



Managing the Web Interface

The Cisco Prime Performance Manager web interface is the primary method for displaying network reports and managing network devices and information. The following topics tell you how to launch the Prime Performance Manager web interface and customize web interface display and polling:

- [Launching the Web Interface, page 3-1](#)
- [Customizing the GUI and Information Display, page 3-8](#)
- [Customizing GUI Page Sizes, page 3-16](#)
- [Changing System Configuration Settings, page 3-17](#)
- [Adding and Removing Properties from Property Views, page 3-20](#)
- [Sorting Tables, page 3-20](#)
- [Displaying Prime Performance Manager Information, page 3-21](#)
- [Changing the Prime Performance Manager Corporate Branding, page 3-21](#)

Launching the Web Interface

The Prime Performance Manager web interface requires one of the following web browsers with JavaScript enabled:

- Microsoft Internet Explorer 9.0, 10.0, and 11.0 (Windows).



Note Microsoft Internet Explorer 8.0 is not supported. Later IE versions have not been formally tested, but should work in most cases.

- Mozilla Firefox 24 or later up to Firefox 55 (Linux and Windows).
- Mozilla Firefox 24 Extended Support Release (ESR) or later up to Firefox 52 (Linux and Windows).



Note Later Firefox versions have not been formally tested, but should work in most cases.

- Safari and Chrome—Not formally tested but widely used.

Other requirements:

- The minimum screen resolution should be set to 1280 x 1024.

- The hostname configured on Prime Performance Manager gateway must be resolvable to an IP address on the client machine using DNS or local hosts file.

In addition, your browser must have cookies enabled. If cookies are not enabled, enable them following procedures appropriate for your browser.

**Note**

If you open Cisco Prime Performance Manager in an unsupported browser, a warning is displayed. If the browser does not have JavaScript enabled, the Prime Performance Manager web interface cannot function.

To access the Cisco Prime Performance Manager web interface:

Step 1 Enter the following in the browser URL field:

http://ppm-server:4440

Where *ppm-server* is the name of the server where Prime Performance Manager is installed and Port 4440 is the default port.

**Note**

If SSL is enabled, use https instead of http. For information, see [Enabling SSL on Gateways and Units, page 6-2](#) and [ppm ssl, page B-99](#).

**Note**

If you connect the gateway with its literal IPv6 address, enclose the address with brackets, for example, `http://[2011::2:21b:78ff:febd:9e16]:4440`.

Step 2 If user access is enabled (see [Setting Up User Access and Security, page 6-1](#)), the Prime Performance Manager login screen appears. The screen displays:

- Username—Enter your username.
- Password—Enter the password for the username entered.
- Log In—Starts the login.
- Cookies—Indicates whether cookies are enabled on your browser. If cookies are disabled, enable cookies following procedures for your browser before you log in.
- Hostname—The gateway hostname where you are logging in.
- Change Password—Allows you to change your password. To change your password, enter your current username and password, then click **Change Password**. Enter the new password in the Change Password dialog box.
- Authorized users message—Appears at the bottom of the login window. This message can be modified by administrators. See [Creating Messages of the Day, page 6-25](#).

Step 3 After you enter your username and password, click **Log In**.

The Cisco Prime Performance Manager GUI application launches. By default, the Performance Reports View Editor is displayed ([Figure 3-1](#)). The View Editor allows you to create custom views with report data pulled from different reports and devices. It allows you to view the network performance areas that are of special interest. For more information, see [Creating and Managing Custom Report Views, page 7-39](#).

The GUI window is comprised of the following elements:

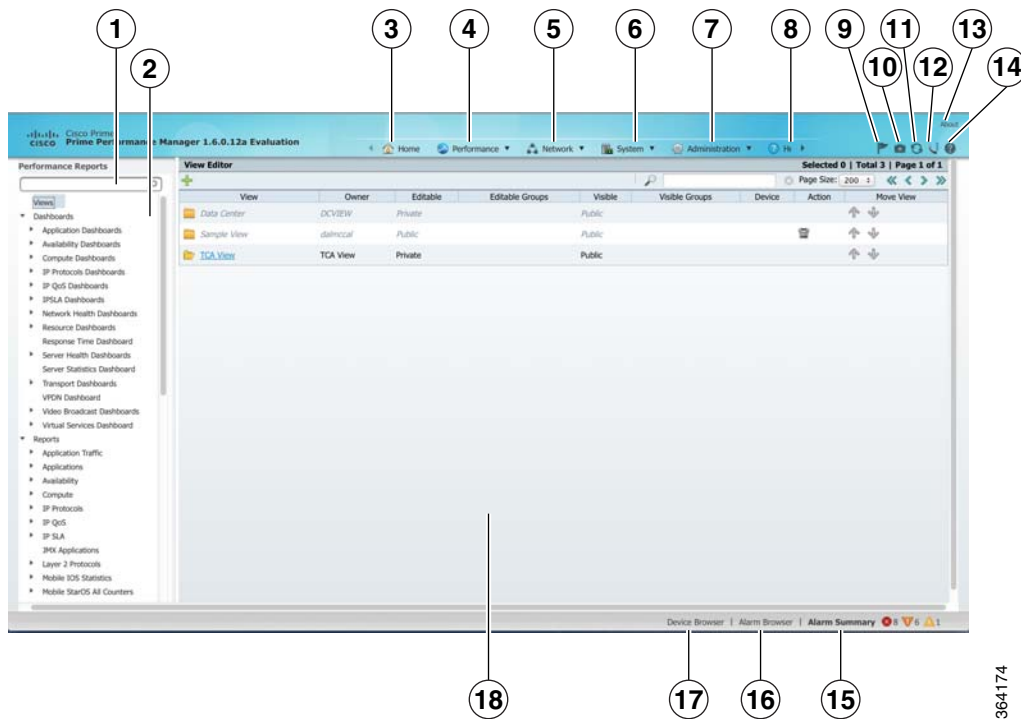
- Main menus—Prime Performance Manager provides six main menus that appear in all windows: Home, Performance, Network, System, Administration, and Help. Submenus displayed from each main menu are described in [Table 3-1](#).



