Release Notes for Cisco Prime Infrastructure, Release 1.3.0.20

These release notes contain the following sections:

Introduction

The Cisco Prime Infrastructure is a network management tool that supports lifecycle management of your entire network infrastructure from one graphical interface. Prime Infrastructure provides network administrators with a single solution for provisioning, monitoring, optimizing, and troubleshooting both wired and wireless devices. Robust graphical interfaces make device deployments and operations simple and cost-effective.

Prime Infrastructure provides two different graphical user interfaces (from which you can switch back and forth by clicking the downward arrow next to your login name):

- Lifecycle view, which is organized according to home, design, deploy, operate, report and administer menus.
- Classic view, which closely corresponds to the graphical user interface in Cisco Prime Network Control System 1.1 or Cisco Wireless Control System (WCS).

For more information on the Lifecycle view of the Cisco Prime Infrastructure features, see the following URL:

http://www.cisco.com/en/US/docs/net_mgmt/prime/infrastructure/1.2/user/guide/prime_infra_ug.html

For more information on the Classic view of the Cisco Prime Infrastructure features, see the following URL:

http://www.cisco.com/en/US/docs/wireless/prime_infrastructure/1.3/configuration/guide/pi_12_cg.html

For more information on prerequisites, system requirements, and installation, see the following URL:

http://www.cisco.com/en/US/docs/wireless/prime_infrastructure/1.3/quickstart/guide/cpi_qsg_1_3.html

Virtual Appliance - Hardware Requirements

For information about the number and type of devices supported by each virtual appliance size, see the Product Specifications section of the Cisco Prime Infrastructure 1.2 data sheet at http://www.cisco.com/en/US/products/ps12239/products_data_sheets_list.html.

Browser Support

Prime Infrastructure supports the following browsers:

- Google Chrome—19.0 build
- Mozilla Firefox— ESR 10.x, 13.0 and 14.0
- Microsoft Internet Explorer 8.0 or 9.0 with Chrome plug-in. Native Internet Explorer is not supported.

✎

Note   We recommend a minimum screen resolution of 1280 x 800 pixels.

Supported Device Types and Software Versions

Table 1 lists the wireless devices and their software versions that are supported by Prime Infrastructure 1.3.0.20.

Table 1   Supported Controller Hardware Models and Software Versions

Controller Hardware Models	Controller Software Versions
Cisco 2100 Series	7.0.x
Cisco 2500 Series	7.0 until 7.4.110.0
Cisco 4400 Series	7.0.x
Cisco 5500 Series	7.0 until 7.4.110.0
Cisco Flex 7500 Series	7.0 until 7.4.110.0
Cisco Flex 8500 Series	7.3
Cisco Virtual Controller	7.3
Cisco WiSM	7.0.x
Cisco WiSM2[1]	7.0 until 7.4.110.0
Cisco Wireless Controller on Service Ready Engine (WLCM2 on SRE)	7.2.110.0
Cisco Catalyst 3750G Series Integrated Wireless LAN Controllers	7.0 until 7.4.110.0

1. WiSM2 is not supported for Configuration Archive.

For detailed information on the software compatibility for the Cisco wireless devices, see the following URL:

http://www.cisco.com/en/US/docs/wireless/controller/5500/tech_notes/Wireless_Software_Compatibility_Matrix.html

For detailed information on the supported device types and software versions, see the following URL:

http://www.cisco.com/en/US/products/ps12239/products_device_support_tables_list.html

Installation Guidelines

For detailed installation information, see the following section of the Cisco Prime Infrastructure 1.3 Quick Start Guide:

http://www.cisco.com/en/US/docs/wireless/prime_infrastructure/1.3/quickstart/guide/cpi_qsg_1_3.html#wp69980

Upgrading Cisco Prime Infrastructure

Note   • Prior to upgrading, a patch must be installed on the existing system. For detailed upgrade information, see the following section of the Cisco Prime Infrastructure 1.3 Quick Start Guide:

http://www.cisco.com/en/US/docs/wireless/prime_infrastructure/1.3/quickstart/guide/cpi_qsg_1_3.html#wp69624

- Ensure that you perform a backup before attempting to upgrade.

