



Cisco Brownfield Smart Licensing Tool User Guide

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About the Cisco Brownfield Smart Licensing Tool

The Cisco Brownfield Smart Licensing Tool is a support tool for converting customers from traditional licensing to Cisco Smart Licensing. The Cisco Brownfield Smart Licensing Tool allows the user to search for entitlement data via serial numbers and sales order numbers. The tool enables the gathering of serial numbers from devices online in the existing network infrastructure.

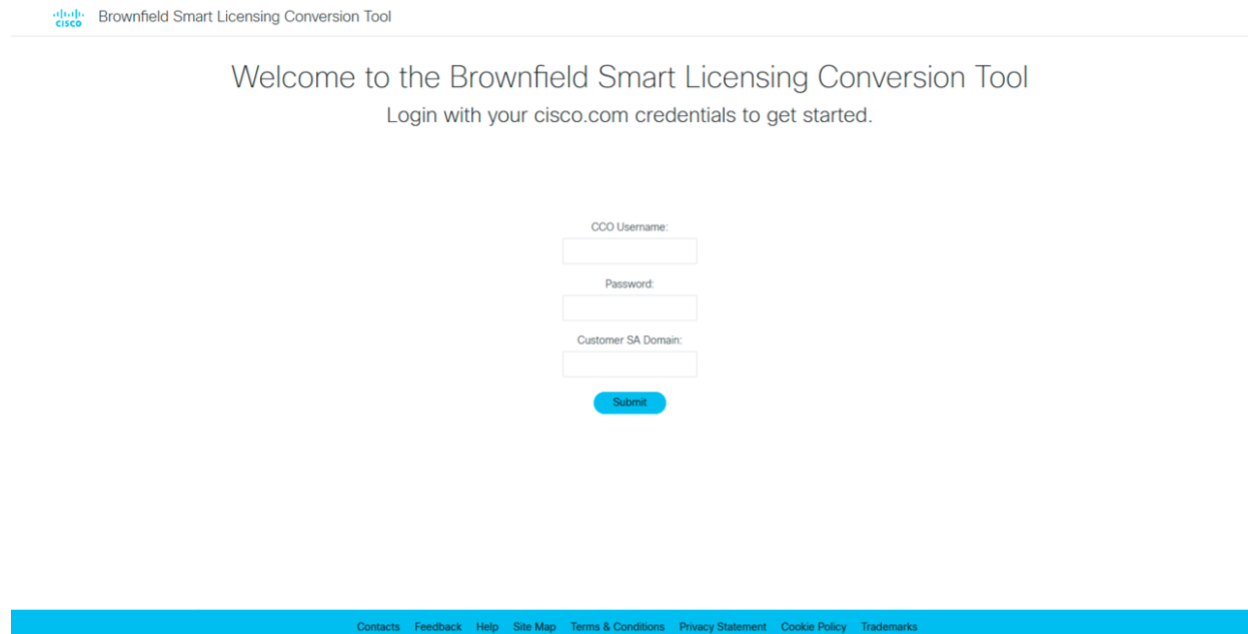
If you have been approved for use of the Cisco Federal License Tool then you can also use the Cisco Brownfield Smart Licensing Tool to automate the installation, licensing of network devices, and uninstall of the Cisco Federal License Tool.

Using the Cisco Brownfield Smart Licensing Tool

Authenticating

When using the Cisco Brownfield Smart Licensing Tool, you will be presented with a login page. When cisco.com is reachable by Cisco Brownfield Smart Licensing Tool you must authenticate with your CCO credentials. This allows for the authentication to the CCW-O and CCW-R APIs on the back end.

If cisco.com is not reachable by Cisco Brownfield Smart Licensing Tool, then any username/password combo can be used to authenticate. In this type of environment only the network scan feature or Cisco Federal License Tool function may be used. Features that require an API call will not be available.



The screenshot shows the login interface of the Cisco Brownfield Smart Licensing Conversion Tool. At the top left is the Cisco logo and the tool's name. The main heading is "Welcome to the Brownfield Smart Licensing Conversion Tool" with a subtext "Login with your cisco.com credentials to get started." Below this are three input fields: "CCO Username:", "Password:", and "Customer SA Domain:". A blue "Submit" button is positioned below the "Customer SA Domain:" field. At the bottom of the page is a blue navigation bar containing links for "Contacts", "Feedback", "Help", "Site Map", "Terms & Conditions", "Privacy Statement", "Cookie Policy", and "Trademarks".

