Products*.
 - 4b Install the Data Synchronizer Mobility Pack as an add-on product.

Complete installation instructions are available in “[Installing and Setting Up a Data Synchronizer System](#)” in the *Novell Data Synchronizer Mobility Pack Installation Guide*.

After you have installed Update 2, you can register in the Novell Customer Center to receive future updates through the Novell Update channel, as described in “[Updating from the Novell Customer Center](#)” in “[Mobility Pack Installation](#)” in the *Novell Data Synchronizer Mobility Pack Installation Guide*.

5 Installation Issues

- ♦ [Section 5.1, “GroupWise Trusted Application Creation,” on page 8](#)
- ♦ [Section 5.2, “YaST Proposal Error,” on page 8](#)
- ♦ [Section 5.3, “YaST Hangs When Browsing Files in the Installation Program,” on page 8](#)
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5.1 GroupWise Trusted Application Creation

Before you run the Mobility Pack Installation program, you must create a GroupWise trusted application so that the GroupWise Connector can log in to a GroupWise Post Office Agent (POA) in order to access GroupWise mailboxes without needing personal user passwords. When you set up the GroupWise Connector as a trusted application, you only need to fill in three fields in the Create Trusted Application dialog box in ConsoleOne: *Name*, *Location for Key File*, and *Name of Key File*. Do not fill in any other fields. If you fill in additional fields, the trusted application does not work correctly with the GroupWise Connector.

5.2 YaST Proposal Error

When you run the Data Synchronizer Mobility Pack Installation program in YaST, you might see the following error:

The proposal contains an error that must be resolved before continuing

This error indicates that you clicked *Next* without providing the configuration information for your Synchronizer system. Instead of clicking *Next*, click *Change > Mobility Pack Configuration*, then provide the configuration as prompted. After you provide the configuration information, click *Next*.

5.3 YaST Hangs When Browsing Files in the Installation Program

When you run the Data Synchronizer Mobility Pack Installation program on SLES 11 SP1, if you browse to and select a file, the Installation program might hang. This can occur if you try to browse to and select any of the following files during installation:

- ♦ Mobility Pack ISO file
- ♦ GroupWise trusted application key file
- ♦ Certificate file

As a workaround, type the full path and filename for the file instead of browsing to it.

5.4 Required Python Package Version

If you already have Python packages installed on the server where you are installing the Data Synchronizer Mobility Pack, the Data Synchronizer Mobility Pack Installation program needs to update the existing packages, rather than install new packages. This does not happen by default.

When you run the Installation program, you are prompted if packages need to be updated. Enter 1 for `Solution 1` to update each package.

5.5 Mobility Pack Installation Program Fails on a 32-Bit/x86 Processor

The Mobility Pack must be installed on a server with a 64-bit/x86 processor. If you try to install it on a server with a 32-bit/x86 processor, the Mobility Pack Installation program does not detect the problem. It tries to run, but it cannot run correctly.

If the behavior of the Mobility Pack Installation program does not match the installation instructions provided in the [Novell Data Synchronizer Mobility Pack Installation Guide](#), make sure that you are installing the Mobility Pack on a server that meets the documented system requirements.

There are currently no plans to make the Mobility Pack available in a 32-bit version.

5.6 Overhead of Extraneous Users

When you add users to your Synchronizer system, data is automatically synchronized from GroupWise to the GroupWise Connector before users connect their mobile devices to your Synchronizer system. Do not add users to your Synchronizer system who do not have mobile devices. Extraneous users create unnecessary synchronization traffic in your Synchronizer system.

5.7 Thorough Uninstallation Required

The standard uninstallation procedures provided in “[Uninstalling the Mobility Pack](#)” in the *Novell Data Synchronizer Mobility Pack Installation Guide* occasionally fail to completely uninstall the Mobility Pack because of various server-specific issues. When the Mobility Pack software is not completely uninstalled, the next installation does not proceed normally. For example, you might encounter problems configuring LDAP access during installation. To ensure that the Mobility Pack software has been completely uninstalled, perform the following checks:

- ♦ In YaST, click *Software > Add-On Products*. The Mobility Pack should not be listed. If it is still listed, select it, then click *Delete*.
- ♦ In YaST, click *Software > Software Repositories*. The Mobility Pack repository should not be listed. If it is still listed, select it, then click *Delete*.

IMPORTANT: If you do not remove the existing Mobility Pack repository, you cannot successfully install the next version of the Mobility Pack software.

- ♦ In YaST, click *Software > Software Management*. In the *Filters* drop-down list, select *Patterns*. Under the *Primary Functions* heading, the Mobility Pack should not be listed. If it is still listed, select it. Review the *Packages* list for any packages that were not successfully uninstalled and uninstall them.
- ♦ In YaST, click *Software > Software Management*. In the *Search* field, specify *datasync*, then click *Search*. The *Packages* list should be empty. If any Data Synchronizer packages are still listed, uninstall them.
- ♦ Log in as *root* in a terminal window, then check for Data Synchronizer RPMs:

```
rpm -qa | grep datasync
```

If any Data Synchronizer RPMs are still installed, uninstall them:

```
rpm -e rpm_name.rpm
```

- ♦ Make sure that none of the following directories still exist on your server:

```
/opt/novell/datasync
/etc/datasync
/etc/init.d/datasync*
/var/lib/datasync
/var/log/datasync
/var/run/datasync
/var/lib/pgsql
```

If any of these directories still exist, delete them.

