



Connection Broker
Where Virtual Desktops Meet Real Business

Release Notes

Version 6.1.x
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To request product information or inquire about our future direction, email sales@leostream.com.

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Patents

Leostream products are patent pending.

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Connection Broker 6.1 P2 (6.1.35) – Release Notes

You can obtain Connection Broker 6.1 P2 using one of the following methods.

- To upgrade an existing Connection Broker version 6.x, use the **Check for updates** option on the > **System > Maintenance** page. See "Upgrading the Connection Broker" in the [Connection Broker Administrator's Guide](#) for detailed instructions.
- To upgrade an existing 5.x version of the Connection Broker, you must install a new Connection Broker h6.1 virtual appliance, and then transfer the old Connection Broker data base to the new installation. See [Upgrading from Version 5.3.x to Version 6.1](#) for detailed instructions. Once you have successfully installed 6.1 and uploaded your database, use the **Check for updates** option on the > **System > Maintenance** page to upgrade to 6.1 P2.

Note: When upgrading from version 5.x, Connection Broker 6.1 requires a new license key. Please, contact sales@leostream.com to convert your existing key to the new format.

- For new installations, download the 6.1 P1 Connection Broker virtual appliance and install it into your virtualization layer. Connection Broker virtual appliances are available at:

www.leostream.com/cb

For more information on Connection Broker installation, see the [Leostream Installation Guide](#).

Once the installation is complete, use the **Check for updates** option on the > **System > Maintenance** page to upgrade to 6.1 P2.

For a complete description of the features listed below, see the referenced section in the [Connection Broker Administrator's Guide](#).

Connection Broker 6.1 P2 (6.1.35)

Features

- Improved power state detection and power-up control for wake-on-LAN and 1E WakeUp support.
- New **MAC address** options on the **Edit Desktop** form allows you to specify a desktop's MAC address, in cases where the Connection Broker cannot learn this information from the desktop's center or the Leostream Agent.
- ✓ The Connection Broker requires a correct MAC address in order to power up desktops using wake-on-LAN.
- The **Control** action and all power control options are now shown for all desktops. Certain power control actions will have no effect on the desktop, depending on the type of desktop and the desktop's current power state.
- New desktops registered with the **Uncategorized** center now appear as **Stopped**.
- The **Monitor desktop power status** option is no longer available on the **Edit Center** page for the **Uncategorized** center. The Connection Broker always scans the power state of desktops in the **Uncategorized** center.
- Leostream Connect updated to version 2.3.45 for the Windows client and to version 1.4.40 for the Java client.

- Leostream Agent updated to version 4.2.83.

Resolved Issues

- The Connection Broker now retrieves the desktop's MAC address from the Leostream Agent.
- Removed Application Pools from the extended filters list in the **Filter this list** drop-down menu on the **> Resources > Desktops** page.
- The Connection Broker now automatically adds filters associated with application pools to the **Filter this list** drop-down menu on the **> Resources > Applications** page. These extended filters now correctly filter the application list.
- No longer receive an internal server error when bulk deleting clients when the **Location** column is included on the **> Clients > Clients** page.

Connection Broker 6.1 P1 (6.1.28) – Release Notes

You can obtain Connection Broker 6.1 P1 using one of the following methods.

- For new installations, download the appropriate Connection Broker virtual appliance and install it into your virtualization layer. Connection Broker virtual appliances are available at:

www.leostream.com/cb

For more information on Connection Broker installation, see the [Leostream Installation Guide](#).

- To upgrade an existing Connection Broker version 6.x, use the **Check for updates** option on the **> System > Maintenance** page. See "Upgrading the Connection Broker" in the [Connection Broker Administrator's Guide](#) for detailed instructions.
- To upgrade an existing 5.x version of the Connection Broker, you must install a new Connection Broker 6.1 and transfer the old Connection Broker data to the new installation. See [Upgrading from Version 5.3.x to Version 6.1](#) for detailed instructions.

Note: When upgrading from version 5.x, Connection Broker 6.1 requires a new license key. Please, contact sales@leostream.com to convert your existing key to the new format.

For a complete description of the features listed below, see the referenced section in the [Connection Broker Administrator's Guide](#).

Connection Broker 6.1 P1 (6.1.28)

Features

- New options on the **Edit Desktop** form that allow you to specify a desktop's IP address and operating system, in cases where the Connection Broker cannot learn this information from the desktop's center.
- New option on the **Create Pool** form that allows you to create pools containing desktops running any version of Windows operating system.
- Clients that support Teradici PC-over-IP can now offer more than 10 desktops to a user.
- Wyse thin clients now honor the setting in the **Display to user as** drop-down menu in a user's policy.
- New encoding methods to support additional character sets, including German characters

- HP SAM clients now support adjusting time zone settings
- Leostream Connect updated to version 2.3.43
- Leostream Agent updated to version 4.2.73

Resolved Issues

- Centers created directly from VMware ESX no longer remained in the **Refreshing** state.
- Duplicating a policy now copies over any **Filters** set in the original policy.
- Potential errors resulting from uploading a Connection Broker 5.3.50 databases to 6.1 P1 have been addressed.
- Physical desktops with an installed Leostream Agent, in the **Uncategorized** center, can be rebooted.

