

Upgrading From Earlier Releases to Cisco IOS XE 17.10 and Later

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SD Flash to Flash

In this scenario:

- The switch is running a version of Cisco IOS XE 17.9.x or earlier and you want to upgrade to Cisco IOS XE 17.10.x or later.
- Cisco IOS XE is running from SD flash and 17.10 or later images should run from flash.
- After the procedure is complete, both the Cisco IOS XE image and the startup-config continue to boot from onboard flash.

Upgrade Procedure

- 1. Sync the running-config from SD flash to flash.
- 2. Download the Cisco IOS XE 17.10 or later image and keep the image in flash.
- **3.** Configure the following commands:
 - a. no boot system
 - **b.** no boot manual
 - **c.** boot system flash: your-switch-universalk9.17.10.01.SPA.bin
 - **d.** boot flash-primary
- **4.** Reload the system.

After reloading, the switch performs a bootloader upgrade, then boots Cisco IOS XE 17.10 or later from flash.

```
Switch#sync sdflash: flash: skip ios-image
BOOT Image: sdflash:ie3x00-universalk9.17.09.02.SPA.bin
Skip file IOS-image : [OK]
Verifying src nvram config : [OK]
Verifying dst nvram config file : [OK]
Verifying src cfg.dat : [OK]
Verifying dst cfg.dat file : [OK]
Skip file private-KS1: [OK]
Syncing nvram config file from sdflash to flash:
Copying vlan configure file from sdflash:vlan.dat to flash:vlan.dat : [OK]
Syncing cfg.dat file from sdflash to var : [OK]
Switch#dir flash:ie3x00-universalk9.17.10.01.SPA.bin
Directory of flash:/ie3x00-universalk9.17.10.01.SPA.bin
                   493968913 Feb 28 2023 01:22:24 +00:00
86813
      -rw-
ie3x00-universalk9.17.10.01.SPA.bin
1651314688 bytes total (995946496 bytes free)
Switch#dir flash:
Directory of flash:/
86883
                        616 Feb 28 2023 01:41:04 +00:00 vlan.dat
      -rw-
                   33554432 Feb 28 2023 01:41:04 +00:00 nvram config
86772 -rw-
86777
      drwx
                    4096 Feb 28 2023 01:39:20 +00:00 .installer
                       4096 Feb 28 2023 01:38:49 +00:00 dc profile dir
86810
      drwx
                     46604 Feb 28 2023 01:36:15 +00:00 pnap.dat
86776
       -rw-
86812 -rw-
                   33554432 Feb 28 2023 01:36:14 +00:00 nvram config bkup
86815 drwx
                      4096 Feb 28 2023 01:32:23 +00:00 EDSrockwell
86959 drwx
                       4096 Feb 28 2023 01:32:22 +00:00 ProfinetGSD
86813
                  493968913 Feb 28 2023 01:22:24 +00:00
       -rw-
ie3x00-universalk9.17.10.01.SPA.bin
                       4096 Feb 28 2023 00:31:32 +00:00 pnp-tech
23670 drwx
                       4096 Feb 14 2023 00:00:00 +00:00 .product analytics
86894 drwx
                       4096 Feb 13 2023 02:43:48 +00:00 .prst sync
86770 drwx
86783 drwx
                       4096 Feb 13 2023 02:35:42 +00:00 .rollback timer
86903
                       4988 Feb 13 2023 02:32:03 +00:00 packages.conf
       -rw-
                       4096 Dec 17 2022 00:56:13 +00:00
86786
       drwx
                      4096 Dec 16 2022 03:21:19 +00:00 pnp-info
23667
      drwx
86774 drwx
                      4096 Dec 16 2022 03:19:00 +00:00 .dbpersist
47331
      drwx
                      4096 Dec 12 2022 04:35:34 +00:00 eem
86884
                       4096 Dec 12 2022 04:35:33 +00:00 managed
      drwx
86881
                       4096 Dec 12 2022 04:35:30 +00:00 onep
                       4096 Dec 12 2022 04:34:51 +00:00 EDScisco
86814
      drwx
86809 drwx
                      4096 Dec 12 2022 04:34:51 +00:00 gs script
                      4096 Dec 12 2022 04:34:51 +00:00 tech support
86793 drwx
86782
      drwx
                       4096 Dec 12 2022 04:34:34 +00:00 core
86781
       drwx
                       4096 Dec 12 2022 04:34:08 +00:00 cflow
86780
                        4096 Dec 12 2022 04:34:08 +00:00 pcap
       drwx
86779
                        0 Dec 12 2022 04:34:08 +00:00 mode event log
       -rwx
86778 drwx
                       4096 Dec 12 2022 04:34:08 +00:00 SHARED-IOX
1651314688 bytes total (995946496 bytes free)
Switch#
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch (config) #no boot system
Switch (config) #boot sys flash:ie3x00-universalk9.17.10.01.SPA.bin
```

```
Switch (config) #no boot manual
Switch(config) #boot flash-primary
Switch(config)#end
Switch#wr
Building configuration...
[OK]
Switch#
Switch#sh boot
Current Boot Variables:
BOOT variable = flash:ie3x00-universalk9.17.10.01.SPA.bin;
Boot Variables on next reload:
BOOT variable does not exist
Config file = sdflash:/nvram config
ENABLE FLASH PRIMARY_BOOT = yes
MANUAL BOOT variable = no
ENABLE BREAK variable = yes
Switch#reload
Proceed with reload? [confirm]
*Feb 28 01:43:00.864: %SYS-5-RELOAD: Reload requested by console. Reload Reason: Reload
watchdog: watchdog0: watchdog did not stop!
reboot: Restarting system
Initializing disk drivers...
Initializing file systems...
************
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***********
* Version: 7.1.14
* Compiled: Wed 20-Apr-22 22:19 [RELEASE SOFTWARE]
* Boot Partition: qspi-upgrade-bootloader
* Reset Reason: Soft Reset
WARNING: DEV key installed
Loading "flash:ie3x00-universalk9.17.10.01.SPA.bin" to memory...
Verifying image "flash:ie3x00-universalk9.17.10.01.SPA.bin"...
Image passed digital signature verification
Checking for Bootloader upgrade...
New version = 8.1.2, Current version = 7.1.14
Erasing 4063232 bytes .....
Writing 932416 bytes .....
Verifying 932416 bytes ......
Erasing 4063232 bytes .....
Writing 936512 bytes .....
Verifying 936512 bytes .....
Bootloader upgrade successful
Resetting...
Initializing disk drivers...
Initializing file systems...
*************
* Rom Monitor for IE3x00
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```