Note The System and Administration menus are only displayed for Administrator users.

- Toolbar options—Standard toolbar options include:
 - Getting Started—Displayed for Administrator users, the popup window provides links to administration, network, and reports areas. The Quick Start appears at startup, but can be turned off by checking **Do not show this on startup**. Getting Started can be displayed at any time by clicking the flag tool.
 - User Preferences—Allows users to customize Prime Performance Manager display. For information, see [Customizing the GUI and Information Display, page 3-8](#).
 - Refresh—Refreshes the currently-displayed window.
 - Send Announcement—Allows you to send messages to online users. For information, see [Sending Announcements to Online Users, page 6-25](#).
 - Page Help—Displays the online help topic for the currently-displayed window.
- Navigation area—The navigation area is displayed in some, but not all, Prime Performance Manager windows. It appears for all performance functions (Views, Dashboards, and Reports), and includes a search field that you can use to quickly find specific reports, dashboards, or views.
- Content area—The lower right portion of the GUI displays content selected from the main menus and navigation area items.
- Popup Device Browser, Alarm Browser, and Alarm Summary—The bottom of the window contains the global toolbar, which contains:
 - Device Browser—Lists all network devices and allows you to perform actions on them. The window contains a subset of properties that are displayed when you choose **Network > Devices**. For information, see [Displaying Device Properties at the Network Level, page 9-3](#).
 - Alarm Browser—Lists all network alarms by the occurrence date and time. The browser contains the same information that is displayed when you choose **Network > Alarms/Events**. For information, see [Displaying Alarm and Event Properties, page 10-7](#).
 - Alarm Summary—Shows the number of alarms by device. This window is intended as a quick reference. The number of alarms displayed corresponds to the device history limit user preference. For information, see [Customizing the GUI and Information Display, page 3-8](#).

The Device and Alarm Browser and the Alarm Summary appear whenever you move your cursor over them. You can turn off this feature. For information, see [Customizing the GUI and Information Display, page 3-8](#).

Figure 3-1 Prime Performance Manager Window

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1	Performance Reports search field	10	User Preferences
2	Performance Reports navigation area	11	Refresh tool
3	Home	12	Send announcements
4	Performance menu	13	Information about Prime Performance Manager
5	Network menu	14	Context help tool
6	System menu	15	Alarm Summary
7	Administration menu	16	Alarm Browser
8	Help menu	17	Device Browser
9	Getting Started	18	Content area

Table 3-1 lists the Prime Performance Manager navigation menus and submenus, and provides topics where more information about the menu function is provided.

Table 3-1 Navigation Menus

Menu	Submenu	For information, see...
Home	N/A	Modifying Custom Report Views, page 7-44
Performance	Views	Creating and Managing Custom Report Views, page 7-39
	Dashboards	Managing Dashboards, page 7-36
	Reports	Displaying Reports, page 7-1

Table 3-1 **Navigation Menus (continued)**

Menu	Submenu	For information, see...
Network	<i>Network Overview</i>	
	Devices	Chapter 9, “Managing Devices”
	Tenants	Importing Tenants into Prime Performance Manager, page 8-5
	Alarms/Events	Chapter 10, “Managing Network Alarms and Events”
	<i>Network Administration</i>	
	SNMP Editor	Adding SNMP Device Credentials, page 5-3
	Polling Group Editor	Creating and Editing Device Polling Groups, page 9-35
	Credentials Editor	Adding Device Credentials for Other Protocols, page 5-6
	Threshold Editor	Managing Thresholds, page 11-12
	Report Mail Editor	Emailing Reports, page 7-20
	Discovery	Chapter 5, “Discovering Devices With Prime Performance Manager”
	Web Report Editor	Creating Web Reports, page 7-57
	Probe Editor	Creating Probes, page 9-37
System	<i>System Information</i>	
	Gateway/Units	Chapter 13, “Managing Gateways and Units”
	Status	System Properties, Statuses, Logs, and Messages Overview, page 12-1
	Logs	Displaying System Logs, page 12-4
	Messages	Displaying System Information Messages, page 12-13
	<i>Security Messages</i>	
	User Actions	Displaying User Actions, page 12-14
Administration	<i>System Administration</i>	
	Prime Central Integration	Chapter 4, “Importing Devices From Other Cisco Prime Applications”
	Prime Network Integration	Importing Devices From Prime Network, page 4-6
	Prime Network Services Controller Integration	Prime Network Services Controller Integration Overview, page 4-9
	OpenStack Tenant Integration	Importing Tenants into Prime Performance Manager, page 8-5
	Users/Tenants/Security	Chapter 6, “Managing Users and Security”
	Unit Editor	Managing Device-to-Unit Assignments, page 13-5
	Alarms/Events Editor	Configuring Upstream Alarm Hosts and Tuning Event and Alarm Parameters, page 10-14
	Group Editor	Managing Report Groups, page 7-55
	System Settings	Displaying System Properties and Settings, page 12-8

Table 3-1 **Navigation Menus (continued)**

Menu	Submenu	For information, see...
	<i>Reports Administration</i>	
	Report Settings	Displaying Reports Settings, page 12-11
	Report Status	Customizing Individual Report Settings, page 7-27
	Report Custom Aging	Customizing Individual Report Aging Settings, page 7-30
	Report Policies	Creating Report Policies, page 7-33
	NB Push Editor	Pushing Prime Performance Manager Data to Other Applications, page 17-1

Information Available from the Help Menu

The Help menu provides in-depth information about Prime Performance Manager reports and commands, and other application details that can be useful for those seeking a deeper understanding of Prime Performance Manager. Help menu items include:

- Prime Performance Manager Help—Displays the Prime Performance Manager online help. The online help is based on the *Cisco Prime Performance Manager User Guide*, and covers all product operations and procedures.
- Browser Check—Checks your browser for compatibility with Prime Performance Manager. For additional information, see [Checking Your Web Browser, page 3-7](#).
- Readmes and CLI Commands—Includes product readmes and CLI command descriptions:
 - README—Describes Prime Performance Manager system requirements and installation procedures.
 - CHANGES—Lists the changes, bug fixes, and new features in the 1.7 release.
 - Devices Info—Displays a list of devices that have been used with Prime Performance Manager by customers and in labs.
 - Collectors Info—Provides a list of supported data collectors.
 - CLI Commands—A summary list of Prime Performance Manager commands.
 - CLI Commands Help—More detailed command information from the Prime Performance Manager online help.
 - Release Notes—Displays system release note information.
 - Quick Start—Displays quick start steps to help you get up and running quickly.
- Reports—Displays Prime Performance Manager system and report information:
 - Reports XML Definitions—Provides the XML, properties, and notes for Prime Performance Manager reports.
 - System Reports Readme—Displays the contents of README-Reports-system.html. This file contains report information including the MIB variables Prime Performance Manager polls, the formulas used in metric calculations, the format of CSV export files, and other report details.
 - User Reports Readme—Displays contents of README-Reports-user.html. This file contains user-created report information including the MIB variables polls, the formulas used in metric calculations, the format of CSV export files, and other report information.

- Reports List Readme—Displays an alphabetical list of all Prime Performance Manager reports.
- IETF RFCs—Provides links to industry-standard RFCs supported by Prime Performance Manager.
- SNMP MIBs—Provides the SNMP MIBs supported by Prime Performance Manager.
- System Capability Definitions—Displays the SystemCapability.xml file (located in /opt/CSCOppm-gw/etc/), which defines the Prime Performance Manager system capabilities used for enabling and disabling reports.
- User Capability Definitions—Displays the UserCapability.xml file (located in /opt/CSCOppm-gw/etc/), which defines any user-created report functions.
- Threshold API Parameters—Threshold API parameters for REST report users who want to create TCAs based on REST report data. Each report (including dashboard reports) includes the reportKey and kpiReport threshold parameters. The following metadata is added for each column: dataType plus the threshold parameters, columnName and kpiName. (The last two are empty for non-thresholdable columns.) You can also run a script on specific files and folders to generate a list of API parameters and thresholdable columns. For information, see the [Cisco Prime Performance Manager 1.7 Integration Developer Guide](#),
- REST API Documentation—Displays REST API methods that can be used to retrieve Prime Performance Manager reports.
- Installation Guide—Displays the *Prime Performance Manager Installation Guide* on Cisco.com.
- User Guide—Displays the *Prime Performance Manager User Guide* on Cisco.com.
- Integration Developer Guide—Displays the *Prime Performance Manager Integration Developer Guide* on Cisco.com.
- Supported Devices—Displays a list of devices that *Prime Performance Manager* officially supports on Cisco.com.
- Release Notes—Displays the *Prime Performance Manager Installation Guide* release notes on Cisco.com.

Checking Your Web Browser

After you display the Prime Performance Manager web interface, you can check your web browser and screen settings:

Step 1 From the Help menu, choose **Browser Check**.

Step 2 Review the browser information:

Browser Information

- Browser—The name and version of the browser you are using.
- Browser User Agent—A text string that identifies the user agent to the server. This generally includes the application name, version, host operating system, and language.
- Platform—The platform type, for example, Win32.
- Cookies Enabled—Indicates whether cookies are enabled on the browser (Yes or No). For Prime Performance Manager, cookies must be enabled
- JavaScript Enabled—Indicates whether JavaScript is enabled (Yes or No). For Prime Performance Manager, JavaScript must be enabled.

- **AJAX Component**—Asynchronous JavaScript and XML (AJAX) sends asynchronous HTTP update requests. The Prime Performance Manager web application is only accessible to web browsers that have an AJAX component enabled. Typical values include XMLHttpRequest.

Screen Information

- **Size**—Indicates the resolution of the display, for example, 1600 x 1200. To ensure that you can view all Prime Performance Manager GUI elements, your screen should be set to a minimum of 1280 x 1024 pixels.
- **Color Depth**—Indicates the depth of the color display, for example, 16.

System Information

Includes Dojo and XWT Version. This internal data is used by Cisco TAC for customer support.

Customizing the GUI and Information Display

Prime Performance Manager provides many options that allow you to change the information that is displayed and how it is displayed in the Prime Performance Manager GUI. These options help you tailor the GUI to your individual needs and preferences.

User preferences apply only to the individual user. However, user preferences can be saved to the Prime Performance Manager gateway and made available for use by any user. How user preferences are applied depend upon whether the gateway has user security enabled:

- **User security enabled**—User preferences apply only to the currently logged-in user. They apply any time the user logs in, regardless of the client machine. For information about user security, see [Setting Up User Access and Security, page 6-1](#).
- **User security not enabled**—Preferences apply to only the client machine, as identified by its host name or IP address. Any user logging in from that client will see the user preferences that are applied from it. If you log in from a different client, the preferences will not be applied.

To customize the Prime Performance Manager GUI and information display:

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- Step 1** On the right side of the main menu bar, click **User Preferences**. (If user security is enabled, you can also choose User Preferences from the user ID at the top of the window.)
- Step 2** In the User Preferences window, user preferences are accessed through the Device Display, General Display, Graph Color, Report, Utilization Color, and Graph tabs described in the following sections:
- [Device Display Preferences, page 3-8](#)
 - [General Display Preferences, page 3-9](#)
 - [Graph Color Preferences, page 3-11](#)
 - [Report Preferences, page 3-11](#)
 - [Utilization Color Preferences, page 3-13](#)
 - [Graph Preferences, page 3-14](#)
 - [Load/Save Preferences, page 3-15](#)

Device Display Preferences

Indicates how devices are identified in the Prime Performance Manager GUI:

- Show DNS or User Defined Names (default)—Identifies devices by their DNS or user-defined names.
- Show IP Address in Name Field—Identifies devices by their IP addresses.
- Show System Name—Identifies devices by their system name.
- Show Sync Name—Identifies devices by their synchronization name.
- Show Business Tag—For devices imported from Prime Network, identifies devices by their business tag.
- Show Business Tag - DNS Name—For devices imported from Prime Network, identifies devices by their DNS Name business tag.
- Show Business Tag - System Name—For devices imported from Prime Network, identifies devices by their System Name business tag.
- Show Business Tag - Sync Name—For devices imported from Prime Network, identifies devices by their business tag.
- Show Device Domain Names—If checked, displays the device domain names. This option is not enabled by default.
- Display Device Level Data in Device Time Zone—If checked, displays device time stamps in the device time zone. These include report title time stamps, calendar popup selections, summary table maximum date strings, graph date strings, tooltip hover information, the Timestamp column in report table format, and the Timestamp values in exported CSV files. The device time zone is determined from one of the following:
 - The time zone provisioned by the user (see [Editing a Device Name, Web Port, Time Zone, and Location, page 9-16](#)),
 - The device time zone provided when the device is imported from Prime Network, or by querying the device running configuration. If this option is not enabled, device times are displayed in gateway server time zone.
- Show Deleted Device Data—If checked, Prime Performance Manager displays deleted devices in device windows without hyperlinks, so the device data can be viewed but not accessed. This option is not enabled by default.
- Device History Limit—Sets the number of devices displayed in the Network Devices window (Network > Devices > Device Summary). The default is 20. The range is 5 to 100.
- Details Displayed on Device Links—Sets the information that appears when you move your mouse over device links.
 - **None** turns off this feature.
 - **Mouse Hover Details Popup** displays device information as a popup when you move your cursor over the device link.
 - **Mouse Click 360 Device View** displays the 360 Network Device View window. This window includes detailed device information including alarms, events, availability, collector status, and polling information. For information on the 360 Network Device View window, see [Displaying the 360 Device Details View, page 9-23](#).

General Display Preferences

- Optimize GUI for Slow Connections—If you are using a low-speed connection, for example, a dial-up modem or long-distance VPN connection, this option enhances performance by turning off the row index count displayed in the upper right corner of a report title area. If enabled, this option displays the row number as you mouse over a table, and also displays the number of table pages and table entries.

- **Show Last Login Date/Time After Login**—If checked (default), displays the user's last login date and the time after login in the GUI window.
- **Enable Global Toolbar**—If checked (default) displays the global toolbar.
- **Show Icons With Labels**—If checked, shows icons with labels.
- **Color Highlight TCAs**—If checked (default), color highlights TCAs in reports.
- **Compact Graph Mode as Default**—If checked, sets Compact (Graph) Mode as the default for all reports. When Output is set to Graph, toggles the display of the Zoom, Aggregate Lines, Graph Styles, and Export Graphs tools displayed inside graphs. Additionally, the graph border is hidden and graph title reduced in size. This option reduces the overall size of the graph and is useful when screen real estate is needed. This option is not enabled by default. Users can enable it for individual reports using the Toggle Compact Mode option on the report toolbar. If this preference is enabled, all reports are displayed in compact mode; users can disable it for individual reports.
- **Default Number of Views Per View Level**—Sets the default number of views per view level. 10 is the default.
- **Status Page Refresh Interval (secs)**—Specifies how frequently Prime Performance Manager status pages are refreshed. Status pages include tabs displayed from the Network menu > Devices, Tenants, and Alarms/Events items, as the System menu > Gateways/Units. It does not affect the reports, views, and dashboards display. The range is 180 to 900 seconds. The default is 180 seconds. The valid range and default settings can be changed in the `Server.properties` file to change the settings for all users.
- **Maximum Number of Views Per View Level**—Sets the maximum number of views per view level. For information about the default and maximum view entries, see [Managing Large Numbers of Views, page 7-51](#).
- **Date Format**—Allows you to customize the date format displayed in the Prime Performance Manager GUI. The following is accepted:
 - Month: m, M, mm, MM, mmm, MMM, mmmm, MMMM (for example 6, 06, Jun, June)
 - Day: d or dd (for example, 5 or 05)
 - Year: yy or yyyy (for example, 14 or 2014)
 - Upper and lower case are accepted. You can use a slash (/), dot (.), dash (-), or space as separators.
- **View Autoplay Interval (secs)**—Sets the autoplay view delay in seconds. (20 seconds is the default.) This parameter is used for the view autoplay feature, which scrolls through custom views automatically. For information, see [Modifying Custom Report Views, page 7-44](#).
- **View Autoplay Style**—Sets the autoplay style for views, either Inline or Full Screen.
- **User Work Shift**—Sets the work shift start and end times. Work shift is a report, dashboard, and view interval option that allows you to see report data for a work shift time period. If the work shift is 9:00 AM to 5:00 PM and the time you run the report is within the work shift, for example, 10:30 AM, the time since the beginning of the work shift is used (9:00 – 10:30AM today). If the current time is outside the work shift (say 8:00 AM or 6:07 PM), yesterday's work shift is used (9:00 – 5:00 yesterday).
- **Tenant Setting**—If Prime Performance Manager is integrated with OpenStack tenants sets the tenant scope:
- **Tenant Scope**—Sets the report tenant scope:
 - All—Displays all reports, not just tenant reports.
 - All Tenants—Displays all tenant reports.

- SELECTED—Allows you to select and display reports for individual tenants.
- Tenant Display—Sets the tenant identifier when displayed in reports:
 - Name (internal tenant name)
 - Display Name

For information about managing multi-tenancy in Prime Performance Manager, see [Chapter 16, “Managing Multi-Tenant Services.”](#)

Graph Color Preferences

Allows you to edit the colors used in report and group graphs, as well as:

- Graph data
- Plot area
- Background color
- Border color
- Legend color
- Title color
- Date text color

Fifty colors are available. To edit a color, you can edit the color hex # directly in the color sample, or click the Color Picker to the right of the color sample. In the Color Picker dialog box, edit any of the following attributes:

- H (hue), S (saturation), and V (value) percentages (0-100).
- R (red) G (green), or B (blue) values (0 to 255).
- Hex value: #000000-#ffffff.