Connection Broker 6.1 GA (6.1.20) – Release Notes

You can obtain Connection Broker 6.1 GA using one of the following methods.

- For new installations, download the appropriate Connection Broker virtual appliance and install it into your virtualization layer. Connection Broker downloads are available at:

www.leostream.com/cb

For more information on Connection Broker installation, see the [Leostream Installation Guide](#).

- To upgrade an existing Connection Broker version 6.0.x, use the **Check for updates** option on the > **System > Maintenance** page. See “Upgrading the Connection Broker” in the [Connection Broker Administrator’s Guide](#) for detailed instructions.
- To upgrade an existing 5.x version of the Connection Broker, you must install a new Connection Broker 6.1 and transfer the old Connection Broker data to the new installation. See [Upgrading from Version 5.3.x to Version 6.1](#) for detailed instructions.

Note: Connection Broker 6.1 requires a new license key. Please, contact sales@leostream.com to convert your existing key to the new format.

For a complete description of the features listed below, see the referenced section in the [Connection Broker Administrator’s Guide](#).

Connection Broker 6.1 (6.1.20)

Features

- **Policy enhancements:**
 - Policies now contain a separate section that applies to hard-assigned desktops, including user hard-assigned and client hard-assigned desktops (see [Configuring Policies for Hard-Assigned Desktops](#)).
 - Policies now allow you to limit the number of desktops assigned to a user of that policy (see [Adding a New Policy](#)).

- Power control and release sections of policies are now defined in *plans*. Plans allow you to define common power control and release scenarios and apply them to multiple policies (see **Chapter 13: Building Power Control and Release Plans**).
- The **Default** policy now provides a **Filters** section for fine-grain control over desktops assigned from this policy (see **Desktop Filters**).
- **Reporting enhancements:** The > **Status** > **Reports** page contains two new reports:
 - Connection Broker metrics report provides information on disk usage and load averages for all Connection Brokers in a cluster (see **Reporting Connection Broker Metrics**).
 - Policy report summarizes the setup of all policies in the Connection Broker (see **Policy Reports**).
- End users can now launch their Citrix XenApp desktops and applications via the Connection Broker Web browser (see **User Access to Citrix XenApp Applications**).
- Physical machines that are Wake-on-LAN-enabled can now be powered up (see **Using Wake-on-LAN for Power Control**).
- The Connection Broker can now send Microsoft SMS server calls that invoke the 1E WakeUp service to power up physical machines (see **Configuring 1E WakeUp Communications**).
- To improve performance for Connection Brokers with large pools, the > **Resources** > **Pools** page is no longer refreshed every time you navigate to this page. Each pool now contains a **Refresh interval** option, which specifies how often to refresh each pool (see **Refreshing Pools**).
- Administrators can more easily manage resources with bulk delete, release, and refresh actions for desktops (see **Bulk Actions for Desktops**), bulk delete for clients (see **Deleting Clients**), and bulk delete for users (see **Deleting Multiple Users**).
- Roles provide more granularity for setting permissions for administering desktops and applications, as well as for interacting with the > **System** > **Maintenance** page. See **Available Desktop and Application Permissions** and **Customizing Access to the Maintenance Page**, respectively.
- Bulk upload for client can load new clients into the Connection Broker, in addition to modifying existing clients (see **Uploading Clients**).

Resolved Issues

- Resolved internal errors during remote backup of Connection Broker to an FTP server.
- Improvements for handling duplicate records, i.e., a desktop that is registered with the Connection Broker from two centers.
- Correctly size RDP session when launched from a Web browser with various zoom settings.

Points of Interest

- **Networking:** In some cases, switching your Connection Broker from an internal database to a Microsoft SQL Server 2005 database may make your Connection Broker Web interface unreachable on the network. This may also happen if you use the > **System** > **Network Configuration** page to change to a static network address.

To resolve the issue:

- Log into the Connection Broker VM console by entering Ctrl-C.
- After you log in, from the main Administration Menu, select the Power option.
- From the Power menu, restart your Connection Broker.

You should now be able to access your Connection Broker Web interface. If you are still having issues, and have a current support contract or evaluation agreement, contact the support team at www.leostream.com/support.

- **Policy Option for Maximum Assigned Desktops:** Leostream Connect 2.3 currently includes launched applications when it is counting the number of desktops assigned to a user. If your users are logging in through Leostream Connect, and will be offered desktops and applications, adjust the policy setting for the **Maximum number of desktops assigned** to a number large enough that users can launch their desktops and applications.

Web browser logins count only assigned desktops, without placing a limit on applications.

- **Connection Broker Metrics**

- For clustered Connection Brokers, if you shut down one of the Connection Brokers directly through your virtualization layer or through the console, the Connection Broker Metrics report will not recognize that this broker has been shut down.

If you are using the Connection Broker Metrics report, shut down your Connection Brokers using the **Shutdown the Connection Broker** option on the **> System > Maintenance** page.