```
* Version: 8.1.2
* Compiled: Fri 09-Sep-22 09:39 [RELEASE SOFTWARE]
* Boot Partition: qspi-upgrade-bootloader
* Reset Reason: Soft Reset
WARNING: DEV key installed
Loading "flash:ie3x00-universalk9.17.10.01.SPA.bin" to memory...
Verifying image "flash:ie3x00-universalk9.17.10.01.SPA.bin"...
Image passed digital signature verification
Checking for Bootloader upgrade...
Bootloader upgrade not required
SUP PL (profile: 1) configuration done successfully
RTOS (profile: 1) boot successful
Taking BP out of reset
Taking LC1 out of reset
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Software feature.

```
cisco IE-3200-8P2S (ARM) processor (revision V01) with 429823K/6147K bytes of memory.
Processor board ID FOC2213V1QC
1 Virtual Ethernet interface
10 Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
1968556K bytes of physical memory.
523264K bytes of crashinfo at crashinfo:.
1638400K bytes of Flash at flash:.
3883008K bytes of sdflash at sdflash:.
                                    : f8:b7:e2:e5:25:80
Base Ethernet MAC Address
Motherboard Assembly Number
Motherboard Serial Number
                                    : 73-101446-05
                                      : FOC221223CJ
                                      : V01
Model Revision Number
Motherboard Revision Number
                                      : 5
Model Number
                                     : IE-3200-8P2S
System Serial Number
                                     : FOC2213V1QC
System Serial Number : FOC2213V1QC
Top Assembly Part Number : 68-101575-01
Top Assembly Revision Number : 26
System FPGA version : 0.89.2
System FPGA version
                                     : 0.89.2
CIP Serial Number
                                     : 0x4AE52580
SKU Brand Name
                                      : Cisco
```

Press RETURN to get started!

Flash to Flash

In this scenario:

- The switch is running a version of Cisco IOS XE 17.9.x or earlier and you want to upgrade to Cisco IOS XE 17.10.x or later.
- Cisco IOS XE is running from flash and 17.10 or later images should run from flash.
- After the procedure is complete, both the Cisco IOS XE image and the startup-config continue to boot from onboard flash.

