

# Cisco 3850: IOS-XE/Firmware Upgrade (Install Mode)

## NOTE:

- This procedure is aimed at Cisco 3850 switch ONLY.
- IOS-XE Bundle Mode is not covered.
- 9300, 9500 (vanilla & high-performance), ISR 1k, ISR 4k and ASR is not covered.
- Router(s) & switch(es) running "classic" IOS is not covered.

## A Word from our Sponsors:

There is a very fine line between writing something short-and-sweet and writing something comprehensive while losing the target "market" in the process. I have done all I can to make this document as "digestible" as possible without losing much of the important content but still maintaining some forward momentum.

## Introduction:

Switch and/or router firmware had (past tense) a simple procedure, however, for IOS-XE each platform has different commands, process & procedures, and "gotchas". Because of this, I have broken up the process into different sections: 9300, 9500 & routers.

## Section 1: General Procedure

### Section 2: Install SMU

### Section 3: GOTCHA

### Section 4: Emergency-Install

## Section 1: General Procedure

1. Read the Release Notes very carefully.
2. IOS-XE firmware and SMU files have a filename extension of "bin".
3. Clean the flash: `install remove inactive`

**NOTE:** Switch/stack on IOS-XE version 3.X.X, uses a different command:

```
software clean force
```

4. Copy the file into the switch/stack.
5. Make sure the boot-variable string is pointing to "packages.conf" file.

```
Switch#sh boot
-----
Switch 1
-----
Current Boot Variables:
BOOT variable does not exist

Boot Variables on next reload:
BOOT variable = flash:packages.conf
Manual Boot = no
Enable Break = no
Boot Mode = DEVICE
iPXE Timeout = 0
```

6. Initiate Install Mode (**Non-Disruptive/Do NOT Reboot**):

```
request platform software package install switch all file
flash:filename.bin on-reboot new auto-copy verbose
```

**NOTE:** If upgrading *from* 3.X.X, the command is different:

```
software install file flash: filename.bin new force verb on-
reboot
```

```
Switch#_ca- universalk9.16.12.05b.SPA.bin on-reboot new auto-copy verbose
--- Starting install local lock acquisition on switch 1 ---
Finished install local lock acquisition on switch 1
Expanding image file: flash:cat3k_caa-universalk9.16.12.05b.SPA.bin
Jun 25 04:06:26.897: %INSTALL-5-OPERATION_START_INFO: Switch 1 R0/0: provision: Started install package flash:cat3k_caa-universalk9.16.12.05b.SPA.bin[1]: Expanding file
Jun 25 04:06:30.094: %INSTALL-5-OPERATION_START_INFO: Switch 1 R0/0: packtool: Started expand package flash:cat3k_caa-universalk9.16.12.05b.SPA.bin
SUCCESS: Finished expanding all-in-one software package.
Jun 25 04:07:42.913: %INSTALL-5-OPERATION_COMPLETED_INFO: Switch 1 R0/0: packtool: Completed expand package flash:cat3k_caa-universalk9.16.12.05b.SPA.bin... expand successful
[1]: Performing install
SUCCESS: install finished
... Operation install completed. Checking for status
[1]: install package(s) on switch 1
--- Starting list of software package changes ---
Old files list:
Removed cat3k_caa-guestshell.16.12.04.SPA.pkg
Removed cat3k_caa-rpbase.16.12.04.SPA.pkg
Removed cat3k_caa-rpcore.16.12.04.SPA.pkg
Removed cat3k_caa-srdriver.16.12.04.SPA.pkg
Removed cat3k_caa-webui.16.12.04.SPA.pkg
New files list:
Added cat3k_caa-guestshell.16.12.05b.SPA.pkg
Added cat3k_caa-rpbase.16.12.05b.SPA.pkg
Added cat3k_caa-rpcore.16.12.05b.SPA.pkg
Added cat3k_caa-srdriver.16.12.05b.SPA.pkg
Added cat3k_caa-webui.16.12.05b.SPA.pkg
Finished list of software package changes
SUCCESS: Software provisioned. New software will load on reboot.
[1]: Finished install successful on switch 1
Checking status of install on [1]
[1]: Finished install in switch 1
SUCCESS: Finished install: Success on [1] ← Ideal output
Ensuring that cached content is written to media
```