- Similarly, if you remove one of the Connection Brokers from your cluster, for example, by switching the Connection Broker to a different database, the Connection Broker Metrics report does not currently remove that broker from the report. Instead, the report shows the removed Connection Broker as stopped.
- **Internal Database:** In some cases, the internal database in Connection Broker 6.x is case sensitive. If you are upgrading a 5.3 Connection Broker to version 6.x, ensure that all pools, tags, locations, policy filters, etc. that use either the **is equal to** or **is not equal to** conditional take case sensitivity into account.
 - **Client Hard-Assignments:** If a user logs into a client that is hard-assigned to a desktop, the Connection Broker offers the user only the hard-assigned desktop. The Connection Broker does not offer the user any of their policy-assigned desktops. However, the broker does currently offer the user all of the policy-assigned applications from the **Application Pool**.
 - **Wyse Clients:** Wyse clients do not support domain names that contain blank spaces. Therefore, if you create an authentication server in your Connection Broker that has a name containing blank spaces, the Connection Broker replaces the blank space with `\x20`, which the Wyse client can successfully handle.
 - **Sun Ray Support:** When using Leostream Connect/Java with Sun Ray DTUs, if Leostream Connect returns a "Cannot open audio device" error, add the following parameter to the Sun Ray `uttsc` **Command line** field in the **Leostream Connect Configuration** section of the Connection Broker policy:

```
-r:sound off
```

Additional errors, such as 'Invalid Timezone translation', may occur, and may be related to other Sun Ray `uttsc` parameter. Try logging out and logging back in, if unknown errors occur. If the problem persists, and have a current support contract or evaluation agreement, contact the support team at www.leostream.com/support.

- **Leostream Connect:** On slower networks, users with policies that offer stopped machines may see the following warning when then try to connect to a stopped machine:

```
This computer cannot connect to the remote computer
```

This warning occurs when Leostream Connect attempts to log the user into the desktop before the desktop has finished starting up. If this warning occurs, do not log out of Leostream Connect. Wait a short period of time and try to reconnect to the desktop.

Leostream Connect Version 2.3.42

This is a minor bug-fix release. Please, contact sales@leostream.com for more information.

Leostream Connect/Java Version 1.4.30

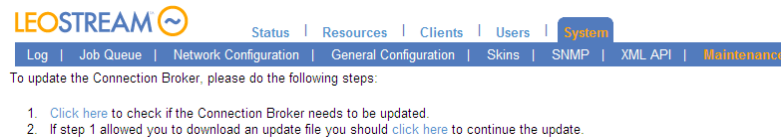
- HP RGS support no longer users the RGS Directory Mode. Leostream Connect/Java can now be used on Linux thin clients.
- Additional customization options for the Leostream Connect/Java dialogs.
- Improvements for Sun Ray Servers
- Minor bug fixes. Please, contact sales@leostream.com for more information.

Leostream Agent Version 4.2.70

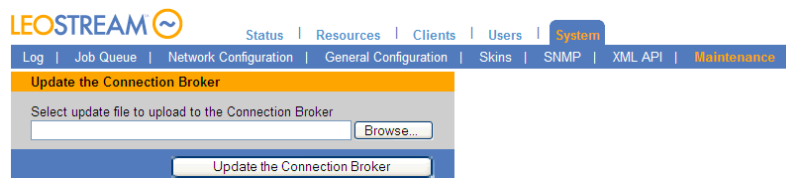
This is a minor bug-fix release for the Leostream extended monitor support. Please, contact sales@leostream.com for more information.

Connection Broker 6.0 P1 (6.0.11) – Release Notes

Connection Broker 6.0 P1 (6.0.11) is available as an upgrade from version 6.0.8. To download and install this update, select the **Check for updates** option on the > **System > Maintenance** page and click **Next**. The following updates page opens:



1. Click the **Click here** link in the first step to check for updates. A new Web browser opens, indicating if there are updates for your Connection Broker
2. If an update is available, download the updated file. Once the file is downloaded, close the browser and return to the Connection Broker Web interface.
3. Click the **Click here** link in the second step of the update process. The following **Upgrade the Connection Broker** form opens.



4. Enter the full path to the update file you downloaded, or browse for the file.
5. Click **Upgrade the Connection Broker** to install the update.

You can optionally monitor the update process. Once the upgrade is complete, you may need to sign back into your Connection Broker.

The following lists describe some of the key improvements in Connection Broker 6.0 P1 (version 6.0.11). For a complete list of improvements, please contact sales@leostream.com.

Connection Broker 6.0.11

- You can now download an internal database from a 5.3.50 version of the Connection Broker and upload the database into the 6.0.11 version. See [Upgrading from Version 5.3 to Version 6.0.8](#) for more information)
- Creating pools using tags no longer causes an internal server error.
- RGS connections no longer fail when the user's password contains numbers.
- No longer error out if a customization file is specified when provisioning desktops in a pool.
- Added a high-water mark for license usage to the > **System > Maintenance** page.
- The behavior of the **Forced logout** policy option in the **When User Disconnects from Desktop** section has changed.

Prior to Connection Broker 6.0.11, the **Force logout** policy action was taken *only* if the user was still assigned to their desktop. Therefore, if the **Assignment** action had a shorter wait time than the

Forced logout action, and the assignment action was to release the desktop back to the pool, the forced logout action was never taken.

