

## Configuring 802.1X Authentication (J-Web Procedure)

To configure 802.1X settings using J-Web:

1. From the **Configure** menu, select **Security > 802.1X**.

The 802.1X screen displays a list of interfaces, whether 802.1X security has been enabled, and the assigned port role.

When you select a particular interface, the Details section displays 802.1X details for the selected interface.

2. Click one:
  - **RADIUS Servers**—Specifies the RADIUS server to be used for authentication. Select the checkbox to select the required server. Click **Add** or **Edit** to add or modify the RADIUS server settings. Enter information as specified in Table 1 on page 1.
  - **Exclusion List** — Excludes hosts from the 802.1X authentication list by specifying the MAC address. Click **Add** or **Edit** in the Exclusion list screen to include or modify the MAC addresses. Enter information as specified in Table 2 on page 2.
  - **Edit**— Specifies 802.1X settings for the selected interface
    - **Apply 802.1X Profile**—Applies a pre-defined 802.1X profile based on the port role. If a message appears asking if you want to configure a RADIUS server, click **Yes**.
    - **802.1X Configuration**—Configures custom 802.1X settings for the selected interface. If a message appears asking if you want to configure a RADIUS server, click **Yes**. Enter information as specified in Table 1 on page 1. To configure 802.1X settings enter information as specified in Table 3 on page 2.
  - **Delete** — Deletes 802.1X authentication configuration on the selected interface.

**Table 1: RADIUS Server Settings**

| Field              | Function  | Your Action  |
|--------------------|---|--|
| IP Address         | Specifies the IP address of the server.                 | Enter the IP address in dotted decimal notation.                 |
| Password           | Specifies the login password.                           | Enter the password.  |
| Confirm Password   | Verifies the login password for the server.             | Reenter the password.  |
| Server Port Number | Specifies the port with which the server is associated. | Type the port number.  |
| Source Address     | Specifies the source address of the server.             | Type the server's 32-bit IP address, in dotted decimal notation. |

**Table 1: RADIUS Server Settings** *(continued)*

| Field          | Function   | Your Action                   |
|----------------|--|-------------------------------|
| Retry Attempts | Specifies the number of login retries allowed after a login failure.               | Type the number.              |
| Timeout        | Specifies the time interval to wait before the connection to the server is closed. | Type the interval in seconds. |

**Table 2: 802.1X Exclusion List**

| Field                                 | Function   | Your Action   |
|---------------------------------------|--|---|
| MAC Address                           | Specifies the MAC address to be excluded from 802.1X authentication.                                 | Enter the MAC address.  |
| Exclude if connected through the port | Specifies that the host can bypass authentication if it is connected through a particular interface. | Select to enable the option. Select the port through which the host is connected. |
| Move the host to the VLAN             | Specifies moving the host to a specific VLAN once the host is authenticated.                         | Select to enable the option. Select the VLAN from the list.                       |

**Table 3: 802.1X Port Settings**

| Field                            | Function  | Your Action  |
|----------------------------------|---|--|
| <b>Supplicant Mode</b>           |   |  |
| Supplicant Mode                  | Specifies the mode to be adopted for supplicants: <ul style="list-style-type: none"> <li>■ Single — allows only one host for authentication.</li> <li>■ Multiple — allows multiple hosts for authentication. Each host is checked before being admitted to the network.</li> <li>■ Single authentication for multiple hosts — Allows multiple hosts but only the first is authenticated.</li> </ul> | Select the required mode.  |
| <b>Authentication</b>            |   |  |
| Enable re-authentication         | Specifies enabling reauthentication on the selected interface.  | 1. Select to enable reauthentication.<br>2. Enter the timeout for reauthentication in seconds.   |
| Action on authentication failure | Specifies the action to be taken in case of an authentication failure.  | Select one: <ul style="list-style-type: none"> <li>■ Move to the Guest VLAN — Select the VLAN to move the interface to.</li> <li>■ Deny — the host is not permitted access.</li> </ul> |

**Table 3: 802.1X Port Settings** *(continued)*

| Field                 | Function   | Your Action   |
|-----------------------|--|---|
| Timeouts              | Specifies timeout values for each action.  | Enter the value in seconds for: <ul style="list-style-type: none"><li>■ Port waiting time after an authentication failure</li><li>■ EAPOL re-transmitting interval</li><li>■ Max. EAPOL requests</li><li>■ Maximum number of retries</li><li>■ Port timeout value for the response from the supplicant</li><li>■ Port timeout value for the response from the RADIUS server</li></ul> |
| <hr/>                 |  |   |
| <b>Related Topics</b> | <ul style="list-style-type: none"><li>■ Configuring 802.1X Authentication (CLI Procedure)</li><li>■ Example: Setting Up 802.1X for Single Supplicant or Multiple Supplicant Configurations on an EX-series Switch</li><li>■ Understanding 802.1X Authentication on EX-series Switches</li><li>■ 802.1X for EX-series Switches Overview</li></ul> |   |

