ıı|ııı|ıı cısco



Cisco Smart Licensing Utility Installation Guide

Version 2.4.0

First Published: 01/31/2020 Last Modified: 12/28/2024

Americas Headquarters

Cisco Systems, Inc. 170 West Tasman Drive San Jose, CA 95134-1706 USA

http://www.cisco.com

Tel: 408 526-4000 800 553-NETS (6387) Fax: 408 527-0883



THE SPECIFICATIONS AND INFORMATION REGARDING THE PRODUCTS IN THIS MANUAL ARE SUBJECT TO CHANGE WITHOUT NOTICE. ALL STATEMENTS, INFORMATION, AND RECOMMENDATIONS IN THIS MANUAL ARE BELIEVED TO BE ACCURATE BUT ARE PRESENTED WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED. USERS MUST TAKE FULL RESPONSIBILITY FOR THEIR APPLICATION OF ANY PRODUCTS.

THE SOFTWARE LICENSE AND LIMITED WARRANTY FOR THE ACCOMPANYING PRODUCT ARE SET FORTH IN THE INFORMATION PACKET THAT SHIPPED WITH THE PRODUCT AND ARE INCORPORATED HEREIN BY THIS REFERENCE. IF YOU ARE UNABLE TO LOCATE THE SOFTWARE LICENSE OR LIMITED WARRANTY, CONTACT YOUR CISCO REPRESENTATIVE FOR A COPY.

The Cisco implementation of TCP header compression is an adaptation of a program developed by the University of California, Berkeley (UCB) as part of UCB's public domain version of the UNIX operating system. All rights reserved. Copyright © 1981, Regents of the University of California.

NOTWITHSTANDING ANY OTHER WARRANTY HEREIN, ALL DOCUMENT FILES AND SOFTWARE OF THESE SUPPLIERS ARE PROVIDED "AS IS" WITH ALL FAULTS. CISCO AND THE ABOVE-NAMED SUPPLIERS DISCLAIM ALL WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING, WITHOUT LIMITATION, THOSE OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT OR ARISING FROM A COURSE OF DEALING, USAGE, OR TRADE PRACTICE.

IN NO EVENT SHALL CISCO OR ITS SUPPLIERS BE LIABLE FOR ANY INDIRECT, SPECIAL, CONSEQUENTIAL, OR INCIDENTAL DAMAGES, INCLUDING, WITHOUT LIMITATION, LOST PROFITS OR LOSS OR DAMAGE TO DATA ARISING OUT OF THE USE OR INABILITY TO USE THIS MANUAL, EVEN IF CISCO OR ITS SUPPLIERS HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Any Internet Protocol (IP) addresses and phone numbers used in this document are not intended to be actual addresses and phone numbers. Any examples, command display output, network topology diagrams, and other figures included in the document are shown for illustrative purposes only. Any use of actual IP addresses or phone numbers in illustrative content is unintentional and coincidental.

Cisco and the Cisco logo are trademarks or registered trademarks of Cisco and/or its affiliates in the U.S. and other countries. To view a list of Cisco trademarks, go to this URL: http://www.cisco.com/go/trademarks. Third-party trademarks mentioned are the property of their respective owners. The use of the word partner does not imply a partnership relationship between Cisco and any other company. (1110R)



Cisco Smart License Utility 2.3.0 Installation Guide



The Java logo is a trademark or registered trademark of Sun Microsystems, Inc. in the U.S., or other countries.



Table of Contents

General Information	5
CSLU Setup – Windows	5
Installing	5
First Steps	8
Uninstalling	9
Upgrading the Windows CSLU	10
First Steps After Upgrading	12
CSLU Setup – Linux	13
CSLU Setup – Debian	14
Installing	14
Uninstalling	14
CSLU Setup – Red Hat	15
Installing	15
Uninstalling	16
Appendix 1: CSLU Firewall Settings	18



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

This section explains how to perform the CSLU installation/uninstallation for Windows.