- Use a console connection when you upgrade, to avoid Telnet/SSH terminal timeouts.

- Remove high availability before performing the upgrade.

- The upgrading of Cisco Prime Network Control System 1.1.2.12 or 1.1.3.2 to Cisco Prime Infrastructure 1.3 is not supported directly. If you plan to upgrade from Cisco Prime Network Control System 1.1.2.12 or 1.1.3.2 to Cisco Prime Infrastructure 1.3.0.20, contact Cisco TAC for upgrade instructions and assistance. Also, read the following software advisory for more information on how to upgrade.

  http://www.cisco.com/en/US/docs/net_mgmt/prime/infrastructure/1.3/software/advisory/Software_Advisory_CPI_1_1_2_and_1_1_3.pdf

For detailed information about the upgrade methods, see the following URL:

http://www.cisco.com/en/US/docs/wireless/prime_infrastructure/1.3/quickstart/guide/cpi_qsg_1_3.html#wp56675

Submitting Feedback

Your feedback will help us improve the quality of our product. To send your feedback, follow these steps:

Step 1   If you have configured your mail server, go to Step 8.

Step 2   Choose **Administration** > **System Settings** > **Mail Server Configuration**.

Step 3   In the Mail Server Configuration page, enter the mail server details.

Step 4   Click **Save** to save the configuration settings.

Step 5   Choose **Help** > **Help Us Improve Cisco Products**.

Step 6   In the Help Us Improve Cisco Products page, select the **Yes, collect data periodically** option.

Step 7   Click **OK**.

Step 8   Choose **Help > Submit Feedback** (in the Classic view) or click the question mark icon at the top right and then click **Submit Feedback** (in the LifeCycle view).

> **Note** You must configure the e-mail server and then enable data collection to configure the feedback tool.

Prime Infrastructure License

For detailed information on the Prime Infrastructure Licensing, see the following URL:

http://www.cisco.com/en/US/products/ps12239/products_data_sheets_list.html

Cisco Prime Infrastructure 1.3.0.20 Supported Devices

For detailed information on the supported device types, see the following URL:

http://www.cisco.com/en/US/products/ps12239/products_device_support_tables_list.html

New Features and Enhancements

This section provides a brief description of what is new in this release.

- This release supports Cisco Aironet 1600 Series Lightweight Access Points. You can plan, deploy, and manage the 1600 Series Lightweight Access Points through Cisco Prime Infrastructure. For more information, see
http://www.cisco.com/en/US/products/ps12555/index.html.

- Prime Infrastructure provides management support for new access point hardware: WSSI module. The WSSI module is field-upgradable, third radio module add-on to the 3600 Series Access Point. Also, SNMP MIB enhancements are available for the monitor module within the specific 3600 Series access point. Enables increased client performance by offloading spectrum Monitoring and Security capabilities to third radio, while the integrated radios concurrently serve 2.4 and 5 GHz client devices.

- Prime Infrastructure provides Assurance for Wireless feature. This enables you to monitor, configure, report, and troubleshoot application traffic using tools like NBAR-2 and NetFlow.

> **Note** The AVC configuration on controllers does not require Assurance license, but AVC monitoring requires it.

- Support for Application Visibility and Control (AVC) is introduced. AVC classifies applications using Cisco's Deep Packet Inspection (DPI) techniques with Network-Based Application Recognition (NBAR) engine and provides application-level visibility and control into Wi-Fi network. After recognizing the applications, the AVC feature allows you to either drop or mark the traffic.

  Using AVC, the controller can detect more than 1000 applications. AVC enables you to perform real-time analysis and create policies to reduce network congestion, costly network link usage, and infrastructure upgrades.

- Support for NetFlow protocol is introduced. The NetFlow protocol provides information about network users and applications, peak usage times, and traffic routing. The NetFlow protocol collects IP traffic information from network devices to monitor traffic.

  The NetFlow architecture consists of the following components:

  - Collector—Entity that collects all the IP traffic information from various network elements.

  - Exporter—Network entity that exports the template with the IP traffic information. The controller acts as an exporter.