Alternatively, you can pick colors visually from any of the three color selection areas; the HSV, RGB, hex values will populate automatically. The new and existing colors are displayed side-by-side. Click **OK** when you complete your edits.



Note The default colors are web-safe and selected to provide the highest differentiation on report charts. If you edit them, verify that they meet web requirements and do not reduce data differentiation on reports. To return to the default colors, click **Revert to Default Colors**.

- Use Bold Fonts in Graph Text—Displays all graph text in bold. This is enabled by default. Uncheck this box if you do not want chart text displayed in bold.

Report Preferences

- Show Values in Graphs and Summary Tables—Provides options to display, or not display, report values in graphs and summary tables. Values include:
 - Min—The report minimum value,
 - Min Date—The date the report minimum value was reached,
 - Avg—The average report value,

**Note**

If the Avg value is enabled, an Average [*data value*] As% is displayed for certain reports, for example NetFlow reports. Average As% is the percentage of the total of all data averages for all data series. In other words, add all the averages for all data series and then divide the average for this specific data series by the sum of all averages for all data series. For example, if the report shows the input for multiple interfaces, this value shows how the average of one interface compares to the average of the others.

- Max—The report maximum value,
- Max Date—The date the report maximum value was reached,
- Total—The total of all data points for that line item. For example, in an hourly report with 5-minute polling, Total represents the sum of 12 data points.

**Note**

Total is only meaningful if the data series is a numeric.

- Std Dev—Is the standard deviation for that data series, that is, a measurement of how spread out the data series values are. A low value indicates that the data points tend to be very close to the mean; a high value indicates that the data points are spread out over a large range of values. Standard deviation is the square root of the variance.
- Variance—Is the data series variance, that is, the mean of the squares of individual differences from the mean of the data series.
- Current—The current report value.

Min Date, Avg, Max, and Max Date are enabled by default.

- Show TCAs in Graphs—Options to show or hide critical, major, minor, or normal TCAs in report graphs. All alarm levels are checked by default.
- Override Report Definitions—If checked, overrides report definitions that have been set up at the individual report level and assigns the report definitions defined in the Reports Status window. For information, see [Customizing Individual Report Settings](#).
- Hide Empty Reports—If checked, reports that do not provide any data are not displayed.
- Display Device Alarm Severity Icon—By default, Prime Performance Manager displays the alarm severity icon for the device's highest alarm. Use this option to turn that feature off.
- Auto Expand Report Summary Tables—If checked (default), automatically expands the report graph summary tables. Reports with Dashboard in their titles, for example in the AAA Authentication Dashboard Hourly report, collapse the summary tables by default. This preference expands the summary tables automatically.
- Always Display All Report Data Intervals—If enabled, displays all intervals in the device-level report Duration menu even if the intervals are disabled at the network or device levels. This allows you to see report data for intervals that might exist in the past but are currently disabled, or to see TCA data for a time period that is disabled at the device or network levels. Device-level report durations include: 5 minute, 15 minute, hourly, daily, weekly, monthly.
- Display End of Time Period in Timestamps—If selected, changes the timestamp shown in graph and table reports to the end of the report interval. By default, graph and table reports display the start time for all time intervals. For example, in an hourly report, the polling time is 6H:00M:00S to 7H:00M:00S. By default, reports display the start time, which is 6H:00M:00S. If this option is enabled, reports will display the report interval end time. In the hourly interval example, this would be 6H:59M:59S.

- **Show Values with K/KB, M/MB, and G/GB**—If checked (default), appends kilobyte, megabyte, and gigabyte data with one of the following: K or KB, M or MB, G or GB.
- **Disable Dashboards**—If enabled, hides the Prime Performance Manager dashboards from the reports navigation tree. Dashboards are enabled by default. Disabling them might be useful if you do not use them.
- **Maximize Graph Data (Hide Inputs)**—Hides the display of the Zoom, Aggregate Lines, Graph Styles, and Export Graphs tools displayed inside charts. Additionally, the chart border is hidden and chart title reduced in size. Enabling this option reduces the overall chart size and increases screen real estate. You can toggle chart decorations and styling at the individual chart level.
- **Export All CSV Data With Report Export**—Exports all CSV data with report exports.
- **Show Intervals On Report Menus**—If selected, report intervals are displayed in the report navigation tree. By default, intervals are selected separately on the report menu bar and not displayed on the report navigation tree.
- **CSV File Name Date Format**—Sets the date format used in CSV file names, either yyyy-MM-dd-HH-mm-ss (year-month-day-hour-minute-second) or MM-dd-yyyy-HH-mm-ss (month-day-year-hour-minute-second).
- **Show Live Mode Report Data For**—Allows you to change the amount of data available for Go Live reports: Last Hour (default), Last 12 Hours, Last Day, Last 3 Days. Go Live reports display data every 15 seconds. For more information, see [Displaying Network and Device Reports, page 7-10](#).
- **Number of Digits of Precision After Decimal**—Specifies the level of precision for numeric values in reports. For example, if set to 2 (default), reports will display a numeric as ...nnnnn.nn. If set to three, the numeric is displayed as ...nnnnn.nnn. The level of decimal precision is also controlled by the decimalPrecision report element. Prime Performance Manager displays the highest level set either in User Preferences or by the decimalPrecision element. For information about the decimalPrecision element, see the *Cisco Prime Performance Manager 1.7 Integration Developer Guide*.
- **Maximum Number of Data Series Per Report**—Allows you to specify the number of items displayed in graph output mode tables and charts. This number cannot be higher than the number specified in the Maximum Top XX Entries specified on the System Configuration tab. The default is 10. For information about system configuration parameters, see [Changing System Configuration Settings, page 3-17](#).
- **Set Top Number For NetFlow Reports**—Specifies the top number of NetFlow reports displayed. This number cannot be higher than the number specified in the Maximum Entries for Top XX Output in NetFlow Reports specified on the System Configuration tab. The default is 10. For information about system configuration parameters, see [Changing System Configuration Settings, page 3-17](#).
- **Bytes in Megabyte**—Sets the bytes multiplier used to calculate megabytes: 1000 or 1024. If set to 1024 (default), volume is represented with two-letter acronyms: MB, GB, TB. If set to 1000, volume is represented with one letter: M, G, T. For example, if set to 1024, 42.75 megabytes is shown as 42.75MB. If set to 1000, 42.75MB becomes 44.82M.

