CISCO

Cisco Smart Licensing Utility
Quick Start Setup Guide

Version 2.2.0

First Published: 01/31/2020
Last Modified: 10/27/2022

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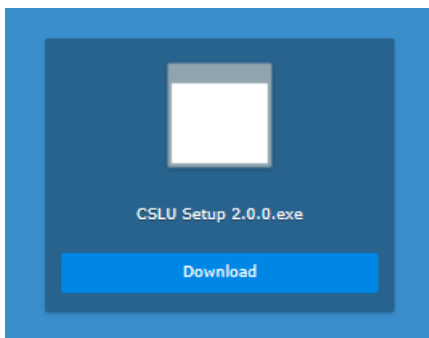
General Information

Cisco Smart License Utility Manager (CSLU) is a Windows-based solution that enables customers to manage devices from their premises instead of having to directly connect their Smart Licensed enabled product instances to Cisco Smart Software Manager hosted on cisco.com.
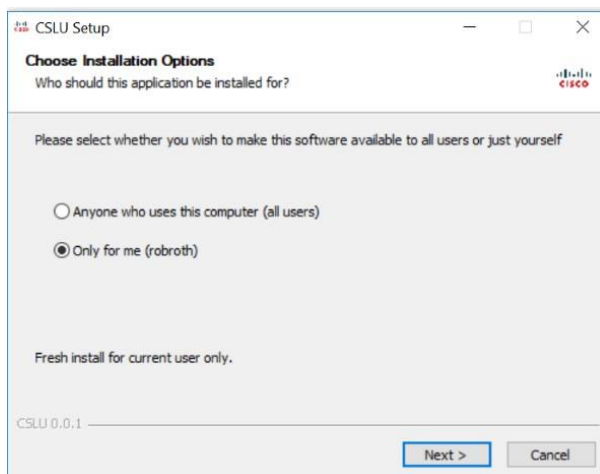
CSLU Setup – Windows

See the following subsections to perform the CSLU installation/uninstallation for Windows.

Installing

1. Obtain the URL where the *CSLU Setup 2.2.0.exe* file resides. Once you have located and opened the *Setup.exe* file, click the **Download** button:
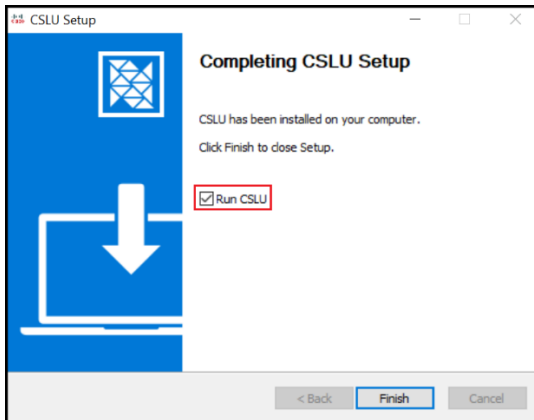

2. The **Choose Installation Options** wizard screen opens:

   Select either:

   - **Anyone who uses the computer (all users)**
     Select this option if there are multiple users on this machine where all users have permission to use this application.

   - **Only for me (username)**
     Select this option if there are multiple users on this machine, but **only you** will have permission to use this application.
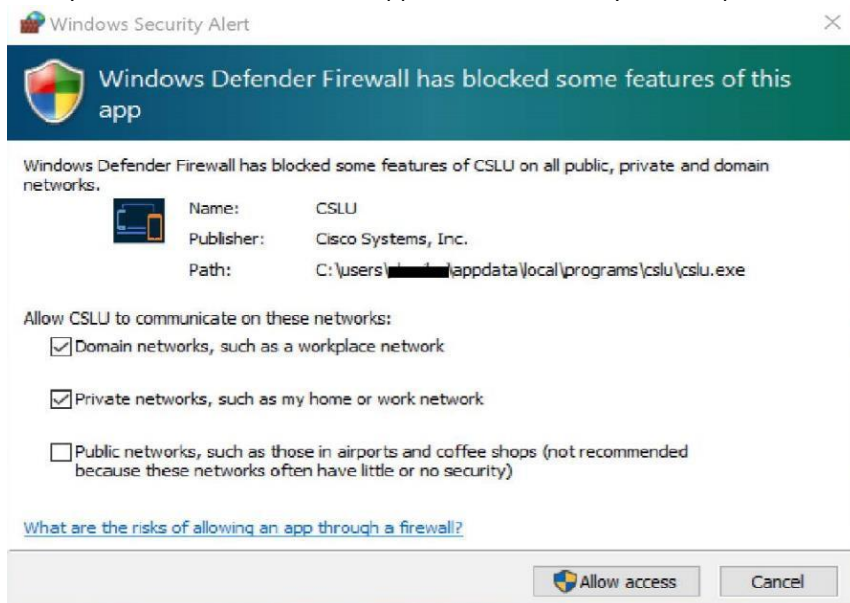
3. Click **Next**. The **Choose Install Location** screen opens.