**IMPORTANT:**

- If the file extraction is successful (or not), the last two lines will display the result.
- Go to the GOTCHA section if the following (image below) appears:

```

#request plat soft package expand file bootflash:c1100-universalk9.16.12.05.SPA.bin over verb
Jun 22 09:15:23.615 %INSTALL-5-OPERATION_START_INFO: R0/0: packtool: Started expand package bootflash:c1100-universalk9.16.12.05.SPA.bin
Verifying parameters
Expanding superpackage bootflash:c1100-universalk9.16.12.05.SPA.bin
... parameters verified
Validating package type
... package type validated
Copying package files
  c1100-firmware_c1100_gfast.16.12.05.SPA.pkg
  c1100-firmware_c1100_shdsl.16.12.05.SPA.pkg
  c1100-firmware_c1100_vadsl.16.12.05.SPA.pkg
  c1100-firmware_p_1t.16.12.05.SPA.pkg
  c1100-mono-universalk9.16.12.05.SPA.pkg
  c1100-rpboot.16.12.05.SPA.pkg
WARNING: Overwrite option specified, running subpackage mode, skip the overwrite
WARNING: A different version of provisioning file packages.conf already exists in bootflash:
WARNING: The provisioning file from the expanded bundle will be saved as
WARNING: bootflash:c1100-universalk9.16.12.05.SPA.conf
... package files copied
SUCCESS: Finished expanding all-in-one software package.
Jun 22 09:17:44.367 %INSTALL-5-OPERATION_COMPLETED_INFO: R0/0: packtool: Completed expand package bootflash:c1100-universalk9.16.12.05.SPA.bin

```

7. Inspect the contents "packages.conf" file. Is this the intended version or not? If NO, go to the GOTCHA section. Command: `more flash:packages.conf | begin for NOVA`

```

Switch#more flash:packages.conf | begin for NOVA
# This is for NOVA
iso  rp 0 0  rp_base          cat3k_caa-rpbase.16.09.05.SPA.pkg
iso  rp 0 0  rp_core          cat3k_caa-rpcore.16.09.05.SPA.pkg
iso  rp 0 0  rp_daemons      cat3k_caa-rpcore.16.09.05.SPA.pkg
iso  rp 0 0  rp_iosd          cat3k_caa-rpcore.16.09.05.SPA.pkg
iso  rp 0 0  rp_webui        cat3k_caa-webui.16.09.05.SPA.pkg
iso  rp 0 0  srdriver        cat3k_caa-srdriver.16.09.05.SPA.pkg
iso  rp 0 0  rp_security      cat3k_caa-rpcore.16.09.05.SPA.pkg
iso  rp 0 0  guestshell       cat3k_caa-guestshell.16.09.05.SPA.pkg

iso  fp 0 0  fp              cat3k_caa-rpcore.16.09.05.SPA.pkg

```

**IMPORTANT:**

- If the switches are in a stack, inspect the "packages.conf" of each switch stack member.

```

more flash-1:packages.conf | begin for NOVA
more flash-2:packages.conf | begin for NOVA
more flash-3:packages.conf | begin for NOVA
...
more flash-8:packages.conf | begin for NOVA

```

- If the switch is standalone, the command is:

```

more flash:packages.conf | begin for NOVA

```

8. REBOOT the switch/stack.
9. [RECOMMENDED][OPTIONAL] Clean the flash: `install remove inactive`
10. DONE.

## Section 2: Install SMU

Software Maintenance Update (aka "patch")

### WARNING:

- Only routers and switches running IOS-XE support SMU.
- Router(s) & switch(es) running "classic" IOS do not support SMU.
- **IMPORTANT:** Always treat SMU update as disruptive (reboots the switch/stack).
- **IMPORTANT:** SMU file is platform-specific.
- **IMPORTANT:** SMU file is version-specific.

