



Using Reports

The Reports tab displays information about your devices. You can save and email reports. You can also set specific times for emailed reports to be run and sent automatically.

The reports available are dependent on the groups of devices and individual devices you choose from the selector in the left pane.

Following are the subtabs under Reports:



Note

Some of the subtabs may not be visible to some users.

- **Wireless Clients**—See [Displaying Wireless Client Reports, page 5-1](#)
- **Current**—See [Displaying Current Reports, page 5-6](#)
- **Trends**—See [Displaying Trends, page 5-21](#)
- **Scheduled Email Jobs**—See [Scheduling Email Jobs, page 5-30](#)

Displaying Wireless Client Reports

Wireless client reports provide information about the type of client that is associating with an access point, information about how much bandwidth the client is using, and a history of which access points the client has been associated with.

Using this window, you can search for a wireless client based on their MAC address or name.

The frequency with which the Wireless Clients reports are updated is 5 minutes by default. To change the default setting, see [Managing System Parameters, page 6-59](#).

**Note**

Your login determines whether you can use this option.

Following are the report types you can view:

- Client Detail Report—See [Displaying a Client Detail Report, page 5-2](#)
- Client Statistics Report—See [Displaying a Client Statistics Report, page 5-3](#)
- Client Historical Association Report—See [Displaying a Client Historical Association Report, page 5-5](#)

Displaying a Client Detail Report

Procedure

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- Step 1** Select **Reports > Wireless Clients**. The Wireless Clients selector appears in the left pane.
- Step 2** From the list, select the method you want to use to search for clients: by MAC address or name.
- Step 3** Enter the MAC address or name. You can use an asterisk (*) as a wildcard to denote numbers and letters.

**Note**

The MAC address must be entered in hexadecimal, for example 0070eb37c90.

- Step 4** Click **Search**. A list appears in the left pane.
- If you chose MAC address in the previous step, MAC addresses are listed; if you chose name, names are listed.

- Step 5** Click the MAC address or name. The right pane refreshes and displays the Client Detail Report, which is the default report, with the following information:

Column	Description
Name	The name assigned to the wireless client device.
IP Address	The IP address of the wireless client device.
Classification	The type of wireless client device.
Associated with	The name or IP of the access point with which it was last associated.
State	The operational state of the wireless client device.
Time last seen	The time the client was last seen by the system.
Software Version	The version of wireless client software.
MAC Address	The MAC address of the wireless client.

- Step 6** To export the report, click **Export**. (See [Exporting a Report](#), page 5-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 5-28.)

Displaying a Client Statistics Report

Procedure

- Step 1** Select **Reports > Wireless Clients**. The Wireless Clients selector appears in the left pane.
- Step 2** From the list, select the method you want to use to search for clients: by MAC address or name.
- Step 3** Enter the MAC address or name. You can use an asterisk (*) as a wildcard to denote numbers and letters.
- Step 4** Click **Search**. A list appears in the left pane.

- Step 5** Select the MAC address or name. The right pane refreshes.
- Step 6** From the Report Name list, select Client Statistics Report.
- Step 7** Click **View**. The Client Statistics Report displays in the right pane with the following information:

Table 5-1 Client Statistics Report

Column	Description
Name	The name of the wireless client.
IP address	The IP address of the wireless client.
Time last seen	The time the wireless client was last seen by the system.
Packets transmitted	The number of packets transmitted.
Octets transmitted	The number of octets transmitted.
Packets received	The number of packets received.
Octets received	The number of octets received.
Latest received signal strength	A tally of the received signal quality.
Latest signal quality	The current index of radio signal quality.
Sleep time in power save mode	The number of beacon intervals across which the station will sleep in power-save mode, or 1 if the station will never be in power-save mode.
Preferred transmission rate	The preferred data transmission rate.
Short retries	The number of times the RTS (request to send) packet had to be retried.
Latest short retries	A tally of the number of retries.
Long retries	The number of times the data packet had to be retried.
Latest long retries	A tally of the number of retries.
Received WEP errors	The number of received encryption errors.
Errors in transmitted packets	The number of errors in transmitted packets.
Errors in received packets	The number of errors in received packets.

