



Viewing Dashboards

Dashboards display at-a-glance views of the most important data in your network. Dashboards contain *dashlets* that consist of visual displays such as tables and charts.



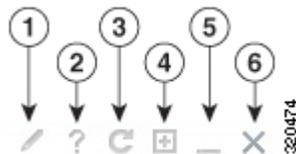
Note

Adobe Flash Player must be installed before you can view the dashlets on a Cisco Prime Infrastructure dashboard.

Dashboards provide status and alerts, monitoring, and reporting information. A quick scan of a dashboard should let you know if anything needs attention. Use the filters at the top of the dashboards to specify the information that is displayed.

Dashboards contain dashlets that consist of visual displays such as tables and charts. You can drag and drop dashlets to any location in the dashboards. Hover your mouse cursor over any dashlet, and the following icons appear in the top-right corner of the dashboard.

Figure 7-1 *Dashlet Icons*



1	Dashlet options include editing the dashlet title, refreshing the dashlet, or changing the dashlet refresh interval. (To disable refresh, unselect Refresh Dashlet.)
2	Dashlet help includes a picture of the dashlet, a description, the data sources used to populate the dashlet, and any filters you can apply to the dashlet's data.
3	Refresh the dashlet.
4	Maximize the dashlet. A restore icon appears, allowing you to restore the dashlet to its default size.
5	Collapse the dashlet so that only its title appears. An expand icon appears.
6	Remove the dashlet.

Dashlet badges indicate which filters were applied when generating the contents of each dashlet.

Figure 7-2 Dashlet Badges



1	Network aware filter. Use this filter to collect data for all devices, wired devices, wireless devices, or a specific wireless SSID.
2	Site filter. Use this filter to collect data associated with an AP or a controller located at a predefined location.
3	Application filter. Use this filter to collect data based on a service, an application within a service, up to ten separate applications, or all applications.
4	Time frame filter. Use this filter to collect data for a preset time period, or you can specify a beginning and ending date.

You can customize the predefined set of dashlets depending on your network management needs. You can organize the information in user-defined dashboards. The default view comes with default dashboards and pre-selected dashlets for each.



Note

- The label “*Edited*” next to the dashlet heading indicates that the dashlet has been customized. If you reset to the default settings, the Edited label is cleared.
- When an upgrade occurs, the arrangement of dashlets in a previous version is maintained. Because of this, dashlets or features added in a new release are not displayed. Click the **Manage Dashboards** link to discover new dashlets.
- The horizontal and vertical scrollbars are visible if you zoom the dashlets. Reset the zoom level back to zero, or no zoom for viewing the dashlets without the scrollbars.

Adding Dashboards

To add a create a custom dashboard:

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- Step 1** Click the **Settings** icon (see [Figure 7-3](#)) and choose **Add New Dashboard**.

Figure 7-3 Settings Pulldown Menu



- Step 2** Enter a name for the new dashboard, then click **Add**.
- Step 3** Choose the new dashboard and add dashlets to it (see [Adding Dashlets](#)).
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Configuring Dashboards

After an upgrade, the arrangement of dashlets in the previous version is maintained. Therefore, dashlets or features added in a new release are not displayed. To display new dashlets, click the **Settings** icon (shown in [Figure 7-3](#)) and choose **Manage Dashboards**.

To restore a dashboard to the default settings:

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- Step 1** Click the **Settings** icon (shown in [Figure 7-3](#)) and choose **Manage Dashboards**.
- Step 2** Choose a dashboard from the list, and click **Reset**.
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Adding Dashlets

A subset of the available dashlets is automatically displayed in the dashboards. To add a dashlet that is not automatically displayed to a dashboard:

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- Step 1** Choose **Dashboards**, then select the dashboard to which you want to add the dashlet.
- Step 2** Click the **Settings** icon (see [Figure 7-3](#)), then choose **Add Dashlets**.
- Step 3** Find the dashboard heading in the drop-down list; you can add any of the dashlets under that heading to that dashboard.
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Table 7-1 lists the default dashlet options that you can add in your Prime Infrastructure home page.

Table 7-1 Default Dashlets

Dashlet	Description
AP Join Taken Time	Displays the access point name and the amount of time (in days, minutes, and seconds) that it took for the access point to join.
AP Threats/Attacks	Displays various types of access point threats and attacks and indicates how many of each type have occurred.
AP Uptime	Displays each access point name and amount of time it has been associated.
Ad hoc Rogues	Displays ad hoc rogues for the previous hour, previous 24 hours, and total active.
Cisco Wired IPS Events	Displays wired IPS events for the previous hour, previous 24 hours, and total active.
Client	Displays the five most recent client alarms with client association failures, client authentication failures, client WEP key decryption errors, client WPA MIC errors, and client exclusions.
Client Authentication Type	Displays the number of clients for each authentication type.
Client Count	Displays the trend of associated and authenticated client counts in a given period of time.
Client Distribution	Displays how clients are distributed by protocol, EAP type, and authentication type.
Client EAP Type Distribution	Displays the count based on the EAP type.
Client Protocol Distribution	Displays the current client count distribution by protocols.
Client Security Events	Displays client security events within the previous 24 hours including excluded client events, WEP decrypt errors, WPA MIC errors, shunned clients, and IPsec failures.
Client Traffic	Displays the client traffic for wired and wireless clients. For displaying wired client traffic on Traffic Dashlet, Identity Service Engine (ISE) should be integrated with Prime Infrastructure, and wired devices should be configured with the ISE server, using 802.1x Port or MAC Authentication.
Client Troubleshooting	Allows you to enter a MAC address of a client and retrieve information for diagnosing the client in the network.
Clients Detected by Context Aware Service	Displays the client count detected by the context aware service within the previous 15 minutes.
Controller CPU Utilization (%)	Displays the average, maximum, and minimum CPU usage.
Controller Memory Utilization	Displays the average, maximum, and minimum memory usage as a percentage for the controllers.
Coverage Areas	Displays the list coverage areas and details about each coverage area.
Friendly Rogue APs	Displays friendly rogue access points for the previous hour, previous 24 hours, and total active.
Guest Users Count	Displays Guest client count over a specified time.