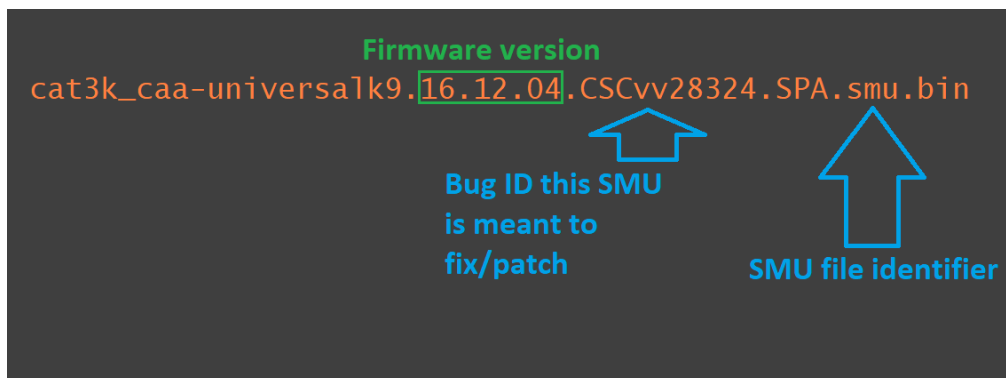


Image (above): Sample SMU filename

```
Switch#sa-universalk9.16.12.04.CSCvv28324.SPA.smu.bin activate commit
install_add_activate_commit: START Fri Jun 25 02:30:01 UTC 2021

System configuration has been modified.
Press Yes(y) to save the configuration and proceed.
Press No(n) for proceeding without saving the configuration.
Press Quit(q) to exit, you may save configuration and re-enter the command. [y/n/q]
Building configuration...
[OK]Modified configuration has been saved
install_add_activate_commit: Adding SMU

--- Starting initial file syncing ---
Info: Finished copying flash:cat3k_caa-universalk9.16.12.04.CSCvv28324.SPA.smu.bin to the selected switch(es)
Finished initial file syncing

Jun 25 02:30:13.245: %INSTALL-5-INSTALL_START_INFO: Switch 1 R0/0: install_engine: Started install one-shot flash:cat3k_caa-universalk9.16.12.04.CSCvv28324.SPA.smu.binExecuting
pre scripts...
Executing pre scripts done.
--- Starting SMU Add operation ---
Performing SMU_ADD on all members
[1] SMU_ADD package(s) on switch 1
[FAILED: install_add /flash/cat3k_caa-universalk9.16.12.04.CSCvv28324.SPA.smu.bin: Invalid installation package.
Version 16.12.4 does not match with 16.09.06.V.4304.
[1] Finished SMU_ADD on switch 1
Checking status of SMU_ADD on [1]
SMU_ADD: Passed on [1]. Failed on [1]
Finished SMU Add operation

FAILED: install_add_activate_commit /flash/cat3k_caa-universalk9.16.12.04.CSCvv28324.SPA.smu.bin exit(1) Fri Jun 25 02:30:41 UTC 2021
```

Image (above): Attempting to install an SMU meant for a different version.

