

About Configuration Dashboard

This chapter provides information on the Configuration dashboard in LMS.

Configuration dashboard in LMS provides information such as, the date of last configuration change, status of the configuration jobs, summary of configuration protocol, Hardware and Software summary.

The Configuration dashboard shows the following list of portlets:

- [Best Practices Deviation](#)
- [Discrepancies](#)
- [Job Information Status](#)
- [Device Change Audit](#)
- [Config Protocol Summary](#)
- [Hardware Summary](#)
- [Job Approval](#)
- [Software Summary](#)
- [Syslog Alerts](#)

Best Practices Deviation

You can view the deviation type and the number of deviations using the Best Practices Deviation portlet.

The Best Practices Deviation portlet helps you to view deviations from normal or recommended practices in a network and provides information on each of the Best Practice deviations reported in LMS. These deviations do not have a serious impact on the functioning of the network.

This portlet gives a description of the Best Practice Deviation. It includes the impact, if any, that the deviation has on the network, and ways to resolve the deviation.

[Table 2-1](#) lists Best Practices Deviation portlet details.

Table 2-1 *Best Practices Deviation*

Field	Description
Type	Brief description of the deviation from the Best Practice.
Count	Number of deviations. Click the number corresponding to the deviation to navigate to the Unacknowledged Best Practices Deviation Reports. This page displays details such as the type, summary, first found and remarks.

You can click the portlet name in the title bar to navigate directly to the Report Generator page. Select **Best Practices Deviations** from the Select a Report drop-down list to navigate to the Best Practices Deviations page.

Discrepancies

In the Discrepancies portlet, you can view the type and count of discrepancies, such as network inconsistencies and anomalies or misconfigurations in the discovered network.

The Discrepancy portlet gives a description of the discrepancy, the impact it has on the network, and ways to resolve it.

LMS provides reports on discrepancies in the discovered network, enabling identification of configuration errors such as link-speed mismatches on either end of a connection. Discrepancies are computed at the end of each data collection schedule.

[Table 2-2](#) lists the Discrepancies portlet details.

Table 2-2 **Discrepancy**

Field	Description
Type	Type of the discrepancy such as network inconsistencies, anomalies or misconfigurations in the network. The available types are: <ul style="list-style-type: none"> • Port is in Error Disabled State—Count of switch ports in the discovered network have a status of errDisable. • VTP Disconnected Domain—Count of devices that are part of the same VTP domain have different VTP configuration revision numbers. • Link Duplex Mismatch—Count of discrepancies when there is a duplex mismatch between links. • Devices with duplicate SysName—Count of discrepancies when LMS discovers two devices with the same SysName • Trunk VLANs Mismatch—Count of discrepancies when the list of active or allowed VLANs between the two ends of a trunk do not match.
Count	Number of deviations. Click the number corresponding to the deviation to navigate to the Unacknowledged Discrepancy Report in the application.

You can click the portlet name in the title bar to navigate directly to the Report Generator page. Select **Discrepancies** from the Select a Report drop-down list to navigate to the Network Discrepancy page.

Job Information Status

In the Job Information Status portlet, you can view the status of up to 20 jobs of the installed applications. You can click the portlet name in the title bar of the portlet to navigate to the Job Browser page.

[Table 2-3](#) lists Job Information Status portlet details.

Table 2-3 **Job Information Status Details**

Field	Description
Job ID	Unique ID assigned to the job by the system, when the job is created. The Job IDs are displayed in <i>ID.No.of.Instances</i> format in periodic jobs. For example, the Job ID 1002.11 indicates that this is the eleventh instance of the job whose ID is 1002. When you click the Job ID, the job details, if available, are displayed.
Job Type	Type of the job. For example, Inventory Collection, SyslogDefaultPurge, and Net Config Job.

Table 2-3 Job Information Status Details

Field	Description
Status	Status of the scheduled jobs that are completed. The Job states include Succeeded, Failed, Crashed, Cancelled, and Rejected. The status of the succeeded jobs are displayed in green and the Failed, Crashed, Cancelled, and Rejected jobs are displayed in red.
Job Description	Description of the job provided by the job creator. It can contain alphanumeric characters.
Owner	Name of the user who created the job.
Scheduled At	Date and time when the job is scheduled to run.

