



Release Notes for Cisco Unified Wireless Network Field Upgrade Software, Release 1.8.0.0

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Overview

Cisco Unified Wireless Network Field Upgrade Software (FUS), Release 1.8.0.0, is a special AES package that performs various system-related component upgrades for Cisco Wireless LAN 2500 Series Controllers.

If you are using a Cisco 2500 Series Controller and you upgrade to the 7.4.100.0 controller software release and intend to use the Application Visibility and Control (AVC) and NetFlow protocol features, you must install Cisco Unified Wireless Network Field Upgrade Software, Release 1.8.0.0. This release is not required if you are using other controller hardware models.



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Table 1 lists the components that are upgraded after you install FUS.

Table 1 **Components Upgraded**

Controller Hardware Model	Components Upgraded
Cisco 2500 Series Wireless Controllers	<ul style="list-style-type: none"> • Field Recovery Image is upgraded to runtime image version • Bootloader is upgraded to 1.0.18 • Offline Field Diagnostics is upgraded to 0.9.28

Guidelines and Limitations



Caution

Ensure that there are no power outages during the upgrade. Power outages during the upgrade might lead to the controller not being usable.

- This release of FUS is applicable only to Cisco Wireless LAN 2500 Series Controllers.
- You must install FUS only once.
- Although console access to the controller during the upgrade process is not required, we recommend that you have the console access so that you can monitor the progress of the process.
- The FUS upgrade process reboots the controller several times and reboots the default runtime image. The whole process takes approximately 30 minutes.

Downloading Cisco Unified Wireless Network Field Upgrade Software

-
- Step 1** Go to the Cisco Software Center at this URL: <http://www.cisco.com/cisco/software/navigator.html>
 - Step 2** Choose **Products > Wireless > Wireless LAN Controller**.
 - Step 3** Choose either of the following depending on the controller platform that you use:
 - **Integrated Controllers and Controller Modules**
 - **Standalone Controllers**
 - Step 4** Choose the controller model number or name. The **Download Software** page is displayed.
 - Step 5** Choose **Wireless LAN Controller Software**.
 - Step 6** Click a controller software release. The software releases are labeled as follows to help you determine which release to download:
 - **Early Deployment (ED)**—These software releases provide new features and new hardware platform support as well as bug fixes.
 - **Maintenance Deployment (MD)**—These software releases provide bug fixes and ongoing software maintenance.
 - **Deferred (DF)**—These software releases have been deferred. We recommend that you migrate to an upgraded release.
 - Step 7** Click a software release number. Click the filename (*filename.aes*). The following AES file is available:

– CT2500-K9-1-8-0-0-FUS.aes

- Step 8** Click **Download**.
- Step 9** Read Cisco's End User Software License Agreement and then click **Agree**.
- Step 10** Save the file to your hard drive.
- Step 11** Copy the AES file (*filename.aes*) to the default directory on your TFTP or FTP server.
-

Installing Cisco Unified Wireless Network Field Upgrade Software

- Step 1** Log on to the controller CLI.
- Step 2** Enter the following commands:
- a. **transfer download datatype code**
 - b. **transfer download serverip *serverip***
 - c. **transfer download mode {tftp | ftp}**
 - d. **transfer download username *user***
 - e. **transfer download password *password***
 - f. **transfer download filename *filename.aes***
 - g. **transfer download path /**
 - h. **transfer download start**
- Step 3** Enter the following command to reboot the controller:

reset system

The following output appears:

```
The system has unsaved changes.
```

```
Would you like to save them now? (y/N) y
```

```
Configuration Saved!
```

```
System will now restart!
Updating license storage ... Done.
Restarting system.
```

```
WLCNG Boot Loader Version 1.0.16 (Built on Feb 28 2011 at 13:14:54 by cisco)
Board Revision 0.0 (SN: PSJ1623098L, Type: AIR-CT2504-K9) (P)
```

```
Verifying boot loader integrity... OK.
```

```
OCTEON CN5230C-SCP pass 2.0, Core clock: 750 MHz, DDR clock: 330 MHz (660 Mhz data rate)
CPU Cores: 4
DRAM: 1024 MB
Flash: 32 MB
```

```

Clearing DRAM..... done
Network: octeth0', octeth1, octeth2, octeth3
  ' - Active interface
  E - Environment MAC address override
CF Bus 0 (IDE): OK
IDE device 0:
- Model: 1GB CompactFlash Card Firm: CF B612J Ser#: C351100123A1Yo2C9D5m
- Type: Hard Disk
- Capacity: 977.4 MB = 0.9 GB (2001888 x 512)

```

Press <ESC> now to access the Boot Menu...

Loading primary image (7.4.1.57)

```

0%
0%
1%
2%
3%
...
100%

```

```

6184474 bytes read
Launching...
Launching images...

