Release Notes for Cisco Prime LAN Management Solution 4.2

Revised: February 2012, OL-25950-01

Contents

This Release Notes is for Cisco Prime LMS 4.2 on Solaris, Soft Appliance, and Windows platforms.

This document has the following sections:

Introduction

LMS 4.2 provides you with powerful features that enable you to configure, monitor, troubleshoot, and administer Cisco networks.

Cisco Prime LMS 4.2 has options for the following underlying core functions:

- Monitoring
- Inventory Management

Americas Headquarters:
Cisco Systems, Inc., 170 West Tasman Drive, San Jose, CA 95134-1706 USA

- Configuration

- Reporting

- Administration

- Work Center Management

What's New in This Release

This section explains the new features in LMS 4.2.

See the Online help of LMS 4.2 applications for a detailed explanation of the new features in LMS 4.2.

This section contains the following:

- Creating Configuration Templates

- Idle Timeout Settings

- Standard Discovery

- CAAM Features

- Hardware Configuration-based MIB Objects Polling

- Poller Management Enhancements

- Troubleshooting Workflow Changes

- Fault Management Generic Device Package Support and Traps Support

- Enhancement in Unused POE Report

- Enhancement in Custom Inventory Report

- Enhancement in TrustSec

- EnergyWise Enhancement

- Report Designer Enhancement

- VLAN Fetch Support for SCP and RCP

- Template Center Enhancement

- Third-Party Software and Tool Changes

Note The supported screen resolution for LMS 4.2 is 1024x768 pixels. We recommend you not to use browser zoom in and zoom out features in LMS 4.2.

Creating Configuration Templates

CLI templates are user-defined templates that are created based on your own parameters. CLI templates allow you to choose the elements in the configurations. LMS provides variables that you replace with actual values and logic statements.

For more information, see Creating Configuration Templates in *Configuration Management with Cisco Prime LAN Management Solution 4.2.*

Idle Timeout Settings

If UI is kept idle for the set time period then a pop-up redirecting the page to idle page will be displayed. You can click cancel to avoid redirecting to the idle page.

If you are redirected to the idle page then click **click here** link to return to your previous page. The default idle timeout is 120 minutes.

Standard Discovery

Standard Discovery allows you to discovery devices with minimum settings.

For configuring Standard Discovery, you need to provide the input for Seed Devices and SNMP Credentials.

Inputs for seed device can be given as follows:

- Using default gateway as seed, this option is chosen by default
- Using Seed devices from DCR, it will not show the count of devices in DCR
- Providing Seed devices manually in TextArea separated by space

Inputs for SNMP credentials can be given as follows:

- Use Policy Configuration
- Custom Policy Configuration
- Default set credentials
- Provide Credentials Manually

For more information, see *Inventory Management with Cisco Prime LAN Management Solution 4.2.*

CAAM Features

LMS 4.2 supports the following Compliance and Audit Manager (CAAM) features:

- Data Synchronization between LMS and CAAM
- Managing Policy Groups
- Managing Policy Profile
- Fixing Profile Violation
- Compliance Data Collection
- Import Contracts
- CAAM Reports
- CAAM Offline Update
- CAAM Online Update

Data Synchronization between LMS and CAAM

CAAM database should always be in sync with LMS database. When a new device is added to LMS or an unmanaged device is managed, and if the CAAMServer process is down, the device will not be added to CAAM database. When the CAAMServer process comes up, the device will be added to CAAM database but the device details such as Inventory, Config and Show Commands will not be updated in CAAM database. You have to manually perform Inventory, Config, and Show Commands collection to update the CAAM database.

For more information, see Using Compliance and Audit Manager Feature in *Configuration Management with Cisco Prime LAN Management Solution 4.2*.

Managing Policy Groups

Policy Group is a collection of Policies. Policies are defined by a set of rules. LMS 4.2 supports 293 policies. In addition to the system-defined Policy Groups, you can create your own Policy Groups by selecting a set of system-defined policies. LMS allows you to add, clone, edit, and delete policy groups.

For more information, see Using Compliance and Audit Manager Feature in *Configuration Management with Cisco Prime LAN Management Solution 4.2*.

Managing Policy Profile

Policy Profile is a set of Policy Groups where each Policy Groups are mapped with set of devices/device groups. LMS allows you to add, clone, edit, and delete policy profile. It also allows you to run the compliance check and view the job history.

For more information, see Using Compliance and Audit Manager Feature in *Configuration Management with Cisco Prime LAN Management Solution 4.2*.

Fixing Profile Violation

The Profile Violations Fix Report lists all the devices that do not comply with a defined user profile. A profile is defined as a policy or a set of policies applied on either a device or a set of devices. LMS provides configuration commands for fixing the violation.

For more information, see Using Compliance and Audit Manager Feature in *Configuration Management with Cisco Prime LAN Management Solution 4.2*.

Compliance Data Collection

This feature allows you to schedule the Compliance Data Collection System Job. The Compliance Data Collection job runs daily by default.

For more information, see Compliance and Audit Settings in *Administration of Cisco Prime LAN Management Solution 4.2*.

CAAM Offline Update

This feature allows you to download and install the patches related to CAAM Server manually.

For more information, see Compliance and Audit Settings in *Administration of Cisco Prime LAN Management Solution 4.2*.

CAAM Online Update

Enables you to download and install the patches related to CAAM Server online.

For more information, see Compliance and Audit Settings in *Administration of Cisco Prime LAN Management Solution 4.2*.

Import Contracts

This feature enables you to import customer contracts into the CAAM Database.

For more information, see Compliance and Audit Settings in *Administration of Cisco Prime LAN Management Solution 4.2*.

CAAM Reports

CAAM reports provide compliance status of the network, lifecycle and contract information about network devices, security advisory, and service reports based on device and software capabilities, and the services that are enabled.

Using CAAM, the following reports can be generated and viewed in the reports job browser:

- Service Reports
- Life Cycle Management Reports
- Compliance Reports

For more information, see Compliance and Audit in *Reports Management with Cisco Prime LAN Management Solution 4.2*.

Service Reports

Service reports provide information about the status of all the services on network nodes. These reports also include a Capability Report section that provides information on what a user needs to do like upgrading the software or hardware for supporting a given service.

Life Cycle Management Reports

Life Cycle Management Reports provide information about the lifecycle state of the network. This report includes End of Life and Contract Management Reports.

Compliance Reports

The Compliance Reports provide information about the compliance state of the network for specific compliance requirements.

Compliance Reports include the following device reports:

- HIPAA Compliance Reports
- SOX (COBIT) Compliance Report
- ISO/IEC 27002 Compliance Reports
- NSA Compliance Reports
- PCI DSS Compliance Reports
- DHS Checklist Reports
- DISA Checklists Report

- CIS Benchmarks
- Vendor Advisory Reports

Hardware Configuration-based MIB Objects Polling

When LMS server with specific hardware configuration polls MIB objects more than the recommended number, a warning message is displayed.

For more information, see Hardware Configuration-based MIB Object Polling Support in *Monitoring and Troubleshooting with Cisco Prime LAN Management Solution 4.2.*

Poller Management Enhancements

In this release, Poller Management UI displays the polling preference types namely, Poll All Instances, Poll by Pattern, and Poll by User Selection. Poll by Pattern is a new polling preference type introduced in this release.

For more information, see Creating a Poller in *Monitoring and Troubleshooting with Cisco Prime LAN Management Solution 4.2.*

Troubleshooting Workflow Changes

Device Information portlet in the Device Troubleshooting workflow is enhanced and it displays additional information such as CPU Utilization, Memory Utilization and so on.

For more information, see Device Information in *Monitoring and Troubleshooting with Cisco Prime LAN Management Solution 4.2.*

Fault Management Generic Device Package Support and Traps Support

In this release, LMS Fault Management functionality supports unknown devices and non-Cisco devices with limited functionalities.

Unknown devices here refer to Cisco devices for which device package updates are not installed and available on LMS server.

Unknown devices and non-Cisco devices together referred as Generic devices in LMS.

For more information, see Understanding the Detailed Device View in *Monitoring and Troubleshooting with Cisco Prime LAN Management Solution 4.2.*

In this release, Trap support is provided for SNMPv3 configured devices, SNMPv2 configured devices, unknown devices, and non-Cisco devices.

For more information, see Configuring SNMP Trap Receiving and Forwarding in *Monitoring and Troubleshooting with Cisco Prime LAN Management Solution 4.2.*

Enhancement in Unused POE Report

You can view an unused PoE report with detailed information of PoE-enabled devices managed by LMS along with the information of the ports that are not connected to the end points.

For more information, see Generating an Unused PoE Report in *Reports Management with Cisco Prime LAN Management Solution 4.2.*

Enhancement in Custom Inventory Report

New Inventory Groups are added and few attributes have been added to the existing Inventory Groups.

Inventory Group	Attribute
Bridge	Base Bridge Address
	Number of Ports
	Bridge Type
Container	Container Model Name
	Container Vendor Type
	Description
	Manufacturer Name
	Physical Entity Name
Interface	interface index
Memory pool	Lowest Free Block (MB)
Module	Slot Number
Port	Port Index
	Port Description
	Port Vendor Type
System	Management Type
	OSI Layer Services

For more information, see Creating an Inventory Custom Report Template in *Reports Management with Cisco Prime LAN Management Solution 4.2.*

Enhancement in TrustSec

Till LMS 4.1, Identity was a separate feature. In LMS 4.2, Identity, which is now called as 802.1x, and Secured Group Access Configuration (SXP, SGT, and SGACL) are grouped under a common feature called TrustSec.

TrustSec Version

When you launch the Getting Started/Readiness Assessment page from **Work Centers > TrustSec > Getting Started/Readiness Assessment** for the first time, you will be guided to select the TrustSec version (TrustSec 1.99 and TrustSec 2.0) inorder to list the TrustSec-capable devices. By default TrustSec 2.0 is selected.

TrustSec Limited Compatibility Devices

In the TrustSec Getting Started/Readiness Assessment page, the pie chart is enhanced with TrustSec Limited Compatibility Devices. If devices are running with minimum supported image version for the selected TrustSec version and if the devices are not having the required modules installed then those devices will be known as TrustSec Limited Compatibility devices.

For more information, see TrustSec Readiness Assessment in *Technology Work Centers in Cisco Prime LAN Management Solution 4.2.*

Secured Group Access Configuration

Secured Group Access Configuration cross-launches the Template Center page, where you can select the template and deploy configuration.

This can be done in two ways:

- Go to **Work Centers > TrustSec > Getting Started or Readiness Assessment**, select the devices from the TrustSec-capable devices pie or TrustSec Limited Compatibility pie and click SXP, SGT, or SGACL Configure options.

    or

- Go to **Work Centers > TrustSec > Secured Group Access Configuration** select the devices and click SXP, SGT, or SGACL Configure options.

For more information, see Secured Group Access Configuration in *Technology Work Centers in Cisco Prime LAN Management Solution 4.2.*

EnergyWise Enhancement

In the EnergyWise Policy Override portlet, Wake the host option is newly added.

In the Current Power Consumption portlet, a new field "Category" has been added.

In the **Work Center > EnergyWise > Configure > Manage Endpoint Groups** flow, a new field "Category" has been added.

For more information, see *Technology Work Centers in Cisco Prime LAN Management Solution 4.2.*

Report Designer Enhancement

Earlier, Syslog and Inventory Custom Report templates were combined as a single workflow. In LMS 4.2, Syslog and Inventory Custom Report are available as two separate flows.