Note: The Customer SA Domain is optional for login however it aids in the generation of reports and email in later steps.

Understanding the main Cisco Brownfield Smart Licensing Tool workflow

After successful authentication you will be presented with the main user page as seen below.

All actions performed with Cisco Brownfield Smart Licensing Tool stem from this page. The workflow begins by collecting serial numbers via one or more methods listed across the top of the screen. The serial numbers are then deduplicated and sent to CCW-R via the submit button at the bottom of the page. At any time, serial numbers from any collection method can be cleared by pressing the associated clear button beneath the collection method.

Collecting Serial Numbers

Serial numbers can be collected using three methods:

- Live network scan
- User input (single search or CSV upload)
- Sales order number search

The Cisco Brownfield Smart Licensing Tool will aggregate all methods used for consolidated CCW-R search and report generation.


Live Network Scan

When using the live network scan function, it is required that Cisco Brownfield Smart Licensing Tool have IP reachability to the network devices being scanned. Click the “SCAN NETWORK DEVICES FOR SERIAL NUMBERS” next button to begin. Upon clicking the “next” button you will be required to upload a .CSV file with the device IP address, Username, and Password. The .CSV should be formatted like the below example:

ipaddr,username,password
10.10.10.10,cisco,cisco
10.10.10.11,cisco,cisco
10.10.10.12,cisco,cisco

Note: Using a different header name in the .CSV will result in a failure. For instance, using the word user vs. username or IP address vs. ipaddr.

Click the browse button and select the .CSV file from your local file system and then click submit to proceed.

 Brownfield Smart Licensing Conversion Tool

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Import a CSV file in the format below to begin network scan

ipaddr	username	password
10.10.10.10	cisco	cisco
10.10.10.11	cisco	cisco
10.10.10.12	cisco	cisco

Select a CSV file: No file selected.

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After submitting the .CSV file, you will be presented with a page to verify your login in information before beginning the scan.

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Verify Network Login Information

IP Address	Username	Password
172.16.82.171	admin	Cisco123#
172.16.82.172	admin	Cisco123#
172.16.82.173	admin	Cisco123#

SUBMIT DATA TO BEGIN NETWORK SCAN

Submit

After verifying that your information is correct, begin the scan by clicking submit. You will be informed that the scan is in progress. Do not navigate away from the page or refresh. You will be redirected when the scan is complete.

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Verify Network Login Information


IP Address	Username	Password
172.16.82.171	admin	Cisco123#
172.16.82.172	admin	Cisco123#
172.16.82.173	admin	Cisco123#

SUBMIT DATA TO BEGIN NETWORK SCAN

Submit

Scanning network devices. Depending on the number of devices this could take some time.
Please do not leave or refresh the page. You will be redirected when the scan is complete.

Upon completion of the scan, you will be redirected to the main page where you will now see the scan data summary box populated with the number of successfully scanned devices. In this example, the number is three.


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Please select a data source from the options below

SCAN NETWORK DEVICES FOR SERIAL NUMBERS
 [Next](#)

SEARCH FOR ENTITLEMENT DATA BY SERIAL NUMBER
 [Next](#)

SEARCH FOR ENTITLEMENT DATA BY SALES ORDER NUMBER
 [Next](#)

SCAN DATA SUMMARY
 Network devices scanned: 3
 [Clear](#)

SERIAL NUMBER DATA SUMMARY
 No Webform SN Data
No File SN Data
 [Clear](#)

SALES ORDER DATA SUMMARY
 No SO Data
 [Clear](#)


SUBMIT DATA TO CCWR

ⓘ Total Deduplicated SNs: 3
 [Submit](#)

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User input (single search or CSV upload)

You can search for a single serial number or search multiple serial number by clicking the next button associated with “SEARCH FOR ENTITLEMENT DATA BY SERIAL NUMBER”. Upon clicking “next” you will be presented with the serial number search function.


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Search a single serial number or upload a .csv file containing serial numbers

Enter one or more Serial Numbers, with each SN separated by a comma:

Select a CSV file: [Browse...](#) No file selected.
 [Submit](#)

[Contacts](#)
[Feedback](#)
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You can search an individual serial number by entering it into the text box on the left side of the page and clicking the magnifying glass on the left side of the box.