4. Select the **directory** that will contain the CSLU files. The correct path for **Only for me** option uses a path similar to this one:
   C:\Users\<username>\AppData\Local\Programs\CSLU

5. After you have chosen the Destination Folder, click **Install**. The installation process begins.

6. When the installation process finishes, you can select **Run CSLU**, which will open CSLU immediately, or finish the installation process without opening the application.

7. Click **Finish**. This installation is now complete. The CSLU application's main screen opens with a Cisco login modal. At this step you can either:

   - Log into Cisco using your COO.

   - Click the **x** in the upper right corner to close the modal and begin working in CSLU without being connected to Cisco.

First Steps

After you have installed the CSLU application and when you first open it, one of the following modals open:

✎

NOTE: Refer to Appendix 1: CSLU Firewall Settings for more details on firewall settings.


After you have configured your firewall settings, you will need to perform the following steps to receive usage reports:

- Create Product Instances

- Log into CSSM for detailed instructions on configuring and using CSLU, see the *CSLU User Guide.*

Uninstalling

CSLU is a Windows-based application and therefore can be uninstalled like any other Windows application. Complete these steps to uninstall the CSLU application:

1. Close CSLU by selecting **CSLU > Quit**.

2. From your desktop, open the Windows **Control Panel**.

3. Select **Programs > Uninstall a program**.

4. Scroll down and select **CSLU 2.2.0**.

5. Right-click on the application and select **Uninstall**.

6. When the Uninstall Wizard opens, click **Next**. The uninstall process begins.

7. You are prompted if you want to delete CSLU data or not. Select the appropriate option.
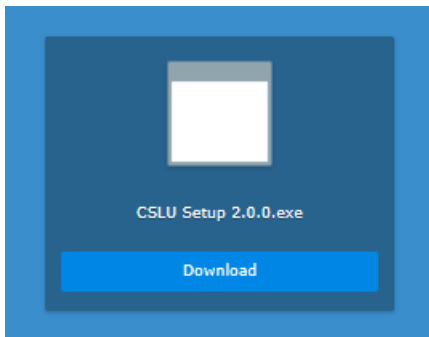

✎
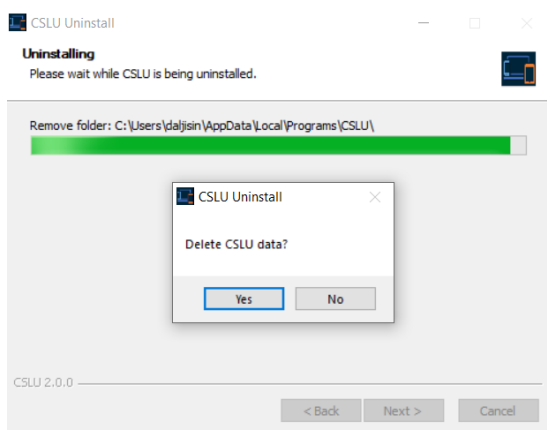
NOTE: You are prompted whether to keep your CSLU data or not. If you choose **Yes**, all your CSLU related data will be deleted !!
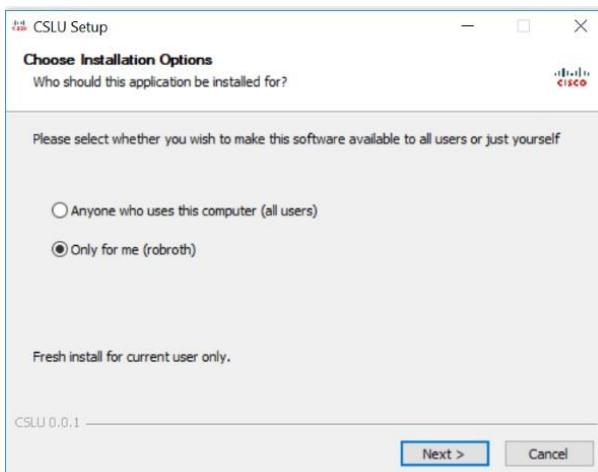
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8. After the installation process is completed, click **Finish** to exit the wizard.

Upgrading the Windows CSLU

1. Obtain the URL where the *CSLU Setup 2.2.0.exe* file resides. Once you have located and opened the *Setup.exe* file, click the **Download** button:

2. The **Choose Installation Options** wizard screen opens:

Select either:

- **Anyone who uses the computer (all users)**
  Select this option if there are multiple users on this machine where all users have permission to use this application.

