



Connection Broker

Where Virtual Desktops Meet Real Business

Licensing Guide

Version 6.x, 7.x
February 8, 2012

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Patents

Leostream products are patent pending.

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License Management

The Connection Broker issues licenses based on Active Named Users (ANU). An ANU is any unique user that has logged into the Connection Broker in the past six months.

You can view and manage license information within the Connection Broker Web interface. To view license information, go to the > **System** > **Maintenance** page.

Viewing License Information

The **License Information** text on the right hand side of the **Maintenance** page, shown in the following figure, displays license information.

The screenshot shows the Leostream web interface. The top navigation bar includes 'Status', 'Resources', 'Clients', 'Plans', 'Users', 'System', and 'Search'. Below this is a secondary navigation bar with 'Log', 'Job Queue', 'Network', 'Settings', 'Skins', 'SNMP', 'XML API', 'Maintenance', and 'Backup'. The 'Maintenance' page is active, showing a sidebar with options like 'Update', 'SSL operations', and 'Database options'. The main content area is titled 'License Information' and contains the following data:

- Current system date: 2010-01-26 (indicated by red arrow 1)
- Number of licenses in use: 7 of 100 (indicated by red arrow 2)
- This license expires: Never (indicated by red arrow 3)
- Your support license expires: 2010-04-23 (indicated by red arrow 4)

Below the license information, there are sections for 'Connection Broker Information' (Version: 6.3.38.0, Installed: 2010-01-21, Last check for update: 2010-01-25) and 'Database Information' (Type: internal, Leostream schema version: 1.229).

License information includes:

1. The current system date.
2. The number of licenses in use
3. Your license expiration date. For production licenses, this value is typically *Never*. For trial licenses, this date indicates when your trial license expires. Contact sales@leostream.com for a trial license extension.
4. The support expiration date.

Contact sales@leostream.com or your hardware vendor to renew an expired license.

Releasing a License

The number of licenses in use coincides with the number of users listed on the > **Users** > **Users** page that have signed into the Connection Broker, with the exception of the default Connection Broker Administrator user. Managing your license usage is a manual process.

If you have users that leave the company, or should no longer be managed by the Connection Broker, manually release their license by deleting that user from the > **Users** > **Users** page. To delete a user:

1. Go to the > **Users** > **Users** page.
2. Check the checkbox in that user's row. (If checkboxes are not shown, click the **customize** link at the bottom of the table and add the **Bulk action** column to the table.) To simultaneously delete multiple users, check multiple boxes.
3. Select **Delete** from the drop-down menu at the top of the column containing the checkboxes.

Installing a New License

To enter a new license key:

1. Go to the **> System > Maintenance** page.
2. Select the **Install new license** option in the **Update** section.
3. Click the **Next** button.
4. In the form that opens, enter your new license key. Ensure that there are no spaces in or after the sequence and that you include the lines containing the text `-----BEGIN LICENSE-----` and `-----END LICENSE-----` line.
5. Click on the **License Agreement** link to open the End User License Agreement for the Leostream™ Connection Broker.
6. Read the agreement and, if you accept it, select the **I have read and accept the License Agreement** check box.
7. Click **Save**.

Reports on License Usage

The **> System > Maintenance** page indicates how many of your total licenses are currently in use. The **> System > Maintenance** page also warn you when you are approaching your license limit.

The reports on the **> Status > Reports** page can assist you in determining what users are currently assigned to resources. See “Generating Connection Broker Reports” in the [Leostream Connection Broker Administrator’s Guide](#) for more information on interpreting resource usage reports.

Support License

A valid support license entitles you to Connection Broker upgrades and access to online Leostream support. The **> System > Maintenance** page indicates your support expiration date.

After your support license expires, the options for updating your Connection Broker on the **> System > Maintenance** page are disabled.

Checking for Connection Broker Updates

The **Connection Broker information** displayed on the right side of the **> System > Maintenance** page displays the current Connection Broker version and the last time it was updated. In addition, you can find your Connection Broker version number at the bottom-left of every page of the Connection Broker Web interface.