For more information, see Report Designer in *Reports Management with Cisco Prime LAN Management Solution 4.2.*

In the Inventory Custom Report template, Report Attributes and Rules for Attributes are available as two different sections, where the generated report will display only the attributes selected under Report Attributes section.

For more information, see Creating Inventory Custom Reports in *Reports Management with Cisco Prime LAN Management Solution 4.2.*

VLAN Fetch Support for SCP and RCP

You can set the protocol order for Configuration Management features such as Archive Management, Config Editor, and NetConfig jobs to download configurations and to fetch configurations. For NetShow and VLAN Fetch, you can set the protocol order to download configurations.

For more information, see Configuring Transport Protocols in *Administration of Cisco Prime LAN Management Solution 4.2.*

Template Center Enhancement

In LMS 4.2, you can create Configuration templates using IF and FOREACH statements.

For more information, see Guidelines for Creating Configuration Templates Using IF and FOREACH Statements in *Configuration Management with Cisco Prime LAN Management Solution 4.2.*

Third-Party Software and Tool Changes

The following are the changes in the third-party software and tools in this release:

- Support for Windows 2008 Standard Edition and Enterprise Edition on server and client systems
- Support for Windows 2008 R2 Standard Edition and Enterprise Edition on server and client systems
- WinPcap upgrade to 4.0.2
- Daylight Savings Timezone tool upgrade to 1.3.45-b01
- Firefox 8.0 and 9.0 support on client systems
- Java Plug-in version 1.6.0_24 or later update versions only
- Apache upgrade to 2.2.17
- Java Runtime Environment (JRE) 1.6.0_24

Time Zone and Offset Settings

LMS supports many time zones. However, applications that have scheduling and reporting functions, and applications that produce or use time stamps vary based on:

- Server and client—Time stamps can differ between server and client if they are located in different time zones.
- Platforms—Windows and UNIX servers support different time zones and are not synchronized.

Table 1 shows time zone acronyms supported in the Cisco Prime applications that use the time zone feature.

- Column 1—Lists the area covered by the time zone.
- Column 2—Lists the supported Cisco Prime time zone acronyms. Change Audit reports may display time zone information differently.
- Column 3—Lists the spelled out time zone definition.
- Column 4—Lists the column's offsets from Greenwich Mean Time (GMT).

If you generate reports, the output will vary depending on whether the data has been processed through Perl or Java.

To ensure that time zones are translated correctly—especially when your devices, servers, and clients are in different time zones—follow these guidelines:

- While configuring time zones on managed devices, use the acronyms listed in the *Time Zone Acronym Setting on Device* column. To set time zones on devices, use the command described in the device-specific Command Reference documentation.

- The device should be configured to send Syslogs with the appropriate time zone acronym that indicates whether daylight savings is in effect at the time of sending the Syslog. This is to ensure that the Syslog analyzer or Essentials uses the correct acronym for time conversion.

Changes made to the system time zone from outside Cisco Prime applications might not be reflected in already-running Cisco Prime applications. After changing the time zone, restart all Cisco Prime applications.

Table 1   ***Supported Server Time Zones***

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Brazil / DeNoronha	FNT	Fernando de Noronha Time	-2:00
Brazil / West	BST	British Summer Time	+1:00
Brazil/Acre	AMT	Amazon Time	-4:00
Brazil/East	EST	Eastern Standard Time	-3:00
GMT0	AZOST	Azores Summer Time	-1:00
Iceland	GMT	Greenwich Mean Time	0:00
EET	EET	Eastern European Time	+2:00
United States / Pacific	PST	Pacific Standard Time	-8:00
US/Indiana-Starke	EST	Eastern Standard Time	-5:00
US/Samoa	SST	Samoa Standard Time	-11:00
US/Arizona	MST	Mountain Standard Time	-7:00
US/East-Indiana	EDT	Eastern Daylight Time	-5:00
US/Central	CST	Central Standard Time	-6:00
US/Eastern	EST	Eastern Standard Time	-5:00
US/Mountain	MST	Mountain Standard Time	-7:00
US/Alaska	AST	Alaska Standard Time	-9:00
US/Hawaii	HAST	Hawaii-Aleutian Standard Time	-10:00
US/Aleutian	HAST	Hawaii-Aleutian Standard Time	-10:00
US/Michigan	EDT	Eastern Daylight Time	-5:00
MST	MST	Mountain Standard Time	-7:00
CET	CET	Central Europian Time	+1:00
Asia/Chungking	CST	China Standard Time	+8:00
Asia/Bangkok	ICT	Indochina Time	+7:00
Asia/Kashgar	CST	Central Standard Time	+8:00

Table 1   *Supported Server Time Zones (continued)*

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Asia/Macao	CST	China Standard Time	+8:00
Asia/Yakutsk	YAKT	Yakutsk Time	+9:00
Asia/Riyadh	AST	Arabia Standard Time	+3:00
Asia/Makassar	WITA	Central Indonesian Time	+8:00
Asia/Shanghai	CCT	China Taiwan Time	+8:00
Asia/Kuala_Lumpur	MYT	Malaysia Time	+8:00
Asia/Hovd	HOVT	Hovd Time	+7:00
Asia/Qyzylorda	QYZT	Qyzylorda Time	+6:00
Asia/Harbin	CST	China Standard Time	+8:00
Asia/Tel_Aviv	IDT	Israel Daylight Time	+3:00
Asia/Anadyr	MAGST	Magadan Summer Time	+12:00
Asia/Istanbul	EEST	Eastern European Summer Time	+2:00
Asia/Jakarta	WIT	Western Indonesian Time	+7:00
Asia/Aqtobe	AQTT	Aqtobe Time	+5:00
Asia/Aden	AST	Arabia Standard Time	+3:00
Asia/Kuwait	AST	Arabia Standard Time	+3:00
Asia/Manila	PHT	Philippine Time	+8:00
Asia/Yerevan	AST	Armenia Summer Time	+5:00
Asia/Seoul	KST	Korea Standard Time	+9:00
Asia/Taipei	CST	China Standard Time	+8:00
Asia/Bahrain	AST	Arabia Standard Time	+3:00
Asia/Jerusalem	IDT	Israel Daylight Time	+3:00
Asia/Riyadh89	AST	Arabia Standard Time	+3:00
Asia/Ho_Chi_Minh	ICT	Indochina Time	+7:00
Asia/Saigon	ICT	Indochina Time	+7:00
Asia/Dubai	GST	Gulf Standard Time	+4:00
Asia/Tokyo	JST	Japan Standard Time	+9:00
Asia/Omsk	OMSST	Omsk Summer Time	+7:00
Asia/Calcutta	IST	India Summer Time	+5:30
Asia/Kabul	AFT	Afghanistan Time	+4:30
Asia/Karachi	PKT	Pakistan Standard Time	+5:00
Asia/Damascus	EEST	Eastern European Summer Time	+2:00
Asia/Singapore	SGT	Singapore Time	+8:00
Asia/Samarkand	UZT	Uzbekistan Time	+5:00
Asia/Dili	TLT	East Timor Time	+9:00

Table 1 Supported Server Time Zones (continued)

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Asia/Dhaka	BST	Bangladesh Standard Time	+6:00
Asia/Vientiane	ICT	Indochina Time	+7:00
Asia/Aqtau	AQTT	Aqtobe Time	+5:00
Asia/Thimbu	BTT	Bhutan Time	+6:00
Asia/Ashkhabad	TMT	Turkmenistan Time	+5:00
Asia/Yekaterinburg	YEKST	Yekaterinburg Summer Time	+6:00
Asia/Kamchatka	PETST	Kamchatka Summer Time	+12:00
Asia/Macau	CST	Chinsa Standard Time	+8:00
Asia/Oral	ORAT	ORAT	+5:00
Asia/Ashgabat	TMT	Turkmenistan Time	+5:00
Asia/Novosibirsk	NOVST	Novosibirsk Summer Time	+7:00
Asia/Thimphu	BTT	Bhutan Time	+6:00
Asia/Ulan_Bator	IRKST	Irkutsk Summer Time	+9:00
Asia/Nicosia	EEST	Eastern European Summer Time	+2:00
Asia/Phnom_Penh	ICT	Indochina Time	+7:00
Asia/Irkutsk	IRKST	Irkutsk Summer Time	+9:00
Asia/Urumqi	CST	Chinsa Standard Time	+8:00
Asia/Kuching	MYT	Malaysia Time	+8:00
Asia/Kolkata	IST	India Standard Time	+5:30
Asia/Vladivostok	VLAST	Vladivostok Summer Time	+11:00
Asia/Dacca	BST	Bangladesh Standard Time	+6:00
Asia/Baku	AZST	Azerbaijan Summer Time	+5:00
Asia/Tashkent	UZT	Uzbekistan Time	+5:00
Asia/Rangoon	MMT	Myanmar Time	+6:30
Asia/Dushanbe	TJT	Tajikistan Time	+5:00
Asia/Hong_Kong	HKT	Hong Kong Time	+8:00
Asia/Magadan	MAGST	Magadan Summer Time	+12:00
Asia/Krasnoyarsk	KRAST	Krasnoyarsk Summer Time	+8:00
Asia/Katmandu	NPT	Nepal Time	+5:45
Asia/Gaza	EEST	Eastern European Summer Time	+2:00
Asia/Brunei	BNT	Brunei Darussalam Time	+8:00
Asia/Pyongyang	KST	Korea Standard Time	+9:00
Asia/Colombo	IST	India Standard Time	+5:30
Asia/Choibalsan	ULAT	Ulaanbaatar Time	+8:00
Asia/Bishkek	KGT	Kyrgyzstan Time	+6:00

Table 1   *Supported Server Time Zones (continued)*

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Asia/Baghdad	AST	Arabia Standard Time	+3:00
Asia/Tehran	IRDT	Iran Daylight Time	+4:30
Asia/Chongqing	CST	China Standard Time	+8:00
Asia/Tbilisi	GET	Georgia Standard Time	+4:00
Asia/Amman	EEST	Eastern European Summer Time	+2:00
Asia/Ujung_Pandang	WITA	Central Indonesian Time	+8:00
Asia/Riyadh	AST	Arabia Standard Time	+3:00
Asia/Pontianak	WIB	Western Indonesian Time	+7:00
Asia/Muscat	GST	Gulf Standard Time	+4:00
Asia/Sakhalin	SAST	South Africa Standard Time	+10:00
Asia/Beirut	EEST	Eastern European Summer Time	+2:00
Asia/Qatar	AST	Arabia Standard Time	+3:00
Asia/Ulaanbaatar	ULAT	Ulaanbaatar Time	+8:00
Asia/Kathmandu	NPT	Nepal Time	+5:45
Asia/Almaty	ALMT	Alma-Ata Time	+6:00
Asia/Riyadh87	AST	Arab Standard Time	+3:00
Asia/Jayapura	WIT	Eastern Indonesian Time	+9:00
PRC	MST	Mountain Standard Time	-7:00
Japan	JST	Japan Standard Time	+9:00
Antarctica/DumontDUrville	DDUT	Dumont-d`Urville Time	+10:00
Antarctica/Palmer	NZST	New Zealand Standard Time	+12:00
Antarctica/Mawson	MAWT	Mawson Time	+5:00
Antarctica/Vostok	VOST	Vostok Time	+6:00
Antarctica/Casey	CAST	Casey Time	+8:00
Antarctica/Syowa	SYOT	Syowa Time Time Zone	+3:00
Antarctica/McMurdo	NZST	New Zealand Standard Time	+12:00
Antarctica/Rothera	ROTT	Rothera Time	-3:00
Antarctica/Davis	DAVT	Davis Time	+7:00
Antarctica/South_Pole	NZST	New Zealand Standard Time	+12:00
Pacific/Tarawa	GILT	Gilbert Island Time	+12:00
Pacific/Gambier	GAMT	Gambier Time	+9:00
Pacific/Port_Moresby	PGT	Papua New Guinea Time	+10:00
Pacific/Kiritimati	LINT	Line Islands Time	+14:00
Pacific/Nauru	NRT	Nauru Time Zone	+12:00
Pacific/Rarotonga	CKT	Cook Island Time	-10:00

