



Release Notes for Cisco 2700 Series Location Appliances for Software Release 1.2.17.0

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These release notes describe features, enhancements, and caveats for software release 1.2.17.0 for Cisco 2700 Series Location Appliances. This release of location appliance software interoperates with Cisco Wireless LAN Solution versions 3.1 and 3.0.

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Introduction

Location appliance software release 1.2.17.0 supports Cisco 2700 Series Location Appliances that interoperate with Cisco Wireless LAN Solution version 3.1 and 3.0. Location appliances enhance the built-in Cisco WCS Location capabilities by computing, collecting and storing historical location data, which can be displayed in Cisco WCS. In this role, the location appliance acts as a server to one or more Cisco WCS servers, collecting, storing, and passing on data from its associated Cisco Wireless LAN Controllers.

System Requirements

You can install this software release on any 2700 series location appliance.

Upgrading to this Software Release

For instructions on using Cisco WCS to install this software on location appliances, refer to the “Downloading Application Code to a Location Appliance using Cisco WCS” section in the “Operating Location Appliances” chapter in the *Cisco Wireless LAN Solution Product Guide*.

Click this link to browse to that document:

http://www.cisco.com/en/US/products/ps6386/tsd_products_support_series_home.html

Backup of Release 1.2.17.0 Cannot Restore Previous Releases

A backup from this release of location appliance software cannot be restored on a location appliance running an earlier release. Before you upgrade a location appliance to this release, Cisco recommends that you create a backup for the earlier release and archive it in case you need to revert an upgraded system to an earlier release.

New Features

This section lists new features in this release.

Location Appliance Backup Scheduler

You can use the location appliance backup scheduler feature in Cisco WCS to schedule automatic backups of the location appliances managed by WCS.

Support for Additional Access Point Antennas

These access point antennas are supported in this release:

- AIR-ANT1000—Cisco 1000 series access point integrated antenna
- Antennas on 802.11a radio modules in 1200 series access points

- AIR-ANT1728—Omnidirectional ceiling-mounted antenna
- AIR-ANT1729—Wall-mounted patch antenna
- AIR-ANT2012—Wall-mounted diversity patch antenna
- AIR-ANT2410Y-R—Yagi master or wall-mounted antenna
- AIR-ANT5959—Omnidirectional diversity ceiling-mounted antenna
- Integrated omnidirectional antennas in 1130AG series access points
- AIR-ANT5135D-R—Omnidirectional dipole antenna
- AIR-ANT5145V-R—Omnidirectional diversity antenna
- AIR-ANT5160V-R—Omnidirectional antenna
- AIR-ANT3549—Wall-mounted patch antenna
- AIR-ANT4941—Omnidirectional dipole antenna
- AIR-ANT2506—Omnidirectional mast-mounted antenna
- AIR-ANT3213—Omnidirectional diversity pillar-mounted antenna

Improved Calibration for Location Algorithm

The calibration algorithm in this release has been updated to provide improved accuracy for all location functions.

Absolute RSSI Time Cutoff Enhancement

In earlier releases of location appliance software, Received Signal Strength Indication (RSSI) samples were dropped based on the RSSI value relative to the newest RSSI sample. In this release, the location appliance considers an absolute time cutoff so that if a sample is older than an absolute specific time it is dropped regardless of the relative time setting.

Important Notes

This section describes important information about location appliances.

Default Username and Password Are *root* and *password*

You must enter a username and password when you log into the location appliance console. The default username for administrator login is *root*, and the default password is *password*. Both the username and password are case sensitive.

Pushing a WCS Calibration Model to the Location Appliance

To push a Cisco WCS Calibration model to the location appliance, edit the Floor Area to change the model or go to the model and apply to Floor Areas, and then synchronize the change to the location appliance.

Refresh Rate for Maps Depends on Connection Speed

The maps displayed in Cisco WCS refresh at the rate of your network connection speed. For example, if you are dialing in across a 52-Kbps line, maps refresh slowly.

Changing the Default Speed and Port Settings

The location appliance default speed and port configuration is 100BASE-Tx-FD. To verify the current speed and port configuration, enter `/sbin/mii-tool`. The command output might look like this example:

```
eth0: negotiated 100baseTx-FD flow-control, link ok
eth1: negotiated 100baseTx-FD, link ok
```

To configure the location appliance autonegotiate for any other speed, enter this command:

```
mii-tool -r
```

Caveats

This section lists open and resolved caveats in location appliance release 1.2.17.0.

Open Caveats

These caveats are open in this release:

- CSCar14829—Because of the method used to calculate RSSI samples for the location appliance, RSSI samples sometimes fail to show some actual client locations.
- CSCsa96308—When contributing access points are synchronized with the location server, changing the location of the contributing access points does not affect the location from the location appliance.
- CSCsb03912—When you synchronize WCS and location appliance databases, any Calibration Model defined in WCS will be pushed to the location appliance. However, when you synchronize an empty WCS database with a non-empty location appliance database, the Calibration Models will be pulled into WCS but the location datapoints will not be pulled into WCS.
- CSCsb04645—The host-access, time-based rule is dependent on the host time. For example, you could configure this host-access, time-based rule on a Cisco WCS with IP address 10.1.3.14:

```
10.1.3.14/32          Start access: 14:20          End access: 14:30
```

The times in the rule, 14:20 and 14:30, depend on the machine time on the Cisco WCS at IP address 10.1.3.14.

- CSCsb15455—Changing the location appliance or the WCS time zone does not change the location history time stamp. The time zone is determined by the browser's locale.
- CSCsb45947—In WCS, searching for clients or tags by MAC address in the location appliance sometimes returns a message indicating that no elements were found, while the same elements can be found on the maps or in the list of all elements. When searching for clients or tags the workaround is to enter the full MAC address value, separating each pair of numbers with colons (for example, 00:00:00:11:11:11).

- CSCsb54606—A backup from this release of location appliance software cannot be restored on a location appliance running an earlier release. Before you upgrade a location appliance to this release, Cisco recommends that you create a backup for the earlier release and archive it in case you need to revert an upgraded system to an earlier release.

Resolved Caveats

These caveats are resolved in this release:

- CSCsa98851—WCS now reports an error when a location appliance fails to respond to commands.
- CSCsb04624—When a host is communicating with the location appliance and a Host Access ACL is modified to exclude the host, the existing host connection is not dropped. When the host attempts to reconnect to the location appliance, the connection will be refused.

If You Need More Information

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 select 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, refer to the Cisco TAC website at <http://www.cisco.com/cisco/web/support/index.html>. Click **Technology Support**, choose **Wireless** from the menu on the left, and click **Wireless LAN**.

Related Documentation

This section lists documents related to location appliances:

- *Cisco Wireless LAN Solution Product Guide*
- *Cisco WLAN Solution CLI Reference*
- *Cisco 2700 Series Location Appliance Installation and Configuration Guide*

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, at:

<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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