Utilization Color Preferences

Allow you to define the ascending and descending utilization ranges to assign to green, gold, orange and red colors in report charts to make utilization values in various states of criticality easier to distinguish. Default values:

- **Ascending/Utilization Metrics**
 - Green—00.00 > 50.00
 - Gold—50.01 > 70.00

- Orange—70.01 > 90.99
 - Red—91.00 > 100.00
- Descending/Utilization Metrics
 - Green—100.00 > 99.91
 - Gold—99.90 > 99.51
 - Orange—99.50 > 99.01
 - Red—99.00 > 00.00
- Enabled Colors—Defines whether the chart text color will be displayed in green, orange, and red based on the utilization values:
 - On—Turns on the utilization colors for text.
 - Off—Turns off the utilization colors for text.
 - Red/Orange/Gold Only—Turns on utilization colors for text only red, gold, and orange colors.
- Background Color—Defines whether the chart table cell background color is displayed in green, orange, and red when the utilization values are reached:
 - Reports—Turns on the utilization colors for report chart table cells.
 - Dashboards/Views—Turns on the utilization colors for dashboard and view chart table cells.
 - Both—Turns on utilization colors for reports, dashboards, and view chart table cells.
 - Off—Turns off utilization colors for chart backgrounds.

Graph Preferences

Change display options in report, dashboard, and view graphs:

- Show Hover Info—Turns hover information on (default) or off. Hover information is the device details that appear when you move your cursor over a device link.
- Show Vertical Bar Over Data Series—Turns the vertical bar displayed in charts on (default) or off. The vertical bar helps you see data points through all data items.
- Show One Graph Column Per Report—Allows you to display one graph per screen column instead of the default two columns. This option is not enabled by default.
- Show Vertical Graph Grid—Allows you to display vertical and horizontal lines in charts. By default, only horizontal lines are displayed in charts. This option is not enabled by default.
- Enable Graph Time Span Bar—Displays the full screen graph adjustable time span bar on all report graphs including graphs in views and dashboards. The time span bar allows you to bring period of time within the report period into higher focus on the chart. This option is not enabled by default.
- Show Graph as Default Output Mode in Dashboards/Stargraphs—Makes graph output the default for dashboards and star graphs. This option is not enabled by default.
- Enable Legends by Default—Enables legend display for all graphs.
- Default Graph Title Font Size (Pixels)—Allows you to change the graph title and font size in reports. The default is 12 pixels. The range is 12 to 18 pixels.
- Default Graph Height (Pixels)—Allows you to change the height of graphs in reports. The default is 300 pixels. The range is 250 to 750 pixels.
- Max Graphs Per Report (One Graph/Series Mode)—Allows you to set the maximum number of graphs that will appear in a report.

- **Margins**—Allows you to set the width of the graph margin: No Margins, Narrow Margins, or Wide Margins.

Load/Save Preferences

Allows you to save user preferences to the Prime Performance Manager gateway where they can be loaded by other users. See [Saving and Loading User Preferences](#), page 3-15.

- Step 3** After you complete your changes, return to the previous Prime Performance Manager window.
- Step 4** To view the new preferences, click **Reload Report** on the report toolbar (if a report is displayed), or click **Reload Page** on the main toolbar at the top of the Prime Performance Manager window.
-

Saving and Loading User Preferences

After modifying user preferences, you can save them to the Prime Performance Manager gateway where they can be loaded by other Prime Performance Manager users.

To save your modified user preferences:

-
- Step 1** On the right side of the main menu bar, click **Preferences**. (If user security is enabled, you can also choose User Preferences from the user ID at the top of the window.)
- Step 2** In the User Preferences window, click **Load/Save**.
- Step 3** In the Load/Save Preferences window, click **Save Current Preferences to Gateway**.
- Step 4** In the Save User Preferences to Gateway dialog box, choose the preference groups you want to save:
- Device Display
 - General Display
 - Graph Color
 - Reports
 - Utilization Color
 - Graph
- Step 5** Enter a file name. File names can be any alphanumeric character including spaces, underscores, and hyphens. Special characters are not allowed.
- Step 6** Click **OK**.

The file is displayed in Load/Save Preferences table.



Note Saved user preferences cannot be edited or deleted.

To load a saved user preferences file:

-
- Step 1** On the right side of the main menu bar, click **Preferences**.
- Step 2** In the User Preferences window, click **Load/Save**.

Step 3 In the list of preferences, select the preference file you want to load, then click **Load Selected Preferences**.

The new preferences are loaded and will take effect immediately.

Customizing GUI Page Sizes

Information in the Prime Performance Manager GUI is generally presented in tables, including summary tables, report tables, and editors. You can customize the number of table entries using the Page Size field. This field is located in the toolbar of every page allowing customization.

Prime Performance Manager retains your entry for each table. For example, you can set the page size for the Devices window to 400 if you prefer to see all device data at one time, and set the page size for SNMP Editor to 25, if you want that screen to load quickly instead of seeing a large volume of data at once.

Page size values are maintained across user sessions.

[Table 3-2](#) shows the Prime Performance Manager windows where you can adjust the page size.



Note

The Page Size field maximum is controlled by the Maximum Rows for Table Pages in the Administration Configuration Settings window. For information, see [Changing System Configuration Settings, page 3-17](#).