## Procedure

1. Read the Release Notes very carefully.
2. SMU firmware have a filename extension of "bin".
3. Copy the SMU file into the switch.
4. Install the SMU:

```
install add file flash:SMU_filename.bin activate commit
```

**WARNING:** Immediately after entering "y" may/will cause the router &/or switch to reboot.

```

Switch#sa-universalk9.16.12.04.CSCvv28324.SPA.smu.bin activate commit
install_add_activate_commit: START Fri Jun 25 03:41:51 UTC 2021
install_add_activate_commit: Adding SMU
install_add_activate_commit: Checking whether new add is allowed ....

Jun 25 03:41:58.260: %INSTALL-5-INSTALL_START_INFO: Switch 1 R0/0: install_engine: Started install one-shot flash:cat3k_caa-universalk9.16.12.04.CSCvv28324.SPA.smu.bin
--- Starting initial file syncing ---
Info: Finished copying flash:cat3k_caa-universalk9.16.12.04.CSCvv28324.SPA.smu.bin to the selected switch(es)
Finished initial file syncing

--- Starting SMU Add operation ---
Performing SMU_ADD on all members
  [1] SMU_ADD package(s) on switch 1
  [1] Finished SMU_ADD on switch 1
Checking status of SMU_ADD on [1]
SMU_ADD: Passed on [1]
Finished SMU Add operation

install_add_activate_commit: Activating SMU

This operation may require a reload of the system. Do you want to proceed? [y/n]
Executing pre scripts....
Executing pre scripts done.

--- Starting SMU Activate operation ---
Performing SMU_ACTIVATE on all members
  [1] SMU_ACTIVATE package(s) on switch 1
  [1] Finished SMU_ACTIVATE on switch 1
Checking status of SMU_ACTIVATE on [1]
SMU_ACTIVATE: Passed on [1]
Finished SMU Activate operation

install_add_activate_commit: Reloading the box to complete activation of the SMU...
install_activate will reload the system now

```

5. Verify the SMU has been successfully installed.

- Fast Method: `sh version | begin Active SMU`

```

Switch#sh version | begin Active SMU
Active SMU Information:
  State (St):  C - Committed, U - Uncommitted
-----
Type  Defect_ID  Version  St  Filename
-----
SMU   CSCvv22101  16.12.4.0  C   cat3k_caa-universalk9.16.12.04.CSCvv22101.SPA
SMU   CSCvv28324  16.12.4.0  C   cat3k_caa-universalk9.16.12.04.CSCvv28324.SPA
-----

```

- Slow Method: `sh install summary`

```

Switch#sh install summary
[ Switch 1 ] Installed Package(s) Information:
State (St):  I - Inactive, U - Activated & Uncommitted,
             C - Activated & Committed, D - Deactivated & Uncommitted
-----
Type  St  Filename/Version
-----
SMU   C   flash:cat3k_caa-universalk9.16.12.04.CSCvv22101.SPA.smu.bin
SMU   C   flash:cat3k_caa-universalk9.16.12.04.CSCvv28324.SPA.smu.bin
IMG   C   16.12.4.0.4480
-----
Auto abort timer: inactive
-----

```

6. DONE.

## Section 3: GOTCHA

1. If the message (image below) appears at the end of the package extraction process THIS IS NOT A FALSE POSITIVE.

```
#request plat soft package expand file bootflash:c1100-universalk9.16.12.05.SPA.bin over verb
Jun 22 09:15:23.615 %INSTALL-5-OPERATION_START_INFO: R0/0: packtool: Started expand package bootflash:c1100-universalk9.16.12.05.SPA.bin
Verifying parameters
Expanding superpackage bootflash:c1100-universalk9.16.12.05.SPA.bin
... parameters verified
Validating package type
... package type validated
Copying package files
  c1100-firmware_c1100_gfast.16.12.05.SPA.pkg
  c1100-firmware_c1100_shdsl.16.12.05.SPA.pkg
  c1100-firmware_c1100_vadsl.16.12.05.SPA.pkg
  c1100-firmware_p_1t.16.12.05.SPA.pkg
  c1100-mono-universalk9.16.12.05.SPA.pkg
  c1100-rpboot.16.12.05.SPA.pkg
WARNING: Overwrite option specified, running subpackage mode, skip the overwrite
WARNING: A different version of provisioning file packages.conf already exists in bootflash:
WARNING: The provisioning file from the expanded bundle will be saved as as
WARNING: bootflash:c1100-universalk9.16.12.05.SPA.conf
... package files copied
SUCCESS: Finished expanding all-in-one software package.
Jun 22 09:17:44.367 %INSTALL-5-OPERATION_COMPLETED_INFO: R0/0: packtool: Completed expand package bootflash:c1100-universalk9.16.12.05.SPA.bin
```