Table 5-1 Client Statistics Report (continued)

Column	Description
Errors in received octets	The number of errors in received octets.
Announcements sent	The total number of announcement packets sent since the device was reset.

Step 8 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 9 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying a Client Historical Association Report

Procedure

- Step 1** Select **Reports > Wireless Clients**. The Wireless Clients selector appears in the left pane.
- Step 2** From the list, select the method you want to use to search for clients: by MAC address or name.
- Step 3** Enter the MAC address or name. You can use an asterisk (*) as a wildcard to denote numbers and letters.
- Step 4** Click **Search**. A list appears in the left pane.
- Step 5** Select the MAC address or name. The right pane refreshes.
- Step 6** From the Report Name list, select Client Historical Association Report.

Step 7 Click **View**. The Client Historical Association Report displays in the right pane with the following information:

Column	Description
Associated with	The name or IP address of the AP. Click on this link to view the AP Summary Report and the Fault Summary. For more information, see Displaying an AP Summary Report, page 5-11 .
Client IP Address	The IP address of the AP.
Software Version	The software version of the wireless client device.
Time	The time the client was last seen by the system. For more information, see Date and Time Display on the WLSE, page 1-2 .

Step 8 To sort table data, click on the column heading you want to use to sort the data:

- A triangle indicates ascending order.
- An upside-down triangle indicates descending order.
- No triangle indicates that the data is not sorted.

Step 9 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 10 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying Current Reports

This window allows you to view current information about the monitored devices in your network. You can view, export, and email the reports.

The frequency with which configuration data is collected from the devices is 15 minutes by default. To change the default setting, see [Managing System Parameters, page 6-59](#).

**Note**

Your login determines whether you can use this option.

Following are the report types you can view:

- Access Points and Bridges
 - Group Report—See [Displaying a Group Report, page 5-7](#)
 - Group Security Report—See [Displaying a Group Security Report, page 5-9](#)
 - Summary Report—See [Displaying an AP Summary Report, page 5-11](#)
 - Detailed Report—See [Displaying a Detailed Report, page 5-13](#)
 - Current Client Association—See [Displaying a Current Client Association Report, page 5-15](#)
 - EAP Authentication Report—See [Displaying an EAP Authentication Report, page 5-16](#)
- Switches
 - Switch Summary Report—See [Displaying a Switch Summary Report, page 5-17](#)
 - AP and Bridge Connected to Switch Report—See [Displaying an AP and Bridge Connected to Switch Report, page 5-18](#)
- Routers
 - Router Summary Report—[Displaying a Router Summary Report, page 5-19](#)
 - AP and Bridge Connected to Router Report—See [Displaying an AP and Bridge Connected to Router Report, page 5-20](#)

Displaying a Group Report

Procedure

- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.

■ Displaying Current Reports

- Step 2** From the device selector in the left pane, click to expand the folder for the group reports you want to view. The right pane refreshes.
- Step 3** From the Report Name list, select Group Report.
- Step 4** Click **View**. The group report is displayed with the following headings:

Column	Description
AP Name	The name of the access point. Click to view a detailed report. See Displaying a Detailed Report, page 5-13 .
AP IP Address	The IP address of the access point. Click to open up a browser window to the AP Summary Status.
Number of Clients connected	The number of clients currently connected to the access point.
Number of Bridges connected	The number of bridges connected to the access point.
Number of AP-Repeaters Connected	The number of repeaters connected to the access point.
Number of Users Connected	The number of current users.
Status (Fault)	Click to view the Fault Summary. For more information, see Viewing Fault Details, page 2-6 .
Timestamp	The time the access point's state last changed. For more information, see Date and Time Display on the WLSE, page 1-2 .

- Step 5** To sort table data, click on the column heading you want to use to sort the data:
- A triangle indicates ascending order.
 - An upside-down triangle indicates descending order.
 - No triangle indicates that the data is not sorted.