- ♦ After performing all these checks, reboot the Synchronizer server.
- ♦ Remove the Synchronizer certificate from any workstations where you have run Synchronizer Web Admin. For example, in Firefox, click *Tools > Options > Advanced > Encryption > View Certificates*. Select the certificate named *DataSync Web Admin*, then click *Delete*.

6 Data Synchronizer Issues

- ♦ [Section 6.1, “Sync Engine Restart Stops All Connectors,” on page 12](#)
- ♦ [Section 6.2, “Users and Groups Not Displayed Correctly in Synchronizer Web Admin,” on page 12](#)
- ♦ [Section 6.3, “Synchronizer Web Admin Responsiveness,” on page 12](#)
- ♦ [Section 6.4, “Illegal Server Error in Synchronizer Web Admin,” on page 12](#)
- ♦ [Section 6.5, “Connector Configuration Settings,” on page 13](#)
- ♦ [Section 6.6, “Internet Explorer 8 Compatibility,” on page 13](#)
- ♦ [Section 6.7, “GroupWise Mobile Server Compatibility,” on page 13](#)

6.1 Sync Engine Restart Stops All Connectors

When the Sync Engine is stopped or restarted, it forces all connectors to stop. After the Sync Engine is restarted, restart the Connector Manager service. After the Connector Manager service is restarted, restart each connector in Synchronizer Web Admin or configure the connectors to start automatically.

6.2 Users and Groups Not Displayed Correctly in Synchronizer Web Admin

When you add or delete a large number of users or groups, the Manage Users page or the Manage Groups page might not correctly display the presence or absence of the users or groups. Refresh the page in your browser to correctly display the users or groups.

6.3 Synchronizer Web Admin Responsiveness

After you add a large number of users to the GroupWise Connector, the responsiveness of Synchronizer Web Admin might diminish each time you restart the GroupWise Connector. For example, it might take longer to log in to Synchronizer Web Admin or you might not be able to navigate easily between pages while the GroupWise Connector is starting. This occurs because the GroupWise Connector verifies all of the users each time it starts. After the user verification process is completed, Synchronizer Web Admin behaves normally.

6.4 Illegal Server Error in Synchronizer Web Admin

You might occasionally see an Illegal Server Error when you log in to Synchronizer Web Admin immediately after stopping and starting the Synchronizer services and connectors. This occurs if the GroupWise Connector is not completely started when you access Synchronizer Web Admin. The GroupWise Connector must process any accumulated events before it is ready to provide connector status information to Synchronizer Web Admin. After the GroupWise Connector is completely started, the Illegal Server Error no longer occurs.

6.5 Connector Configuration Settings

On the Connector Configuration Settings pages for the GroupWise Connector and the Mobility Connector, if you set and save general connector settings, then set and save connector-specific settings, the general connector settings are not actually saved. However, if you set and save connector-specific settings, then set and save general connector settings, all changed settings are saved as expected.

6.6 Internet Explorer 8 Compatibility

If you use Synchronizer Web Admin on Internet Explorer 8, you must enable Compatibility View in order to display the Sync Engine Advanced options on the Engine Settings page.

- 1 In Internet Explorer 8, click *Tools*, then select *Compatibility View*.

Even with Compatibility View enabled, the Maintenance section on the Engine Settings page sometimes disappears when you mouse over it. However, with persistent mousing, it is still possible to click *Clear Cache*.

6.7 GroupWise Mobile Server Compatibility

Novell Data Synchronizer is the replacement for GroupWise Mobile Server (GMS). These two synchronization solutions can coexist successfully, as long as users are transitioned from GMS to Synchronizer in a timely manner. An issue with GMS can cause a user whose mobile device is configured to use both synchronization solutions to occasionally receive a large quantity of extraneous items. As you add users to Synchronizer, you should delete them from GMS. You can continue to run GMS indefinitely to support users with older mobile devices that are not supported by Synchronizer.

7 Connector Issues

- ♦ [Section 7.1, “General Connector Issues,” on page 14](#)
- ♦ [Section 7.2, “Connector-Specific Issues,” on page 15](#)

7.1 General Connector Issues

- ♦ [“User Deletion” on page 14](#)
- ♦ [“Connector Does Not Stop” on page 14](#)
- ♦ [“Multiple Instances of the Same Connector” on page 15](#)

7.1.1 User Deletion

In order to delete users from a connector, the connector must be running. If the connector is not running, some user event data is not properly deleted.