```

nit started: BusyBox v1.6.0 (2010-05-13 17:50:10 EDT) multi-call binary

tarting pid 672, tty '': '/etc/init.d/rcS'

Field Upgrade Software

Bundles included in this upgrade:

- Bootloader
- Field Recovery image
- Offline Diagnostic image

```

*****
* Please make sure POWER SUPPLY is always ON during this period. *
* Lost POWER will completely kill this unit and not recoverable. *
*****

```

Start soon ...

```

=====
Checking for Bootloader upgrade

```

Bootloader upgrade ...

Upgrade Bootloader from 1.0.16 to 1.0.18

```

*****

```

```

* Upgrade takes about 41 seconds to complete.          *
* Please make sure POWER SUPPLY is always ON during this period. *
* Loss of POWER will completely kill this unit and make it      *
* unrecoverable                                               *
*****

```

Upgrade will start in 30 sec, press (y) to start immediately else press any key to ABORT !!.

Timeout, starting upgrade.

Erasing Flash (estimated 6 seconds) ...

Writing to Flash (estimated 41 seconds) ...

Checking Boot loader integrity (estimated 2 seconds) ... OK.

=====

Checking for Offline Diagnostic image upgrade

Offline Diagnostic upgrade ...

Upgrade OFD from version WLCNG OFD 0.9.28 to WLCNG OFD 0.9.35

Upgrade will start in 30 sec, press (y) to start immediately else press any key to ABORT !!.

Timeout, starting upgrade.

```

*****
* Please make sure POWER SUPPLY is always ON during this period. *
*****

```

Erasing Flash (estimated 24 seconds) ...

Writing to flash (estimated 112 seconds) ...

=====

Checking for Field recovery image upgrade

Field Recovery Image upgrade ...

Upgrade Field Recovery Image from version 7.0.112.21 to 7.4.1.30

Upgrade will start in 30 sec, press (y) to start immediately else press any key to ABORT !!.

Timeout, starting upgrade.

```
*****
* Please make sure POWER SUPPLY is always ON during this period. *
*****
```

Erasing Flash (estimated 49 seconds) ...

Writing to flash (estimated 736 seconds) ...

All upgrades done. System reboot ...

Restarting system.

WLCNG Boot Loader Version 1.0.18 (Built on Oct 5 2012 at 00:04:18 by cisco)

Board Revision 0.0 (SN: PSJ1623098L, Type: AIR-CT2504-K9) (P)

Verifying boot loader integrity... OK.

OCTEON CN5230C-SCP pass 2.0, Core clock: 750 MHz, DDR clock: 330 MHz (660 Mhz data rate)

CPU Cores: 4

DRAM: 1024 MB

Flash: 32 MB

Clearing DRAM..... done

Network: octeth0', octeth1, octeth2, octeth3

' - Active interface

E - Environment MAC address override

CF Bus 0 (IDE): OK

IDE device 0:

- Model: 1GB CompactFlash Card Firm: CF B612J Ser#: C351100123A1Yo2C9D5m

- Type: Hard Disk

- Capacity: 977.4 MB = 0.9 GB (2001888 x 512)

Press <ESC> now to access the Boot Menu...

Loading primary image (7.4.1.57)

0%

0%

1%

2%

3%

...

100%

34602300 bytes read

Launching...

Launching images...

nit started: BusyBox v1.6.0 (2010-05-13 17:50:10 EDT) multi-call binary

tarting pid 672, tty '': '/etc/init.d/rcS'

Detecting Hardware ...

Installing ether-pow driver - 0x6008

tarting pid 810, tty '/dev/ttyS0': '/usr/bin/gettyOrMwar'

Setting up ZVM

Exporting LD_LIBRARY_PATH

Cryptographic library self-test...passed!

XML config selected
Validating XML configuration
Read HA Config before validation
octeon_device_init: found 1 DPs
/dev/fpga: No such device or address
readCPUConfigData: cardid 0x6060001
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Cisco AireOS Version 7.4.1.57
Firmware Version PIC 16.0

Initializing OS Services: ok
Initializing Serial Services: ok
Initializing Network Services: ok
Initializing Licensing Services: ok

License daemon start initialization.....

License daemon running.....
Starting Statistics Service: ok
Starting ARP Services: ok
Starting Trap Manager: ok
Starting Network Interface Management Services: ok
Starting System Services: ok
Starting FIPS Features: ok : Not enabled
Starting Fastpath Hardware Acceleration: ok
Starting Fastpath Console redirect : ok
Starting Fastpath DP Heartbeat : ok
Fastpath CPU0.00: Starting Fastpath Application. SDK-1.8.0, build 269. Flags-[DUTY CYCLE]
: ok

Fastpath CPU0.00: Initializing last packet received queue. Num of cores(2)

Fastpath CPU0.00: Init MBUF size: 1856, Subsequent MBUF size: 2040

Fastpath CPU0.00: Core 0 Initialization: ok

Fastpath CPU0.00: Initializing Timer...