- Support for the Multicast DNS (mDNS) protocol is introduced. This feature allows you to to easily deploy and manage Bonjour Services Directory. You can monitor, configure, and troubleshoot Bonjour Services Discovery.

- This release provides the following additional RADIUS support features on FlexConnect.

  - A primary or secondary RADIUS server per FlexConnect group is sufficient.

- The FlexConnect group allows you to configure Primary or Secondary RADIUS server which may not present in the controller.

- This release supports the following:

  - Cisco Catalyst 3850 Series Ethernet Stackable Switch.

  - Cisco NAM 2304 Appliance.

  - Cisco IE 2000 Series Switches.

- Cisco Prime Infrastructure supports the new MSE features such as WSSI module, Qualcomm, Meridian, and wIPS. For more information, see the following URL: http://www.cisco.com/en/US/docs/wireless/mse/3350/release/notes/mse7_4_100_0.html#wp1195132

✎ **Note** For information about Cisco Unified Wireless Network Software Release 7.4, see the following URL: http://www.cisco.com/en/US/prod/collateral/wireless/ps6302/ps8322/ps10315/product_bulletin_c25-722724.html

Important Notes

- The Cisco 12.2EWA IOS Image for Catalyst 4948 does not work properly. Cisco Prime Infrastructure supports Cisco IOS Image 12.2SG for Catalyst 4948 series. This is because of different sysOId's returned by Cisco IOS Images.

- For the TACACS+/RADIUS user authentication, the custom attributes related to the new features are required to be added/appended to the existing set of attributes in AAA server to access certain pages/views. For example, Monitor Media Stream page, Virtual Domain List (to view the list of virtual domains from the Create Report page), and so on. For RADIUS authentication and authorization in Prime Infrastructure 1.3.0.20, there is an alternate method available for the AAA users. Only the user role and virtual domain attributes can be configured in AAA server (instead of copying the complete custom attribute task list from Prime Infrastructure to the AAA server).

- After doing a major version upgrade of Prime Infrastructure application, the browser cache on the client machines used to access the older version, would need to be cleared once so that the data for the old application is removed from the browser cache. After that connecting to the upgraded server will work fine.

- Hot CLI backup is not recommended in Prime Infrastructure 1.3.0.20.

Open Caveats

Table 2 lists the Open Caveats in Cisco Prime Infrastructure Release 1.3.0.20.

Click the identifier to view the impact and workaround for the caveat. This information is displayed in the Bug Toolkit. You can track the status of the open caveats using the Bug Toolkit.

Table 2 **Open Caveats**

Identifier	Description
CSCue04038	AP search does not work correctly.
CSCue28974	Detailed Dashboards/Devices fail to display WLC statistics/information.
CSCue33988	The last execution status appears as "failed" for data cleanup.
CSCue34067	Unable to load the results page after a completed voice diagnostic test is performed.
CSCua77597	Discrepancy in the transmitted and received data from the client session report.
CSCub38566	Data cleanup takes long time.
CSCuc83315	In the Alarm and Events page, many alerts are reported by IP addresses as the source of failure.
CSCud36885	Very slow schema evolution/upgrade.
CSCud41151	Timeout error occurs while performing registration.
CSCud80157	High Availability registration failed.
CSCud98783	The contents of the backup need to be optimized by removing unnecessary content in some directories.
CSCua30266	Inconsistent Authenticated Client Count number of Client Count Report
CSCub41299	ACL counters are not working while migrating from WCS 7.0.230 to NCS 1.1.
CSCub97736	MSE auto sync does not work after stopping and starting the MSE service
CSCud52453	The Applied to Controller and Virtual Domain count are not showing up correctly.
CSCud58893	The delete button in Shunned Client Saved search is not working.
CSCud61968	Rogue rule group fails to apply in the life cycle view.
CSCud63946	After creating Friendly AP template, the template details are missing.
CSCud80804	Error while backing up database.
CSCud95130	Prime Infrastructure shows "permission denied" error in third party controller > add controllers.
CSCud97644	Config and disable issue with LWAP template.
CSCue01522	Unable to select search option after switching from one view to other
CSCue03868	Secondary backup - ERROR [system] [main] Problem zipping file:
CSCue14047	Failed upgrade not cleaning up upgrade data
CSCue17090	Planning mode is extremely slow to open for previously designed floors.
CSCue18703	Secondary database uncertain state while failover.
CSCud26027	Unable to login in to UI.
CSCud61852	Reporting time,protocol becomes unselectable after running non-default
CSCue30201	Cisco 3750x switches not showing wired clients
CSCud39395	Difference between RMAN Archivelogs and disk contents causes DB crash
CSCuc74852	Administration > Jobs Dashboard page reports an exception
CSCud49364	Failed to delete few devices added on upgraded server
CSCud00537	Failback Error creating instance direct: /opt/CSCOlumos
CSCud10462	Ensure Appliance BnR supported in 2.0
CSCud12229	Primary process failed after failback
CSCud22882	Need proper error message if invalid file was restored