Table 1   **Supported Server Time Zones (continued)**

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Pacific/Galapagos	GALT	Galapagos Time	-6:00
Pacific/Yap	YAPT	Yap Time	+10:00
Pacific/Wake	WAKT	Wake Iland Time Zone	+12:00
Pacific/Auckland	NZST	New Zealand Standard Time	+12:00
Pacific/Samoa	SST	Samoa Standard Time	-11:00
Pacific/Apia	WST	West Samoa Time	-11:00
Pacific/Majuro	MHT	Marshall Islands Time	+12:00
Pacific/Efate	VUT	Vanuata Time	+11:00
Pacific/Guam	ChST	Chamorro Standard Time	+10:00
Pacific/Chatham	CHAST	Chatham Island Standard Time	+12:45
Pacific/Honolulu	HAST	Hawaii-Aleutian Standard Time	-10:00
Pacific/Pago_Pago	SST	Samoa Standard Time	-11:00
Pacific/Kwajalein	MHT	Marshall Islands Time	+12:00
Pacific/Wallis	WFT	Wallis and Futuna Time	+12:00
Pacific/Norfolk	NFT	Norfolk Time	+11:30
Pacific/Niue	NUT	Niue Time	-11:00
Pacific/Kosrae	KOST	Kosrae Standard Time	+11:00
Pacific/Pitcairn	PST	Pitcairn Standard Time	-8:00
Pacific/Midway	SST	Samoa Standard Time	-11:00
Pacific/Funafuti	TVT	Tuvalu Time	+12:00
Pacific/Saipan	ChST	Chamorro Standard Time	+10:00
Pacific/Marquesas	MART	Marquesas Time	-9:30
Pacific/Tongatapu	TOST	Tongatapu Standard Time	+13:00
Pacific/Easter	EAST	Easter Island Standard Time	-6:00
Pacific/Noumea	NCT	New Caledonia Time	+11:00
Pacific/Ponape	PONT	Pohnpei Standard Time	+11:00
Pacific/Guadalcanal	SBT	Solomon Island Time	+11:00
Pacific/Fakaofo	TKT	Tokelau Time	-10:00
Pacific/Tahiti	TAHT	Tahiti Time	-10:00
Pacific/Palau	PWT	Palau Time	+9:00
Pacific/Johnston	HDT	Hawaiian Daylight Time	-9:30
Pacific/Enderbury	PHOT	Phoenix Island Time	+13:00
Pacific/Fiji	FJT	Fiji Time	+12:00
Pacific/Truk	TRUT	Truk Time	+10:00
PST8PDT	PDT	Pacific Daylight Time	-7:00

Table 1   Supported Server Time Zones (continued)

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Hongkong	HKT	Hong Kong Time	+8:00
EST5EDT	EDT	Eastern Daylight Time	-4:00
GMT	GMT	Greenwich Mean Time	+0:00
Mideast/Riyadh88	AST	Arabia Standard Time	+3:00
Mideast/Riyadh89	AST	Arabia Standard Time	+3:00
Mideast/Riyadh87	AST	Arabia Standard Time	+3:00
W-SU	MSD	Mascow Daylight Time	+3:00
Navajo	MDT	Mountain Daylight Time	-7:00
GB	BST	British Summer Time	+1:00
NZ	NZST	New Zealand Standard Time	+12:00
UCT	UCT	Universal Time	+0:00
CST6CDT	CDT	Central Daylight Time	-6:00
Jamaica	EST	Eastern Standard Time	-5:00
Universal	UCT	Universal Time	+0:00
Portugal	WEST	Western European Summer Time	+1:00
Cuba	CDT	Cuba Daylight Time	-5:00
Arctic/Longyearbyen	CEST	Central European Summer Time	+1:00
Turkey	EEST	Eastern European Summer Time	+2:00
GB-Eire	BST	British Summer Time	+1:00
HST	HAST	Hawaii-Aleutian Standard Time	-10:00
UTC	Universal	Universal	+0:00
Egypt	EET	Eastern European Time	+2:00
Singapore	SGT	Singapore Time	+8:00
Eire	IST	Irish Standard Time	+1:00
America/Yellowknife	MDT	Mountain Daylight Time	-7:00
America/Yakutat	YDT	Yukon Daylight Time	-8:00
America/Belem	BRT	Brasília time	-3:00
America/Eirunepe	ACST	Australian Central Standard Time	+9:30
America/Nipigon	EDT	Eastern Daylight Time	-4:00
America/Managua	CST	Central Standard Time	-6:00
America/Rankin_Inlet	CDT	Central Daylight Time	-6:00
America/Fort_Wayne	EDT	Eastern Daylight Time	-5:00
America/Santiago	ART	Argentina Time	-3:00
America/Port-au-Prince	EST	Eastern Standard Time	-5:00
America/Lima	PET	Peru Time	-5:00

Table 1 **Supported Server Time Zones (continued)**

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
America/Merida	CDT	Central Daylight Time	-6:00
America/Cambridge_Bay	MDT	Mountain Daylight Time	-7:00
America/Buenos_Aires	ART	Argentina Time	-3:00
America/Aruba	AST	Atlantic Standard Time	-4:00
America/Ensenada	PDT	Pacific Daylight Time	-8:00
America/Winnipeg	CDT	Central Daylight Time	-6:00
America/Hermosillo	MST	Mountain Standard Time	-7:00
America/Curacao	AST	Atlantic Standard Time	-4:00
America/Jamaica	EST	Eastern Standard Time	-5:00
America/Grand_Turk	MDT	Mountain Daylight Time	-7:00
America/Rosario	ART	Argentina Time	-3:00
America/North_Dakota/Center	CDT	Central Daylight Time	-6:00
America/North_Dakota/New_Salem	PDT	Pacific Daylight Time	-8:00
America/Catamarca	ART	Argentina Time	-3:00
America/Campo_Grande	AMT	Amazon Time	-4:00
America/Toronto	EDT	Eastern Daylight Time	-5:00
America/Coral_Harbour	EST	Eastern Standard Time	-5:00
America/Glace_Bay	CDT	Central Daylight Time	-6:00
America/Montreal	EDT	Eastern Daylight Time	-5:00
America/St_Johns	NDT	Newfoundland Daylight Time	-3:30
America/Montserrat	AST	Atlantic Standard Time	-4:00
America/Antigua	AST	Atlantic Standard Time	-4:00
America/Godthab	WGST	Western Greenland Summer Time	-3:00
America/Nassau	EDT	Eastern Daylight Time	-5:00
America/Shiprock	MDT	Mountain Daylight Time	-7:00
America/Indianapolis	EDT	Eastern Daylight Time	-5:00
America/Cayenne	GFT	French Guiana Time	-3:00
America/Manaus	AMT	Amazon Time	-4:00
America/Dawson	MST	Mountain Standard Time	-7:00
America/Panama	EST	Eastern Standard Time	-5:00
America/Swift_Current	CDT	Central Daylight Time	-6:00
America/El_Salvador	CST	Central Standard Time	-6:00

Table 1   *Supported Server Time Zones (continued)*

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
America/Noronha	FNT	Fernando de Noronha Time	-2:00
America/St_Vincent	AST	Atlantic Standard Time	-4:00
America/Juneau	AKDT	Alaska Daylight Time	-9:00
America/Sao_Paulo	BRT	Brasilla Time	-3:00
America/Marigot	AST	Atlantic Standard Time	-4:00
America/Resolute	CDT	Central Daylight Time	-6:00
America/Caracas	VET	Venezuelan Standard Time	-4:30
America/Rio_Branco	AMT	Amazon Time	-4:00
America/Los_Angeles	PDT	Pacific Daylight Time	-8:00
America/Regina	CST	Central Standard Time	-6:00
America/Porto_Acre	AMT	Amazon Time	-4:00
America/Bogota	COT	Columbia Time	-5:00
America/Anguilla	AST	Atlantic Standard Time	-4:00
America/Mazatlan	MDT	Mountain Daylight Time	-7:00
America/Tortola	AST	Atlantic Standard Time	-4:00
America/Mendoza	ART	Argentina Time	-3:00
America/Atikokan	EST	Eastern Standard Time	-500
America/Boise	MDT	Moutain Daylight Time	-7:00
America/Cayman	EST	Eastern Standard Time	-5:00
America/Fortaleza	BRT	Brasilia Time	-3:00
America/Port_of_Spain	AST	Atlantic Standard Time	-4:00
America/Montevideo	UYT	Uruguay Time	-3:00
America/Mexico_City	CDT	Central Daylight Time	-6:00
America/Argentina/Ushuaia	ART	Argentina Time	-3:00
America/Argentina/Jujuy	ART	Argentina Time	-3:00
America/Argentina/San_Luis	ART	Argentina Time	-3:00
America/Argentina/ComodRivadavia	ART	Argentina Time	-3:00
America/Argentina/Buenos_Aires	ART	Argentina Time	-3:00
America/Argentina/Tucuman	ART	Argentina Time	-3:00
America/Argentina/Rio_Gallegos	ART	Argentina Time	-3:00

Table 1　　**Supported Server Time Zones (continued)**

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
America/Argentina/Cata-marca	ART	Argentina Time	-3:00
America/Argentina/La_Rioja	ART	Argentina Time	-3:00
America/Argentina/San_Juan	ART	Argentina Time	-3:00
America/Argentina/Mendoza	ART	Argentina Time	-3:00
America/Argentina/Salta	ART	Argentina Time	-3:00
America/Argentina/Cordoba	ART	Argentina Time	-3:00
America/Iqaluit	EDT	Eastern Daylight Time	-5:00
America/Tijuana	PDT	Pacific Daylight Time	-8:00
America/Cordoba	ART	Argentina Time	-3:00
America/Whitehorse	PDT	Pacific Daylight Time	-8:00
America/Porto_Velho	AMT	Amazon Time	-4:00
America/Asuncion	PYT	Paraguay Time	-4:00
America/Menominee	CST	Central Standard Time	-6:00
America/Araguaina	BRT	Brasilia Time	-3:00
America/Dominica	AST	Atlantic Standard Time	-4:00
America/St_Lucia	AST	Atlantic Standard Time	-4:00
America/Havana	CDT	Cuba Daylight Time	-5:00
America/Anchorage	AKDT	Alaska Daylight Time	-9:00
America/Virgin	EDT	Eastern Daylight Time	-5:00
America/Paramaribo	SRT	Suriname Time	-3:00
America/Rainy_River	CDT	Central Daylight Time	-5:00
America/Blanc-Sablon	AST	Atlantic Standard Time	-4:00
America/Thule	ADT	Atlantic Daylight Time	-3:00
America/New_York	EDT	Eastern Daylight Time	-5:00
America/Tegucigalpa	CST	Central Standard Time	-6:00
America/St_Thomas	AST	Atlantic Standard Time	-4:00
America/Indiana/Vevay	EDT	Eastern Daylight Time	-4:00
America/Indiana/Winamac	EDT	Eastern Daylight Time	-4:00
America/Indiana/Indianapolis	EDT	Eastern Daylight Time	-5:00