Installing

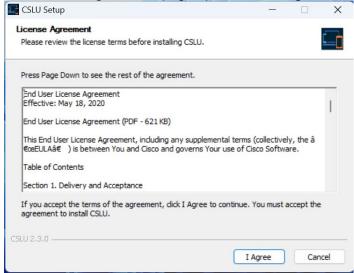
- 1. Navigate to Cisco Software Download Home.
- 2. In the **Select a Product** field, search for "Smart Software Manager". A list of software types appears.
- 3. Click Smart Licensing Utility.
- 4. In the left-hand column, under Latest Release, choose the release you want to download.
- 5. Select the CSLU_Installer_<version number>.exe file and click download.

File Information	Release Date	Size	
Cisco Smart Licensing Utility - CSLU Windows image CSLU_Installer_2.3.0.exe	20-Aug-2024	109.87 MB	<u>+</u> \; •
Cisco Smart Licensing Utility - CSLU RHEL image CSLU_Installer_2.3.0.x86_64.rpm	20-Aug-2024	90.59 MB	<u>+</u> \; •
Cisco Smart Licensing Utility Archive - Windows, Debian, RHEL images, and All Documentation CSLU_Installer_2.3.0.zip	20-Aug-2024	293.11 MB	<u>+</u> \;
Cisco Smart Licensing Utility - CSLU Debian image CSLU_Installer_2.3.0_amd64.deb	20-Aug-2024	90.36 MB	<u>+</u> \;

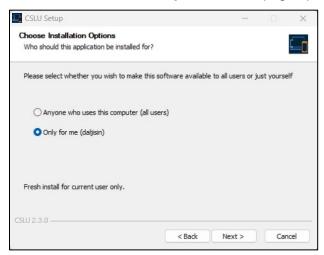
- 6. When the download is complete, navigate to the directory where the file was saved.
- 7. Run the Setup application.



8. The License Agreement page opens. Click I Agree to continue.

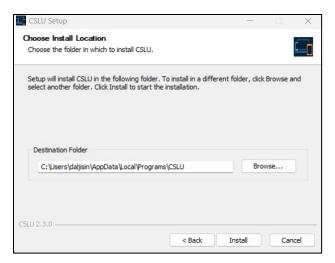


9. The Choose Installation Options wizard page opens.

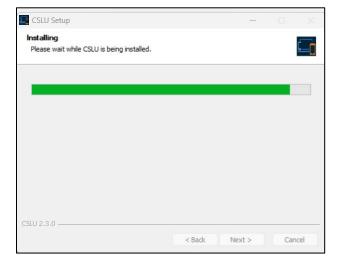


- 10. Choose one of the following options from the Choose Installation Options wizard page:
 - Anyone who uses the computer (all users): Select this option if there are multiple users on this machine where all users have permission to use this application.
 - Only for me (username): Select this option if there are multiple users on this machine, but only you will have permission to use this application.
- 11. Click Next. The Choose Install Location wizard page opens.



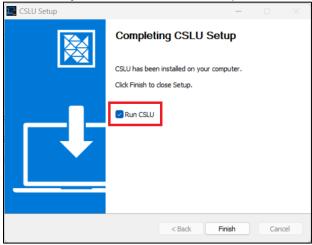


- 12. From the **Choose Install Location** wizard page, choose the **directory** that will contain the CSLU files. The correct path for **Only for me** option uses a path like this one. *C:\Users\<username>\AppData\Local\Programs\CSLU*
- 13. After you have chosen the **Destination Folder**, click **Install**. The installation process begins.





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



- 15. 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, the following modal appears:



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:

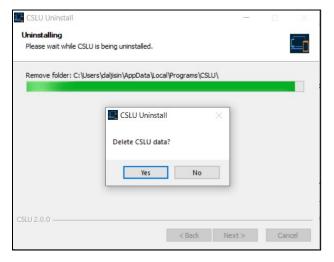
- Create Product Instances
- Log into CSSM

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 2.3.0.
- 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.