Table 7-1 *Default Dashlets (continued)*

Dashlet	Description
Inventory Detail Status	Displays the Chart summarizing the status for the following device types: <ul style="list-style-type: none"> • Controllers • Switches • Autonomous APs • Radios • MSEs • Third Party Controllers • Third Party Access Points
Inventory Status	Displays the total number of client controllers and the number of unreachable controllers.
LWAPP Uptime	Displays the access point name and the amount of its uptime in days, minutes, and seconds.
Latest 5 Logged in Guest Users	Displays the most recent guest users to log in.
Mesh AP by Hop Count	Displays the APs based on hop count.
Mesh AP Queue Based on QoS	Displays the APs based on QoS.
Mesh Parent Changing AP	Displays the worst Mesh APs based on changing parents.
Mesh Top Over Subscribed AP	Displays the considered over subscribed APs.
Mesh Worst Node Hop Count2-28	Displays the Worst AP node hop counts from the root AP.
Mesh Worst Packet Error Rate	Displays the worst Mesh AP links based on the packet error rates of the links.
Mesh Worst SNR Link	Displays the worst Mesh AP links based on the SNR values of the links.
Most Recent AP Alarms	Displays the five most recent access point alarms. Click the number in parentheses to open the Alarms page which shows all alarms.
Most Recent Client Alarms	Displays the most recent client alarms.
Most Recent Mesh Alarms	Displays the most recent mesh alarms
Most Recent Security Alarms	Displays the five most recent security alarms. Click the number in parentheses to open the Alarms page.

Table 7-1 Default Dashlets (continued)

Dashlet	Description
Network Device Summary	<p>Displays the total managed device count, number of available access points (APs) and total count of managed unreachable devices in the network.</p> <p>The Unified AP Reachability can be any of the following:</p> <ul style="list-style-type: none"> Reachable—Operational status is registered and admin status is enable. Unreachable—Operational status unregistered and admin status is enable. <p>If the admin status of the Unified AP is down, it will not be shown anywhere on the network device summary dashlet.</p> <p>The AP reachability information is defined as follows:</p> <ul style="list-style-type: none"> Unified AP—Reachability is defined by the Operational Status. If the AP is registered to a wireless LAN controller, it is considered reachable. If it is not registered, it is not reachable. Autonomous AP—Reachability is defined by the device's SNMP Reachability field in the Device Work Center.
Network Topology	Displays the network topology map.
Recent 5 Guest User Accounts	Displays the most recent guest user accounts created or modified.
Recent Alarms	Displays the five most recent alarms by default. Click the number in parentheses to open the Alarms page.
Recent Coverage Holes	Displays the recent coverage hole alarms listed by access point.
Recent Malicious Rogue AP Alarms	Displays the recent malicious rogue AP alarms.
Recent Rogue Alarms	Displays the five most recent rogue alarms. Click the number in parentheses to open the Alarms page which shows the alarms.
Security Index	Displays the security index score for the wireless network. The security index is calculated as part of the 'Configuration Sync' background task.
Top APs by Client Count	Displays the Top APs by client count.
Unclassified Rogue APs	Displays unclassified rogue access points for the previous hour, previous 24 hours, and total active.
Client Count By Association/Authentication	<p>Displays the total number of clients by Association and authentication in Prime Infrastructure over the selected period of time.</p> <ul style="list-style-type: none"> Associated client—All clients are connected regardless of whether it is authenticated or not. Authenticated client—All clients are connected through a RADIUS or TACACS server. <p>Note Client count includes autonomous clients.</p> <p>Note The wired clients connected to open ports are counted as authenticated although authentication did not really happen due to open policy. This is also applicable for the wireless clients connected to an OPEN WLAN. When two areas overlap, the color is blended in the dashlet.</p>

Overriding a Dashlet Filter

You can change the filter settings for just one dashlet. For example, to change the time frame during which data is collected for a single dashlet from the default to 24 hours:

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- Step 1** Navigate to that dashlet and click **Dashlet Options**.
 - Step 2** Select the **Override Dashlet Time Filter** check box, choose **Past 24 Hours** from the **Time Frame** drop-down list, then click **Save And Close**.

The dashlet displays the last 24 hours of data. The label “Edited” next to the Time Frame dashlet badge with a red diagonal line over the badge indicates that the filter has been customized.

Creating Generic Dashlets

You can add a generic dashlet anywhere; it displays the values for all polled devices.

Before You Begin

You must create at least one custom monitoring policy (for example, see [Creating New Monitoring Policies](#)).

To create a generic dashlet:

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- Step 1** Choose **Dashboards**.
 - Step 2** Click the **Settings** icon (see [Figure 7-3](#)), then choose **Add Dashlets**.
 - Step 3** Find the Generic Dashlet and click **Add**. The Generic Dashlet appears on the dashboard.
 - Step 4** To edit the dashlet, hover your cursor over the Generic Dashlet and click **Dashlet Options**.
 - Step 5** Rename the dashlet.
 - Step 6** From the Template Name drop-down list, choose the custom template that you created, then click **Save**.
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