



Release Notes for Cisco 2700 Series Location Appliances for Software Release 2.0.42.0

March 3, 2006

These release notes describe features, enhancements, and caveats for software release 2.0.42.0 for Cisco 2700 Series Location Appliances. This release of location appliance software operates with Cisco Wireless LAN Solution versions 3.2, 3.1, and 3.0.

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Introduction

Location appliance software release 2.0.42.0 supports Cisco 2700 series location appliances that interoperate with Cisco Wireless LAN Solution version 3.2, 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 Wireless Control System (WCS) servers, collecting, storing, and passing on the location from its assigned 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 2.0.31.0 Cannot Be Restored on 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 convert an upgraded system to an earlier release.

Important Notes

This section describes important information about location appliances.

Location History Timestamps Match Browser’s Locale

The WCS timestamp is based on the browser’s location and not on the location appliance settings. Changing the time zone of the WCS or on the location appliance does not change the timestamp for the location history.

Assign a Controller/Network Design/Event Group to a Location Appliance Before Using Auto-Synch

With auto-synchronization, controllers/network designs/event groups that are detected as unsynchronized are synchronized automatically. Before this automatic synchronization can be enabled, you must assign a controller, event group, or network design to a location appliance.

Controller Name Must be Unique Before Synchronization

The assigned controller names must be unique. If the controller names are duplicated, the synchronization process occurs only on one controller.

Location Appliance Image is Gzipped

If you download the server image.gz file, the location appliance automatically unzips it, and you can proceed with the install as before. If you manually FTP the .gz file, you must unzip the files before trying to run the installer. These files have been compressed under the LINUX operating system and must be uncompressed using *gunzip*. The unzip method you use is defined by the filename you are trying to unzip. To make the bin file executable, use the following command:

```
chmod +x filename.bin
```

Caveats

This section lists open and resolved caveats in location appliance release 2.0.42.0.

Resolved Caveats

These caveats are resolved in this release:

- CSCsc59996—After installing or restarting the Location Server, the logging module was automatically getting enabled at Trace level (even if you previously configured it at Normal level). Having the logging module at Trace level did not affect the server functionality.
- CSCsc69262—Whenever a user switched from HTTP to HTTPS, the location server generated internal SSL exceptions which could stop the server from responding. This problem has been resolved.

Open Caveats

These caveats are open in this release:

- CSCsc09186—When you perform the location calibration, the process of taking data points can take up to one minute per point if a single controller is unreachable. As a workaround, make sure all controllers are reachable during calibration or remove the controllers that are not reachable.

- CSCsc64772—When aggressive polling or historical parameters are configured in the location server, such as polling for all element categories every 10 seconds and saving history points every minute, the database operations can take longer to complete, and the server can momentarily take longer to respond to requests.
- CSCsd29958—If you modify the SNMP access for a controller in WCS and push the changes to the location server, the changes do not take effect until you either restart the location server or unassign/reassign the controller to the location server in the synchronization page.
- CSCsd36689—Access points in monitor mode do not detect probing clients. These access points do not track the clients' RSSI values and do not contribute location information to the Location Appliance.

Workaround: Configure the access points for local mode.

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 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**.

Documentation Updates

Addition to the Quick Install Guide

The *Quick Start Guide: Cisco 2700 Series Location Appliance* should include the following information for location appliances.

When you have a non-default port or HTTPS turned on, you must pass the correct information along with the command. For example, `getserverinfo` must include `-port <<port>> -protocol <<HTTP/HTTPS>>`. Similarly, for stopping the server, `stoplocserver - port <<port>> -protocol <<HTTP/HTTPS>>`.

Additional Sections to the Location Appliance Installation Guide

Configuring NTP Server

You can configure NTP servers to set up the time and date of the 2700 location appliance.

The `/etc/ntp.conf` file is the main configuration file in which you place the IP addresses or DNS names of the NTP servers you want to use (see the following example).

```
server ntp.mydomain.com # my corporate NTP
server 192.168.2.5 # my second NTP
```

To get NTP configured to start at bootup, enter the following:

```
[root@loc-server1]# chkconfig ntpd on
```

To start, stop, and restart NTP after booting, follow these examples:

```
[root@loc-server1]# service ntpd start
[root@loc-server1]# service ntpd stop
[root@loc-server1]# service ntpd restart
```

After configuring and starting NTP, make sure it is working properly. To test whether the NTP process is running, use the following command:

```
[root@loc-server1]# pgrep ntpd
```

You should get a response of plain old process ID numbers.

Enter the `ntpdate -u<serverIP>` command to force your server to become instantly synchronized with its NTP servers before starting the NTP daemon for the first time (see the following example).

```
[root@loc-server1]# service ntpd stop
[root@loc-server1]# ntpdate -u 192.168.1.100
Looking for host 192.168.1.100 and service ntp
host found: ntp1.my-site.com
12 Aug 08:03:38 ntpdate[2472]: step time server 192.168.1.100 offset 28993.084943 sec
[root@smallfry tmp]# service ntpd start
```

For more information on the NTP configuration, consult the Linux configuration guides.

Connecting to the Console

The DB9 pinout to connect to the console is as follows:

Table 1 *Pin Assignments for DB9 Pinout*

Pin	Assignments	Description
1	DCD	Data Carrier Detect
2	RD	Receive Data
3	TD	Transmit Data
4	DTR	Data Terminal Ready
5	SG	Signal Ground
6	DSR	Data Set Ready
7	RTS	Request to Send
8	CTS	Clear to Send
9	Ring	Ring Indicator

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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