Table 1   Supported Server Time Zones (continued)

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
America/Indiana/Marengo	EDT	Eastern Daylight Time	-5:00
America/Indiana/ Petersburg	EDT	Eastern Daylight Time	-5:00
America/Indiana/Knox	CDT	Central Daylight Time	-5:00
America/Indiana/ Vincennes	EDT	Eastern Daylight Time	-4:00
America/Indi- ana/Tell_City	CDT	Central Daylight Time	-5:00
America/Denver	MDT	Mountain Daylight Time	-7:00
America/Costa_Rica	CST	Central Standard Time	-6:00
America/Cuiaba	AMT	Amazon Time	-4:00
America/Boa_Vista	AMT	Amazon Time	-4:00
America/Recife	BRT	Brasilia Time	-3:00
America/Vancouver	PDT	Pacific Daylight Time	-8:00
America/Dawson_Creek	MST	Mountain Standard Time	-7:00
America/Atka	HADT	Hawaii-Aleutian Daylight Time	-9:00
America/Adak	HADT	Hawaii-Aleutian Daylight Time	-10:00
America/Belize	CST	Central Standard Time	-6:00
America/Louisville	EDT	Eastern Daylight Time	-5:00
America/Miquelon	PMDT	Pierre & Miquelon Daylight Time	-3:00
America/Detroit	EDT	Eastern Daylight Time	-5:00
America/Thunder_Bay	EDT	Eastern Daylight Time	-5:00
America/Guadeloupe	AST	Atlantic Standard Time	-4:00
America/Guyana	GYT	Guyana Time	-4:00
America/Martinique	AST	Atlantic Standard Time	-4:00
America/Nome	AKDT	Alaska Daylight Time	-9:00
America/Santarem	BRT	Brasilia Time	-3:00
America/Moncton	ADT	Atlantic Daylight Time	-4:00
America/Maceio	BRT	Brasilia Time	-3:00
America/Inuvik	MDT	Mountain Daylight Time	-7:00
America/Cancun	CDT	Central Daylight Time	-6:00
America/Halifax	ADT	Atlantic Daylight Time	-4:00
America/Edmonton	MDT	Mountain Daylight Time	-7:00
America/Kentucky/Monti- cello	EDT	Eastern Daylight Time	-4:00

Table 1 **Supported Server Time Zones (continued)**

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
America/Kentucky/Louis-ville	EDT	Eastern Daylight Time	-5:00
America/Monterrey	CDT	Central Daylight Time	-6:00
America/Guatemala	CST	Central Standard Time	-6:00
America/Chicago	CDT	Central Daylight Time	-6:00
MET	MEST	Middle European Summer Time	+2:00
Factory	GMT	Greenwich Mean Time	+0:00
Indian/Mahe	IST	India Standard Time	+5:30
Indian/Maldives	MVT	Maldives Time	+5:00
Indian/Mauritius	MUT	Mauritius Time	+4:00
Indian/Chagos	IOT	Indian Chagos Time	+6:00
Indian/Cocos	CCT	Cocos Islands Time	+6:30
Indian/Reunion	RET	Reunion Time	+4:00
Indian/Comoro	EAT	East Africa Time	+3:00'
Indian/Antananarivo	EAT	East Africa Time	+3:00'
Indian/Christmas	CXT	Christmas Island Time	+7:00
Indian/Kerguelen	TFT	French Southern and Antartic Time	+5:00
Indian/Mayotte	EAT	East Africa Time	+3:00'
Canada/Pacific	PDT	Pacific Daylight Time	-7:00
Can-ada/East-Saskatchewan	CST	Cenntral Standard Time	-6:00
Canada/Newfoundland	NDT	Newfoundland Daylight Time	-2:30
Canada/Central	CDT	Central Daylight Time	-5:00
Canada/Eastern	EDT	Eastern Daylight Time	-4:00
Canada/Mountain	MDT	Mountain Daylight Time	-7:00
Canada/Saskatchewan	CST	Central Standard Time	-6:00
Canada/Atlantic	ADT	Atlantic Daylight Time	-3:00
Canada/Yukon	EDT	Eastern Daylight Time	-5:00
ROC	CST	Central Standard Time	+8:00
Greenwich	EDT	Eastern Daylight Time	-4:00
Zulu	Universal	Universal Time	+0:00
Poland	EDT	Eastern Daylight Time	-4:00
MST7MDT	MDT	Mountain Daylight Time	-6:00
Australia/Tasmania	EST	Eastern Standard Time	+10:00
Australia/West	WST	Western Standard Time	+8:00

Table 1   Supported Server Time Zones (continued)

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Australia/Darwin	CST	Central Standard Time	+9:30
Australia/Yancowinna	CST	Central Standard Time	+9:30
Australia/Brisbane	EST	Eastern Standard Time	+10:30
Australia/Lord_Howe	LHST	Lord Howe Standard Time	+10:30
Australia/Currie	EST	Eastern Standard Time	+10:00
Australia/Adelaide	CST	Central Standard Time	+9:30
Australia/Perth	WST	Western Standard Time	+8:00
Australia/Hobart	EST	Eastern Standard Time	+10:00
Australia/ACT	EST	Eastern Standard Time	+10:00
Australia/North	CST	Central Standard Time	+9:30
Australia/Eucla	CWST	Central Western Summer Time	+8:45
Australia/NSW	EST	Eastern Standard Time	+10:00
Australia/Victoria	EST	Eastern Standard Time	+10:00
Australia/South	CST	Central Standard Time	+9:30
Australia/Canberra	EST	Eastern Standard Time	+10:00
Australia/LHI	LHST	Lord Howe Standard Time	+10:30
Australia/Queensland	EST	Eastern Standard Time	+10:00
Australia/Melbourne	EST	Eastern Standard Time	+10:00
Australia/Sydney	EST	Eastern Standard Time	+10:00
Australia/Broken_Hill	CST	Central Standard Time	+9:30
Atlantic/Stanley	FKST	Falkland Islands Summer Time	-3:00
Atlantic/Faroe	WEST	Western European Summer Time	+1:00
Atlantic/Canary	WEST	Western European Summer Time	+1:00
Atlantic/Azores	AZOST	Azores Summer Time	+0:00
Atlantic/South_Georgia	GST	Guam Standard Time	-2:00
Atlantic/St_Helena	GMT	Greenwich Mean Time	+0:00
Atlantic/Cape_Verde	CVT	Current Cape Verde Time	-1:00
Atlantic/Jan_Mayen	CEST	Central European Summer Time	+2:00
Atlantic/Reykjavik	GMT	Greenwich Mean Time	+0:00
Atlantic/Faeroe	WEST	Western European Summer Time	+1:00
Atlantic/Madeira	WEST	Western European Summer Time	+1:00
Atlantic/Bermuda	ADT	Atlantic Daylight Time	-3:00
America/Grenada	AST	Atlantic Standard Time	-4:00
America/Phoenix	MST	Mountain Standard Time	-7:00
America/Chihuahua	MDT	Mountain Daylight Time	-6:00

Table 1   Supported Server Time Zones (continued)

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
America/Goose_Bay	ADT	Atlantic Daylight Time	-3:00
America/St_Kitts	AST	Atlantic Standard Time	-4:00
America/La_Paz	BOT	Bolivia Time	-4:00
America/Santo_Domingo	AST	Atlantic Standard Time	-4:00
America/Guayaquil	ECT	Ecuador Time	-5:00
America/Pangnirtung	EDT	Eastern Daylight Time	-4:00
America/Barbados	AST	Atlantic Standard Time	-4:00
America/Jujuy	ART	Argentina Time	-3:00
America/Bahia	BRT	Brasilia Time	-3:00
America/St_Barthelemy	AST	Atlantic Standard Time	-4:00
America/Puerto_Rico	AST	Atlantic Standard Time	-4:00
America/Danmarkshavn	GMT	Greenwich Mean Time	+0:00
America/Knox_IN	CST	Central Standard Time	-5:00
America/Scoresbysund	EGST	Eastern Greenland Summer Time	+0:00
Kwajalein	MHT	Marshall Islands Time	+12:00
Iran/Tehran	IRDT	Iran Daylight Time	+4:30
Iran/Tehran	IRST	Iran Standard Time	+3:30
Europe/Berlin	CEST	Central European Summer Time	+2:00
Europe/Simferopol	EEST	Eastern European Summer Time	+3:00
Europe/Andorra	CEST	Central European Summer Time	+2:00
Europe/Samara	KUYT	Kuybyshev Time	+4:00
Europe/Dublin	IST	Irish Standard Time	+1:00
Europe/Guernsey	BST	British Summer Time	+1:00
Europe/Riga	EEST	Eastern European Summer Time	+3:00
Europe/Monaco	CEST	Central European Summer Time	+2:00
Europe/Tirana	CEST	Central European Summer Time	+2:00
Europe/San Marino	CEST	Central European Summer Time	+2:00
Europe/Istanbul	EEST	Eastern European Summer Time	+3:00
Europe/Athens	EEST	Eastern European Summer Time	+3:00
Europe/Zurich	CEST	Central European Summer Time	+2:00
Europe/Belgrade	CEST	Central European Summer Time	+2:00
Europe/Sarajevo	CEST	Central European Summer Time	+2:00
Europe/Tallinn	EEST	Eastern European Summer Time	+3:00
Europe/Podgorica	CEST	Central European Summer Time	+2:00
Europe/Bratislava	CEST	Central European Summer Time	+2:00

Table 1   *Supported Server Time Zones (continued)*

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Europe/Jersey	BST	British Summer Time	+1:00
Europe/Isle_of_Man	BST	British Summer Time	+1:00
Europe/Copenhagen	CEST	Central European Summer Time	+2:00
Europe/Volgograd	MSD	Moscow Daylight Time	+4:00
Europe/Gibraltar	CEST	Central European Summer Time	+2:00
Europe/Vatican	CEST	Central European Summer Time	+2:00
Europe/Belfast	BST	British Summer Time	+1:00
Europe/Brussels	CEST	Central European Summer Time	+2:00
Europe/Amsterdam	CEST	Central European Summer Time	+2:00
Europe/Bucharest	EEST	Eastern European Summer Time	+3:00
Europe/Helsinki	EEST	Eastern European Summer Time	+3:00
Europe/London	BST	British Summer Time	+1:00
Europe/Moscow	MSD	Moscow Daylight Time	+4:00
Europe/Madrid	CET	Central European Time	+1:00
Europe/Budapest	CEST	Central European Summer Time	+2:00
Europe/Vaduz	CEST	Central European Summer Time	+2:00
Europe/Prague	CEST	Central European Summer Time	+2:00
Europe/Luxembourg	CEST	Central European Summer Time	+2:00
Europe/Vienna	CEST	Central European Summer Time	+2:00
Europe/Rome	CEST	Central European Summer Time	+2:00
Europe/Mariehamn	EEST	Eastern European Summer Time	+3:00
Europe/Nicosia	EEST	Eastern European Summer Time	+3:00
Europe/Lisbon	WEST	Western European Summer Time	+1:00
Europe/Kiev	EEST	Eastern European Summer Time	+3:00
Europe/Sofia	EEST	Eastern European Summer Time	+3:00
Europe/Malta	CEST	Central European Summer Time	+2:00
Europe/Chisinau	EEST	Eastern European Summer Time	+3:00
Europe/Tiraspol	EEST	Eastern European Summer Time	+3:00
Europe/Paris	CEST	Central European Summer Time	+2:00
Europe/Warsaw	CEST	Central European Summer Time	+2:00
Europe/Oslo	CEST	Central European Summer Time	+2:00
Europe/Stockholm	CEST	Central European Summer Time	+2:00
Europe/Skopje	CEST	Central European Summer Time	+2:00
Europe/Ljubljana	CEST	Central European Summer Time	+2:00
Europe/Zagreb	CEST	Central European Summer Time	+2:00

