



Connection Broker

Where Virtual Desktops Meet Real Business

Installing Leostream Connect on HP Thin Clients

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Overview

This document provides information on how to install the Java version of Leostream Connect on an HP GT 7725 thin client. This client device does not natively run Java, which is required by Leostream Connect. However, by default, the client device does not have enough memory to install Java and Leostream Connect. Therefore, to complete this installation, you will need to remove packages from the thin client.

This document assumes you have some knowledge of Linux operating systems.

Step 1: Freeing Sufficient Disk Space

To successfully install Java and Leostream Connect, the thin client must have 150 M of free disk space. To create sufficient free disk space:

1. Login into the HP GT 7725 and switch to Administrator mode. Right click on the Desktop background and click on **Administrator/User Mode Switch**. The default Administrator password is `root`.
2. From the **Control Center** (in Administrative Mode) open **Synatric Package Management**. Examine the packages and determine which packages you can safely remove, for example, languages and protocols that you do not use.
3. To verify that you have the enough free space up, go to the **Control Center** (in Administrative Mode) and open **X Terminal**. At the # prompt enter `df -h` and check for free disk space on `/`, for example:

```
root@HP00237DCC093F:~# df -h
Filesystem      Size  Used Avail Use% Mounted on
rootfs         898M 784M 115M 88% /
udev            10M   64K   10M   1%  /dev
/dev/hda1       898M  784M  115M  88% /
/dev/hda1       898M  784M  115M  88% /dev/.static/dev
tmpfs           887M   0    887M   0%  /lib/init/rw
tmpfs           887M  4.0K  887M   1%  /dev/shm
tmpfs           887M  684K  887M   1%  /tmp
/dev/hda2       47M   4.2M   43M   9%  /mnt
/dev/hda2       47M   4.2M   43M   9%  /root
/dev/hda2       47M   4.2M   43M   9%  /home
/dev/hda2       47M   4.2M   43M   9%  /media
```

Step 2: Download Java and Leostream Connect

Download Java and Leostream Connect, as follows.

1. Mount the partition, using the commands shown in the following figure (it should auto-mount):

```
root@HP00237DCC093F:~# mkdir /media/leostream
root@HP00237DCC093F:~# mount /dev/sda1 /media/leostream/
root@HP00237DCC093F:~# df -h /media/leostream/
Filesystem      Size  Used Avail Use% Mounted on
/dev/sda1       7.4G   17M   7.0G   1%  /media/leostream
```

2. Download Java and Leostream Connect Java, as follows:
 - a. From the **X Terminal** run **iceweasel**.
 - b. Modify the download location under **Edit > Preferences**. Set the **Save files to** to `/media/leostream`.
 - c. Go to www.java.com, and click on **Free Java Download**.

- d. Download **Linux (self-extracting file)** (Note: the HP 7725 is a 32-bit OS).
- e. Go to www.leostream.com, and select the **Resources** and **Downloads & Documentation** menus, labeled as 1 and 2 in the following figure.
- f. Download Leostream Connect/Java, by clicking the link labeled 3 in the following figure.

The screenshot shows the Leostream website. The navigation menu at the top includes 'LEOSTREAM', 'SOLUTIONS', 'PRODUCT', 'CUSTOMERS', 'PARTNERS', 'RESOURCES', and 'NEWS & E'. The 'RESOURCES' menu is circled in red and labeled '1'. Below the navigation menu, there is a sidebar with links: 'Knowledge Center', 'White Papers', 'Webinars', 'Case Studies', 'Downloads & Documentation', and 'Training'. The 'Downloads & Documentation' link is circled in red and labeled '2'. The main content area is titled 'Current Releases' and contains text about downloading the current Leostream Connection Broker virtual appliance, Leostream Connect client, and Leostream Agent application. It also mentions a trial license key and a 'Check for updates' option. Below this text is a table with three columns: 'Product', 'Version', and 'Release Date'. The table contains three rows of data. The 'Leostream Connect/Java' link in the third row is circled in red and labeled '3'.

Product	Version	Release Date
Connection Broker	6.3.52	17 February 2010
Leostream Connect	2.5.62	17 February 2010
Leostream Connect/Java	1.5.85	5 February 2010

Step 3: Installing Java

To install Java on the thin client, execute the commands shown in the following figure.

```

root@HP00237DCC093F:/media/leostream# cd /opt
root@HP00237DCC093F:/opt# bash /media/leostream/jre-6u18-linux-i586.bin
.
.
Do you agree to the above license terms? [yes or no]
Yes
root@HP00237DCC093F:/opt#

```

Step 4: Installing Leostream Connect

Before you install Leostream Connect, issue the following command to ensure that the correct Java version is installed on the thin client.

```
java -version
```

If you have multiple versions of java installed, you must use version 1.5 or higher of the Java Runtime Environment.

To install the Java version of Leostream Connect, execute the commands shown in the following figure.

```
root@HP00237DCC093F:/opt# mkdir /opt/leostreamconnect
root@HP00237DCC093F:/opt# chmod 777 /opt/leostreamconnect
root@HP00237DCC093F:/opt# cd /media/leostream
root@HP00237DCC093F:/media/leostream# java -jar LeostreamConnectJava-1.5.85.0.jar -
console
This setup wizard will install Leostream Connect for Java? 1.5.85.0
press 1 to continue, 2 to quit, 3 to redisplay
1
.
.
.
press 1 to accept, 2 to reject, 3 to redisplay
1
Select target path [/media/leostream]
/opt/leostreamconnect
press 1 to continue, 2 to quit, 3 to redisplay
1
You may optionally configure this client during the installation process.

[ ] Enable auto-detection of broker using DNS
input 1 to select, 0 to deselect:
0

Connection Broker Address: [${DEF_BROKER_ADDRESS}]
10.110.1.86
press 1 to continue, 2 to quit, 3 to redisplay
1
[ Starting to unpack ]
[ Processing package: LeostreamConnectJava (1/1) ]
[ Unpacking finished ]
Install was successeful
application installed on /opt/leostreamconnect
[ Console installation done ]
```

Note: When running the `java` command, please include the full path to the appropriate version of the Java installation.

If the installer does not create the `/opt/leostreamconf/lc.conf` file, you must use the Leostream Connect **Options** dialog to setup the Connection Broker address.

Step 5: Configuring Leostream Connect

In order to use Leostream Connect from the Control Center, do the following.

1. From the HP 7725 **Control Center**, click on **+ Add** and select **Custom**.
2. Set the **Name:** to **LeostreamConnect/Java**.
3. In the **Enter command to run** field, enter:

```
java -jar /opt/leostreamconnect/LeostreamConnect.jar
```

4. Click **Next**.
5. Set **Auto Start priority** to **1** and check on **Allow the user to launch this connection**.
6. Click **Finish**.

Deploying Leostream Connect on Standard Thin Client Images

When you install Leostream Connect, the client creates a client ID, which it sends to the Connection Broker when a user logs in from the thin client. The Connection Broker uses the client ID to uniquely identify different physical client devices.

If you clone your thin clients from a standard image that includes a Leostream Connect installation, you may create multiple unique physical devices with the same client UUID. The replicated client identifiers cause the Connection Broker to incorrectly inventory your client devices.

To avoid this problem, delete the `.clientuuid` file found inside the Leostream Connect installation directory on the image used to build your thin clients.