2. Check the contents of the flash/bootflash and compare the date stamp of the extracted packages against the date stamp of the "packages.conf" file (see image below).

```
# dir
Directory of bootflash:/

 11 drwx           16384 May 27 2020 07:30:14 +10:00 lost+found
104417 drwx          4096 Dec 3 2020 16:56:23 +11:00 .prst_sync
 12 -rw-          132108 Jun 21 2021 09:56:07 +10:00 memleak.tcl
 8033 drwx          4096 Apr 27 2021 05:23:31 +10:00 virtual-instance
40161 drwx          4096 Jun 21 2021 09:55:20 +10:00 .installer
96385 drwx          4096 Jun 22 2021 06:20:43 +10:00 core
32129 drwx          4096 Dec 3 2020 16:10:23 +11:00 .rollback_timer
112449 drwx         4096 May 27 2020 07:45:55 +10:00 gs_script
48193 drwx         16384 Jun 22 2021 09:27:04 +10:00 tracelogs
152609 drwx         4096 Dec 3 2020 16:16:25 +11:00 .dbpersist
 13 -rw-           30 Jun 21 2021 09:56:31 +10:00 throughput_monitor_params
128513 drwx         4096 May 27 2020 07:47:15 +10:00 onep
 14 -rw-           34 Dec 3 2020 16:15:36 +11:00 pnp-tech-time
 15 -rw-          62849 Dec 3 2020 16:15:48 +11:00 pnp-tech-discovery-summary
 16 -rw-         542525852 Dec 3 2020 16:03:53 +11:00 c1100-universalk9.16.12.04.SPA.bin
 17 -rw-          1136 Jun 21 2021 09:56:42 +10:00 vlan.dat
160643 -rw-         14763020 Dec 3 2020 16:06:42 +11:00 c1100-firmware_c1100_gfast.16.12.04.SPA.pkg
160644 -rw-         11527180 Dec 3 2020 16:06:42 +11:00 c1100-firmware_c1100_shdsl.16.12.04.SPA.pkg
160645 -rw-         6337548 Dec 3 2020 16:06:42 +11:00 c1100-firmware_c1100_vadsl.16.12.04.SPA.pkg
160646 -rw-         8455172 Dec 3 2020 16:06:42 +11:00 c1100-firmware_p_1t.16.12.04.SPA.pkg
160647 -rw-         497972248 Dec 3 2020 16:06:44 +11:00 c1100-mono-universalk9.16.12.04.SPA.pkg
160648 -rw-         41960840 Dec 3 2020 16:07:37 +11:00 c1100-rpboot.16.12.04.SPA.pkg
160642 -rw-           7141 Dec 3 2020 16:07:38 +11:00 packages.conf
80321 drwx          4096 Apr 27 2021 05:24:05 +10:00 .attrib
120481 drwx          4096 Jun 21 2021 09:56:43 +10:00 license_evlog
 18 -rw-          542410228 Jun 22 2021 09:10:23 +10:00 c1100-universalk9.16.12.05.SPA.bin
144579 -rw-         14763020 Jun 22 2021 09:16:39 +10:00 c1100-firmware_c1100_gfast.16.12.05.SPA.pkg
144580 -rw-         11527180 Jun 22 2021 09:16:39 +10:00 c1100-firmware_c1100_shdsl.16.12.05.SPA.pkg
144581 -rw-         6337548 Jun 22 2021 09:16:39 +10:00 c1100-firmware_c1100_vadsl.16.12.05.SPA.pkg
144582 -rw-         8455172 Jun 22 2021 09:16:39 +10:00 c1100-firmware_p_1t.16.12.05.SPA.pkg
144583 -rw-         497845272 Jun 22 2021 09:16:41 +10:00 c1100-mono-universalk9.16.12.05.SPA.pkg
144584 -rw-         41939424 Jun 22 2021 09:17:43 +10:00 c1100-rpboot.16.12.05.SPA.pkg
144578 -rw-           7141 Jun 22 2021 09:17:43 +10:00 c1100-universalk9.16.12.05.SPA.conf

2991816704 bytes total (582332416 bytes free)
```