Starting with Connection Broker 6.0.11, the **Forced logout** action is *always* taken, even if the desktop was released to the pool. For example, if the **Assignment** action releases the desktop 8 hours after the user disconnects from the desktop, and the **Forced logout** action logs the user out 12 hours after the user disconnects, in 6.011, the Connection Broker executes both the release and logout actions. Prior to 6.0.11, the Connection Broker executed only the release action.

Leostream Connect 2.3.41

- Uninstaller replaces the shell registry key with `explorer.exe`, if Leostream Connect had been installed in shell mode.
- Bug fix: Improved internationalization of installer for Portuguese and Spanish versions.

Leostream Connect/Java 1.3.85

- Improvements to `utswitch` for Sun Ray DTUs.
- Added customization parameters to control button colors on the Leostream Connect/Java dialogs. For more information, please, consult the `index.html` included in the ZIP-file.
- UI enhancements on the Resource Selection dialog.
- Disable UI control while a login is in progress.

Leostream Agent 4.2.59

- Improvements to SSL implementation
- Improvements for handling 64-bit operating systems.
- Improvements to multi-monitor support

Points of Interest

- Connection Broker 6.0 introduces a new Web interface design. For best results, close any existing Connection Broker Web interfaces and clear your Web browser's cache before you launch the new Connection Broker Web interface.

If you experience flaws in any of your Connection Broker Web interface pages, press CTRL-Refresh to reload the page.

- In some cases, the internal database in Connection Broker 6.0 is case sensitive. If you are upgrading a 5.3 Connection Broker to version 6.0, ensure that all pools, tags, locations, policy filters, etc. that use either the **is equal to** or **is not equal to** conditional take case sensitivity into account.
- The Connection Broker allows you to hard-assign desktops to client devices. When a user logs into one of these clients, the Connection Broker offers the user *only* the desktop assigned to that client. However, the Connection Broker will offer any applications that are offered to the user via their policy.
- If you switch your 6.0 Connection Broker to an external database, you may lose your network settings. You can reset your network using the Connection Broker virtual machine's console (see "Manually Configuring the Connection Broker Address" in the [Leostream Installation Guide](#) for instructions. After you reset the network at the console, log into your Connection Broker Web interface. Go to the **> System > Network Configuration** page and set your static IP address, here, as well. If you do not

reset the IP address through the **Network Configuration** page, you may need to reset your network in the virtual machine console every time you reboot your Connection Broker.

- When using Leostream Connect/Java with Sun Ray DTUs, if Leostream Connect returns a “Cannot open audio device” error, add the following parameter to the Sun Ray `uttsc` **Command line** field in the **Leostream Connect Configuration** section of the Connection Broker policy:

```
-r:sound off
```

Additional errors, such as 'Invalid Timezone translation', may occur, and may be related to other Sun Ray `uttsc` parameter. Try logging out and logging back in, if unknown errors occur. If the problem persists, and have a current support contract or evaluation agreement, contact the support team at www.leostream.com/support.

Connection Broker 6.0 GA (6.0.8) – Release Notes

Connection Broker 6.0 expands on the feature set available in version 5.3 SP3 (5.3.50). See [Upgrading from Version 5.3 to Version 6.0.8](#) for information on how to upgrade your 5.3 Connection Broker. If you need to upgrade an older version of the Connection Broker to version 5.3.50, please see the Connection Broker 5.3 release notes available on the **Downloads & Documentation** page of the Leostream Web site.

Connection Broker Version 6.0

- **XenServer Support:** New virtual appliance that can be installed on Citrix XenServer 5.0 (see the Leostream [Installation Guide](#)).

The Connection Broker now supports installation on the following platforms:

- VMware Server version 2.0.x
- VMware Workstation version 6.5.x
- VMware ESX and ESXi 3.5
- Citrix XenServer 5.0

Note: The Connection Broker no longer supports installation on the following platforms:

- VMware Server 1.0.x
- VMware ESX 3.0.x

- **Extended Monitor Support:** Create monitor layout groups. Monitor layout groups allow you to define groups of clients that have a predefined number of attached monitors, for example, a call center with two monitors attached to each client.

When a client in a particular monitor layout group connects to a remote desktop running the Leostream Agent, the remote session is extended across all available monitors. End users can either split or span their session across all their monitors, allowing them to position the task bar across a single, or all, monitors. Applications intelligently position and resize, based on the size and number of monitors.

- **Desktop Management:**
 - Register virtual and physical desktops with the Connection Broker using the desktop's IP address. Eliminates the requirement that you must create a Connection Broker center; and allows you to register desktops that are not part of any Active Directory domain.
 - New bulk action to delete multiple desktops from the Connection Broker.
- **Syslog Integration:** Integration with syslog servers to ease audit tracking and compliance.
- **Reporting:** Built-in reports on resource usage and Connection Broker policy setup.
- **Downloading Connection Broker Data:** Option to download CSV-files from all Connection Broker tables, simplifying importing Connection Broker data into a spreadsheet application, such as Microsoft

Excel, for future analysis.

- **Filtering Pools:** Filter pools in a policy using any Active Directory attribute. Previous Connection Broker versions allowed filtering pools only using the `managedBy` attribute.
- **Web Interface:** New Connection Broker Web interface look-and-feel.