Table 1   *Supported Server Time Zones (continued)*

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Europe/Vilnius	EEST	Eastern European Summer Time	+3:00
Europe/Zaporozhye	EEST	Eastern European Summer Time	+3:00
Europe/Uzhgorod	EEST	Eastern European Summer Time	+3:00
Europe/Minsk	EEST	Eastern European Summer Time	+3:00
Europe/Kaliningrad	EEST	Eastern European Summer Time	+3:00
EST	EST	Eastern Standard Time	-5:00
Africa/Ouagadougou	GMT	Greenwich Mean Time	+0:00
Africa/Maseru	SAST	South Africa Standard Time	+2:00
Africa/Conakry	GMT	Greenwich Mean Time	+0:00
Africa/Niamey	WAT	West Africa Time	+1:00
Africa/Blantyre	CAT	Central Africa Time	+2:00
Africa/Nouakchott	GMT	Greenwich Mean Time	+0:00
Africa/Johannesburg	SAST	South Africa Standard Time	+2:00
Africa/Asmera	EAT	Eastern Africa Time	+3:00
Africa/Windhoek	WAT	West Africa Time	+1:00
Africa/Ndjamena	WAT	West Africa Time	+1:00
Africa/Abidjan	GMT	Greenwich Mean Time	+0:00
Africa/Malabo	WAT	West Africa Time	+1:00
Africa/Maputo	CAT	Central Africa Time	+2:00
Africa/Lome	GMT	Greenwich Mean Time	+0:00
Africa/Khartoum	EAT	Eastern Africa Time	+3:00
Africa/Harare	CAT	Central Africa Time	+2:00
Africa/Bamako	GMT	Greenwich Mean Time	+0:00
Africa/Asmara	GMT	Greenwich Mean Time	+0:00
Africa/Porto-Novo	WAT	West Africa Time	+1:00
Africa/Douala	WAT	West Africa Time	+1:00
Africa/Mbabane	SAST	Eastern Africa Time	+2:00
Africa/Kampala	EAT	Eastern Africa Time	+3:00
Africa/Lusaka	CAT	Central Africa Time	+2:00
Africa/Tunis	CET	Central European Time	+1:00
Africa/Addis_Ababa	EAT	Eastern Africa Time	+3:00
Africa/Lubumbashi	CAT	Central Africa Time	+2:00
Africa/Ceuta	CEST	Central European Summer Time	+2:00
Africa/Freetown	GMT	Greenwich Mean Time	+0:00

Table 1   *Supported Server Time Zones (continued)*

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Africa/Mogadishu	EAT	Eastern Africa Time	+3:00
Africa/Banjul	GMT	Greenwich Mean Time	+0:00
Africa/Luanda	WAT	West Africa Time	+1:00
Africa/Bangui	WAT	West Africa Time	+1:00
Africa/Lagos	WAT	West Africa Time	+1:00
Africa/Brazzaville	WAT	West Africa Time	+1:00
Africa/Nairobi	EAT	Eastern Africa Time	+3:00
Africa/Algiers	CET	Central European Time	+2:00
Africa/Dar_es_Salaam	GMT	Greenwich Mean Time	+0:00
Africa/Dakar	GMT	Greenwich Mean Time	+0:00
Africa/Accra	GMT	Greenwich Mean Time	+0:00
Africa/Tripoli	EET	Eastern European Time	+2:00
Africa/Djibouti	EAT	Eastern Africa Time	+3:00
Africa/Libreville	WAT	West Africa Time	+1:00
Africa/Kinshasa	WAT	West Africa Time	+1:00
Africa/El_Aaiun	GMT	Greenwich Mean Time	+0:00
Africa/Cairo	EET	Eastern European Time	+2:00
Africa/Timbuktu	GMT	Greenwich Mean Time	+0:00
Africa/Sao_Tome	GMT	Greenwich Mean Time	+0:00
Africa/Monrovia	GMT	Greenwich Mean Time	+0:00
Africa/Bissau	GMT	Greenwich Mean Time	+0:00
Africa/Bujumbura	CAT	Central Africa Time	+2:00
Africa/Gaborone	CAT	Central Africa Time	+2:00
Africa/Kigali	CAT	Central Africa Time	+2:00
Africa/Casablanca	WEST	Western European Summer Time	+2:00
Iran/Tehran	IRDT	Iran Daylight Time	+4:30
Iran/Tehran	IRST	Iran Standard Time	+3:30
Europe/Berlin	CEST	Central European Summer Time	+2:00
Europe/Simferopol	EEST	Eastern European Summer Time	+3:00
Europe/Andorra	CEST	Central European Summer Time	+2:00
Europe/Samara	KUYT	Kuybyshev Time	+4:00
Europe/Dublin	IST	Irish Standard Time	+1:00
Europe/Guernsey	BST	British Summer Time	+1:00
Europe/Riga	EEST	Eastern European Summer Time	+3:00
Europe/Monaco	CEST	Central European Summer Time	+2:00

Table 1   Supported Server Time Zones (continued)

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Europe/Tirana	CEST	Central European Summer Time	+2:00
Europe/San Marino	CEST	Central European Summer Time	+2:00
Europe/Istanbul	EEST	Eastern European Summer Time	+3:00
Europe/Athens	EEST	Eastern European Summer Time	+3:00
Europe/Zurich	CEST	Central European Summer Time	+2:00
Europe/Belgrade	CEST	Central European Summer Time	+2:00
Europe/Sarajevo	CEST	Central European Summer Time	+2:00
Europe/Tallinn	EEST	Eastern European Summer Time	+3:00
Europe/Podgorica	CEST	Central European Summer Time	+2:00
Europe/Bratislava	CEST	Central European Summer Time	+2:00
Europe/Jersey	BST	British Summer Time	+1:00
Europe/Isle_of_Man	BST	British Summer Time	+1:00
Europe/Copenhagen	CEST	Central European Summer Time	+2:00
Europe/Volgograd	MSD	Moscow Daylight Time	+4:00
Europe/Gibraltar	CEST	Central European Summer Time	+2:00
Europe/Vatican	CEST	Central European Summer Time	+2:00
Europe/Belfast	BST	British Summer Time	+1:00
Europe/Brussels	CEST	Central European Summer Time	+2:00
Europe/Amsterdam	CEST	Central European Summer Time	+2:00
Europe/Bucharest	EEST	Eastern European Summer Time	+3:00
Europe/Helsinki	EEST	Eastern European Summer Time	+3:00
Europe/London	BST	British Summer Time	+1:00
Europe/Moscow	MSD	Moscow Daylight Time	+4:00
Europe/Madrid	CET	Central European Time	+1:00
Europe/Budapest	CEST	Central European Summer Time	+2:00
Europe/Vaduz	CEST	Central European Summer Time	+2:00
Europe/Prague	CEST	Central European Summer Time	+2:00
Europe/Luxembourg	CEST	Central European Summer Time	+2:00
Europe/Vienna	CEST	Central European Summer Time	+2:00
Europe/Rome	CEST	Central European Summer Time	+2:00
Europe/Mariehamn	EEST	Eastern European Summer Time	+3:00
Europe/Nicosia	EEST	Eastern European Summer Time	+3:00
Europe/Lisbon	WEST	Western European Summer Time	+1:00
Europe/Kiev	EEST	Eastern European Summer Time	+3:00

Table 1 Supported Server Time Zones (continued)

List of Supported Time Zone Values (Area Covered)	Time Zone Acronym Setting on Device	Definition	Offset from GMT
Europe/Sofia	EEST	Eastern European Summer Time	+3:00
Europe/Malta	CEST	Central European Summer Time	+2:00

Operating System Upgrade

While installing Cisco Prime LMS 4.2, the installation process checks for required patches. You must install:

- Any missing required patches, recommended patches, and cluster patches on Solaris systems.
- Required service packs on Windows systems.

For a list of prerequisites, see Chapter 2 of *Installing and Migrating to Cisco Prime LAN Management Solution 4.2* at:

http://www.cisco.com/en/US/docs/net_mgmt/ciscoworks_lan_management_solution/4.2/install/guide/install.html

If Cisco Prime does not operate properly after you install all necessary patches or service packs, check the permissions in the directory i*nstall-directory*\objects\dmgt\ready. Local administrators group and casusers group must have full access.

If the permissions are incorrect, stop the Daemon Manager, change the permissions, and start the Daemon Manager again.

⚠️
Caution If LMS is running without the required service packs or patches, it will not function properly.

Cross Platform Data Migration Support

Cross platform data migration in Linux does not support restoration of 32-bit backup from any platforms supported by LMS to 64-bit Linux machine.

Server and Client Requirements

For information on server and client requirements for the system and browser, see Chapter 2 of *Installing and Migrating to Cisco Prime LAN Management Solution 4.2* at:

http://www.cisco.com/en/US/docs/net_mgmt/ciscoworks_lan_management_solution/4.2/install/guide/install.html

Bugs

This section explains:

- Using Bug Toolkit

- Open Bugs for Cisco Prime LAN Management Solution 4.2
- Resolved Bugs in Cisco Prime LAN Management Solution 4.2

Using Bug Toolkit

In CiscoWorks LMS 4.0 and later, use the Bug ToolKit to view the list of outstanding and resolved bugs in a release. This section explains how to use the Bug ToolKit through the following subsections:

- Search Bugs
- Export to Spreadsheet

Search Bugs

This section explains how to use the Bug ToolKit to search for a specific bug or to search for all the bugs in a specified release.

Step 1 Go to http://www.cisco.com/cgi-bin/Support/Bugtool/launch_bugtool.pl.

You will be prompted to log into Cisco.com. After you login, the Bug Toolkit page opens.

Step 2 Click **Launch Bug Toolkit**.

Step 3 To search for a specific bug, enter the bug ID in the **Search for Bug ID** field and click **Go** in the **Search Bugs** tab.

To search for all the bugs in a specified release, enter the following search criteria in the **Search Bugs** tab:

- Select Product Category—Select **Network Management and Automation**.
- Select Products—Select **CiscoWorks LAN Management Solution 4.0 and later** from the list.
- Software Version—Select **4.2** to view the list of outstanding and resolved bugs in Cisco Prime LAN Management Solution 4.2.
- Search for Keyword(s)—Separate search phrases with boolean expressions (AND, NOT, OR) to search within the bug title and details.
- Advanced Options—You can either perform a search using the default search criteria or define custom criteria for an advanced search. To customize the advanced search, select **Use custom settings for severity, status, and others** and provide the following information:
  - Severity—Select the severity level.
  - Status—Select **Open**, **Fixed**, or **Terminated**.