Table 2   Open Caveats (continued)

Identifier	Description
CSCud31252	High Availability: Even though valid netflow coming in, Netflow based reports are not working correctly.
CSCud32807	Unable to start secondary Error in UI
CSCud33502	Failed to start Prime Infrastructure on primary Prime Infrastructure after attempting registration with secondary.
CSCud54588	Grouping not working. WLC does not appear under respective device type group
CSCue44737	Context-sensitive help throws HTTP 404 error while launching help from Report

Resolved Caveats

Table 3 lists the Resolved Caveats in Cisco Prime Infrastructure Release 1.3.0.20.

Click the identifier to view the details of the caveat. This information is displayed in the Bug Toolkit. You can track the status of the resolved caveats, using the Bug Toolkit.

Table 3   Resolved Caveats

Identifier	Description
CSCud22658	Restore process fails when restoring NCS 1.1.1.24 to Prime Infrastructure 1.2.1.4.
CSCua34353	Oracle database size grows causing out of disk space conditions
CSCuc01344	Controller without CLI credentials, on syncing goes to managed with warnings
CSCtx58026	High Availability Secondary should be able to run a backup and restore to primary
CSCuc42730	For lengthy SYSLOCATION, the insert query fails
CSCuc74844	Rogue APs flagged as Friendly in WCS 4.X show up as templates in Prime Infrastructure 1.2
CSCud21253	High availability fails during the post HA registration step
CSCud02904	Under some circumstances, the UI page "Clients and Users" of Prime Infrastructure 1.2.0.103 throws a duplicate widget error
CSCuc59011	Applying the point patch for Prime Infrastructure 1.2 upgrades causing backup failures
CSCud06467	Configuration Templates on Friendly Rogue AP throws error
CSCuc96684	Exception thrown when pushing out WLAN template.
CSCuc66007	Unable to upgrade to Prime Infrastructure 1.2
CSCuc66018	Prime Infrastructure 1.2 becomes unresponsive when garbage collector is not run frequently
CSCuc66031	Prime Infrastructure 1.2 data cleanup job fails
CSCud10996	Restore fails with missing archived logs.
CSCud49309	Prime Infrastructure does not start - hm logs have "No more data to read from socket"
CSCuc73414	Discovery is setting the SNMP Timeout as 1 Sec.
CSCue02846	HA does not happen for Out Of Memory
CSCue02961	Need an easy way to turn off the PNP service.
CSCue14315	Restore fails due to lack of disk space
CSCub80476	Unique client report shows incorrect information

Table 3   Resolved Caveats (continued)