3. Look in the flash/bootflash directory for two (2) files with an extension of "conf". (Image below)

```

154739 -rw-      14763020 Sep 11 2020 15:22:45 +10:00 c1100-firmware_c1100_gfast.16.12.04.SPA.pkg
57014 -rw-      8455172 Jun 23 2021 11:42:36 +10:00 c1100-firmware_p_1t.16.12.05.SPA.pkg
57015 -rw-     497845272 Jun 23 2021 11:42:38 +10:00 c1100-mono-universalk9.16.12.05.SPA.pkg
154740 -rw-     11527180 Sep 11 2020 15:22:45 +10:00 c1100-firmware_c1100_shdsl.16.12.04.SPA.pkg
154741 -rw-     6337548 Sep 11 2020 15:22:45 +10:00 c1100-firmware_c1100_vadsl.16.12.04.SPA.pkg
154742 -rw-     8455172 Sep 11 2020 15:22:45 +10:00 c1100-firmware_p_1t.16.12.04.SPA.pkg
154743 -rw-     497972248 Sep 11 2020 15:22:47 +10:00 c1100-mono-universalk9.16.12.04.SPA.pkg
154744 -rw-     41960840 Sep 11 2020 15:23:53 +10:00 c1100-rpboot.16.12.04.SPA.pkg
57010 -rw-         7141 Jun 23 2021 11:43:40 +10:00 c1100-universalk9.16.12.05.SPA.conf
2885718016 bytes total (807911424 bytes free)

```

4. First, rename “packages.conf” to, say, “packages.conf.bak”.
5. Next, rename the firmware.conf to “packages.conf” (see below).

```

#rename flash:packages.conf flash:packages.conf.bak
Destination filename [packages.conf.bak]?
#rename flash:c1100-universalk9.16.12.05.SPA.conf flash:packages.conf
Destination filename [packages.conf]?
#

```

6. Check the contents of the new “packages.conf” file. *Is this the target version?*

```

Switch# more flash:packages.conf | begin for NOVA
# This is for NOVA
iso  rp 0 0  rp_base          cat3k_caa-rpbase 16.12.04.SPA.pkg
iso  rp 0 0  rp_core           cat3k_caa-rpcore 16.12.04.SPA.pkg
iso  rp 0 0  rp_daemons       cat3k_caa-rpcore 16.12.04.SPA.pkg
iso  rp 0 0  rp_iosd           cat3k_caa-rpcore 16.12.04.SPA.pkg
iso  rp 0 0  rp_webui          cat3k_caa-webui  .16.12.04.SPA.pkg
iso  rp 0 0  srdriver          cat3k_caa-srdriver.16.12.04.SPA.pkg
iso  rp 0 0  rp_security       cat3k_caa-rpcore.16.12.04.SPA.pkg
iso  rp 0 0  guestshell        cat3k_caa-guestshell.16.12.04.SPA.pkg

iso  fp 0 0  fp                cat3k_caa-rpcore.16.12.04.SPA.pkg

```

7. Inspect the contents of each “packages.conf” file of every member of the stack.
8. Make sure the boot-variable string is pointing to the “packages.conf” file.
9. DONE.