    Select **Open** to view all the open bugs. To filter the open bugs, clear the Open checkbox and select the appropriate sub-options that appear below the Open checkbox. The sub-options are New, Held, More, Open, Waiting, Assigned, Forwarded, Postponed, Submitted, and Information Required. For example, if you want to view only new bugs in Cisco Prime LAN Management Solution 4.2, select **New**.

    Select **Fixed** to view fixed bugs. To filter fixed bugs, clear the Fixed checkbox and select the appropriate sub-options that appear below the fixed checkbox. The sub-options are **Resolved** or **Verified**.

    Select **Terminated** to view terminated bugs. To filter terminated bugs, clear the Terminated checkbox and select the appropriate sub-options that appear below the terminated checkbox. The sub-options are **Closed**, **Junked**, and **Unreproducible**. Select multiple options as required.

– Advanced—Select the **Show only bugs containing bug details** checkbox to view only those bugs that contain detailed information, such as symptoms and workarounds.

– Modified Date—Select this option if you want to filter bugs based on the date on which the bugs were last modified.

– Results Displayed Per Page—Select the appropriate option from the list to restrict the number of results that appear per page.

Step 4   Click **Search**. The Bug Toolkit displays the list of bugs based on the specified search criteria.

Export to Spreadsheet

The Bug ToolKit provides the following options to export bugs to a spreadsheet:

- Click **Export All to Spreadsheet** link in the Search Results page under the Search Bugs tab. Specify file name and folder name to save the spreadsheet. All the bugs retrieved by the search will be exported.

- Click **Export All to Spreadsheet** link in the My Notifications tab. Specify file name and folder name to save the spreadsheet. All the saved bugs in all the groups will be exported.

If you are unable to export the spreadsheet, log into the Technical Support Website at http://www.cisco.com/cisco/web/support/index.html for more information or call Cisco TAC (1-800-553-2447).

Open Bugs for Cisco Prime LAN Management Solution 4.2

The open bugs describe possible unexpected behavior in Cisco Prime LAN Management Solution 4.2 release. These bugs may also be open in previous releases.

Refer Using Bug Toolkit for querying and searching bug details.

This section contains:

- Open Bugs Related to Administration in LMS 4.2
- Open Bugs Related to Configuration in LMS 4.2
- Open Bugs Related to Dashboard and Portlets in LMS 4.2
- Open Bugs Related to Discovery, Device Management and Grouping Services in LMS 4.2
- Open Bugs Related to Installation in LMS 4.2
- Open Bugs Related to Monitoring and Troubleshooting in LMS 4.2
- Open Bugs Related to Network Topology, Layer 2 Services and User Tracking in LMS 4.2
- Open Bugs Related to UII in LMS 4.2

Open Bugs Related to Administration in LMS 4.2

Table 2 lists the open bugs related to Administration in LMS 4.2.

Table 2　　　　　*Open Bugs Related to Administration in LMS 4.2*

Identifier	Summary	Explanation
CSCts55260	Some issues occurred during the execution of CARS CLI command.	CARS-CLI Commands are not working as expected. This issue occurs when executing the some of the CARS-CLI commands. Workaround: None.
CSCtx08080	"Password Recovery" option is not working in Virtual Appliance.	"Password Recovery" option is not working as expected. When the ISO image is mounted and the option "Recover administrator password" is chosen for password recovery, an error message"Failed to mount drive partition" appears instead of the password recovery window. Workaround: None.
CSCtz24562	In some Soft Appliance platform, startup of DbEngines and responding to connections is consuming more time.	DbEngine startup and responding to connections is taking a long time. But other syslog logging from devices and Daemons Manager, which uses local0, has no issues. Workaround: Change "-s local0" to "-s none" in the dmgtd.conf file for the DB engine processes and restart the daemons.

Open Bugs Related to Configuration in LMS 4.2

Table 3 lists the open bugs related to Configuration in LMS 4.2.

Table 3   *Open Bugs Related to Configuration in LMS 4.2*

Identifier	Summary	Explanation
CSCtw86891	In Profile Execution Report page, SNMP strings are shown as clear text.	When fixing the violations in Profile Execution Report page, SNMP strings are shown as clear text. This occurs under the following condition: 1. Select the rule "check writeable string are not configured in a device" when you create a rule for the selected policy. 2. Configure SNMP Write in device, and then run compliance check job. 3. When you view the "violation with fix", SNMP strings are shown as clear text. Workaround: None.
CSCtx19732	No details are displayed for CAAM Jobs in Admin Job Browser.	Admin job browser for jobs related to CAAM display "No details" Pop-up when you click the job IDs. Workaround: See the job details in the respective Job Browser.
CSCtx26377	Helpdesk Users are unable to access or view CAAM Report.	Users with Helpdesk role are not able to access or view the CAAM Reports because Report view permissions are not given for Helpdesk users. Workaround: None.
CSCtg35678	Ports are not filtered in Identity configuration flow.	If you select any port group in Identity configuration flow, all ports including VLAN links ports are also listed. Workaround: Create a port group that do not have these ports or excludes these ports during job creation.
CSCti16034	Image distribution through SCP failed in Mixedstack.	This occurs when you try image distribution through SCP protocol. Workaround: None.
CSCtj59461	The associated ports for a particular Identity mode are not sorted in logical order.	In the Identity work center enable and edit flow, the sorting of ports are not in the logical order. The Port selection is not working properly after it is sorted. If you sort and select the first item in the grid, it takes the first item that was there before sorting. Workaround: Select the devices and port without sorting.

Table 3   *Open Bugs Related to Configuration in LMS 4.2 (continued)*

Identifier	Summary	Explanation
CSCts52554	Port Groups are not shown for Network Operator and User-defined role	This issue occurs in the Template Center Port and Module flow, and Netconfig flow under the following condition: 1. Create a User-defined role or a Network Operator role by selecting the View, Create, Configure, Deploy, or Import and Adhoc Configuration-Template Center tasks. 2. Login to LMS as a Network Operator role or a User-defined role. 3. In the Template Center deploy Port and Module flow and in the Net Config Port and Module flow, the port selector port groups and module selector module groups are not displayed. Workaround: In the Template Center Port and Module flow and NetConfig Port and Module flow, login into LMS as a user other than network operator or newly created user, the group selector groups are displayed.
CSCtt46555	Issue with Global commands in Module-based templates.	The following issues are identified: • When you create a module-based template and import the template, the same global commands are displayed multiple times in the preview CLI window during job scheduling. This issues occurs in the Template Center Module-based template. If the capable device has multiple modules, the preview CLI displays the global commands multiple times. • For Module based global parameters, syntax is not validated. Workaround: You must ensure that the correct value is entered as mentioned in the Global Parameter page.
CSCtu21015	NME module device is not able to fetch the result of the **ShComplnceReportCmndset** commandset.	When you select the NME module device and "Show Compliance Report Commands Info" commandset, and click on the **Next** button, the following pop-up message appears: "NS0036: None of the device(s) have applicable commands." This issue is specific to Module devices only. Workaround: None.

Table 3   ***Open Bugs Related to Configuration in LMS 4.2 (continued)***

Identifier	Summary	Explanation
CSCtu10003	"Bridge: Base Bridge Address" attribute operators need to be enhanced.	In the Inventory Custom Template, the Bridge: Base Bridge Address and System :OSI Layer Service attributes need to be enhanced for the "contains","startswith","endswith" operators under the following conditions: • The validation present for the attribute Bridge: Base Bridge Address in rule creation, does not allow to enter partial value. If you try to create a rule with the operator, "startswith" and the value, 00:0b, it will not be accepted as a valid input. • For the System: OSI Layer Service attribute, the "contains", "startswith", and "endswith" operators need to be enhanced as comma-separated attribute values. • If rule is provides as System: OSI Layer Service startswith Datalink, the only device that has 'Datalink' service alone is filtered. The device that has any other service supported along with 'Datalink' is not getting displayed in report. Workaround: None.
CSCtu26759	In Inventory Custom Template, report generation failed during some scenarios.	A blank screen is displayed in the report when you create an Inventory custom template with the following attributes: • Device Type: Category attribute. • Create a rule with Bridge attributes or with Memory pool set to "Lowest free block or System: Management Type". Workaround: None.
CSCtv10861	Issue with combination of new and old attributes in Inventory Custom Template.	When you create an Inventory Custom Template using the attributes, such as Bridge and Memory: size, the report that is generated does not filter the records based on the rules mentioned in the custom template: Workaround: None.

Table 3   *Open Bugs Related to Configuration in LMS 4.2 (continued)*

Identifier	Summary	Explanation
CSCtv11780	Failed to generate report with System: Management Type attribute.	An error message "Report could not found" is displayed when you generate a report using: • System: Management Type in the Report Attributes column, and • any other attributes, such as Location from System Inventory Group in the Rules for Attributes column. Workaround: None.
CSCtw69740	Issue with SGA Core template deployment.	SGA core template deployment fails for the device of type 6506 switch. The SGA core template has the CLI command, "cts sxp connection peer <<peer ip>> source <<Source ip>> password required cisco mode speaker". For this template during the deploy flow, the device of type 6506 switch is filtered in the device selector. But the device does not have the above CLI command. So the deploy job fails. The connection password option in the SGA core template CLI is "required". But in the device of type 6506 switch, only "default and not required" option is available. Workaround: None.
CSCtw92725	In CAAM, enhancement is required for Terminal Access policy.	For the rule "Check for incoming connections" in Terminal Access policy, it checks for both Telnet and SSH separately and data is displayed is displayed as failed for both Telnet and SSH in all CAAM reports. If either Telnet or SSH passes, the data is not displayed as passed in the report. Only the failed result is displayed, which can cause confusion. Hence, enhancement is required so that the successful results are also displayed in all CAAM reports for Terminal Access policy. This issue occurs when the user launches any report that has Terminal Access rules. Workaround: None.

Table 3 ***Open Bugs Related to Configuration in LMS 4.2 (continued)***

Identifier	Summary	Explanation
CSCtx34710	In CAAM, Inventory, Config, and Show commands need to be collected while synchronization.	After the data synchronization is completed, the synched up devices are added to CAAM database without the device details such as inventory, configuration, and show commands. This issue occurs after CAAM server is synched with LMS. Workaround: Collect the inventory, configuration, and show commands details and update the CAAM database manually.
CSCtx52176	Issue with contract reports when contract file is not imported.	If device contract summary and module contract summary reports are generated without importing a contract file, the error message, "contract file is not imported" does not appear. Workaround: None.
CSCtu29692	Ipv6 devices are not supported for CAAM features.	In the current version, IPv6 support is not provided for the CAAM compliance data collection feature. Workaround: None.
CSCtu33149	Purge functionality must be implemented for CAAM Jobs.	Purge functionality for CAAM feature jobs are not available. Workaround: User has to manually delete the jobs from the job browser.
CSCtx18996	In CAAM feature, job approval needs to be implemented.	Job approval needs to be implemented for jobs related to CAAM features. Workaround: None.
CSCtu09665	Issue when adding attributes for Bridge, System, MemPool group in Inventory Custom Report.	AND rule association displays N/A for unmatched rules, for the following attributes: • System: Management Type • Memory Pool: Lowest Free Block (MB) • Bridge: Base Bridge Address, Number of ports, and Bridge type. Workaround: None.