You can search for multiple serial numbers by uploading a .CSV file using the browse button and clicking the associated “submit” button.

Please note that the CSV file can have multiple columns with non-serial data; however, there must be at least one column with the word ‘serial’ in the header. If there is more than one column with the word ‘serial’ in the header, the tool will only analyze the first column.

The screenshot shows the Cisco Brownfield Smart Licensing Conversion Tool interface. At the top, there is a navigation bar with the Cisco logo, the title "Brownfield Smart Licensing Conversion Tool", and links for "Main", "FLT", "Help", and a "Logout" button. Below the navigation bar, the main heading reads "Search a single serial number or upload a .csv file containing serial numbers". The interface is divided into two sections. The left section is for searching individual serial numbers, with the instruction "Enter one or more Serial Numbers, with each SN separated by a comma." and a text input box containing a magnifying glass icon. The right section is for uploading a CSV file, with the instruction "Select a CSV file:" followed by a "Browse..." button and the filename "test_data_750.csv". A "Submit" button is located below the filename. At the bottom of the page, there is a blue footer bar containing links for "Contacts", "Feedback", "Help", "Site Map", "Terms & Conditions", "Privacy Statement", "Cookie Policy", and "Trademarks".

At the completion of either search you will be redirected to the main page and the number of imported serial numbers will be displayed in the “SERIAL NUMBER DATA SUMMARY”. In this example we have imported 750 serial numbers. One from the input box and 749 from the .CSV import.

 Brownfield Smart Licensing Conversion Tool

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Please select a data source from the options below

SCAN NETWORK DEVICES FOR SERIAL NUMBERS

Next

SEARCH FOR ENTITLEMENT DATA BY SERIAL NUMBER

Next

SEARCH FOR ENTITLEMENT DATA BY SALES ORDER NUMBER

Next

SCAN DATA SUMMARY

Network devices scanned: 3

Clear

SERIAL NUMBER DATA SUMMARY

Webform input SN count: 1
CSV input SN count: 749

Clear

SALES ORDER DATA SUMMARY

No SO Data

Clear

SUBMIT DATA TO CCWR

Total Deduplicated SNs:

716

Submit

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Note: The total deduplicated serial numbers show a total of 716. This is because our network scan data and serial number search contained duplicates.

Sales order number search

Finally, you can search by sales order number by clicking the ‘next’ button associated with the “SEARCH FOR ENTITLEMENT DATA BY SALES ORDER NUMBER”. When you click the next button, you will be presented with the sales order search function.

Search a single sales order number or multiple sales orders
Multiple sales orders should be comma separated

Enter one or more Sales Order Numbers, with each SO separated by a comma:

 106620939,107280782,107204872

You can search for a single sales order number or for multiple sales order numbers. When searching for multiple sales orders, sales order numbers should be comma separated. The search can be submitted by clicking the magnifying glass on the left side of the text box. Sales order search results will be displayed on the sales order results page.

Add/Remove SO Data:

Add SO SNs to Search Data

Clear SO Data

The SOs that have been successfully retrieved are: 106620939 107280782 107204872

The SOs that have been **UNSUCCESSFULLY** retrieved are:

CCW Sales Order Returned Data:

Sales Order Number	Line Number	Part Number	Quantity
106620939	1.1	WS-C3560CX-8TC-S	4
107204872	1.1	C9300-48T-E	2
107204872	1.1.10	PWR-C1-350WAC/2	2
107204872	1.1.14	STACK-T1-50CM	2
107204872	1.1.18	C9300-NM-8X	2
107204872	1.1.8	PWR-C1-350WAC	2
107204872	2.1	UCSB-B200-M4-U	4
107204872	2.1.11	UCSB-MLOM-40G-01	4

At this point you have the option to clear the data or add it to the overall search results. If you click the “Add SO SNs to Search Data” button you will be redirected to the main page with the

new deduplicated and aggregated data. In this example we now have 2,868 serial numbers that we are ready to search.

