



## Using Reports

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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**

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

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- **Wireless Clients**—See [Displaying Wireless Client Reports](#), page 4-1
- **Current**—See [Displaying Current Reports](#), page 4-6
- **Trends**—See [Displaying Trends](#), page 4-21
- **Scheduled Email Jobs**—See [Scheduling Email Jobs](#), page 4-29

## 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 5-58](#).

**Note**


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Your login determines whether you can use this option.

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Following are the report types you can view:

- Client Detail Report—See [Displaying a Client Detail Report, page 4-2](#)
- Client Statistics Report—See [Displaying a Client Statistics Report, page 4-3](#)
- Client Historical Association Report—See [Displaying a Client Historical Association Report, page 4-5](#)

## 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**


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

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- 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 4-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)

## 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 4-1 Client Statistics Report**

| <b>Column</b>                   | <b>Description</b>   |
|---------------------------------|--|
| 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 4-1 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 4-28](#).)

**Step 9** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## 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.<br><br>Click on this link to view the AP Summary Report and the Fault Summary.<br><br>For more information, see <a href="#">Displaying an AP Summary Report, page 4-11</a> . |
| 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.<br><br>For more information, see <a href="#">Date and Time Display on the WLSE, page 1-2</a> .  |

- 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 4-28](#).)
- Step 10** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## 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 5-58](#).

**Note**

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Your login determines whether you can use this option.

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Following are the report types you can view:

- Access Points and Bridges
  - Group Report—See [Displaying a Group Report](#), page 4-7
  - Group Security Report—See [Displaying a Group Security Report](#), page 4-9
  - Summary Report—See [Displaying an AP Summary Report](#), page 4-11
  - Detailed Report—See [Displaying a Detailed Report](#), page 4-13
  - Current Client Association—See [Displaying a Current Client Association Report](#), page 4-15
  - EAP Authentication Report—See [Displaying an EAP Authentication Report](#), page 4-16
- Switches
  - Switch Summary Report—See [Displaying a Switch Summary Report](#), page 4-17
  - AP and Bridge Connected to Switch Report—See [Displaying an AP and Bridge Connected to Switch Report](#), page 4-18
- Routers
  - Router Summary Report—[Displaying a Router Summary Report](#), page 4-19
  - AP and Bridge Connected to Router Report—See [Displaying an AP and Bridge Connected to Router Report](#), page 4-20

## Displaying a Group 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 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.<br>Click to view a detailed report. See <a href="#">Displaying a Detailed Report, page 4-13</a> .            |
| AP IP Address                    | The IP address of the access point.<br>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.<br>For more information, see <a href="#">Viewing Fault Details, page 2-6</a> .                            |
| Timestamp                        | The time the access point's state last changed.<br>For more information, see <a href="#">Date and Time Display on the WLSE, page 1-2</a> . |

- 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 4-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)
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## Displaying a Group Security 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 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 4-2 Group Security Report**

| Column                                 | Description   |
|--|---|
| AP Name                                | The name of the device.<br>Click to view the AP Detailed Report, Fault Summary, and the EAP Authentication Report.<br>For more information, see <a href="#">Naming Guidelines</a> , page A-1. |
| AP IP Address                          | The IP address of the device.<br>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 4-2 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.<br>For more information, see <a href="#">Viewing Fault Details, page 2-6</a> .                                |
| Link to EAP Authentication Report | Click to view the EAP Authentication report.<br>For more information, see <a href="#">Displaying an EAP Authentication Report, page 4-16</a> . |
| Timestamp                         | The time the fault was reported.<br>For more information, see <a href="#">Date and Time Display on the WLSE, page 1-2</a> .                    |

**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 4-28](#).)

**Step 7** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## 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 4-3 AP Summary Report**

| Column                           | Description   |
|----------------------------------|---|
| Name                             | The system name for the device.   |
| Timestamp                        | The time the fault was reported.<br>For more information, see <a href="#">Date and Time Display on the WLSE, page 1-2</a> . |
| MAC Address                      | The device's MAC address.   |
| IP Address                       | The device's IP address.<br>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 4-3 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.<br>For more information, see <a href="#">Displaying a Detailed Report, page 4-13</a> .                        |
| Link to the Association Report    | Click to see associations.<br>For more information, see <a href="#">Displaying a Current Client Association Report, page 4-15</a> . |
| 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 4-28](#).)