Table 3 *Open Bugs Related to Configuration in LMS 4.2 (continued)*

Identifier	Summary	Explanation
CSCtw58985	General enhancements are required for CAAM Report generation.	The following enhancements are required for CAAM report generation: • Before you generate a report, check the CAAM Server status. If the server is down, the message must appear as a pop-up instead of displaying a report page. • When there are no records for immediate report, a pop-up must appear instead of generating a new page with no records. Workaround: None.
CSCtw59013	Enhancements are required for CAAM Report formatting.	The following report formatting enhancements must be completed: • When the report data is large, the report page must be blurred and the processing icon must be displayed. • For reports with Multi-rows-for-device attribute is set as true, we need to provide a drop-down list box option so that when user selects the device from the drop-down list box, the section pertaining to the data for that device is displayed. • For the device summary displayed in each report, if the number of devices without data is large, the text "Devices without report data" appears in the centre. This text must appear at the top of the report. Workaround: None.

Table 3 ***Open Bugs Related to Configuration in LMS 4.2 (continued)***

Identifier	Summary	Explanation
CSCtw61686	Enhancements required in CAAM feature.	The following enhancements are required in CAAM feature: • Entire page is refreshed after you Save or do a Save As. The entire page must not be refreshed. • Interface Group pop-up error message must be displayed as part of (i) Icon. • A confirmation message must appear when a user navigates to other Policy Groups without saving the current policy. • Filter feature does not work for both Policy Groups and policies object selector. • System-defined group description is missing. These issues occur when a user tries to create a Policy Group. Workaround: None.
CSCtw58384	In the Profile Execution Report, separate columns are required for fixable and nonfixable violation count.	We must have separate columns in violation grid, which will list the count of fixable violation and nonfixable violation. This helps the user to know that both the violations exist. This issue occurs under the following conditions: 1. Schedule a compliance job for policy profile. 2. Launch the profile execution report after the job is completed successfully. 3. The policies grid in the report page must have extra column that display the count of fixable and non fixable violations. Workaround: None.

Table 3 Open Bugs Related to Configuration in LMS 4.2 (continued)

Identifier	Summary	Explanation
CSCtx57088	There are dynamic UI validation issues in CAAM Policy Group.	The following issues are identified: • Validation fails for some policies when the user moves from one policy to another or when a policy is saved. • When the validation fails, the error message appears but the radio button selection moves to the next selection. • In some rare scenarios, the radio button selection moves to the next policy even if the rules present in the dynamic UI are invalid or out of range. • In HTTP policy, the out of range message appears inconsistently along with a yellow color highlighted text box. This needs to be tracked through xwt forum. Workaround: None. This issue is inconsistent. The yellow color appearing is the behavior of the widget.
CSCtt34316	Report generated is not satisfying the rules in Inventory Custom Template.	Create an Inventory Custom Template using the attributes from different inventory groups for rule and report. When you generate a report using this template, the data is not filtered across the inventory groups. Workaround: None.
CSCtl76351	'More' command is seen in the latest archived running configuration for GSS device.	'More' command is seen in the latest archived running configuration for the GSS device. This occurs after you configure the GSS device with terminal width as 10, schedule a configuration fetch job, and successful completion of the job. Workaround: None.
CSCtq53879	Cache issue in Template Center Port related template on Preview CLI command.	This issue occurs under the following condition: 1. Go to **Configuration** > **Tools** > **Template Center** > **Deploy**. 2. Select two ports and navigate to the preview CLI pane. 3. Go back to the Template Center deploy page and select one more port. 4. Navigate to the preview CLI pane. CLI commands are generated only for the first selected two ports. Workaround: None.

Table 3   *Open Bugs Related to Configuration in LMS 4.2 (continued)*

Identifier	Summary	Explanation
CSCtr10934	Pick list for software versions must include IOS information for the ASR.	Currently, when viewing the pick list for software images, the ASR line only shows the IOS XE version information versus the resulting IOS Release information. Workaround: Research the IOS XE to IOS version information to select the correct software update path.
CSCti77485	Software update page link is missing in Remote Syslog Analyzer and Collector (RSAC) server.	Link for software update page is missing in the RSAC server. Workaround: None.
CSCtw64274	Cross platform migration: Configuration archives are not restored if Custom archive location is used.	Custom archives are not restored when you choose the LMS installed drive as the archive drive. For example, if you install LMS in custom drive and after restore, you collect archives in the custom path, archives are not restored in LINUX server. **Note** You can install LMS in D drive and collect archives in C drive or any other drive (if exists) other than the D drive in which LMS is installed. Workaround: None.
CSCtw51607	Device under NAT environment is not collected in EnergyWise	The device maintained under NAT environment and managed with public IP is shown in all the technology workcenter except EnergyWise. In LMS, EnergyWise needs subnet details of a device, which is done through MIB polling. Hence, if the device is managed with NATed IP address then EnergyWise collection fails. Workaround: None.

Open Bugs Related to Dashboard and Portlets in LMS 4.2

Table 4 lists the open bugs related to Dashboards and Portlets in LMS 4.2.

Table 4   *Open Bugs Related to Dashboard and Portlets in LMS 4.2*

Identifier	Summary	Explanation
CSCtw76726	Undeployed portlet is available in 32SP public dashboard that is migrated from 32SP migration.	Undeployed portlet is available in the public dashboard- 32SP, which is getting migrated from LMS 32SP. Workaround: None.
CSCtw56101	Identity DB name is retained for restore backup of LMS 401.	Identity DB name is retained for restore backup of LMS 401. Workaround: None.

Open Bugs Related to Discovery, Device Management and Grouping Services in LMS 4.2

Table 5 lists the open bugs related to Discovery, Device Management and Grouping Services in LMS 4.2.

Table 5   *Open Bugs Related to Discovery, Device Management and Grouping Services in LMS 4.2*

Identifier	Summary	Explanation
CSCtx37339	Default Credential set not working for cluster updated devices.	Default Credential set is not applied for updated cluster devices from discovery. Select cluster module in custom discovery settings and select default credential set option and run discovery. Workaround: None.
CSCtx50661	Unable to stop the running discovery instance error message in discovery.	When the running discovery instance is stopped inconsistently the following error message appears: "unable to stop the running discovery instance" The discovery instance is stopped. No issues due to this pop-up message. Workaround: None.
CSCtw81578	GS page is in loading state for more than 15 minutes in the inline server.	Unable to open the Getting started page in the inline upgrade server. It takes more than 20 minutes to load the GS page. This issue occurs when the inline upgrade servers get the psu thread blocked in the tomcat thread. Workaround: None.

Open Bugs Related to Installation in LMS 4.2

Table 6 lists the open bugs related to Installation in LMS 4.2.

Table 6   *Open Bugs Related to Installation in LMS 4.2*

Identifier	Summary	Explanation
CSCty42710	While upgarding LMS 4.1 to LMS 4.2 , CiscoView old packages get uninstalled and only left with the device packages that are new/changed in LMS 4.2	CiscoView does not launch for most of the devices . while upgrading LMS 4.1 to LMS 4.2. Workaround: • Stop daemons. • Copy all device packages from NMSROOT\www\classpath\com\cisco\nm\xms\psu\pkgs\cvw to NMSROOT\MDC\tomcat\webapps\CVng\WEB-INF\classes\com\cisco\nm\cvw. • Start daemons.

Open Bugs Related to Monitoring and Troubleshooting in LMS 4.2

Table 7 lists the open bugs related to Monitoring and Troubleshooting in LMS 4.2.

Table 7   *Open Bugs Related to Monitoring and Troubleshooting in LMS 4.2*

Identifier	Summary	Explanation
CSCtx34228	Identity needs to be changed as TrustSec in technology details portlet.	TrustSec is displayed as identity in troubleshooting technology details portlet. This issue occurs when you launch the troubleshooting reports for the identity enabled device. Workaround: None.
CSCtx34369	TrustSec status values to be changed accordingly in technology details.	TrustSec status values are not displayed properly. This issue occurs when you launch the troubleshooting reports for the TrustSec enabled device. Workaround: None.

Table 7 **Open Bugs Related to Monitoring and Troubleshooting in LMS 4.2 (continued)**

Identifier	Summary	Explanation
CSCtw52350	Fault customized groups are lost after editing as private.	Customized groups are missing under Fault device group administration page.
		When you edit a customized group under fault device group management page, mark the visibility scope as private, and complete the edit flow, the edited customized group is not displayed under the tree.
		Workaround:
		DFM DB's (dfmInv, dfmEpm, dfmFh) has to be reinitialized to get back the customizable groups. However, the previously edited changes will not reflect.
CSCtn68202	Issue in hum when entPhysicalDescr names are same for different instance.	When you try to poll for EnergyWise port power usage and CPU utilization templates, the poller screen displays the same instance names. In live graph and histograph, the portlets display HTTP 500 error.
		This issue occurs when the entPhysicalDescr name is same for many instances.
		Workaround:
		None.
CSCua14145	IPSLA Monitoring graph will not be displayed correctly in IE8.	Under Monitor > Performance Settings > IPSLA > Collectors when choosing the collector and click on monitor, the graph will be displayed, but when scrolling the graph will not be displayed correctly.
		Workaround:
		You can use Firefox 8.

Open Bugs Related to Network Topology, Layer 2 Services and User Tracking in LMS 4.2

Table 8 lists the open bugs related to Network Topology, Layer 2 Services and User Tracking in LMS 4.2.

Table 8   *Open Bugs Related to Network Topology, Layer 2 Services and User Tracking in LMS 4.2*

Identifier	Summary	Explanation
CSCtx11751	Issue in Dual IPV6 Configuration device.	IPv6 details are not shown in IPv6 addresses list in Topology. This issue is specific to 4500 device. It does not return any value for the mib cIpAddressEntry. Workaround: None.
CSCtl96069	Cloud color is not updated when Topology receives an add event.	Cloud color is not updated when add event is received by topology. When you add a device to LMS, either using Device Management (DCR) or using groups, the corresponding user-defined groups do not appear in the Topology. Moreover, the color of the group is incorrect. Workaround: Restart the Topology.
CSCtn42049	Deleted user-defined groups do not get deleted from Topology Services.	The Topology cloud does not change to red if any device in this group goes down. Also, if the device is unmanaged in UDM, the Topology cloud does not change to green. This issue occurs under the following condition: 1. Create a user-defined group. 2. Delete the user-defined group. 3. Create a new user-defined group. 4. Launch the Topology Services. You can view the deleted user-defined group in the Topology cloud. Workaround: None.

Open Bugs Related to UII in LMS 4.2

Table 9 lists the open bugs related to UII in LMS 4.2.

Table 9   Open Bugs Related to UII in LMS 4.2

Identifier	Summary	Explanation
CSCtu19996	Stop Custom Discovery button is missing in GS.	In the **Getting Started > Device addition** page, in Step 3: Add Devices, for the **Summary** tab, after the discovery is started, the **Start discovery** button is not changing to **Stop discovery**. Workaround: None.
CSCtx11799	Exception on **Admin > Getting Started > Device Management > Device Addition.**	Exception occurs inconsistently. Workaround: None.
CSCtx21602	The Delete option is missing for the job in Software and Device update in GS.	In the **Admin > Getting Started > Software and Device Update** page, Delete option is missing for the Software and Device Update jobs. Workaround: Go to **Admin > System > Software Center > Scheduled Job Details** page and delete the jobs.
CSCtx75981	Default Backup Directory must be empty in GS for fresh install.	In the **Admin > Getting Started > System Settings** page, the following issues are identified: • Default backup directory is not empty in GS for fresh install. • Wrong field is displayed for daily backup schedule. • Configuring system settings with improper backup directory, displays an error message. Message confirming that the rest of the settings are saved, does not appear. • Mail settings do not validate SMTP server in the **Systems Settings** page. Workaround: None.