## Section 4: Emergency-Install

**WARNING:** *Emergency-Install command will erase the flash/bootflash of the appliance.*

(Make sure the config is stored somewhere else.)

1. Emergency-Install is to be used when the switch boots into ROMMON.
2. The "emergency-install" command can only be used in ROMMON.
3. Emergency-Install process can only be effectively achieved by using a USB thumb drive.

```
switch: emergency-install flash:cat3k_caa-universalk9.16.12.04.SPA.bin
The bootflash will be erased during install operation, continue (y/n)?y
Starting emergency recovery (flash:cat3k_caa-universalk9.16.12.04.SPA.bin)...
Reading full image into memory.....done
Bundle Image
-----
Kernel Address      : 0x537795d4
Kernel Size         : 0x3faa6d/4172397
Initramfs Address   : 0x53b74044
Initramfs Size      : 0xdf2c77/14625911
Compression Format   : .mzip

Bootable image at @ ram:0x537795d4
Bootable image segment 0 address range [0x81100000, 0x820a0000] is in range [0x80180000, 0x90000000].
#####
File "sda9:cat3k_caa-recovery.bin" uncompressed and installed, entry point: 0x816734a0
Loading Linux kernel with entry point 0x816734a0 ...
Bootloader: Done loading app on core_mask: 0xf

### Launching Linux Kernel (flags = 0x5)

Initiating Emergency Installation of bundle flash:cat3k_caa-universalk9.16.12.04.SPA.bin

Emergency Install failed - bundle flash:cat3k_caa-universalk9.16.12.04.SPA.bin does not exist
Restarting system.
```

Image above shows failed "emergency-install" because the firmware is in the flash.

**WARNING:** *Emergency-Install command will erase the flash/bootflash of the appliance.*

4. Command: emergency-install usbflash0:filename.bin



```

switch: emergency-install usbflash0:cat3k_caa-universalk9.16.09.06.SPA.bin
The bootflash will be erased during install operation, continue (y/n)?y
Starting emergency recovery (usbflash0:cat3k_caa-universalk9.16.09.06.SPA.bin)...
Reading full image into memory.....done
Bundle Image
-----
Kernel Address      : 0x534305d4
Kernel Size         : 0x3faa6d/4172397
Initramfs Address   : 0x5382b044
Initramfs Size      : 0xdf2c77/14625911
Compression Format   : .mzip

Bootable image at @ ram:0x534305d4
Bootable image segment 0 address range [0x81100000, 0x820a0000] is in range [0x80180000, 0x900000000].
#####
File "sda9:cat3k_caa-recovery.bin" uncompressed and installed, entry point: 0x816734a0
Loading Linux kernel with entry point 0x816734a0 ...
Bootloader: Done loading app on core_mask: 0xf

### Launching Linux Kernel (flags = 0x5)

Initiating Emergency Installation of bundle usbflash0:cat3k_caa-universalk9.16.09.06.SPA.bin

Reading bundle usbflash0:cat3k_caa-universalk9.16.09.06.SPA.bin...

Validating bundle usbflash0:cat3k_caa-universalk9.16.09.06.SPA.bin...
Installing bundle usbflash0:cat3k_caa-universalk9.16.09.06.SPA.bin...
Verifying bundle usbflash0:cat3k_caa-universalk9.16.09.06.SPA.bin...
Package cat3k_caa-guestshell.16.09.06.SPA.pkg is Digitally Signed
Package cat3k_caa-rpbase.16.09.06.SPA.pkg is Digitally Signed
Package cat3k_caa-rpcore.16.09.06.SPA.pkg is Digitally Signed
Package cat3k_caa-srdriver.16.09.06.SPA.pkg is Digitally Signed
Package cat3k_caa-webui.16.09.06.SPA.pkg is Digitally Signed
Preparing flash...
Syncing device...
Emergency Install successful... Rebooting
Restarting system.

```

5. DONE.