Table 3-2 *Windows Affected by the Page Size Preference*

Area or Menu	Submenu or Window	Page
Views	Subview	—
	Event History	—
	Active Alarms	—
Dashboards	—	—
Reports (Table output mode)	—	—
Grouped Reports (Table output mode)	—	—

Table 3-2 *Windows Affected by the Page Size Preference (continued)*

Area or Menu	Submenu or Window	Page
Network	Devices	Devices
		Types
		Alarms By Device
		Alarms By Device Type
		Unreachable
		NetFlow
		Polling
		Ping
		Uptime
		Data Collection
		Software
		Contact/Location
		Vendor
		Prime
	Tenants	—
	Alarms/Events	Alarms
		Events
		Daily Archives
		Alarms By Device
		Alarms By Device Type
	SNMP Editor	—
	Polling Group Editor	—
	Credential Editor	—
	Threshold Editor	—
System	Gateway/Units	—
Administration	Groups Editor	—

Changing System Configuration Settings

In addition to user preferences (see [Customizing the GUI and Information Display, page 3-8](#)), system administrators can change a number of system settings that control disk space monitoring and warnings, the number of days to archive message logs, maximum number of Top XX entries, HTML page and table sizes, as well as database backup preferences. These settings apply to all users. You must be a System Administrator user to change them.

To change system configuration settings:

-
- Step 1** Log into Prime Performance Manager as a System Administrator user.

Step 2 From the Administration menu, choose **System Settings**.

The System Configuration tab is displayed.

Step 3 Modify the following configuration settings, as needed:

System Configuration Settings

- **Display Device Location in Google Maps**—If enabled, converts the provisioned device location into a Google Maps hyperlink. The hyperlink is displayed in the device Location property. When selected, Google Maps displays the device location in a separate browser session. This property is disabled by default.



Note

Prime Performance Manager displays the location that is provisioned on the device unless you edit the location in Prime Performance Manager. (For information, see [Editing a Device Name, Web Port, Time Zone, and Location, page 9-16](#).) If you enable this feature, verify that enough location information is entered for the device to display its location accurately in Google Maps. Location abbreviations or notations might not display the device location accurately.

- **Default Map Zoom Level**—Sets the default Google Maps zoom level, 0 (global view) to 21+ (street level view). The default zoom value is 13.
- **TCA Warning Severity**—If enabled, TCA alarms are generated when the warning threshold is reached.
- **TCA Informational Severity**—If enabled, TCA alarms are generated when the information threshold is reached.
- **Disk Space Monitor Checking**—If enabled, the Prime Performance Manager installed directories disk space monitor script runs every ten minutes to check the disk space. Alarms are raised when disk space reaches the thresholds defined in the next to parameters.
- **Warning Disk Space Remaining**—Defines the disk space threshold when a warning alarm is generated, and disk cleanup begins. 30 MB is the default.
- **Critical (Shut Down) Disk Space Remaining**—Defines the disk space threshold when a critical alarm is generated, and disk cleanup begins. 29 MB is the default.



Note

Disk space monitoring and thresholds can also be set with the ppm diskmonitor command. For information, see [ppm diskmonitor, page B-32](#).

- **Maximum Days for Message Log Archives**—Sets the maximum number of days to archive message logs. 31 days is the default. You can also set the maximum using the ppm msglogage command. For information, see [ppm msglogage, page B-62](#).
- **Maximum Entries for Top XX Output**—Sets the maximum number of entries in Top XX reports. 10 is the default. The range is 5-20. You can also set the maximum using the ppm topxxsize command. For information, see [ppm tomcatver, page B-115](#).



Note

Users can set their own preference for this item in User Preferences. However, their preference cannot be greater than the value entered here. For information about user preferences, see [Customizing the GUI and Information Display, page 3-8](#).

- **Maximum Entries for Top XX Output Specifically for NetFlow**—Sets the maximum number of entries in NetFlow Top XX reports. 10 is the default. The range is 5-20. You can also set the maximum using the `ppm topxxsizenetflow` command. For information, see [ppm topxxsizenetflow, page B-116](#).
- **Maximum Rows for Table Pages**—Sets the maximum browser page size for Prime Performance Manager tables. Effectively, this sets the maximum users can select from the Page Size field. The default value is 800. The range is 1-5000. You can also set the maximum using the `ppm maxpagesize` command. For information, see [ppm maxpagesize, page B-56](#). For more information, see [Customizing GUI Page Sizes, page 3-16](#).
- **Maximum Simultaneous Report Queries**—Sets the maximum number of simultaneous report queries. The valid range is 1-50. 0 disables function so no maximum is set. You can also set the maximum using the `ppm maxrepqueries` command. For information, see [ppm maxrepqueries, page B-56](#).
- **Interface Name Format**—Defines the format for displaying interface names in the Prime Performance Manager GUI:
 - **Description**—The interface description is displayed.
 - **Alias**—The interface alias is displayed.
 - **Both**—(default) Both the interface alias and description are displayed.

You can also set this parameter using the `ppm ifnameformat` command. For information, see [ppm ifnameformat, page B-45](#).
- **SMTP Mail Server**—Sets the SMTP mail server for report emails.
- **Global Email From Address**—Sets an email address to populate the Email From Address fields for emailed reports, alarms, and thresholds. For information, see [Emailing Reports, page 7-20](#).

System Polling Threads

Displays the number of slow and fast polling threads, and the interval between the slow and fast threads. Polling threads prevent slow polling devices from blocking the processing of fast polling devices. The fast interval determines the thread a device is assigned to based on how long it took to poll all report data for the device. If polling time is less time than the fast interval, the device is assigned to the fast polling thread. If not, it is assigned to the slow polling thread.