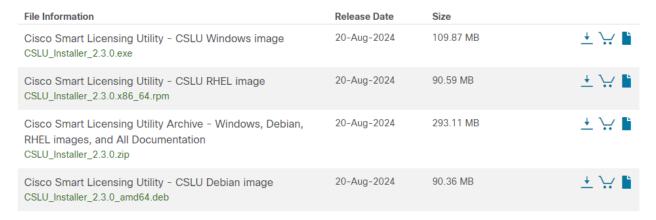
NOTE: You are prompted whether to keep your CSLU data or not. If you choose **Yes**, all your CSLU related data will be deleted !!

8. After the installation process is completed, click **Finish** to exit the wizard.

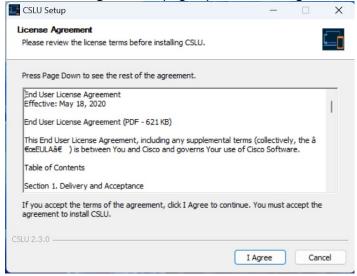


Upgrading the Windows CSLU

- 1. Navigate to Cisco Software Download Home.
- 2. In the **Select a Product** field, search for "Smart Software Manager". A list of software types appears.
- 3. Click Smart Licensing Utility.
- 4. On the left-hand column, under **Latest Release**, choose the release you want to download.
- 5. Select the CSLU_Installer_<version number>.exe file and click download.

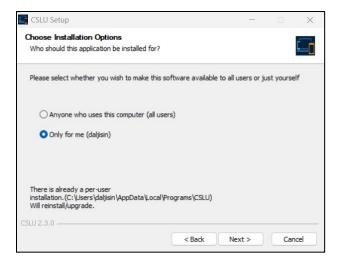


- 6. When the download is complete, navigate to the directory where the file was saved.
- 7. Run the Setup application.
- 8. The License Agreement page opens. Click I Agree to continue.

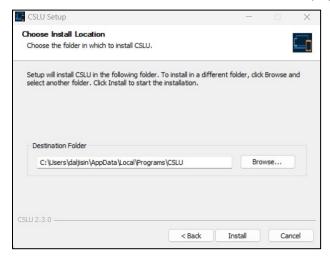


9. The Choose Installation Options wizard page opens.



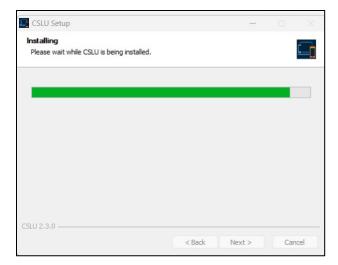


- 10. Choose one of the following options from the **Choose Installation Options** wizard page:
 - Anyone who uses the computer (all users)
 Select this option if there are multiple users on this machine where all users have permission to use this application.
 - Only for me (username)
 Select this option if there are multiple users on this machine, but only you will have permission to use this application.
- 11. Click Next. The Choose Install Location wizard page opens.

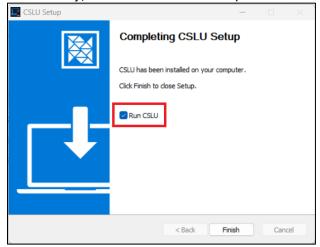


- 12. From the **Choose Install Location** wizard page, choose the **directory** that will contain the CSLU files. The correct path for **Only for me** option uses a path like this one. *C:\Users\<username>\AppData\Local\Programs\CSLU*
- 13. After you have chosen the **Destination Folder**, click **Install**. The installation process begins.





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

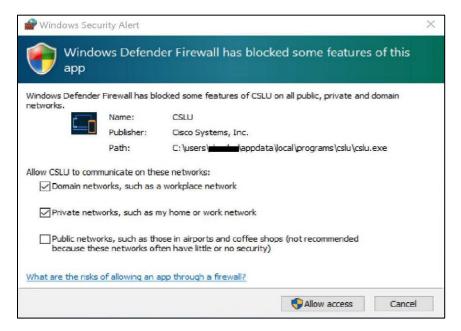


- 16. Click **Finish**. This installation is now complete. The CSLU application's main screen opens with a Cisco login modal. At this step you can either:
 - Log into Cisco using your COO.
 - Click the x in the upper right corner to close the modal and begin working in CSLU without being connected to Cisco.