Upgrade Procedure

- 1. Download the Cisco IOS XE 17.10 or later image and keep the image in flash.
- **2.** Configure the following commands:
 - a. no boot system
 - b. no boot manual
 - c. boot flash-primary
 - **d.** boot system flash: your-switch-universalk9.17.10.01.SPA.bin

3. Reload the system.

After reloading, the switch performs a bootloader upgrade, then boots Cisco IOS XE 17.10 or later from flash.

```
Switch#sh boot
Current Boot Variables:
BOOT variable = flash:ie3x00-universalk9.17.10.01.SPA.bin;
Boot Variables on next reload:
BOOT variable = flash:ie3x00-universalk9.17.10.01.SPA.bin;
Config file = flash:/nvram config
ENABLE_FLASH_PRIMARY_BOOT = yes
MANUAL BOOT variable = no
ENABLE BREAK variable = yes
Switch#relo
Switch#reload
Proceed with reload? [confirm]
*Feb 28 03:15:04.231: %SYS-5-RELOAD: Reload requested by console. Reload Reason: Reload
watchdog: watchdog0: watchdog did not stop!
reboot: Restarting system
Initializing disk drivers...
Initializing file systems...
SD Card is disabled
* Rom Monitor for IE3x00
* Copyright (c) 2017-2021 by Cisco Systems, Inc.
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*******************
* Version: 7.1.14
* Compiled: Wed 20-Apr-22 22:19 [RELEASE SOFTWARE]
* Boot Partition: qspi-upgrade-bootloader
* Reset Reason: Soft Reset
WARNING: DEV key installed
Loading "flash:ie3x00-universalk9.17.10.01.SPA.bin" to memory...
Verifying image "flash:ie3x00-universalk9.17.10.01.SPA.bin"...
Image passed digital signature verification
Checking for Bootloader upgrade...
New version = 8.1.2, Current version = 7.1.14
Erasing 4063232 bytes .....
Writing 932416 bytes .....
Verifying 932416 bytes .....
Erasing 4063232 bytes .....
Writing 936512 bytes .....
Verifying 936512 bytes .....
Bootloader upgrade successful
Resetting...
Initializing disk drivers...
Initializing file systems...
SD Card is disabled
*************
* Rom Monitor for IE3x00
* Copyright (c) 2017-2021 by Cisco Systems, Inc.
```

```
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* Version: 8.1.2
* Compiled: Fri 09-Sep-22 09:39 [RELEASE SOFTWARE]
* Boot Partition: qspi-upgrade-bootloader
* Reset Reason: Soft Reset
WARNING: DEV key installed
Loading "flash:ie3x00-universalk9.17.10.01.SPA.bin" to memory...
Verifying image "flash:ie3x00-universalk9.17.10.01.SPA.bin"...
Image passed digital signature verification
Checking for Bootloader upgrade...
Bootloader upgrade not required
SUP PL (profile: 1) configuration done successfully
RTOS (profile: 1) boot successful
Taking BP out of reset
Taking LC1 out of reset
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```

responsibility to monitor your usage of any such term Software feature to ensure that your systems and networks are prepared for a shutdown of the Software feature.

```
cisco IE-3200-8P2S (ARM) processor (revision V01) with 429823K/6147K bytes of memory.
Processor board ID FOC2213V1QC
1 Virtual Ethernet interface
10 Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
1968556K bytes of physical memory.
523264K bytes of crashinfo at crashinfo:.
1638400K bytes of Flash at flash:.
Base Ethernet MAC Address
                                     : f8:b7:e2:e5:25:80
Motherboard Assembly Number
Motherboard Serial Number
                                     : 73-101446-05
                                     : FOC221223CJ
Model Revision Number
                                     : V01
Motherboard Revision Number
                                     : 5
Model Number
                                     : IE-3200-8P2S
System Serial Number
Top Assembly Part Number
Top Assembly Revision Number
System FPGA version
                                      : FOC2213V1QC
                                     : 68-101575-01
                                    : 26
System FPGA version
                                     : 0.89.2
CIP Serial Number