Leostream Connect Version 2.3.37

- Client-side single sign-on provides direct access to a user's remote desktop as soon as they launch Leostream Connect.
- Leostream Connect start menu name has changed. Upgrading to 2.3 replaces the **Leostream Connect** menu with a general **Leostream** menu.
- Spanish and Portuguese translations of Leostream Connect.
- New installation option to install in shell mode.
- USB drivers are now signed, enabling automatic updates of the Leostream Connect client from the Connection Broker when the drivers are installed.
- Updated version of OpenSSL to v0.9.8k. Leostream Connect first tries to communicate with the Connection Broker using SSL, the fails over to non-SSL communications, over port 443 and 80, respectively.
- USB passthrough improvements.
- Improvements to HP RGS support on 64-bit machines.
- Enhanced discovery of Connection Broker address to include **DNS Suffix Search List**, if one is configured.

Leostream Connect/Java Version 1.3.75

- New and expanded GUI look-and-feel.
- Performance and usability enhancements.
- Support for unauthenticated logins.
- No longer require a `policy.dat` file to store Connection Broker policies used by Leostream Connect

Leostream Agent Version 4.2.55

- New extended monitor support provides true multi-monitor support for clients connected to any number of monitors. Applications position and maximize intelligently. Works in conjunction with Connection Broker monitor layout groups.
- Updated version of OpenSSL to v0.9.8k. The Leostream Agent can now use SSL to communicate with the Connection Broker.
- Enhanced single sign-on.
- Leostream Agent start menu name has changed. Upgrading to 4.2 replaces the **Leostream Agent** menu with a general **Leostream** menu.
- Enhanced discovery of Connection Broker address to include **DNS Suffix Search List**, if one is

configured.

- USB drivers are now signed, enabling automatic updates of the Leostream Connect client from the Connection Broker when the drivers are installed

Points of Interest

- Connection Broker 6.0 introduces a new Web interface design. For best results, close any existing Connection Broker Web interfaces and clear your Web browser's cache before you launch the new Connection Broker Web interface.

If you experience flaws in any of your Connection Broker Web interface pages, press CTRL-Refresh to reload the page.

- The internal database in Connection Broker 6.0 is case sensitive. If you are upgrading a 5.3 Connection Broker to version 6.0, ensure that all pools, tags, locations, policy filters, etc., take case sensitivity into account. For example, in 5.3 a pool created with desktops that start with "QA" will include all desktops that start with "QA", "qa", "Qa", and "qA". In 6.0, the pool will contain only desktops whose names begin with "QA".
- The Connection Broker allows you to hard-assign desktops to client devices. When a user logs into one of these clients, the Connection Broker offers the user *only* the desktop assigned to that client. However, the Connection Broker will offer any applications that are offered to the user via their policy.
- If you switch your 6.0 Connection Broker to an external database, you may lose your network settings. You can reset your network using the Connection Broker virtual machine's console (see "Manually Configuring the Connection Broker Address" in the [Leostream Installation Guide](#) for instructions. After you reset the network at the console, log into your Connection Broker Web interface. Go to the > **System > Network Configuration** page and set your static IP address, here, as well. If you do not reset the IP address through the **Network Configuration** page, you may need to reset your network in the virtual machine console every time you reboot your Connection Broker.
- When using Leostream Connect/Java with Sun Ray DTUs, if Leostream Connect returns a "Cannot open audio device" error, add the following parameter to the Sun Ray `uttsc` **Command line** field in the **Leostream Connect Configuration** section of the Connection Broker policy:

```
-r:sound off
```

Additional errors, such as 'Invalid Timezone translation', may occur, and may be related to other Sun Ray `uttsc` parameter. Try logging out and logging back in, if unknown errors occur. If the problem persists, and have a current support contract or evaluation agreement, contact the support team at www.leostream.com/support.

Connection Broker Version 5.3.x – Release Notes

Connection Broker Version 5.3 SP3 (5.3.50)

Features

The following features were added to the 5.3 SP3 release.

- Citrix Presentation Server centers no longer require an installed Leostream Agent if the Presentation Server enables its XML RPC service. The Connection Broker now communicates with the Presentation Server over the Citrix XML RPC port. If you do not enable this service, or the XML RPC port is blocked, you must install the Leostream Agent. Using the XML RPC service provides a higher level of performance for Presentation Servers that contain a large number of applications.

- Include port check for the HP RGS remote viewer when the **Automatically select remote viewer protocol** option is selected in the **Leostream Connect Configuration** section on the **> System > General Configuration** page. See “Configuration Leostream Connect” in the [Connection Broker Administrator’s Guide](#) for more information on using this option.
- New **<All>** option in the **Number of desktops to offer** drop-down menu in each **Pools** section in a policy. By selecting **<All>**, you can offer a user all the desktops in a particular pool, with the exception of desktops that are hard-assigned to another user.
- You can now define locations based on the client’s operating system. To do so, select the new **Operating system** option in the **Client attribute** drop-down menu in the **Create Location** page. To create a location that contains all clients running a Microsoft Windows operating system, select **Windows (any version)** from the **Value** drop-down menu.
- You can now override the Leostream Connect remote viewer protocol selected in a policy based on the client’s location. From the **Leostream Connect** drop-down menu in the **Protocol Override** section on the **Create Location** page, select the protocol to assign to clients in this location. The location-based remote viewer protocol is not checked during the **Test Login** operations on the **> Users > Users** page.
- New **Desktop Assignment Mode** column on the **> Clients > Clients** page, which indicates if a client has a hard-assigned or policy-assigned desktop. If you previously customized the columns displayed on this page, use the **customize** option at the bottom of the table to display this new column.