Resolved Bugs in Cisco Prime LAN Management Solution 4.2

Table 10 contains the bugs resolved in LMS 4.2.

Refer Using Bug Toolkit for querying and searching bug details.

Table 10   Bugs Resolved in Cisco Prime LMS 4.2

Identifier	Headline
Administration	
CSCtu15535	Unable to add the SMTP servicemen when SMTP is working.
CSCtu00804	Errors during.ova deployment.
CSCtr50453	RAM Value needs to be hard reserved for all set of SKU in OVA deployment.
CSCtq64619	Entering shell with short password displays wrong error message.
CSCtw65668	Local hosts file entry causes unexpected side effects.
CSCtq53583	Default credential set doesn't validate the data by clicking the **Next** button.
CSCtt26201	No updates in daemons.log for more than 3 days.
CSCtw49793	ESS server created Out of Memory.
CSCtx14294	ActiveMQ thread going to parked state.
CSCto08276	HTTP 503 error in the LMS41 Solaris Endurance server.
CSCth20366	In 5K SKU, job browser, "Daemon manager not responding" status appears.
CSCts75806	System Requirements fails, showing '-' value in available space for 2 TB.
CSCts81263	Issues found in CSCtr18162 Apache Patch 2.2.17.
CSCts82530	Incorrect time zone in GMT Casablanca time zone on Windows 2008.
CSCts95764	Tomcat vulnerability CVE-2011-3190 in 5.5.x.
CSCtt25225	LMS 3.2.1 Http error 500.
CSCtu18693	CS - HTTP response splitting in autoliogin.jsp.
CSCtu93448	Serviceability: PSU not showing proper dependency package information.
CSCtv14636	SNMP RO showing as filed in Troubleshooting work flow.
CSCty05610	DNS resolution for syslog messages to be disabled by default in LMS OVFs.
Backup Restore	
CSCtq04407	Backup got failed in the Solaris 5k server.
CSCtu15729	backup-restore and hostnamechange.pl should change LOCALHOST property.
Configuration	
CSCts11531	Syslog messages may not seen reports or the event monitor.
CSCts13593	Inventory collection fails due to Version API code.
CSCtr78398	SWIM Purge job shows failed if there are no jobs available to purge.
CSCts07181	WLC Inventory Collection will not collect Image should be documented.
CSCtx04460	Netconfig CONFIG_CDL1031 error.
CSCtr08200	Upgrade Analysis is not showing hyperlink for 3560-CG.
CSCts66783	RME 4.3.1 Lanbase in Software Repository Download unavailable.
CSCsl34066	Contract Connection doesn't work with high number of "device types"
CSCtr11975	Scheduled Inventory Collection Purge Jobs are not working.
CSCtr55870	Interactive commands may fail on an ASA firewall.
CSCts07203	Energywise job is failing for 4K devices.

Table 10 **Bugs Resolved in Cisco Prime LMS 4.2 (continued)**

Identifier	Headline
CSCtr92919	Energywise collection information is not available in online help.
CSCsz66704	RME should support other protocols for vlan.dat transfer.
CSCtr87633	Config Templates do not support saving the running config to startup.
CSCtr59770	LMS 3.2 RME Compliance Report PDF format issues.
CSCts41862	LMS3.2/RME4.3 Change Audit Report error references nonexistent director.
CSCtr25369	RME Change Audit Usernames, Host Names and Conn Modes may be incorrect.
CSCts30411	Bug Toolkit is sending wrong URL to CCO.
CSCtw91086	ConfigUtilityService runs out of memory due to WebUI files in tar images.
CSCtw63761	Scheduled reports are not available from the GUI under report archives.
CSCtx38716	TimeZone.lst should include all the timezones in the file.
CSCtr92933	Custom location shouldn't allow CSCOpx folder.
CSCts24745	VPN device password is printed in log as plain text.
CSCts42721	LMS 4.0.1 Baseline Compliance Report csv export is wrong.
CSCtx02219	EOS/ EOL hardware report doesn't identify all supervisors.
CSCsr12119	Not all devices have a list of config exclude commands.
CSCtw63794	Scheduled Severity Level Summary Report takes hours to complete.
CSCtr63016	Read-only database views contain sensitive information.
CSCtt26380	LMS 4.1 portal device status counters for Inventory/Archive inconsistent.
CSCtw57101	Chassis model name is not displayed in the DDR report.
CSCsz48654	RME does not track serial number for ports.
CSCtw60064	LMS 4.1: not able to copy current running image to LMS software reposit.
CSCtv98691	Configuration of LWA feature via LMS fails.
CSCtw99987	"no dot1x system-auth-control" should not be part of disable identity.
CSCti16034	In LMS 4.0, image distribution through SCP failed in Mixedstack.
CSCtx95454	SWIM image upgrade fails for 2960 device.
Discovery, Device Management and Grouping Services	
CSCts72706	PSU Device Update not working in LMS 4.1.
CSCtq67391	Default Credential set is not applied for updated devices from discovery.
Installation	
CSCtt96317	LMS 4.1 install removes inherited rights when settings ACLs on CSCOpx.
CSCtq31470	Issue in vendor & version type in Linux installation.
Monitoring and Troubleshooting	
CSCto47054	Issue in Energywise monitoring when the secrets are changed for a domain.
CSCtq56640	Issue in if description in live and histograph it portlets.
CSCtr00200	Issues in FM and EM page.
CSCtr21972	Inconsistency in LMS 4.0 snmpv3 password length.

Table 10 Bugs Resolved in Cisco Prime LMS 4.2 (continued)

Identifier	Headline
CSCts23868	Name Service Monitor process is not working correctly in Win 5K.
Network Topology, Layer 2 Services and User Tracking	
CSCtf51757	Add the ability to configure a voice (aux) VLAN on a port.
CSCtr51668	Tracking Acquisition Settings Define Rogue MAC table overflow.
CSCtr67151	CM 5.2.2 - Highlight color for links in Topology is not auto refreshed.
CSCtt26311	Campus discrepancy report link duplex auto detect vs full duplex.
CSCtu16487	Campus Docs should reflect that UT custom layouts are defined per user.
CSCtu16598	UT: quick end host report hits error with special char in phone number.

Product Documentation

Table 11 describes the product documentation that is available.

Table 11 Product Documentation

Document Title	Available Formats
Release Notes for Cisco Prime LAN Management Solution 4.2 (this document)	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/ release/notes/lms42rel.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Context-sensitive online help	Select an option from the navigation tree, then click Help.
Administration of Cisco Prime LAN Management Solution 4.2 (this document)	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt /ciscoworks_lan_management_solution/4.2/user/ guide/admin/admin.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Getting Started with Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/user/ guide/getting_started/lms42_getstart_guide.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Configuration Management with Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/user/ guide/configuration/config.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.

Table 11 **Product Documentation (continued)**

Document Title	Available Formats
Monitoring and Troubleshooting with Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/user/ guide/lms_monitor/lms_mnt.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Inventory Management with Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/user/ guide/inventory/inventory.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Technology Work Centers in Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/ net_mgmt/ciscoworks_lan_management_solution/ 4.2/user/guide/workcenters/wcug.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Reports Management with Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/user/ guide/reports/lms42_reports_guide.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Installing and Migrating to Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/install/ guide/install.html • PDF version part of Cisco Prime LMS 4.2 Product DVD.
Navigation Guide for Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/ Navigation/Guide/lms42_nav_guide.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Open Database Schema Support in Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/ database_schema/dbviews_42.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.

Table 11   **Product Documentation (continued)**

Document Title	Available Formats
Supported Devices Table for Cisco Prime LAN Management Solution 4.2	• On Cisco.com at http://www.cisco.com/en/US/docs/net_mgmt/ ciscoworks_lan_management_solution/4.2/ device_support/table/lms42sdt.html • PDF version part of *Cisco Prime* LMS 4.2 Product DVD.
Documentation Roadmap for Cisco Prime LAN Management Solution 4.2	Printed document part of Software kit

Note   We sometimes update the printed and electronic documentation after original publication. Therefore, you should also review the documentation on Cisco.com for any updates.

Obtaining Documentation, Obtaining Support, and Security Guidelines

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 a Really Simple Syndication (RSS) feed and set content to be delivered directly to your desktop using a reader application. The RSS feeds are a free service and Cisco currently supports RSS version 2.0.

Notices

The following notices pertain to this software license.

OpenSSL/Open SSL Project

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/).

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

License Issues

The OpenSSL toolkit stays under a dual license, i.e. both the conditions of the OpenSSL License and the original SSLeay license apply to the toolkit. See below for the actual license texts. Actually both licenses are BSD-style Open Source licenses. In case of any license issues related to OpenSSL please contact openssl-core@openssl.org.

OpenSSL License:

Copyright © 1998-2007 The OpenSSL Project. All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions, and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgment: "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)."

4. The names "OpenSSL Toolkit" and "OpenSSL Project" must not be used to endorse or promote products derived from this software without prior written permission. For written permission, please contact openssl-core@openssl.org.

5. Products derived from this software may not be called "OpenSSL" nor may "OpenSSL" appear in their names without prior written permission of the OpenSSL Project.

6. Redistributions of any form whatsoever must retain the following acknowledgment:

   "This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (http://www.openssl.org/)."

THIS SOFTWARE IS PROVIDED BY THE OpenSSL PROJECT "AS IS"' AND ANY EXPRESSED OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE OpenSSL PROJECT OR ITS CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com). This product includes software written by Tim Hudson (tjh@cryptsoft.com).

Original SSLeay License:

Copyright © 1995-1998 Eric Young (eay@cryptsoft.com). All rights reserved.

This package is an SSL implementation written by Eric Young (eay@cryptsoft.com).

The implementation was written so as to conform with Netscapes SSL.

This library is free for commercial and non-commercial use as long as the following conditions are adhered to. The following conditions apply to all code found in this distribution, be it the RC4, RSA, lhash, DES, etc., code; not just the SSL code. The SSL documentation included with this distribution is covered by the same copyright terms except that the holder is Tim Hudson (tjh@cryptsoft.com).

Copyright remains Eric Young's, and as such any Copyright notices in the code are not to be removed. If this package is used in a product, Eric Young should be given attribution as the author of the parts of the library used. This can be in the form of a textual message at program startup or in documentation (online or textual) provided with the package.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the copyright notice, this list of conditions and the following disclaimer.

2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.

3. All advertising materials mentioning features or use of this software must display the following acknowledgement:

   "This product includes cryptographic software written by Eric Young (eay@cryptsoft.com)".

   The word 'cryptographic' can be left out if the routines from the library being used are not cryptography-related.

4. If you include any Windows specific code (or a derivative thereof) from the apps directory (application code) you must include an acknowledgement: "This product includes software written by Tim Hudson (tjh@cryptsoft.com)".

THIS SOFTWARE IS PROVIDED BY ERIC YOUNG "AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE AUTHOR OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT, INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT NOT LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE, DATA, OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY THEORY OF LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

The license and distribution terms for any publicly available version or derivative of this code cannot be changed. i.e. this code cannot simply be copied and put under another distribution license [including the GNU Public License].