- Step 6** To export the report, click **Export**. (See [Exporting a Report, page 5-28.](#))
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report, page 5-28.](#))
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Displaying a Group Security Report

Procedure

- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the folder for the group security reports you want to view.
- Step 3** From the Report Name list, select Group Security Report.
- Step 4** Click **View**. The group report is displayed with the following headings:

Table 5-2 Group Security Report

Column	Description
AP Name	The name of the device. Click to view the AP Detailed Report, Fault Summary, and the EAP Authentication Report. For more information, see Naming Guidelines, page A-1.
AP IP Address	The IP address of the device. Click to open up a browser window to the AP Summary Status.
Encryption type	Indicates the type of encryption used: No Encryption, Optional, or Full Encryption.
Length of WEP Key1 through 4 (in bits)	The WEP key length.

Table 5-2 Group Security Report (continued)

Column	Description
Authentication Type - Open System	Indicates whether any device, regardless of its WEP keys, can authenticate and attempt to associate.
Authentication Type - Shared Key	Indicates whether an access point sends a query to any device attempting to associate with the access point.
Status (Fault)	Click to view the Fault Summary. For more information, see Viewing Fault Details, page 2-6 .
Link to EAP Authentication Report	Click to view the EAP Authentication report. For more information, see Displaying an EAP Authentication Report, page 5-16 .
Timestamp	The time the fault was reported. For more information, see Date and Time Display on the WLSE, page 1-2 .

Step 5 To sort table data, click on the column heading you want to use to sort the data:

- A triangle indicates ascending order.
- An upside-down triangle indicates descending order.
- No triangle indicates that the data is not sorted.

Step 6 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 7 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying an AP Summary Report

Procedure

- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the folder and select the device for which you want a report. The right pane refreshes.
- Step 3** From the Report Name list, select **Summary Report**.
- Step 4** Click **View**. Two tables are displayed: the AP Summary Report and the Fault Summary.

Table 5-3 AP Summary Report

Column	Description
Name	The system name for the device.
Timestamp	The time the fault was reported. For more information, see Date and Time Display on the WLSE, page 1-2 .
MAC Address	The device's MAC address.
IP Address	The device's IP address. Click to open up a browser window to the AP Summary Status.
Software Version	The version of software running on the device.
Number of Clients connected	The number of wireless clients connected to the device.
Number of Bridges Connected	The number of wireless bridges connected to the device.
Number of AP-Repeaters Connected	The number of AP repeaters connected to the device.
Number of Users Connected	The number of users currently connected to the device.

Table 5-3 AP Summary Report (continued)

Column	Description
Model	Model number of the device.
Radio Service Set ID	The device's radio SSID.
Root or Repeater	Indicates whether the device is used as a root or repeater.
Link to the Detailed Report	Click to see details. For more information, see Displaying a Detailed Report, page 5-13 .
Link to the Association Report	Click to see associations. For more information, see Displaying a Current Client Association Report, page 5-15 .
Link to the Access Point Web Page	Click to open up a browser window to the AP Summary Status.

For information on the Fault Summary, see [Viewing Fault Details, page 2-6](#).

Step 5 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 6 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying a Detailed Report

Procedure

- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the folder and select the device for which you want a report. The right pane refreshes.
- Step 3** From the Report Name list, select **Detailed Report**.
- Step 4** Click **View**. In addition to the Detailed Report, the Fault Summary, and the EAP Authentication Report are also displayed.

Table 5-4 Detailed Report

Column	Description
System Name	The system name for the device.
Timestamp	The time the device's state last changed. For more information, see Date and Time Display on the WLSE, page 1-2 .
MAC Address	The device's MAC address.
IP Address	The device's IP address. Click to open up a browser window to the AP Summary Status.
Software Version	The device's software version.
Number of Clients connected	The number of clients connected to the device.
Number of Bridges Connected	The number of bridges connected to the device.
Number of AP-Repeaters Connected	The number of AP repeaters connected to the device.
Number of Users Connected	The number of users connected to the device.
Model	The hardware model of the device.
Radio Service Set ID	The device's SSID.