The fast interval might need tuning if the average poll time for the majority of devices is greater than the 15-second default. The number of threads assigned to each pool might need tuning if it takes longer to process all devices than the lowest enabled report interval. Polling threads and intervals can be modified using the following commands:

- [ppm numfastthreads, page B-65](#)
- [ppm numslowthreads, page B-66](#)
- [ppm fastinterval, page B-39](#)



Note Polling thread and interval modification should only occur at the direction of Cisco support.

System Backup Settings

- **Database Backups**—Enables or disables database backups. This preference is enabled by default.
- **Reports Backups**—Enables or disables report backups. This preference is disabled by default.
- **Backup Logs**—Enables or disables log backups. This preference is disabled by default.

- **Zip Old Backups**—If enabled, zips old backups instead of deleting them. This preference is disabled by default.
- **Number of Days to Save Backup Files**—Configures the number of days to save old backups. The default is 1. The range is 1 to 365 days.
- **Minimum Free Disk Space to Attempt Backups**—Sets the amount of disk space, in megabytes, that must be free before a backup is attempted. The default is 300 megabytes. The range is 1 to 1000 megabytes.
- **Backup Directory**—Allows you to specify the directory into which backups will be placed. The default is /opt/.
- **Backup/Restore Script**—Allows you to run a script before and after a backup or restore is completed. Enter the path and script file name.
- **Backup/Restore Email ID list**—Allows you to enter a list of email addresses to which emails are sent after a backup or restore occurs. The email includes the backup or restore statistics.

Step 4 After you complete your changes, return to the previous Prime Performance Manager window.

Step 5 To view the new settings, click **Reload Report** on the report toolbar (if a report is displayed), or click **Reload Page** on the main toolbar at the top of the Prime Performance Manager window.

Adding and Removing Properties from Property Views

Prime Performance Manager displays many properties and attributes in tables, including Devices, Alarms by Device, Unreachable Alarms, and many others. Most tables have properties that are not displayed by default. To display hidden properties, or to hide ones that are displayed:

Step 1 Right-click a property table header.

Step 2 In the list of properties that appears, check the properties that you want display; uncheck ones that you want to hide.

Step 3 At the bottom of the property list, click **Apply**.

If many properties are available, for example in the Devices table, scroll the Prime Performance Manager window to display the Apply button.



Note If you do not click Apply, the change will not appear in the table.



Note Changes to displayed table properties will persist from user session to user session.

Sorting Tables

You can easily sort any Prime Performance Manager table display, for example, Devices, Alarms by Device, and many others.

To sort a property table, left-click the column heading. Prime Performance Manager alpha-numerically sorts the table from top to bottom based on the data in the chosen column. To sort the table in reverse order, left-click the column heading again.

Icons in the column heading indicate the column on which the table is sorted and the sort direction:

- Triangle icon—Ascending sort order (1-9, A-Z).
- Inverted triangle—Descending (Z-A, 9-1).

If you sort a table based on the Devices column, Prime Performance Manager sorts the table based on the discovered device DNS names. If you modified your web preferences to identify devices by their user-defined names, Prime Performance Manager sorts the table, based on the user-defined device names. For more information, see [Customizing the GUI and Information Display](#), page 3-8.

Displaying Prime Performance Manager Information

To display information about Prime Performance Manager, click **About** at the top right corner of the Prime Performance Manager window. Displayed information includes:

- License Type—The Prime Performance Manager license type. For Evaluation licenses, the number of days remaining is shown.
- Build Date—The Prime Performance Manager build date.
- Build Version, Patch Level—The build version and patch level. For example, 1.7.0.6, 0 indicates a 1.7 build with no patches installed.
- Release Notes—A link that displays the Prime Performance Manager Release Notes on Cisco.com.
- PPM on Cisco.com—A link to the Prime Performance Manager product page on Cisco.com.
- Network Management Products—A link to the Cisco Network Management product page.
- Open Source Information—Displays the Open Source Used in Prime Performance Manager 1.7.0 document describing open source products used in the release.

Changing the Prime Performance Manager Corporate Branding

Prime Performance Manager allows you to replace the Cisco corporate branding presented in the GUI, with your corporate branding including your company name, logo, and background. Your users will see this brand in the header page of all Prime Performance Manager GUI pages as well as in any email reports.

Changing the corporate branding requires:

- Root access to the Prime Performance Manager gateway.
- A gateway restart.

To customize the Prime Performance Manager corporate branding:

-
- Step 1** Log into the Prime Performance Manager gateway as the root user. (See [Logging In as the Root User](#), page 2-1.)
- Step 2** Navigate to the gateway properties directory:
- ```
cd /opt/CSCOppm-gw/properties
```

**Step 3** Open `Branding.properties` with a text editor and modify the following entries using the format, `[propertyname=propertyvalue]`:

- `enabled`—Set to `true` to turn on the custom branding; set to `false` (default) to return to the default Cisco branding.
- `productFamily`—Defines the first header line in the Prime Performance Manager GUI.
- `applicationTitle`—Defines the second header line, Prime Performance Manager displays its title, version, and indicates whether you have an evaluation license.
- `productLogoClickUrl`—Defines the website that is displayed when a user clicks on the company logo.
- `productLogo`—Defines the image file used for your company logo. Copy the image entered here to the images directory where you installed Prime Performance Manager. By default this is located at
- `/opt/CSCOppm-gw/images`
- `backgroundImage`—Defines the background image shown in the top title area. Copy the image entered here to the images directory where you installed Prime Performance Manager.
- `productHelp`—Allows you to optionally provide help documentation to your users. Copy the help file to the help subdirectory where you installed Prime Performance Manager. By default this is located at:  
  
`/opt/CSCOppm-gw/apache/share/htdocs/help`
- `retainCiscoHelp`—Indicates whether or not Cisco online help links are retained after you define custom online help. The default is `false`. Only the custom help link is displayed. If you set to `true`, both the Cisco online help links and your custom help links are displayed,

**Step 4** After you modify and save the `Branding.properties` file and copy any custom image files to the gateway images directory, restart the gateway. (See [Restarting Gateways and Units, page 2-5](#).)

Your custom branding will appear at the first login.

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