    0x4AE52580

SKU Brand Name
                                      : Cisco
```

Press RETURN to get started!

SD Flash to SD Flash

In this scenario:

- The switch is running a version of Cisco IOS XE 17.9.x or earlier and you want to upgrade to Cisco IOS XE 17.10.x or later.
- Both 17.9 or earlier images and 17.10 or later images should run from SD flash bundle mode.
- After the procedure is complete, both the Cisco IOS XE image and the startup-config continue to boot from onboard flash.

Upgrade Procedure

- 1. Copy the running-config to flash using the command sync.
- 2. Download the Cisco IOS XE 17.10 or later image and keep the image in SD flash.
- 3. Delete all other Cisco IOS XE images from SD flash and flash.
- **4.** Unset the current boot path from SD flash.
- **5.** Reload the system.

After reloading, the switch performs a bootloader upgrade, then boots Cisco IOS XE 17.10 or later from SD flash in bundle mode.

```
Switch#sync sdflash: flash: skip ios-image
BOOT Image: sdflash:ie3x00-universalk9.17.09.02.SPA.bin
Skip file IOS-image : [OK]
Verifying src nvram config : [OK]
Verifying dst nvram config file : [OK]
Verifying src cfg.dat : [OK]
Verifying dst cfg.dat file : [OK]
Skip file private-KS1 : [OK]
Syncing nvram config file from sdflash to flash:
Copying vlan configure file from sdflash:vlan.dat to flash:vlan.dat : [OK]
Syncing cfg.dat file from sdflash to var : [OK]
Switch#
Switch#
Switch#dir sdfl
Switch#dir sdflash:
Directory of sdflash:/
191
                    33554432 Feb 28 2023 03:41:14 +00:00 nvram config bkup
       -rwx
                    33554432 Feb 28 2023 03:41:12 +00:00 nvram config
217
       -rwx
                   493968913 Feb 28 2023 03:39:16 +00:00
       -rwx
ie3x00-universalk9.17.10.01.SPA.bin
3972005888 bytes total (1891991552 bytes free)
Switch#dir flash:
Directory of flash:/
86883
      -rw-
                        616 Feb 28 2023 03:42:18 +00:00 vlan.dat
      -rw-
86772
                   33554432 Feb 28 2023 03:42:18 +00:00 nvram config
86777
      drwx
                       4096 Feb 28 2023 03:41:43 +00:00 .installer
86810
      drwx
                       4096 Feb 28 2023 03:34:27 +00:00 dc_profile_dir
86776
       -rw-
                      46604
                             Feb 28 2023 03:32:18 +00:00 pnap.dat
                       4096 Feb 28 2023 03:31:05 +00:00 EDSrockwell
86815
      drwx
                       4096 Feb 28 2023 03:31:04 +00:00 ProfinetGSD
86959
      drwx
23670 drwx
                       4096 Feb 28 2023 00:31:32 +00:00 pnp-tech
                       4096 Feb 14 2023 00:00:00 +00:00 .product_analytics
86894 drwx
86770
                       4096 Feb 13 2023 02:43:48 +00:00 .prst_sync
       drwx
86783
       drwx
                       4096 Feb 13 2023 02:35:42 +00:00
                                                         .rollback timer
                       4988 Feb 13 2023 02:32:03 +00:00 packages.conf
86903
       -rw-
86786 drwx
                      4096 Dec 17 2022 00:56:13 +00:00 .ssh
                       4096 Dec 16 2022 03:21:19 +00:00 pnp-info
23667 drwx
86774
                       4096 Dec 16 2022 03:19:00 +00:00 .dbpersist
      drwx
47331
       drwx
                       4096 Dec 12 2022 04:35:34 +00:00
                                                         eem
86884
                       4096 Dec 12 2022 04:35:33 +00:00
       drwx
                       4096 Dec 12 2022 04:35:30 +00:00 onep
86881 drwx
                       4096 Dec 12 2022 04:34:51 +00:00 EDScisco
86814 drwx
86809 drwx
                       4096 Dec 12 2022 04:34:51 +00:00 gs script
86793
                       4096 Dec 12 2022 04:34:51 +00:00 tech support
       drwx
86782
                        4096 Dec 12 2022 04:34:34 +00:00
       drwx
                                                         core
                       4096 Dec 12 2022 04:34:08 +00:00 cflow
86781
       drwx
86780
      drwx
                        4096 Dec 12 2022 04:34:08 +00:00 pcap
86779
      -rwx
                         0 Dec 12 2022 04:34:08 +00:00 mode event log
86778 drwx
                        4096 Dec 12 2022 04:34:08 +00:00 SHARED-IOX
1651314688 bytes total (1524002816 bytes free)
Switch#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config) #no boo manual
```