The screenshot displays the Cisco Brownfield Smart Licensing Conversion Tool interface. At the top, the Cisco logo and the tool name are on the left, and navigation links (Main, FLT, Help) and a Logout button are on the right. The main heading reads "Please select a data source from the options below". Below this, there are three columns of options, each with a "Next" button:

- SCAN NETWORK DEVICES FOR SERIAL NUMBERS**: Next
- SEARCH FOR ENTITLEMENT DATA BY SERIAL NUMBER**: Next
- SEARCH FOR ENTITLEMENT DATA BY SALES ORDER NUMBER**: Next

Below these options are three summary boxes, each with a "Clear" button:

- SCAN DATA SUMMARY**: Network devices scanned: 3
- SERIAL NUMBER DATA SUMMARY**: Webform input SN count: 1, CSV input SN count: 749
- SALES ORDER DATA SUMMARY**: SOs '106620939', '107280782', '107204872' were searched, returning 2152 serial numbers.

At the bottom center, there is a box titled "SUBMIT DATA TO CCWR" containing a "Total Deduplicated SNs: 2868" and a "Submit" button.

The footer contains a blue bar with links: Contacts, Feedback, Help, Site Map, Terms & Conditions, Privacy Statement, Cookie Policy, and Trademarks.

Search Results

Clicking the “submit” button associated with the “Submit Data to CCWR” box will result in all aggregated serial numbers being sent to CCW-R. This search will return the results on screen and in a .CSV format.

CCWR Data Downloads:

CCW Raw Data

Cat 3K License Report

Open a Case with Cisco Licensing

CCWR Returned Data:

Product Number	Product Description	Serial Number	Parent Serial Number	Instance Number	Sales Order Number	End Customer Name
N20-B6740-2=	UCS B440 M1 Blade Server w/o CPU, memory, HDD	N/A	N/A	1054894308	REPLACE	HP-NAVY
N2200-PAC-400W=	N2K/3K 400W AC Power Supply; Std airflow (Por	N/A	N/A	1063572291	-1	INTERNET INITIATIVE JAPAN INC
POM-OC3-SMLR=	1-port OC3/STM1 Pluggable Optic Module; SM-LR	N/A	N/A	1086931251	-1	AT&T COMUNICACIONES DIGITALES
N7K-M108X2-12L=	Nexus 7000 - 8 Port 10GbE with XL option (req	N/A	N/A	1112925698	-1	INTERNET INITIATIVE JAPAN INC
7300-FANMODULE=	Cisco 7300 Fan Module Spare	N/A	N/A	1127885907	-1	ZON TV CABO PORTUGAL S A
UCS-FI-6296UP=	UCS 6296UP 2RU FI/O PSU/O Fan/O DC - SPARE FO	N/A	N/A	1225333211	-1	ORANGE DATACENTER NORMANDIE
MEM-CF-256MB=	256MB Compact Flash for Cisco 1900; 2900; 390	N/A	N/A	1259204233	REPLACE	INTERNET INITIATIVE JAPAN INC
IDS-RAIL-4=	4 post Rail Kits for the IDS 4235/4250 Sensor	N/A	N/A	1270133928	-1	PALM BEACH COUNTY
SFP-OC3-MM=	OC3/STM1 SFP; Multi-mode fiber	N/A	N/A	1274677630	-1	INTERNET INITIATIVE JAPAN INC
AIR-AP1262N-N-K9	802.11a/g/n Standalone AP; Ext Ant; N Reg Dom	N/A	N/A	1278141623	-1	AT&T COMUNICACIONES DIGITALES

The raw search data can be downloaded in a .CSV format by clicking on the “CCW Raw Data” button. If you are working an entitlement issue for Cisco Catalyst 3K products you can download a specific report for Cisco Catalyst 3K products only by clicking the “Cat 3K License Report” button.

Note: Any product not associated with the Catalyst 3K product family will not appear in the “Cat 3K License Report”. The “CCW Raw Data” report should be downloaded for all other products.

Clicking the “Open a Case with Cisco Licensing” button will open up your default email client with an email template that can be used to submit a case with the Cisco Licensing team for smart licensing conversion. You will need to attach either the “CCW Raw Data” or “Cat 3K License Report” to this email before sending.

Using the Cisco Brownfield Smart Licensing Tool with the Cisco Federal License Tool

Cisco Federal License Tool is a Smart License generation tool that allows you to generate licenses without connecting to the Cisco Smart Software Manager (CSSM). Devices that are installed in highly secure networks and with no access to the internet cannot connect to the CSSM to generate licenses that are required for device registration.

The Cisco Federal License Tool requires a customer certificate to authorize and enable the tool to work in the customer location. The customer certificate is unique to the customer Smart Account. The customer certificate contains important credentials that should not be shared.