Table 5-4 Detailed Report (continued)

Column	Description
Root or Repeater	Indicates the role of the device.
Subnet Mask	The subnet mask.
Ensure Compatibility With 2Mbps Clients	Indicates whether it is compatible with 2Mbps clients.
Ensure Compatibility With non-Aironet 802.11	Indicates whether it is compatible with 802.11.
SNMP Trap Destination	The IP address or host name of the server running the SNMP Management software.
HTTP Port	The device's HTTP setting.
Hot StandBy	Indicates whether the hot standby unit is in monitoring mode. If true, the current unit is in monitoring mode.
Count of Access Point observed by this AP	Number of access points seen by the access points.
Current operating frequency channel	The radio channel being used.
Ethernet Port Status	The operational status of the Ethernet port.
Radio Port Status	The operational status of the radio port.
Transmit Power (mW)	The access point's transmission power setting in milliwatts.
Switch IP (to which this AP is attached)	The IP address of the switch to which this access point is attached.
Switch Name (to which this AP is attached)	The name of the switch to which this access point is attached.
Encryption type	Indicates that devices using WEP are allowed to communicate with the access point.
Length of WEP key 1 through 4 (in bits)	The WEP key length.

Table 5-4 Detailed Report (continued)

Column	Description
Authentication Type - Open System	Indicates whether any device, regardless of its WEP keys, can authenticate and attempt to associate.
Authentication Type - Shared Key	Indicates whether an access point sends a query to any device attempting to associate with the access point.
Link to the Access Point Web Page	Click to open up a browser window to the AP Summary Status.

- For Fault Summary information, see [Viewing Fault Details, page 2-6](#).
- For EAP Authentication Report, see [Displaying an EAP Authentication Report, page 5-16](#).

Step 5 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 6 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying a Current Client Association Report

Procedure

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- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the folder and select the access point for which you want a report. The right pane refreshes.
- Step 3** From the Report Name list, select **Current Client Association Report**.

Step 4 Click **View**. The group report is displayed with the following headings:

Table 5-5 *Current Client Association Report*

Column	Description
Name	The name of the client associated with the access point.
IP Address	The IP address of the wireless client.
MAC Address	The wireless client's MAC address.
Device Type	The wireless client device type.
Timestamp	The time the device was last seen by the system. For more information, see Date and Time Display on the WLSE, page 1-2 .
State	The operational state of the device.

Step 5 To sort table data, click on the column heading you want to use to sort the data:

- A triangle indicates ascending order.
- An upside-down triangle indicates descending order.
- No triangle indicates that the data is not sorted.

Step 6 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 7 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying an EAP Authentication Report

Procedure

Step 1 Select **Reports > Current**. The window refreshes with a device selector in the left pane.

Step 2 From the device selector in the left pane, click to expand the folder and select the access point for which you want a report. The right pane refreshes.

Step 3 From the Report Name list, select **EAP Authentication Report**.

Step 4 Click **View**. The group report is displayed with the following headings:

Table 5-6 EAP Authentication Report

Column	Description
Server Name	The name of the authentication server.
Server Protocol	The protocol used by the server.
Server Priority	The priority of the server when multiple servers are configured for the same service.
Server Port	The communication port setting used by the access point and the server.

Step 5 To sort table data, click on the column heading you want to use to sort the data:

- A triangle indicates ascending order.
- An upside-down triangle indicates descending order.
- No triangle indicates that the data is not sorted.

Step 6 To export the report, click **Export**. (See [Exporting a Report, page 5-28.](#))

Step 7 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28.](#))

Displaying a Switch Summary Report

Procedure

- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the Switches folder and select the switch for which you want a report. The right pane refreshes.
- Step 3** From the Report Name list, select **Switch Summary Report**.

Step 4 Click **View**. The group report is displayed with the following headings:

Table 5-7 Switch Summary Report

Column	Description
System Name	The switch name.
IP Address	The switch IP address or hostname.
Status (Fault)	The fault status. Click for details. For more information, see Viewing Fault Details, page 2-6 .
System Description	A description of the switch.
Location	The location of the switch.
Product Type	The switch hardware type.
System Version	The switch version.
Link to the AP and Bridge Connected	Click for details. For more information, see Displaying an AP and Bridge Connected to Switch Report, page 5-18 .