- **Only for me (username)**
  Select this option if there are multiple users on this machine, but **only you** will have permission to use this application.

3. Click **Next**. The **Choose Install Location** screen opens.

4. Select the **directory** that will contain the CSLU files. The correct path for **Only for me** option uses a path like this one:
   C:\Users\<username>\AppData\Local\Programs\CSLU

5. After you have chosen the Destination Folder, click **Install**. The installation process begins.

6. When the installation process finishes, you can select **Run CSLU**, which will open CSLU immediately, or finish the installation process without opening the application.

7. Click **Finish**. This installation is now complete. The CSLU application's main screen opens with a Cisco login modal. At this step you can either:

   - Log into Cisco using your COO.

   - Click the **x** in the upper right corner to close the modal and begin working in CSLU without being connected to Cisco.

First Steps

After you have installed the CSLU application and when you first open it, one of the following modals open:

✎

NOTE: Refer to Appendix 1: CSLU Firewall Settings for more details on firewall settings.

After you have configured your firewall settings, you will need to perform the following steps to receive usage reports:

- Create Product Instances
- Log into CSSM

For detailed instructions on configuring and using CSLU, see the *CSLU User Guide.*

CSLU Setup – Linux

The following are the libraries needed for CSLU Linux:

Property Name	Debian	Red Hat/CentOS 8
notify	libnotify4	libnotify
nss	libnss3	nss
xss	libxss1	libXScrnSaver
xtst	libxtst6	libXtst
xdgUtils	xdg-utils	xdg-utils
gtk3	libgtk-3-0	gtk3
uuid	libuuid1	libuuid

Before starting the installation of .deb or .rpm files on your system, check for the following libraries before the installation:

yum list installed | grep libXScrnSaver   --- For RED HAT based systems

apt list --installed | grep libxss1   ---- For DEBIAN based systems

If the above two libraries are present then you can follow the installation of .deb or .rpm distros, else you can install them with the following commands:

sudo yum install libXScrnSaver

sudo apt-get install libxss1

CSLU Setup – Debian

See the following subsections to perform the CSLU installation/uninstallation for Debian (Ubuntu 20.04).

NOTE: **For the Installation, Uninstallation, Upgradation of CSLU in Linux environment, you first need to Close/Exit the CSLU UI manually to enable the smooth operation of Installation/ Upgradation/ Uninstallation.**

Installing

Use the **sudo dpkg -i** command to unpack and set up the CSLU application from the *CSLU_2.2.0_amd64.deb* file, as per this example:

Uninstalling

Use the **sudo dpkg -r** command to uninstall the CSLU application, as per this example:

```
daljit@daljit-VirtualBox:~$
daljit@daljit-VirtualBox:~$ sudo dpkg -r CSLU
[sudo] password for daljit:
(Reading database ... 204709 files and directories currently installed.)
Removing cslu (2.0.0-11) ...
-------------------------------
Deleting CSLU data on Uninstall
-------------------------------
Processing triggers for gnome-menus (3.36.0-1ubuntu1) ...
Processing triggers for desktop-file-utils (0.24-1ubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
daljit@daljit-VirtualBox:~$
```

NOTE: For upgradation of CSLU setup – Debian, follow the same procedure as installation of CSLU setup – Debian.

In case of **Uninstallation**, the CSLU device data would **get deleted** and in case of **Upgradation**, the CSLU device data would be **preserved**.

NOTE: If the CSLU setup is installed in a Virtual Machine, the Virtual Machine must be configured to allow writes to its file system if the user wants to use Netconf/Restconf pull modes to collect the data.
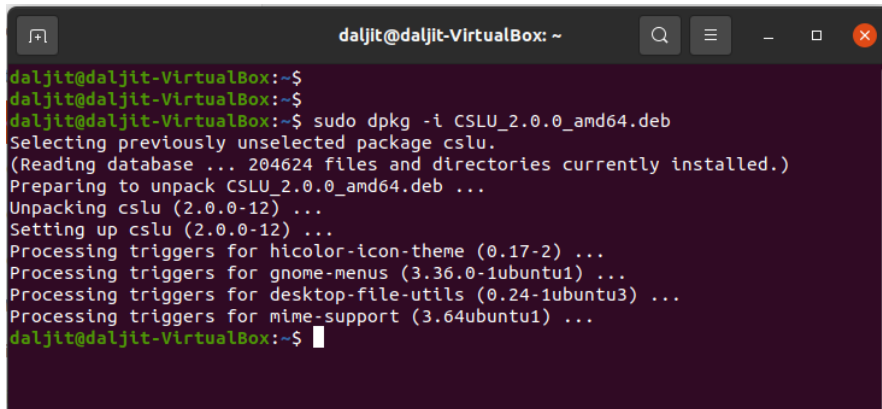
CSLU Setup – Red Hat

See the following subsections to perform the CSLU installation/uninstallation for Red Hat (CentOS 8).