```
Switch (config) #no boo sys
Switch (config) #no boot fl
Switch (config) #no boot flash-primary
Switch (config) #end
Switch#wr mem
*Feb 28 03:42:51.376: %SYS-5-CONFIG I: Configured from console by console
Building configuration...
Switch#sh boot
*Feb 28 03:43:09.776: %SYS-6-PRIVCFG ENCRYPT SUCCESS: Successfully encrypted private config
file
Current Boot Variables:
BOOT variable does not exist
Boot Variables on next reload:
BOOT variable =
Config file = sdflash:/nvram config
ENABLE FLASH PRIMARY BOOT = no
MANUAL BOOT variable = no
ENABLE BREAK variable = yes
Switch#reload
Proceed with reload? [confirm]
*Feb 28 03:43:18.517: %SYS-5-RELOAD: Reload requested by console. Reload Reason: Reload
Command.
watchdog: watchdog0: watchdog did not stop!
reboot: Restarting system
Initializing disk drivers...
Initializing file systems...
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* Version: 7.1.14
* Compiled: Wed 20-Apr-22 22:19 [RELEASE SOFTWARE]
* Boot Partition: qspi-upgrade-bootloader
* Reset Reason: Soft Reset
WARNING: DEV key installed
Loading "sdflash:/ie3x00-universalk9.17.10.01.SPA.bin" to memory...
Verifying image "sdflash:/ie3x00-universalk9.17.10.01.SPA.bin"...
Image passed digital signature verification
Checking for Bootloader upgrade...
New version = 8.1.2, Current version = 7.1.14
Erasing 4063232 bytes .....
Writing 932416 bytes .....
Verifying 932416 bytes .....
Erasing 4063232 bytes .....
Writing 936512 bytes .....
Verifying 936512 bytes .....
Bootloader upgrade successful
Resetting...
Initializing disk drivers...
Initializing file systems...
************
* Rom Monitor for IE3x00
```

```
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***********
* Version: 8.1.2
* Compiled: Fri 09-Sep-22 09:39 [RELEASE SOFTWARE]
* Boot Partition: qspi-upgrade-bootloader
* Reset Reason: Soft Reset
WARNING: DEV key installed
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RTOS (profile: 1) boot successful
Taking BP out of reset
Taking LC1 out of reset
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```

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other means available. While Cisco may provide alerts, it is your sole
responsibility to monitor your usage of any such term Software feature to
ensure that your systems and networks are prepared for a shutdown of the
Software feature.
% Failed to initialize backup nvram
cisco IE-3200-8P2S (ARM) processor (revision V01) with 429823K/6147K bytes of memory.
Processor board ID FOC2213V1QC
1 Virtual Ethernet interface
10 Gigabit Ethernet interfaces
32768K bytes of non-volatile configuration memory.
1968552K bytes of physical memory.
523264K bytes of crashinfo at crashinfo:.
1638400K bytes of Flash at flash:.
3883008K bytes of sdflash at sdflash:.
Base Ethernet MAC Address
                                  : f8:b7:e2:e5:25:80
                                 : 73-101446-05
Motherboard Assembly Number
Motherboard Serial Number
                                  : FOC221223CJ
Model Revision Number
                                   : V01
                                  : 5
Motherboard Revision Number
                                  : IE-3200-8P2S
Model Number
System Serial Number
                                  : FOC2213V1QC
                                  : 68-101575-01
Top Assembly Part Number
Top Assembly Part Number
Top Assembly Revision Number
                                  : 26
System FPGA version
                                   : 0.89.2
CIP Serial Number
                                   : 0x4AE52580
SKU Brand Name
                                  : Cisco
```

Flash to SD Flash

In this scenario:

Press RETURN to get started!

- The switch is running a version of Cisco IOS XE 17.9.x or earlier and you want to upgrade to Cisco IOS XE 17.10.x or later.
- Cisco IOS XE 17.9.x or earlier is running from flash and Cisco IOS XE 17.10 or later images should run from SD flash.
- After the procedure is complete, Cisco IOS XE image boots from SD flash, but the startup-config is read from onboard flash,



Important

This scenario is not a recommended.

Upgrade Procedure

- 1. Download the Cisco IOS XE 17.10 or later image and keep the image in SD flash.
- **2.** Configure the following commands:
 - a. no boot system
 - b. no boot manual
 - c. no boot flash-primary
- 3. Delete all other bootable image files from SD flash, except for the Cisco IOS XE 17.10 image.
- **4.** Reload the system.

The switch performs a bootloader upgrade, then boots Cisco IOS XE 17.10 or later from SD flash.