Device Change Audit

In the Device Change Audit portlet, you can view the changes in the inventory and configuration information for all the devices after every Inventory or Configuration Collection.

However, the VLAN config change details will not be displayed.

The changes in the exception period are displayed in red.

[Table 2-4](#) lists the Device Change Audit portlet details.

Table 2-4 Device Change Audit Details

Field	Description
Device Name	Device name as entered in the Device and Credential Repository. Click or hover the mouse over the device name to view device details.
User Name	Name of the user who performed the change. This is the name entered when the user logged in. It can be the name under which the LMS application is running, or the name using which the change was performed on the device. The User Name field may not always reflect the user name. The User Name is reflected only when: <ul style="list-style-type: none"> • Config change was performed using LMS • Config change was performed outside LMS, and the network has username based on AAA security model wherein authentication is performed by a AAA server (such as TACACS/RADIUS or local server)
Creation Time	Date and the time at which the application communicated the network change or when Change Audit saw the change record.
Message	Brief summary of the changes in the network change. You can click the Message link to navigate to the 24-hour Inventory Change Report details page.

You can click the portlet name in the title bar to navigate directly to the Report Generator page.
To configure the Device Change Audit portlet:

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- Step 1** Move the mouse over the title bar of the Device Change Audit portlet to view the icons.
- Step 2** Click the Configuration icon. You can:
- Select the minute and hour from the Refresh Every drop-down list to change the Refresh time. The items in the portlet get refreshed at the changed Refresh time.
 - Select the Only Exception Period Report checkbox to view any of the special or extraordinary period report.
- Step 3** Click **Save** to view the configured portlet with the changed settings.
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Config Protocol Summary

In Config Protocol Summary portlet, you can view the configuration protocol usage details for successful configuration fetches.

[Table 2-5](#) lists the Config Protocol Summary details.

Table 2-5 Config Protocol Summary Details

Field	Description
Protocol	Protocols used by LMS for fetching the configuration.
Config Type	<p>The Configuration types for the various protocols. The available types are:</p> <ul style="list-style-type: none"> • Running — Count of the successful running configuration fetched for each protocol • Startup — Count of the successful startup configuration fetched for each protocol • VLAN — Count of the successful VLAN configuration fetched for each protocol. This configuration fetch is supported by only Telnet and SSH protocols. <p>Click the Count link to view a detailed report for a protocol and corresponding Config Type. The detailed report shows the list of devices which are accessed using a particular protocol and for which successful Config Fetch has happened.</p> <p>Example:</p> <p>If you click on a Count link, 20, for Telnet protocol and Running config type, a detailed report is generated with the following fields:</p> <ul style="list-style-type: none"> – Device Name — Display name of each device. – Accessed At — Date and time at which each device was accessed for Config Fetch purpose. – Config Type — Configuration type for each device. – File Type — Configuration file type for each device. – This detailed report shows only the devices for which Telnet has successfully fetched configurations. <p>You can use the export icon to export the list of devices from this detailed report to the device selector.</p>

Table 2-5 Config Protocol Summary Details (continued)

Field	Description
Config NeverCollected	The count of devices for which configuration fetch has never happened. Click the Count link to launch the Configuration Never Collected Device page.
Edit Protocol Order	Click this button, if you want to change the transport protocol order.

Hardware Summary

In the Hardware Summary portlet, you can view a pie graph that displays the distribution of all managed Cisco devices in the inventory.

The portlet has the following view options:

- View as Grid—Shows the information in a table format.
- View as Chart—Shows the information in a pie-chart format.

[Table 2-6](#) lists Hardware Summary portlet details.

Table 2-6 Hardware Summary

Fields	Description
Network Management	Percentage of network management used.
DSL and Long Reach Ethernet	Percentage of Ethernet used.
Security and VPN	Percentage of security and VPN used.
Switches and Hubs	Percentage of switches and hubs used.
Routers	Percentage of routers used.
Count	Count of the devices. For instance, you can click the number corresponding to Switches and Hubs to navigate to the Hardware Report details page.