NOTE: **For the Installation, Uninstallation, Upgradation of CSLU in Linux environment, you first need to Close/Exit the CSLU UI manually to enable the smooth operation of Installation/ Upgradation/ Uninstallation.**

Installing

Use the **sudo yum install** command to unpack and set up the CSLU application from the *CSLU-2.2.0.x86_64.rpm* file, as per this example:

```
                                            daljit@localhost:~                                    ×

File  Edit  View  Search  Terminal  Help
[daljit@localhost ~]$ sudo yum install CSLU-2.0.0.x86_64.rpm
[sudo] password for daljit:
Last metadata expiration check: 0:17:44 ago on Wed 25 May 2022 01:54:57 PM IST.
Dependencies resolved.
==============================================================================
 Package         Architecture      Version              Repository          Size
==============================================================================
Upgrading:
 CSLU            x86_64            2.0.0-12             @commandline          73 M

Transaction Summary
==============================================================================
Upgrade  1 Package

Total size: 73 M
Is this ok [y/N]: y
Downloading Packages:
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                          1/1
  Upgrading        : CSLU-2.0.0-12.x86_64                                      1/2
  Running scriptlet: CSLU-2.0.0-12.x86_64                                      1/2
  Cleanup          : CSLU-1.2.0-209.x86_64                                     2/2
  Running scriptlet: CSLU-1.2.0-209.x86_64                                     2/2
  Verifying        : CSLU-2.0.0-12.x86_64                                      1/2
  Verifying        : CSLU-1.2.0-209.x86_64                                     2/2
Installed products updated.

Upgraded:
  CSLU-2.0.0-12.x86_64

Complete!
[daljit@localhost ~]$
```

Uninstalling

Use the **sudo yum remove** command to uninstall the CSLU application, as per this example:

```
                                        daljit@localhost:~                                         ×

 File  Edit  View  Search  Terminal  Help
[daljit@localhost ~]$
[daljit@localhost ~]$
[daljit@localhost ~]$ sudo yum remove CSLU
Dependencies resolved.
=================================================================================================
 Package                  Architecture         Version                Repository           Size
=================================================================================================
Removing:
 CSLU                     x86_64               2.0.0-12               @@commandline        455 M

Transaction Summary
=================================================================================================
Remove  1 Package

Freed space: 455 M
Is this ok [y/N]: y
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
  Preparing        :                                                                        1/1
  Erasing          : CSLU-2.0.0-12.x86_64                                                   1/1
  Running scriptlet: CSLU-2.0.0-12.x86_64                                                   1/1
------------------------------
Deleting CSLU data on Uninstall
------------------------------

  Verifying        : CSLU-2.0.0-12.x86_64                                                   1/1
Installed products updated.

Removed:
  CSLU-2.0.0-12.x86_64

Complete!
[daljit@localhost ~]$
```

✎

NOTE: For upgradation of CSLU setup – Red Hat, follow the same procedure as installation of CSLU setup –
Red Hat.

In case of uninstallation, the CSLU device data would get deleted and in case of Upgradation, the
CSLU device data would be preserved.

✎

NOTE: If the CSLU setup is installed in a Virtual Machine, the Virtual Machine must be configured to allow
writes to its file system if the user wants to use Netconf/Restconf pull modes to collect the data.

Appendix 1: CSLU Firewall Settings

When the CSLU application first runs, Windows 10 prompts you for your firewall settings. Please refer to this table for firewall settings.

CSLU-Connect Mode	CSLU – API Firewall (Backend Server)	CSLU Firewall (UI Client)	Comments
CSLU-Initiated: REST API RESTCONF NETCONF	Select **Cancel**	Select **Cancel**	In the CSLU-initiated mode, the CSLU will never receive requests from external hosts, therefore, the CSLU firewall ports can be blocked.
Product Instance Initiated Only	Select **Allow Access**	Select **Cancel**	In this mode, the CSLU will receive reports and request from the Product Instances, and therefore the CSLU-API firewall needs to be in the **Allow Access** state. **NOTE**: The CSLU firewall is for the UI and the UI does not receive requests from an external host.
Both CSLU-Initiated and Product Instance Initiated	Select **Allow Access**	Select **Cancel**	See: Product Instance initiated note in the Product Instance Initiated only Mode.