Resolved Issues

The following is a sample of the bugs addressed in the 5.3 SP3 Connection Broker release. For a complete list of bugs addressed in the 5.3 SP3 release, please contact sales@leostream.com.

- Fix for `USB_ENABLED` return parameter in the thin client API `ThinWin.connection_list`.
- Wyse thin clients cannot display domain names that contain blank spaces. Therefore, in your Connection Broker, if you defined an authentication server with a name that contained spaces, users could not successfully log into these domains. As a work around in 5.3 SP3, for Wyse thin clients, the Connection Broker replaces blank spaces in an authentication server name with `\x20`. For example:

My Domain

appears as:

My\x20Domain

To avoid this reformatting, do not use blank spaces in Connection Broker authentication server names.

Connection Broker Version 5.3 SP2 (5.3.36)

Features

The following features were added to the 5.3 SP2 release. These features are described in the remainder of these release notes.

- New **Login name unique across domains** option on the **> System > General Configuration** page.
- New power control policy option to force a desktop to power off.
- New error messages displayed to users when they are locked out or disabled in a particular authentication server.
- Ability to reorder the rows in the **Assigning User Role and Policy** section of the authentication server, when the authentication server is created with the **Query for group information** option *not* selected.

Resolved Issues

The following is a sample of the bugs addressed in the 5.3 SP2 Connection Broker release. For a complete list of bugs addressed in the 5.3 SP2 release, please contact sales@leostream.com.

- Fix for Thin client API `ThinWin.Session.Status`.
- Fix for the LDAP size limit error that could occur if an authentication server contained a large number of disabled users.
- Fix for the **Signed in** field on the > **Users** > **Users** page, when a user is logging in from a Wyse client. Now always indicates the last time the user signed in from a Wyse client, whether they successfully signed into a VM, or not.
- No longer create duplicate entries of Wyse clients on the > **Clients** > **Clients** page. Existing duplicates must be manually removed.
- Now show IP address for Leostream Connect clients on the > **Clients** > **Clients** page.

Connection Broker Version 5.3 SP1 (5.3.27)

If you installed Connection Broker 5.3.21, you can select the **Check for updates** option on the > **System** > **Maintenance** page to upgrade to 5.3 SP1. You can also obtain a new 5.3 SP1 virtual appliance from the Leostream Downloads & Documentation Web site.

Features

The following features were added to the 5.3 SP1 release. These features are described in the remainder of these release notes.

- Support for logging into the Leostream Connection Broker from a device running an HP SAM client.
- Ability to specify a name for the Connection Broker Microsoft SQL Server 2005 database.
- New tuning option to throttle incoming RPC traffic.
- Ability to reorder the rows in the **Assigning User Role and Policy** section of the authentication server, when the authentication server is created with the **Query for group information** option selected.
- Ability to specify wait periods in days, for policy-based power control or assignment actions.
- Ability to use Skins to customize text on the Connection Broker Web interface **Sign In** form.

Resolved Issues

The following is a sample of the bugs addressed in the 5.3 SP1 Connection Broker release. For a complete list of bugs addressed in the 5.3 P1 release, please contact sales@leostream.com.

- No longer revoke offered applications after the user releases the application.
- Improved monitoring of VM power states.
- Modified the **Time Release** section on the **Edit Policy** form so that desktops can no longer be immediately released after the user logs in.
- Better handling of VMware VirtualCenter errors.
- Improved handling of SSL communications with the Leostream Agent.

Connection Broker Version 5.3

The following features were added after the 5.2.x Connection Broker release.

- Citrix® XenApp™ support when used with Leostream Connect (Microsoft® Windows® and Linux® version) and Wyse thin clients.
- Remote upgrade feature for Leostream Connect client.
- New > **Status** > **Downloads** page with links for downloading the Leostream Agent, Leostream Connect, and Leostream Documentation.
- New ability to specify multiple authentication server addresses inside one record on the > **Users** > **Authentication Servers** page.
- New **Domain** option on the **Test Login** option on the > **Users** > **Users** page.
- Allow additional special characters on smart card logins.
- Enhanced USB support in policies when used with Leostream Connect version 2.2.
- Context sensitive help for Connection Broker forms.
- The **Templates** pool has been removed from the > **Resources** > **Pools** page. Please, use VMware® VirtualCenter to view the templates you use for provisioning.
- Bulk upload feature, to import users, desktops, and clients from a CSC-file.
- Additional columns available on the > **Users** > **Users** page to list Active Directory attributes for users.

The above features are described in the [Connection Broker Administrator's Guide](#) available on the Leostream Downloads and Documentation Web site.