The graph plots the percentage count of devices, based on Cisco MetaData Framework (MDF) categorization of devices.

Each section represents the device category, the device count and percentage of total devices. The graph displays the device category and the percentage of distribution in the network.

You can click the portlet name in the title bar to navigate directly to the Report Generator page.

Job Approval

In Job Approval portlet, you can view the list of all jobs.

Table 2-7 lists Job Approval portlet details.

Table 2-7 Job Approval Details

Field	Description
Job ID	<p>ID of the job that has been given for approval.</p> <p>The unique number assigned to the job. For periodic jobs such as Daily, Weekly, and so on, the job IDs are in the number.x format. The x represents the number of instances of the job.</p> <p>For example, 1001.3, indicates that this is the third instance of the job ID 1001.</p> <p>Click the Job ID hyperlink to view the job details.</p>
Job Description	Description of the job.
Job Schedule	Date and time for which the job has been scheduled.

The Job Approval portlet allows you to approve or reject a job for which you are an approver. A job will run only if it is approved. If the job is not approved by its scheduled runtime, or if an approver rejects it, the job is moved to its rejected state and will not run.

For periodic jobs, only one instance of the job needs to be approved. If one instance is approved, all other instances are also considered as approved.

You are notified by e-mail, when a job that has to be approved by you is created.

This portlet enforces the approval process by sending job requests through e-mail to people on the approver list.

You can click the portlet name in the title bar to navigate directly to the Jobs Pending Approval details page in LMS.

In the Job Approval portlet, you can view the list of Job details.

You can configure the Job Approval portlet to set the number of records to be displayed in the portlet and refresh time both manually and automatically.

To configure the Job Approval portlet:

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- Step 1** Move the mouse over the title bar of the Job Approval portlet to view the icons.
- Step 2** Click the Configuration icon.
- Step 3** You can:
- Select the minute and hour from the Refresh Every drop-down list to change the refresh time. The items in the portlet get refreshed at the changed Refresh time.
 - Select the number of records to be displayed in the portlet from the Show Last Records drop-down list.
- Step 4** Click **Save** to view the portlet with the configured settings.
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Software Summary

In the Software Summary portlet, you can view the software version information and count for selected devices such as Cisco Interfaces and Modules, Switches and Hubs, Universal Gateways and Access Servers, and Routers.

Table 2-8 lists the Software Summary portlet details.

Table 2-8 **Software Summary**

Fields	Description
Device Categories	Categories of devices used in the application.
Software Version	Software version of the device categories.
Count	Number of devices. For instance, you can click on the number corresponding to Switches and Hubs to navigate to the Software Report details page.

You can click the portlet name in the title bar to navigate directly to the Report Generator page.

To configure the Software Summary portlet:

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- Step 1** Move the mouse over the title bar of the Software Summary portlet to view the icons.
- Step 2** Click the Configuration icon.
- You can:
- Select the minute and hour from the Refresh Every drop-down list to change the Refresh time. The items in the portlet get refreshed at the changed Refresh time.
 - Select the number of rows to be displayed in the portlet from the No.of Rows to be Displayed drop-down list.
- Step 3** Click **Save** to view the portlet with the configured settings.
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Syslog Alerts

The Syslog Alerts portlet displays the 24-hour Syslog event distribution as a pie chart. It also displays the total number of Syslog counts.

The portlet displays the top 10 syslog summary reports.

The portlet has the following view options:

- View as Grid—Shows the information in a table format.
- View as Chart—Shows the information in a pie-chart format.

To configure the Syslog Summary portlet:

Step 1 Move the mouse over the title bar of the Syslog Summary portlet

Step 2 Click the configuration icon.

You can:

- Select the minute and hour from the Refresh Every drop-down list to change the Refresh time. The items in the portlet get refreshed at the changed refresh time.
- Select the number of rows to be displayed in the portlet from the No.of Rows to be Displayed drop-down list.
- Select the Show graph checkbox.

Step 3 Click **Save** to view the portlet with the configured settings.