First Steps After Upgrading

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



uula libuula l		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

This section explains how 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_2.3.0_amd64.deb file, as per this example:

```
daljit@daljit:~$
daljit@daljit:~$
daljit@daljit:~$ sudo dpkg -i CSLU_2.3.0_amd64.deb
Selecting previously unselected package cslu.
(Reading database ... 186073 files and directories currently installed.)
Preparing to unpack CSLU_2.3.0_amd64.deb ...
Unpacking cslu (2.3.0-108) ...
Setting up cslu (2.3.0-108) ...
Processing triggers for hicolor-icon-theme (0.17-2) ...
Processing triggers for gnome-menus (3.36.0-lubuntu1) ...
Processing triggers for desktop-file-utils (0.24-lubuntu3) ...
Processing triggers for mime-support (3.64ubuntu1) ...
daljit@daljit:~$
```

Uninstalling

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





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-2.3.0.x86_64.rpm* file, as per this example:



```
daljit@localhost:~
    [daljit@localhost ~]$ sudo yum install CSLU-2.3.0.x86_64.rpm
[sudo] password for daljit:
CentOS Stream 8 - AppStream
1.7 kB/s | 4.4

CentOS Stream 8 - AppStream

CentOS Stream 8 - AppStream

CentOS Stream 8 - BaseOS

CentOS Stream 8 - BaseOS

CentOS Stream 8 - Extras

CentOS Stream 8 - Extras

CentOS Stream 8 - Extras common packages

CentOS Stream 8 - Extras

CentOS Stream 8 - AppStream

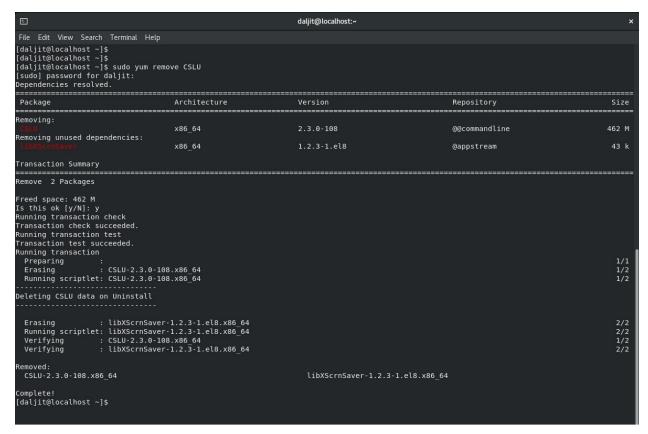
CentOS Stream 8 - Extras

CentOS Stream 8 -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     11% [======
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         116 kB/s |
528 B/s |
4.5 MB/s |
1.3 kB/s |
1.2 kB/s |
1.7 kB/s |
12 kB/s |
365 kB/s |
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      34 MB
3.9 kB
55 MB
2.9 kB
3.0 kB
6.9 kB
24 kB
16 MB
20 kB
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         05:03
00:07
00:12
00:02
00:02
00:03
                                                                                                                                                                                                                          Architecture
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Repository
        Package
                                                                                                                                                                                                                                                                                                                                                                                                                                                         Version
   Upgrading:
                                                                                                                                                                                                                                                                                                                                                                                                                                                         2.3.0-108
   Transaction Summary
    Upgrade 1 Package
   Total size: 79 M
Is this ok [y/N]: y
Downloading Packages:
Running transaction check
Transaction check succeeded.
    Running transaction test
Transaction test succeeded.
Running transaction
Preparing :
                Preparing :
Upgrading : CSLU-2.3.0-108.x86_64
Running scriptlet: CSLU-2.3.0-108.x86_64
Cleanup : CSLU-2.3.0-106.x86_64
Running scriptlet: CSLU-2.3.0-106.x86_64
Verifying : CSLU-2.3.0-108.x86_64
Verifying : CSLU-2.3.0-106.x86_64
        Upgraded:
CSLU-2.3.0-108.x86_64
   Complete!
[daljit@localhost ~]$
```

Uninstalling

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







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		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		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		See: Product Instance initiated note in the Product Instance Initiated only Mode.