Leostream Connect for Windows Version 2.2.34

Features

- Smart card authentication when using the following smart card technology:
 - ACOS5 smart cards used in conjunction with bit4id Card Manager Admin software and readers.
 - CAC smart cards used in conjunction with ActivIdentity® ActivClient™ security software.
 - Smart cards compatible with the IAS (Identification, Authentication et Signature) middleware (Pilote Carte IAS), jointly developed by Dictao and Gemalto. This feature includes support for French CPS (health care professional's card) certificates.
- Support for launching Citrix® Presentation Server™ version 4.5 applications.
- Fingerprint authentication using DigitalPersona® Pro.
- Support for SafeNet iKey 1000 USB two-factor authentication tokens.
- Support multiple certificates on smart cards, when used with Microsoft Vista remote desktops. Users can now select which certificate to use for authentication.
- The **Allow user to modify password** Leostream Connect general configuration option has been replaced with **Allow unauthenticated logins (hides password field)** .

- Support for NoMachine NX Clients.
- New ability to reboot remote desktops from the Leostream Connect client, based on the end-user's policy.

Resolved Issues

- Fixes for HP RGS running on a 64-bit Windows platform.
- Enhanced Connection Broker auto-discovery algorithm to use the **DNS Suffix Search List**, if one is available.

Limitation

1. Leostream Connect 2.2.x does not support the **Allow users to reset offered desktops** option. If a user's policy enables this option, Leostream Connect will show a **Restart** option in the task bar menu, however the user will not be able to restart their machines.
2. Prior to version 2.2.28, the Leostream Connect installation did not automatically stop any running `LeostreamConnect.exe` process. Therefore, you could not run silent scripts to update Leostream Connect if the old client was running.

Leostream Connect versions 2.2.29, and above, now stop any running `LeostreamConnect.exe` process when installed over versions 2.2.28 and above. For example, a script that installs version 2.2.30 over version 2.2.28 will run silently, even if the 2.2.28 client process is running. However, that same script will not run silently if installing over version 2.2.27, if the client process is running.

3. Smart card readers must be attached to the client before launching Leostream Connect. If you connect the smart card reader after launching Leostream Connect, Leostream Connect cannot read the smart card.

Leostream Connect for Linux Version 1.2.19.15

- Support for the HP RGS remote viewer protocol, using directory mode.
- Usability improvements for GUI.
- Report MAC address of Sun Ray DTU.
- Display domain as a drop-down menu, based on Connection Broker policy.
- Remove user credentials from login screen after remote viewer sessions are launched.
- New ability to reboot remote desktops from the Leostream Connect client, based on the end-user's policy.
- Support for NoMachine NX Clients.
- Support for launching Citrix® Presentation Server™ version 4.5 applications.
- New command line parameters to pass in user name, password, and domain to the client.

Upgrading your Connection Broker

Upgrading from Version 5.3.x to Version 6.1

To upgrade to Connection Broker 6.1 from version 5.3 you must, first, update your 5.3 Connection Brokers to the latest patch version. See “Updating the Connection Broker” in the [Connection Broker Administrator’s Guide](#) for detailed instructions on upgrading the 5.3 Connection Broker.

Note: Connection Broker 6.1 requires a new license key. Please, contact sales@leostream.com to convert your existing key to the new format.

For best performance, ensure that you have no **Running** jobs in your Connection Broker job queue before you begin upgrading your Connection Broker. To check for running jobs, go to the **> System > Job Queue** page and try to filter the **Status** column by **Running**. If a **Running** option doesn’t appear in the **Status** filter, you have no running jobs.

If your centers have a fast refresh rate, you will have difficulty clearing running jobs out of your job queue. Change the **Refresh Interval** of all your centers to **Manual**, to keep new jobs from appearing in the queue.

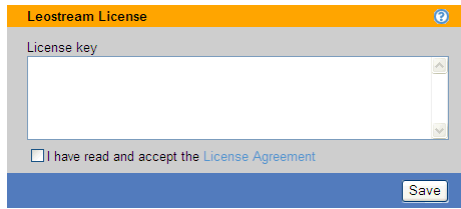
Connection Broker 6.x introduces a new Web interface design. If upgrading from 5.3, for best results, close any existing Connection Broker Web interfaces, and clear your Web browser’s cache before you launch the new Connection Broker Web interface.

If you experience flaws in any of your Connection Broker Web interface pages, press CTRL-Refresh to reload the page.

Upgrade Instructions when Using an Internal Database

If your 5.3.x Connection Broker runs with an internal database, upgrade to the 6.1 Connection Broker, as follows.

1. Change the **Refresh Interval** of all your centers to **Manual**.
2. Back up your existing 5.3.x Connection Broker database.
3. After you have updated your old Connection Brokers to the latest 5.3.x patch, go to the **> System > Maintenance** page.
4. Select the **Download** option.
5. Click **Next**.
6. Save the Connection Broker configuration.
7. Use the **Shutdown** option on the **> System > Maintenance** page to shut down your 5.3.x Connection Broker.
8. Back up your 5.3 Connection Broker.
9. Install the 6.1 Connection Broker.
10. When you sign into the 6.1 Connection Broker, the **Leostream license** page, shown in the following figure, appears. Enter your new 6.1 license key.



! Connection Broker 6.1 will not accept previous versions of the Leostream license. If you are upgrading from Connection Broker 5.3, you must obtain a new license from Leostream.