You can also remotely determine the version by querying:
`http://cb-address/version`

Where `cb-address` is your Connection Broker IP address or hostname.

You can download and install updates using the **Update** options on the **> System > Maintenance** page.

✓ Leostream recommends taking a snapshot of your Connection Broker virtual machine prior to installing an update. Also, qualify the Connection Broker update in a pre-production environment before you roll the new version into production.

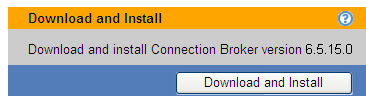
⚠ If the update options are disabled, your Leostream support license has expired and you are no longer eligible for Connection Broker updates. Contact sales@leostream.com to renew your Leostream support license.

Automatically Updating the Connection Broker

If your Connection Broker can access the Leostream Web site and a new Connection Broker update file is available, the **Update Connection Broker to version x.x.x.x** option appears on the > **System > Maintenance** page. The **x.x.x.x** in the prompt indicates the version number of the available update.

To automatically update the Connection Broker to this new version:

1. Select the **Update Connection Broker to version x.x.x.x** option.
2. Click **Next**. The **Download and Install** page, shown in the following figure, opens.



3. Click the **Download and Install** button to perform the update.

The Connection Broker automatically begins to download the update file from the Leostream Web site. After the download completes, the Connection Broker installs the update file, then reboots at the end of the update process.

Downloading a Connection Broker Update File

If your Connection Broker can access the Leostream Web site and a new Connection Broker update file is available, the **Download Connection Broker update for version x.x.x.x** option appears on the > **System > Maintenance** page. The **x.x.x.x** in the prompt indicates the version number of the available update.

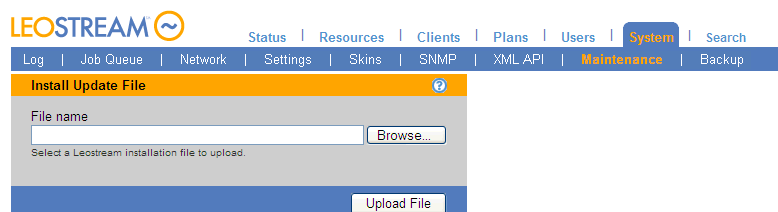
To download the update file, select the **Download Connection Broker update for version x.x.x.x** option and click **Next**. The Connection Broker immediately downloads the file.

You can use this file to update any Connection Broker using the **Install Connection Broker update** option.

Manually Installing a Connection Broker Update File

After you obtain a Connection Broker update file, you can install it into any Connection Broker, as follows.

1. Select the **Install Connection Broker update** option on the > **System > Maintenance** page.
2. Click **Next**. The following **Install Update File** form opens.



3. Browse for the update file or enter the full path to the update file.
4. Click **Upload File**. The Connection Broker checks the new file, and opens a form indicating the current version number and the new version number.
5. Click **Install version x.x.x.x** in this form to finish the installation.

Updating Connection Brokers in a Cluster

If you have several Connection Brokers clustered around a common Microsoft SQL Server 2005 or 2008 database, you must individually update all Connection Brokers in the cluster. When you update the first Connection Broker in the cluster, the update process modifies the database scheme to support the new version. As soon as you update one of the Connection Brokers in the cluster, the remaining Connection Brokers enter maintenance mode.

A Connection Broker remains in maintenance mode as long as the Connection Broker database version is either higher or lower than the version expected by the Connection Broker. When in maintenance mode, the Connection Broker blocks all user logins, with the exception of the following.

- The local Connection Broker Administrator
- Any user with a role that allows **Full access** to the **Maintenance** page

For users that are allowed to log into a Connection Broker in maintenance mode, the Connection Broker blocks all configuration changes with the exception of updating the Connection Broker. After a Connection Broker in maintenance mode is updated, the Connection Broker exits maintenance mode and accepts all user logins.

Related Documents

The following documents provide additional information for getting started with your Connection Broker:

- For more information on installing the Connection Broker, including the Leostream Agent and Leostream Connect, see the [Installation Guide](#).
- For more information on getting started with the Connection Broker, see the [Quick Start](#).