Step 5 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 6 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying an AP and Bridge Connected to Switch Report

Procedure

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- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the Switches folder and select the switch for which you want a report. The right pane refreshes.
- Step 3** From the Report Name list, select **AP and Bridge Connected to Switch Report**.

Step 4 Click **View**. The report is displayed with the following headings:

Table 5-8 AP and Bridge Connected to Switch Report

Column	Description
Device Port	The device port.
AP Name	The name of the access point or bridge connected to the switch.
AP IP Address	The IP address of the access point or bridge connected to the switch.
Status (Fault)	The fault status. Click for details. For more information, see Viewing Fault Details, page 2-6 .

Step 5 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 6 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying a Router Summary Report

Procedure

- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the Routers folder and select the router for which you want a report. The right pane refreshes.
- Step 3** From the Report Name list, select **Router Summary Report**.

Step 4 Click **View**. The group report is displayed with the following headings:

Table 5-9 Router Summary Report

Column	Description
System Name	The router name.
IP Address	The router IP address.
Status (Fault)	The fault status.
System Description	A description of the router.
Location	The location of the router.
Product Type	The router hardware type.
System Version	The router version.

Step 5 To export the report, click **Export**. (See [Exporting a Report, page 5-28.](#))

Step 6 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28.](#))

Displaying an AP and Bridge Connected to Router Report

Procedure

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- Step 1** Select **Reports > Current**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the Routers folder and select the switch for which you want a report. The right pane refreshes.
- Step 3** From the Report Name list, select **AP and Bridge Connected to Router Report**.

Step 4 Click **View**. The report is displayed with the following headings:

Column	Description
Device Port	The device port.
AP Name	The name of the access point or bridge connected to the router.
AP IP Address	The IP address of the access point or bridge connected to the router.
Status (Fault)	The fault status. Click for details. For more information, see Viewing Fault Details, page 2-6 .

Step 5 To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)

Step 6 To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)

Displaying Trends

This window allows you to view trends about the monitored devices in your network. You can view, export, and email the reports.

The frequency with which performance data is aggregated is 3 hours by default. To change the default setting, see [Managing System Parameters, page 6-59](#).



Note

Your login determines whether you can use this option.

Following are the trend reports you can view for access points and bridges:

- Group Performance Report: RF Throughput—See [Displaying a Group Performance Report: RF Utilization, page 5-22](#).
- Group Performance Report: Number of Associations—See [Displaying a Group Performance Report: Ethernet Utilization, page 5-23](#).
- AP and Bridge RF Transmission Statistics—See [Displaying an AP and Bridge RF Transmission Statistics, page 5-24](#).

- AP and Bridge Ethernet Transmission Statistics—See [Displaying an AP and Bridge Ethernet Transmission Statistics, page 5-25](#).
- AP and Bridge Performance: Graph—See [Displaying an AP and Bridge Performance: Graph, page 5-26](#).
- AP and Bridge Performance: Tabular—See [Displaying an AP and Bridge Performance: Tabular, page 5-27](#).

Displaying a Group Performance Report: RF Utilization

Procedure

- Step 1** Select **Reports > Trends**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click the group folder for which you want a report. The right pane refreshes.
- Step 3** From the Report Name list, select **Group Performance Report: RF Utilization**.
- Step 4** From the Start Date and End Date lists, select the start date and end date for the period of time for which you want trending information.
- Step 5** Click **View**. The table is displayed:

Column	Description
AP Name	The name of the access point.
IP Address	The IP address of the access point.
Timestamp	The start of the aggregate time period.
RF Utilization (%)	The percentage of radio frequency utilization.
Number of Associations	Shows the number of associations with clients.