```
Switch(config) #no boo sys
Switch(config) #no boo manu
Switch(config) #no boo flash-primary
Switch (config) #end
Switch#wr mem
*Feb 28 04:17:31.637: %SYS-5-CONFIG I: Configured from console by console
Building configuration...
[OK]
Switch#
*Feb 28 04:17:43.168: %SYS-6-PRIVCFG ENCRYPT SUCCESS: Successfully encrypted private config
file
Switch#relo
Switch#reload
Proceed with reload? [confirm]
*Feb 28 04:17:51.460: %SYS-5-RELOAD: Reload requested by console. Reload Reason: Reload
Command.
watchdog: watchdog0: watchdog did not stop!
reboot: Restarting system
Initializing disk drivers...
Initializing file systems...
***********
* Rom Monitor for IE3x00
* Copyright (c) 2017-2021 by Cisco Systems, Inc.
* All rights reserved.
* Version: 7.1.14
* Compiled: Wed 20-Apr-22 22:19 [RELEASE SOFTWARE]
* Boot Partition: qspi-upgrade-bootloader
* Reset Reason: Soft Reset
WARNING: DEV key installed
Loading "sdflash:/ie3x00-universalk9.17.10.01.SPA.bin" to memory...
Verifying image "sdflash:/ie3x00-universalk9.17.10.01.SPA.bin"...
Image passed digital signature verification
Checking for Bootloader upgrade...
New version = 8.1.2, Current version = 7.1.14
```

```
Erasing 4063232 bytes .....
Writing 932416 bytes .....
Verifying 932416 bytes .....
Erasing 4063232 bytes .....
Writing 936512 bytes .....
Verifying 936512 bytes .....
Bootloader upgrade successful
Resetting...
Initializing disk drivers...
Initializing file systems...
* Rom Monitor for IE3x00
* Copyright (c) 2017-2021 by Cisco Systems, Inc.
* All rights reserved.
* Version: 8.1.2
* Compiled: Fri 09-Sep-22 09:39 [RELEASE SOFTWARE]
* Boot Partition: qspi-upgrade-bootloader
* Reset Reason: Soft Reset
WARNING: DEV key installed
Loading "sdflash:/ie3x00-universalk9.17.10.01.SPA.bin" to memory...
Verifying image "sdflash:/ie3x00-universalk9.17.10.01.SPA.bin"...
Image passed digital signature verification
Checking for Bootloader upgrade...
Bootloader upgrade not required
SUP PL (profile: 1) configuration done successfully
RTOS (profile: 1) boot successful
Taking BP out of reset
Taking LC1 out of reset
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Software clause at DFARS sec. 252.227-7013.
          Cisco Systems, Inc.
          170 West Tasman Drive
          San Jose, California 95134-1706
Cisco IOS Software [Dublin], IE3x00 Switch Software (IE3x00-UNIVERSALK9-M), Version 17.10.1,
RELEASE SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
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cisco IE-3200-8P2S (ARM) processor (revision V01) with 429823K/6147K bytes of memory. Processor board ID FOC2213V1QC

1 Virtual Ethernet interface

10 Gigabit Ethernet interfaces

32768K bytes of non-volatile configuration memory.

1968556K bytes of physical memory.

523264K bytes of crashinfo at crashinfo:.

1638400K bytes of Flash at flash:.

3883008K bytes of sdflash at sdflash:.

: f8:b7:e2:e5:25:80 Base Ethernet MAC Address Motherboard Assembly Number : 73-101446-05 Motherboard Serial Number : FOC221223CJ Model Revision Number : V01 Motherboard Revision Number : 5 : IE-3200-8P2S Model Number System Serial Number : FOC2213V10C Top Assembly Part Number : 68-101575-01

Top Assembly Revision Number : 26
System FPGA version : 0.89.2
CIP Serial Number : 0x4AE52580
SKU Brand Name : Cisco

Press RETURN to get started!

Flash to SD Flash