

## **Data Sanitization**

This module provides information on how to sanitize data from devices.

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## **Data Sanitization**

Use the National Institute of Standards and Technology (NIST) purge method that renders the data unrecoverable through simple, non-invasive data recovery techniques or through state-of-the-art laboratory techniques.



**Note** Unless otherwise stated, the data sanitization instructions provide NIST 800-88 clear sanitization techniques in user-addressable storage locations for protection against simple non-invasive data recovery techniques and do not provide techniques that render data recovery infeasible using state of the art laboratory techniques.

Follow these steps to remove the files from a flash drive:

## Procedure

Step 1	factory-reset all secure
	Example:
	Device> factory-reset all secure
	Purges the data on the flash.
Step 2	Copy the image to the flash using TFTP.
	For more information, see Copying Image Files using TFTP.
Step 3	reload
	Example:
	Device> reload
	Reloads the device.

**Note** If you have copied the image to the flash drive (Step 2), the switch reboots automatically.

```
Step 4show platform software factory-reset secure logExample:Device> show platform software factory-reset secure logDisplays the data sanitization report.
```

## **Example: Data Sanitization**

The following example shows how to reset all data from a device:

```
Device# factory-reset all secure
The factory reset operation is irreversible for all operations. Are you sure? [confirm]
The following will be deleted as a part of factory reset: NIST-SP-800-88-R1
1: Crash info and logs
2: User data, startup and running configuration
3: All IOS images, including the current boot image
4: User added rommon variables
5: OBFL logs
6: License usage log files
Note:
1. You are advised to COPY an IOS image via TFTP after factory-reset and before reloading
   the box (OPTIONAL)
2. Then, Reload the box for factory-reset to complete
DO NOT UNPLUG THE POWER OR INTERRUPT THE OPERATION
Are you sure you want to continue?
[confirm]
% factory-reset: started.
% Format of nvram start..
% Format of nvram end...
*Sep 20 11:36:14.980: %SYS-7-NV BLOCK INIT: Initialized the geometry of nvram
% Erase of obfl0 start...
% Erase of obfl0 end...
% Validating obfl0 partition...
003FFFF0: **
```

```
% Format of obfl0 start
% Format of obfl0 complete
% Erase of rsvd start...
. . . . . . .
% Erase of rsvd end...
% Validating rsvd partition...
. . . . . . . . . . . . .
000DFFF0: **
% Erase of flash start...
.....
% Erase of flash end...
% Validating flash partition...
.....
0E9FFFF0: **
% Format of flash start
% Format of flash complete
% Format of vb: start...
% Format of vb: end...
% act2 erase started...
----- USER 1 -----
ObjectID ObjectType ObjectSize
_____
0xBA7E1F05 0x01
                 0x00DC
% act2 erase completed...
#CISCO C1000-48T-4G-L DATA SANITIZATION REPORT#
START : 2022-09-20 11:36:11
END : 2022-09-20 11:37:28
PNM : NAND
MNM : IS34/35ML02G084
MID : 0x00
DID : 0xDAC8
NIST : PURGE SUCCESS
% factory-reset: logging success...
% FACTORY-RESET - Secure Successfull...
```

You are advised to COPY an IOS image via TFTP before reloading the box (OPTIONAL)
 Then, Reload the box for factory-reset to complete

The following is sample output from the show platform software factory-reset secure log command after a secure factory reset of the device:

Device# show platform software factory-reset secure log

#CISCO C1000-48T-4G-L DATA SANITIZATION REPORT# START : 2022-07-13 10:50:29 END : 2022-07-13 10:51:45 PNM : NAND MNM : IS34/35ML02G084 MID : 0x00 DID : 0xDAC8 NIST : PURGE SUCCESS