Cisco recommends deleting the customer certificate after successfully importing them on the Cisco Federal License Tool.

Note: If you wish to request access to the Cisco Federal License Tool you can do so here:

<https://app.smartsheet.com/b/form/b12d81582f9c4aa1b295d3e2aae4bdeb>

When using Cisco Brownfield Smart Licensing Tool with the Cisco Federal License Tool you may automate the installation, uninstall, and licensing of IOS-XE devices. For supported devices please refer to Cisco Federal License Tool documentation.

Cisco Federal License Tool Install

Prerequisites

- fltool.msi must be present in the Cisco Brownfield Smart Licensing Tool directory
- Customer certificate must be present in the Cisco Brownfield Smart Licensing Tool directory
- Cisco Brownfield Smart Licensing Tool must be running as an administrator
- Cisco Brownfield Smart Licensing Tool must be running on a windows system (Cisco Federal License Tool is only supported on windows)

The begin the installation you must click on the “FLT” tab. Upon clicking the “FLT” tab you will be presented with the page below.

The screenshot displays the Cisco Brownfield Smart Licensing Conversion Tool interface. At the top, there is a navigation bar with the Cisco logo, the title "Brownfield Smart Licensing Conversion Tool", and tabs for "Main", "FLT", "Help", and a "Logout" button. Below the navigation bar, the section "Federal Licensing Tool Automation" is visible. A message states: "If you have been granted access to the Federal Licensing Tool you can use the functions below to install FLT, license devices, and uninstall FLT. This program assumes that the fltool.msi and required certificate are present in the BLT directory." Below this message, there are three main sections: "INSTALL FEDERAL LICENSING TOOL" with input fields for "Enter Certificate Name:" and "Enter Certificate Password:" and an "Install" button; "LICENSE NETWORK DEVICES" with a "Next" button; and "UNINSTALL FEDERAL LICENSING TOOL" with an "Uninstall" button. At the bottom of the page, there is a blue footer bar containing links for "Contacts", "Feedback", "Help", "Site Map", "Terms & Conditions", "Privacy Statement", "Cookie Policy", and "Trademarks".

The automated install of the Cisco Federal License Tool also includes the import for the customer certificate. To install the Cisco Federal License Tool simply provide the name of the customer certificate in the “Enter Certificate Name” input box. This should be a .p12 file. Then, provide the password for the customer certificate in the “Enter Certificate Password” input box. Click the “Install” button to begin the installation.


Automated Device Licensing with the Cisco Federal License Tool

To begin the process of automated device licensing click the “FLT” tab and then click the “Next” button associated with “License Network Devices”. Upon clicking the “next” button you will be required to upload a .CSV file with the device IP address, Username, and Password. The .CSV should be formatted like the below example:

```
ipaddr,username,password
10.10.10.10,cisco,cisco
10.10.10.11,cisco,cisco
10.10.10.12,cisco,cisco
```

Note: Using a different header name in the .CSV will result in a failure. For instance, using the word user vs. username or IP address vs. ipaddr. This process mimics that of the previously discussed network scan function

Click the browse button and select the .CSV file from your local file system and then click submit to proceed.

 Brownfield Smart Licensing Conversion Tool

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Import a CSV file in the format below to begin network scan

ipaddr	username	password
10.10.10.10	cisco	cisco
10.10.10.11	cisco	cisco
10.10.10.12	cisco	cisco

Select a CSV file: No file selected.

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You will be presented with a page to validate your information prior to beginning the licensing operation. Check to make sure your login information is correct and click submit.

 Brownfield Smart Licensing Conversion Tool

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Verify Network Login Information

IP Address	Username	Password
172.16.82.171	admin	Cisco123#
172.16.82.172	admin	Cisco123#
172.16.82.173	admin	Cisco123#

SUBMIT DATA TO BEGIN NETWORK SCAN

[Submit](#)

Upon clicking submit the licensing process will begin. Do not navigate away from or refresh the page. You will be redirected to the licensing results page when the process has finished.

Cisco Federal License Tool uninstall

Prerequisites

- Cisco Brownfield Smart Licensing Tool must be running as an administrator
- Cisco Brownfield Smart Licensing Tool must be running on a windows system (Cisco Federal License Tool is only supported on windows)

To begin the automated, uninstall of the Cisco Federal License Tool simply click the “uninstall” button on the “FLT” tab.