- Step 6** To sort table data, click on the column heading you want to use to sort the data:
- A triangle indicates ascending order.
 - An upside-down triangle indicates descending order.
 - No triangle indicates that the data is not sorted.
- Step 7** To export the report, click **Export**. (See [Exporting a Report](#), page 5-28.)
- Step 8** To email the report, click **Email Report**. (See [Emailing a Report](#), page 5-28.)

Displaying a Group Performance Report: Ethernet Utilization

Procedure

- Step 1** Select **Reports > Trends**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click the group folder for which you want to see a report. The right pane refreshes.
- Step 3** From the Report Name list, select **Group Performance Report: Ethernet Utilization**.
- Step 4** From the Start Date and End Date lists, select the start date and end date for the period of time for which you want trending information.
- Step 5** Click **View**. The table is displayed:

Column	Description
AP Name	The name of the access point.
AP IP Address	The IP address of the access point.
Timestamp	The start of the aggregate time period.
Ethernet Utilization (%)	The percentage of Ethernet utilization.
Number of Associations	Shows the number of associations with clients.

- Step 6** To export the report, click **Export**. (See [Exporting a Report, page 5-28.](#))
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report, page 5-28.](#))
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Displaying an AP and Bridge RF Transmission Statistics

Procedure

- Step 1** Select **Reports > Trends**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the folder, then select the devices for which you want to see a report. The right pane refreshes.
- Step 3** From the Report Name list, select **AP and Bridge RF Transmission Statistics**.
- Step 4** From the Start Date and End Date lists, select the start date and end date for the period of time for which you want trending information.
- Step 5** Click **View**. A graph is displayed:

Column	Description
Transmit Rate	The x-axis displays the time intervals. The y-axis displays the number of packets transmitted per second.
Receive Rate	The x-axis displays the time intervals. The y-axis displays the number of packets received per second.
Packet Errors	The x-axis displays the time intervals. The y-axis displays the number of error packets per number of packets.

- Step 6** To export the report, click **Export**. (See [Exporting a Report, page 5-28.](#))
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report, page 5-28.](#))
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Displaying an AP and Bridge Ethernet Transmission Statistics

Procedure

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- Step 1** Select **Reports > Trends**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the folder, then select the devices for which you want to see a report. The right pane refreshes.
- Step 3** From the Report Name list, select **AP and Bridge Ethernet Transmission Statistics**.
- Step 4** From the Start Date and End Date lists, select the start date and end date for the period of time for which you want trending information.
- Step 5** Click **View**. A graph is displayed:

Column	Description
Transmit Rate	The x-axis displays the time intervals. The y-axis displays the number of packets transmitted per second.
Receive Rate	The x-axis displays the time intervals. The y-axis displays the number of packets received per second.
Packet Errors	The x-axis displays the time intervals. The y-axis displays the number of error packets per number of packets.

- Step 6** To export the report, click **Export**. (See [Exporting a Report, page 5-28](#).)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report, page 5-28](#).)
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Displaying an AP and Bridge Performance: Graph

Procedure

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- Step 1** Select **Reports > Trends**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the folder you want to view. The right pane refreshes.
- Step 3** From the Report Name list, select **AP and Bridge Performance Graph**.
- Step 4** From the Start Date list, select the start date for the graph, and from the For a period of list, select the number of days.
- Step 5** Click **View**. A graph is displayed:

Column	Description
Number of Associations	The x-axis displays the time intervals. The y-axis displays the number of client associations
RF Utilization	The x-axis displays the time intervals. The y-axis displays the percent of radio frequency utilization.
Ethernet Utilization	The x-axis displays the time intervals. The y-axis displays the percent of Ethernet utilization.

- Step 6** To export the report, click **Export**. (See [Exporting a Report](#), page 5-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 5-28.)
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Displaying an AP and Bridge Performance: Tabular

Procedure

- Step 1** Select **Reports > Trends**. The window refreshes with a device selector in the left pane.
- Step 2** From the device selector in the left pane, click to expand the folder you want to view. The right pane refreshes.
- Step 3** From the Report Name list, select **AP and Bridge Performance: Tabular**.
- Step 4** From the Start Date list, select the start date for the graph, and from the For a period of list, select the number of days.
- Step 5** Click **View**. The report is displayed:

Column	Description
IP Address	The IP address of the access point or bridge.
Timestamp	The time the access point was last seen by the system.
Number of Associations	The number of client associations.
RF Utilization	The amount of radio frequency utilization.
Ethernet Utilization	The amount of Ethernet utilization.