7.1.2 Connector Does Not Stop

When you stop a connector in Synchronizer Web Admin and then start it again immediately, the status might indefinitely remain as *Starting*. This can happen because the connector did not completely stop before you tried to restart it. The connector might have been completing a polling cycle before shutting down, even though Synchronizer Web Admin displayed the status as *Stopped*. When you try to start a connector that is still shutting down, it cannot start normally.

To restart the connector when this situation has occurred:

- 1 Restart the Connector Manager on the command line:

```
rcdatasync-connectors restart
```

This should change the connector status in Synchronizer Web Admin from *Starting* to *Stopped*.

- 2 Start the connector in Synchronizer Web Admin.
- 3 Start any other connectors that stopped as a result of restarting the Connector Manager.

Some connectors restart automatically when the Connector Manager restarts.

If this problem occurs repeatedly, wait a few seconds between the time when you stop the connector and when you start it again to allow the connector to shut down completely before restarting.

7.1.3 Multiple Instances of the Same Connector

Synchronizer Web Admin allows you to manually create multiple instances of the same connector. However, this configuration is not currently supported.

If you have more users than a single connector can service, you can install one or more additional instances of the Mobility Pack until all users are being successfully serviced. Users can be organized on multiple instances of the Mobility Pack based on various schemes such as the location of the users, the location of the synchronized applications, or the desired quality of service (executives vs. regular employees, for example). Instances of the Mobility Pack do not need to mirror the structure of your GroupWise system.

7.2 Connector-Specific Issues

Refer to the Readme for each connector on the [Novell Data Synchronizer Connectors Documentation Web site](http://www.novell.com/documentation/datasync_connectors1) (http://www.novell.com/documentation/datasync_connectors1).

8 GroupWise 8.0.2 Issues

The Mobility Pack depends on the GroupWise Connector and a GroupWise POA for much of its functionality. GroupWise 8.0.2 is required for use with the Mobility Pack. However, GroupWise 8.0.2 was released with some issues that impact Mobility Pack functionality. Fixes for these issues will be available in an upcoming GroupWise 8.0.2 hot patch. For a list of GroupWise 8.0.2 issues, see the [GroupWise Connector Readme for Data Synchronizer Mobility Pack Update 2](http://www.novell.com/documentation/datasynchronizer1/datasync1_readme_mobility_upd2/data/datasync1_readme_mobility_upd2.html) (http://www.novell.com/documentation/datasynchronizer1/datasync1_readme_mobility_upd2/data/datasync1_readme_mobility_upd2.html).

9 Mobility Pack Update 2 Bug Fixes

For a list of the bugs that have been fixed in Novell Data Synchronizer Mobility Pack Update 2, see the [Novell Data Synchronizer Mobility Pack Update 2 Bug Fix List \(http://www.novell.com/documentation/datasynchronizer1/resources/datasync1_bugfixlist_upd2.html\)](http://www.novell.com/documentation/datasynchronizer1/resources/datasync1_bugfixlist_upd2.html).

You can look up the bug numbers in [Bugzilla \(https://bugzilla.novell.com\)](https://bugzilla.novell.com) for more information about each bug.

10 Documentation

Novell Data Synchronizer Mobility Pack documentation is available at the [Novell Data Synchronizer Documentation Web site \(http://www.novell.com/documentation/datasynchronizer1\)](http://www.novell.com/documentation/datasynchronizer1):

- ♦ Novell Data Synchronizer Mobility Pack Readme
- ♦ Novell Data Synchronizer installation and administration guides

Novell Data Synchronizer connector documentation is available at the [Novell Data Synchronizer Connector Documentation Web site \(http://www.novell.com/documentation/datasync_connectors1\)](http://www.novell.com/documentation/datasync_connectors1)

- ♦ Connector Readmes
- ♦ Connector Quick Starts
- ♦ Connector installation and configuration guides

In addition to the Data Synchronizer product documentation, the following resources provide additional information about Data Synchronizer:

- ♦ [Novell Support and Knowledgebase \(http://www.novell.com/support\)](http://www.novell.com/support)
- ♦ [Data Synchronizer Support Forum \(http://forums.novell.com/novell-product-support-forums/data-synchronizer\)](http://forums.novell.com/novell-product-support-forums/data-synchronizer)
- ♦ [Data Synchronization Cool Solutions \(http://www.novell.com/communities/cool solutions/datasynchronizer\)](http://www.novell.com/communities/cool solutions/datasynchronizer)
- ♦ [Data Synchronizer Mobility Pack Best Practices Wiki \(http://wiki.novell.com/index.php/Data_Synchronizer_Mobility_Pack_Best_Practices\)](http://wiki.novell.com/index.php/Data_Synchronizer_Mobility_Pack_Best_Practices)
- ♦ [Data Synchronizer Mobility Connector Wiki \(http://wiki.novell.com/index.php/Data_Synchronizer_Mobility_Connector\)](http://wiki.novell.com/index.php/Data_Synchronizer_Mobility_Connector)

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