Fastpath CPU0.00: Initializing Timer...done.

Fastpath CPU0.00: Initializing Timer...

Fastpath CPU0.00: Initializing NBAR AGING Timer...done.

Fastpath CPU0.01: Core 1 Initialization: ok

Starting Switching Services: ok

```
Starting QoS Services: ok
Starting Policy Manager: ok
Starting Data Transport Link Layer: ok
Starting Access Control List Services: ok
Starting System Interfaces: ok
Starting Client Troubleshooting Service: ok
Starting Management Frame Protection: ok
Starting Certificate Database: ok
Starting VPN Services: ok
Starting Licensing Services: ok
Starting Redundancy: ok
Starting LWAPP: ok
Starting CAPWAP: ok
Starting LOCP: ok
Starting Security Services: ok
Starting Policy Manager: ok
Starting Authentication Engine: ok
Starting Mobility Management: ok
Starting AVC Services: ok
Starting Virtual AP Services: ok
Starting AireWave Director: ok
Starting Network Time Services: ok
Starting Cisco Discovery Protocol: ok
Starting Broadcast Services: ok
Starting Logging Services: ok
Starting DHCP Server: ok
Starting IDS Signature Manager: ok
Starting RFID Tag Tracking: ok
Starting RF Profiles: ok
Starting Power Supply and Fan Status Monitoring Service: ok
Starting Mesh Services: ok
Starting TSM: ok
Starting CIDS Services: ok
Starting Ethernet-over-IP: ok
Starting DTLS server: enabled in CAPWAP
Starting CleanAir: ok
Starting WIPS: ok
Starting SSHPM LSC PROV LIST: ok
Starting RRC Services: ok
Starting SXP Services: ok
Starting Alarm Services: ok
Starting FMC HS: ok
Starting IPv6 Services: ok
Starting Config Sync Manager : ok
Starting Hotspot Services: ok
Starting Portal Server Services: ok
Starting mDNS Services: ok
Starting Management Services:
  Web Server: CLI: ok
  Secure Web: ok
  License Agent: ok
```

Caveats

The following sections lists [Open Caveats](#) and [Resolved Caveats](#) for Cisco controllers and lightweight access points for version 1.8.0.0. For your convenience in locating caveats in Cisco's Bug Toolkit, the caveat titles listed in this section are drawn directly from the Bug Toolkit database. These caveat titles

are not intended to be read as complete sentences because the title field length is limited. In the caveat titles, some truncation of wording or punctuation might be necessary to provide the most complete and concise description. The only modifications made to these titles are as follows:

- Commands are in **boldface** type.
- Product names and acronyms might be standardized.
- Spelling errors and typos might be corrected.

**Note**

If you are a registered cisco.com user, view Bug Toolkit on cisco.com at the following website:

<http://tools.cisco.com/Support/BugToolKit/>

To become a registered cisco.com user, go to the following website:

<http://tools.cisco.com/RPF/register/register.do>

Open Caveats

There are no open caveats in this release.

Resolved Caveats

There are no resolved caveats in this release.

Service and Support

Information About Caveats

If you need information about a specific caveat that does not appear in these release notes, you can use the Cisco Bug Toolkit to find caveats of any severity. Click this URL to browse to the Bug Toolkit:

<http://tools.cisco.com/Support/BugToolKit/>

(If you request a defect that cannot be displayed, the defect number might not exist, the defect might not yet have a customer-visible description, or the defect might be marked Cisco Confidential.)

Troubleshooting

For the most up-to-date, detailed troubleshooting information, see the Cisco TAC website at this URL:

<http://www.cisco.com/en/US/support/index.html>

Click **Product Support** > **Wireless**. Then choose your product and **Troubleshooting** to find information on the problem you are experiencing.

Related Documentation

For additional information about the Cisco controllers and lightweight access points, see these documents:

- The quick start guide or installation guide for your particular controller or access point
- *Cisco Wireless LAN Controller Configuration Guides*
- *Cisco Wireless LAN Controller Command Reference*
- *Cisco Wireless LAN Controller System Message Guide*

You can access these documents at this URL: <http://www.cisco.com/cisco/web/support/index.html>.

Obtaining Documentation and Submitting a Service Request

For information on obtaining documentation, submitting a service request, and gathering additional information, see the monthly *What's New in Cisco Product Documentation*, which also lists all new and revised Cisco technical documentation:

<http://www.cisco.com/en/US/docs/general/whatsnew/whatsnew.html>

Subscribe to the *What's New in Cisco Product Documentation* as an RSS feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service. Cisco currently supports RSS Version 2.0.

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