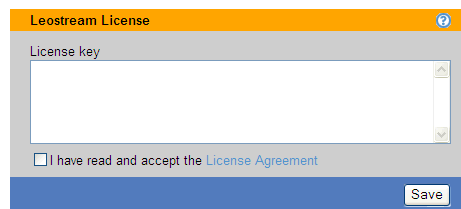
11. Select the **I have read and accept the License Agreement** option.
12. Click **Save**.
13. In the new Connection Broker, go to the **> System > Maintenance** page.
14. Select the **Restore** option.
15. Browse to the file you saved from your previous Connection Broker, and restore the database.

Your version 6.1 Connection Broker now contains all the information from your 5.3 version. Please, scan through the Web interface to ensure no information was lost. If you encounter problems, and have a current support contract or evaluation agreement, contact the support team at www.leostream.com/support.

Upgrade Instructions when Using an External Database

If your 5.3.x Connection Broker runs with an external Microsoft® SQL Server® 2005 database, upgrade to the 6.1 Connection Broker, as follows

1. Change the **Refresh Interval** of all your centers to **Manual**.
2. Shut down all 5.3.x Connection Brokers that point to your SQL Server database. (You can use the **Shutdown** option on the **> System > Maintenance** page to shut down your Connection Brokers.)
3. Back up your existing 5.3.x Connection Broker database.
4. Install the 6.1 Connection Broker.
5. When you sign into the 6.1 Connection Broker, the **Leostream license** page, shown in the following figure, appears. Enter your new 6.1 license key.



Note: Connection Broker 6.1 will not accept a Connection Broker 5.x license key.

6. Select the **I have read and accept the License Agreement** option.
7. Click **Save**.
8. Again, in the **> System > Maintenance** page, select **Switch database**.
9. Select the **External database** option.

10. Enter the information for your existing 5.3.x Connection Broker data base. A warning appears, indicating that the 5.3.x database will be upgraded to the 6.1 format.
11. Accept the warning to upgrade the database. The upgrade is not reversible.

Note: Once the database is upgraded, it cannot be connected back to a 5.3.x Connection Broker.

Your version 6.1 Connection Broker now contains all the information from your 5.3 version. Scan through the Web interface to ensure no information was lost. If you encounter problems, and have a current support contract or evaluation agreement, contact the support team at www.leostream.com/support.

Removing Inactive Running Jobs

If you downloaded your Connection Broker 5.3 database while one of your centers was refreshing, the center will be stuck in the **Refreshing** state in your 6.0 broker. Please, contact Leostream support for information on solving this issue.

Upgrading from Version 5.2.x to Version 5.3.x

The upgrade to Connection Broker 5.3 from version 5.2 requires a reinstall of the Connection Broker. The following Web site contains the Connection Broker 5.3 virtual appliances.

www.leostream.com/cb/index53sp3.php

To upgrade a version 5.1.x or 5.2.x Connection Broker to version 5.3, you must, first, update your 5.1 or 5.2 Connection Brokers to the latest 5.2.10 version. See “Updating the Connection Broker” in the [Connection Broker Administrator’s Guide](#) for detailed instructions on upgrading the 5.2 Connection Broker.

Upgrade Instructions when Using an Internal Database

If your 5.2.x Connection Broker runs with an internal database, upgrade to the 5.3.x Connection Broker, as follows.

1. After you have updated your Connection Brokers to the latest 5.2.x patch, go to the > **System > Maintenance** page.
2. Select the **Download** option.
3. Click **Next**.
4. Save the Connection Broker configuration.
5. Shut down and back up your 5.2.x Connection Broker.
6. Download the Connection Broker 5.3.x file.
7. Install the 5.3.x Connection Broker.
8. In the new Connection Broker, go to the > **System > Maintenance** page.
9. Select the **Upload** option.
10. Browse to the file you saved from your previous Connection Broker.

Your version 5.3 Connection Broker now contains all the information from your 5.2 version. Please, scan through the Web interface to ensure no information was lost. If you encounter problems, and have a current support contract or evaluation agreement, contact the support team at www.leostream.com/support.

Upgrade Instructions when Using an External Database

If your 5.2.x Connection Broker runs with an external Microsoft® SQL Server® 2005 database, upgrade to the 5.3.x Connection Broker, as follows

1. Back up your existing 5.2.x Connection Broker database.
2. Shut down all 5.2.x Connection Brokers that point to this database.
3. Download the Connection Broker 5.3.x file.
4. Install the 5.3.x Connection Broker.
5. In the new Connection Broker, go back to the > **System** > **Maintenance** page.
6. Select **Switch database**.
7. Select the **External database** option.
8. Enter the information for your 5.2.x Connection Broker data base. A warning appears, indicating that the 5.2.x database will be upgraded to the 5.3.x format.
9. Accept the warning to upgrade the database. The upgrade is not reversible.

Note: Once the database is upgrade, it cannot be connected to a 5.2.x Connection Broker.

Your version 5.3 Connection Broker now contains all the information from your 5.2 version. Please, scan through the Web interface to ensure no information was lost. If you encounter problems, and have a current support contract or evaluation agreement, contact the support team at www.leostream.com/support.