**Step 6** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## 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 4-4 Detailed Report**

| Column                           | Description  |
|----------------------------------|--|
| System Name                      | The system name for the device.  |
| Timestamp                        | The time the device's state last changed.<br>For more information, see <a href="#">Date and Time Display on the WLSE, page 1-2</a> . |
| MAC Address                      | The device's MAC address.  |
| IP Address                       | The device's IP address.<br>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 4-4 Detailed Report (continued)**

| <b>Column</b>                                | <b>Description</b>  |
|--|---|
| 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.<br><br>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 4-4 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 4-16](#).

**Step 5** To export the report, click **Export**. (See [Exporting a Report, page 4-28](#).)

**Step 6** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## 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 4-5** *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.<br>For more information, see <a href="#">Date and Time Display on the WLSE, page 1-2</a> . |
| 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 4-28](#).)

**Step 7** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## 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 4-6 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 4-28.)

**Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)

## 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 4-7 Switch Summary Report**

| Column                              | Description   |
|-------------------------------------|---|
| System Name                         | The switch name.  |
| IP Address                          | The switch IP address or hostname.  |
| Status (Fault)                      | The fault status.<br>Click for details. For more information, see <a href="#">Viewing Fault Details, page 2-6</a> .                 |
| 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.<br>For more information, see <a href="#">Displaying an AP and Bridge Connected to Switch Report, page 4-18</a> . |

**Step 5** To export the report, click **Export**. (See [Exporting a Report, page 4-28](#).)

**Step 6** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## Displaying an AP and Bridge Connected to Switch 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 **AP and Bridge Connected to Switch Report**.

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

**Table 4-8 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.<br><br>Click for details. For more information, see <a href="#">Viewing Fault Details, page 2-6</a> . |

**Step 5** To export the report, click **Export**. (See [Exporting a Report, page 4-28](#).)

**Step 6** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## 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 4-9 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 4-28.](#))

**Step 6** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28.](#))

## Displaying an AP and Bridge Connected to Router 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 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.<br><br>Click for details. For more information, see <a href="#">Viewing Fault Details, page 2-6</a> . |

**Step 5** To export the report, click **Export**. (See [Exporting a Report, page 4-28](#).)

**Step 6** To email the report, click **Email Report**. (See [Emailing a Report, page 4-28](#).)

## 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 5-58](#).



### 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 4-22](#).
- Group Performance Report: Number of Associations—See [Displaying a Group Performance Report: Ethernet Utilization, page 4-23](#).
- AP and Bridge RF Transmission Statistics—See [Displaying an AP and Bridge RF Transmission Statistics, page 4-24](#).

- AP and Bridge Ethernet Transmission Statistics—See [Displaying an AP and Bridge Ethernet Transmission Statistics](#), page 4-25.
- AP and Bridge Performance: Graph—See [Displaying an AP and Bridge Performance: Graph](#), page 4-26.
- AP and Bridge Performance: Tabular—See [Displaying an AP and Bridge Performance: Tabular](#), page 4-27.

## 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 4-28.)
- Step 8** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)

## 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 4-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)
- 

## Displaying an AP and Bridge RF 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 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.<br>The y-axis displays the number of packets transmitted per second.      |
| Receive Rate  | The x-axis displays the time intervals.<br>The y-axis displays the number of packets received per second.         |
| Packet Errors | The x-axis displays the time intervals.<br>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 4-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)
-

## 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.<br>The y-axis displays the number of packets transmitted per second.      |
| Receive Rate  | The x-axis displays the time intervals.<br>The y-axis displays the number of packets received per second.         |
| Packet Errors | The x-axis displays the time intervals.<br>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 4-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)
-

## Displaying an AP and Bridge Performance: Graph

### 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 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.<br>The y-axis displays the number of client associations           |
| RF Utilization         | The x-axis displays the time intervals.<br>The y-axis displays the percent of radio frequency utilization. |
| Ethernet Utilization   | The x-axis displays the time intervals.<br>The y-axis displays the percent of Ethernet utilization.        |

- Step 6** To export the report, click **Export**. (See [Exporting a Report](#), page 4-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)
-

## 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 4-28.)
- Step 7** To email the report, click **Email Report**. (See [Emailing a Report](#), page 4-28.)

## 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.<br>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.<br>For more information, see <a href="#">Naming Guidelines, page A-1</a> . |
| 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 4-29](#)

## 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 5-58](#).

**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.<br>For more information, see <a href="#">Naming Guidelines, page A-1</a> . |
| 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 4-31](#).)

**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 4-28](#) 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**

| <b>Column</b>  | <b>Description</b>                                    |
|----------------|---|
| 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. |