Identifier	Description
CSCub95698	WCS apply AP Group template to WLC with random order
CSCuc02193	Resource file LocationResources.properties is missing from server side
CSCuc04453	Monitor AP page shows false positive critical alarms state for AP
CSCuc06992	The country code for Croatia (HR) is missing in the Lightweight AP template
CSCuc09535	In the Google Maps functionality of Prime Infrastructure, the GUI allows creation of a long name which, when combined with the MAC address of the related AP, is longer than 32 characters.
CSCuc09732	AP reboot is alerted with Clear level
CSCuc10095	Unknown Exception generated modifying discovered WLAN template
CSCuc10695	Unit of Client Traffic Report per Floor Area (CSV/PDF) showing Wrong
CSCuc10789	Building View does not reflect AP administrative disabled status
CSCuc13646	Client traffic report Each Floor value & Sum of AP By Floor not same
CSCuc13831	Guest Account status report does not report anything beyond 7 days
CSCuc18903	The client traffic summary and client summary by protocol mismatch
CSCuc19594	Incorrect data in Client Traffic report when selecting long period
CSCuc35382	Lost FlexConnect VLAN-Mapping AP Template if not shown in GUI
CSCuc42993	Refresh from network fails when Autonomous AP is present on the floor
CSCuc51508	Client association history in reports incorrect time
CSCuc54674	PSK template fails on 1.2 if auth and accounting server is disabled
CSCuc55914	Prime Infrastructure 1.2 does not support a / (forward slash) in the AP Group Template name
CSCuc56528	Per SSID Unique Client Report Failure
CSCuc60589	Modified user group cannot switch between GUI modes
CSCuc65989	Database Restore failure.
CSCuc70182	AP group name in AP template page is inconsistent
CSCuc81834	Incorrect Breadcrumbs
CSCuc83826	Prime Infrastructure 1.2 saved settings in the floor view are not retained
CSCuc85756	Cancelling changes from 'Add Access points' erases all the existing AP's
CSCuc86486	"All EU Controllers"" schedule shown as expired
CSCuc86490	Problems applying lightweight AP templates.
CSCuc86733	DiscoveryJob/Sync job stops
CSCuc91101	Map editor scales the floor plan incorrectly when the unit is in meters
CSCuc91911	A blank page appears when sorting clients on the map list page
CSCuc92109	After Upgrade WiSM2 Controller's Device Type is not recognized
CSCuc92315	Issues exist with Map Zoom
CSCuc92316	Track client does not show complete history- last line is cut off
CSCuc95859	Auto refresh in maps page can refresh only the numbers
CSCud04086	Configuring AP Fast Heartbeat causes Audit Mismatch status

Table 3   Resolved Caveats (continued)

Identifier	Description
CSCud05820	Prime Infrastructure 1.2 Audit mismatch
CSCud12344	Prime Infrastructure does not allow you to change AP Antenna elevation angle
CSCud13103	Critical alarm for device not reachable is not cleared
CSCud15988	Number Format Exception launching Controller Detail Page (Classic View)
CSCud17283	After upgrade to Prime Infrastructure 1.2, the rogue APs are not showing up in the map
CSCud22136	Prime Infrastructure 1.2 assigns wrong virtual domain after domain change
CSCud40312	Adhoc Rogue severity is wrongly categorized
CSCud51516	NBI is not be accessible by members of the admin group after Prime Infrastructure is upgraded to 1.2 from an earlier version.
CSCud54006	Prime Infrastructure 1.2 Monitor Switches page shows 0 client count
CSCud56164	Unable to add interface to already discovered template
CSCud61799	Prime Infrastructure 1.2 Monitoring fails with SNMP v3
CSCtz67488	HA does not clearly report low disk space issues
CSCua45107	Failed to apply CSV filter to auto provision.
CSCua63402	Prime Infrastructure stops while forwarding Northbound traps
CSCue02852	Out Of Memory does not do heap dump
CSCue04596	Prime Infrastructure occasionally loses licensing
CSCub54411	Enabling 'Hide Assigned Alarms' removes data from the security dashboard
CSCue14592	Config archive failed with device uses ACS 5.4 authentication
CSCub61852	Prime Infrastructure reports incorrect MFP validation state for Access points
CSCub66322	High Availability with manual failover reports failed when successful.
CSCub48824	Busiest Client Report shows same data regardless of interval selected
CSCud43585	Error applying web auth WLAN template with no login failure page selected.
CSCuc34416	Severity configuration does not prune northbound informational traps
CSCuc89874	Prime Infrastructure crashes when you try to import DWG.

Related Documentation

You can access the following additional Cisco Prime Infrastructure documentation on Cisco.com:

- Cisco Prime Infrastructure 1.3 Quick Start Guide
- Cisco Prime Infrastructure 1.2 User Guide
- Cisco Prime Infrastructure 1.3 Configuration Guide
- Open Source Used In Cisco Prime Infrastructure 1.2
- Cisco Prime Infrastructure 1.2 Supported Devices

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

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