- Step 6** To export the report, click **Export**. (See [Exporting a Report, page 5-28.](#))
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report, page 5-28.](#))

Exporting a Report

-
- Step 1** Click **Export**. An Export window appears.
- Step 2** From the Output Format list, select the format in which you want the file exported: CSV, PDF, or XML.
- Step 3** Click **Submit**. A window opens in the requested format and displays the output.
-

Emailing a Report

Procedure

-
- Step 1** Click **Email Report**. A the right pane refreshes with an Email properties dialog box.
- Step 2** Enter the following:

Field	Description
To	Enter the email address of the person to whom you want to send the report. An entry in this field is required.
Cc	Enter email addresses of persons that you want to copy on the email.
Subject	Enter a subject for the email.
Attachment Type	From the list, select the format in which you would like the report sent: CSV, PDF, or XML.
Message	Enter any message you would like to send.
Report Data for Last 'N' Days	This entry is applicable for Trends reports only. From the list, select the number of days for which you want report data emailed.

- Step 3** To cancel the email, click **Cancel**.
- Step 4** To send the email immediately, click **Send Now**.
- Step 5** To schedule the email for later:
- a. Click **Schedule**. The schedule job dialog box appears.
 - b. Enter the following:

Field	Description
Job Name	Enter a name for the job. For more information, see Naming Guidelines, page A-1 .
Start Date	From the list, select the date you would like to send the email.
Start Time	From the list, select the time you would like to send the email.
Repeat	
Enable	Check if you want to set up a scheduled job that periodically sends email.
Every	From the list, select the period of time you would like the email sent.

- Step 6** Do one of the following:
- Click **Cancel** to cancel the schedule.
 - Click **Finish** to complete scheduling. You receive a confirmation message that your email has been scheduled.

To view, delete, or edit the scheduled email jobs, see [Scheduling Email Jobs, page 5-30](#)

Scheduling Email Jobs

This window allows you to view information about email jobs you have scheduled. It also allows you to delete them and edit them.

The length of time job data is retained is 30 days by default. To change the default setting, see [Managing System Parameters, page 6-59](#).



Note

Your login determines whether you can use this option.

Procedure

Step 1 Select **Reports > Scheduled Email Jobs**. The Email Jobs window appears.

Field	Description
Job Name	The name of the job. For more information, see Naming Guidelines, page A-1 .
Recurring	Indicates whether it is a recurring job.
Next Schedule	Indicates when the job runs again.

Step 2 To sort table data, click on the column heading you want to use to sort the data:

- A triangle indicates ascending order.
- An upside-down triangle indicates descending order.
- No triangle indicates that the data is not sorted.

Step 3 To delete a job, select it, then click **Delete Email Job**.

Step 4 To view an email job, select it, then click **View Email Job**. (See [Viewing Email Job Details, page 5-31](#).)

Step 5 To edit a job, select it, then click **Edit Email Job**. The email appears and allows you to change any of the entries. (See [Emailing a Report, page 5-28](#) for more information.)

Viewing Email Job Details

The following tables are displayed in a window when you select a job in **Reports** > **Scheduled Email Jobs**, then click **View Email Job**.

Report Properties

Column	Description
User Name	The name of the user who scheduled the job.
Report Type	The report type.
Report Name	The report name.

Email Properties

Column	Description
To	The username of the person to whom the report is being emailed.
Cc	The username of the person to whom the report is being copied.
Subject	The email subject.
Format	The format in which the report is being emailed.
Body	The text entered into the body of the email.

Schedule Properties

Column	Description
Email Job Name	The name of the email job.
Start Date	The date the report is emailed.
Frequency	The frequency with which the report is to be emailed.