



CHAPTER 6

Using WLSM Templates

The WLSE allows you to view, create, copy, edit, and delete WLSM (Wireless LAN Services Module) configuration templates and apply them.

The topics covered are:

- [What is a Configuration Template?, page 6-1](#)
- [Viewing the Existing Templates, page 6-2](#)
- [Creating a Template, page 6-2](#)
- [Copying a Template, page 6-2](#)
- [Editing a Template, page 6-3](#)
- [Deleting a Template, page 6-3](#)
- [Importing a Template, page 6-4](#)
- [Exporting a Template, page 6-5](#)
- [Template Choices, page 6-6](#)

Related Topics

- [Using Wizard Templates, page 7-1](#)
- [Managing Configuration Jobs, page 8-7](#)

What is a Configuration Template?

You can think of a configuration template as a configuration update file for an WLSM. This file might contain the update for only one parameter or a complete configuration.

WLSM-based templates are stored as text files containing IOS commands.

You can use the **Configure > Templates** option to:

- View existing templates—See [Viewing the Existing Templates, page 6-2](#)
- Create a configuration template—See [Creating a Template, page 6-2](#)
- Copy an existing template—See [Copying a Template, page 6-2](#)
- Edit an existing template—See [Editing a Template, page 6-3](#)
- Delete a template—See [Deleting a Template, page 6-3](#)
- Import a template—See [Importing a Template, page 6-4](#)

- Export a template—[Exporting a Template, page 6-5](#)

Viewing the Existing Templates

Use this option to create a configuration template.



Note

Your login determines whether you can use this option.

Procedure

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- Step 1** Select **Configure > Templates**. The Templates dialog box appears.
- Step 2** From the list, select the type of templates you want to display, then click Filter.
- Step 3** The selected template types are displayed in the Existing Templates table.
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Creating a Template

Use this option to create a configuration template.



Note

Your login determines whether you can use this option.

Procedure

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- Step 1** Select **Configure > Templates**. The Templates dialog box appears.
- Step 2** From the list, select **WLSM**.
- Step 3** Enter a unique name. See [Naming Guidelines, page B-1](#) for details.
- Step 4** Click **New**. The window refreshes with the Template Creation menu in the left pane and the Template Name dialog box in the right pane.
- Step 5** Select the choices in the left pane to create a configuration template. For a description, see [Template Choices, page 6-6](#).
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Copying a Template

Use this option to copy a configuration template that you can use as a base for another template.



Note

Your login determines whether you can use this option.

Procedure

- Step 1** Select **Configure > Templates**. The Templates dialog box appears.
 - Step 2** Select the template you want to copy from the Existing Templates table, then click **Copy**. A dialog box appears asking you to enter a name for the copy.
 - Step 3** Enter a unique name. See [Naming Guidelines, page B-1](#) for details.
 - Step 4** Click **OK**. The Templates window refreshes and the new name appears in the Existing Templates table.
 - Step 5** Select the template, then click **Edit**. See [Editing a Template, page 6-3](#).
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Editing a Template

Use this option to edit a configuration template.

**Note**

Your login determines whether you can use this option.

Procedure

- Step 1** Select **Configure > Templates**. The Templates dialog box appears.
 - Step 2** Select the template you want to edit from the Existing Templates table, then click **Edit**. The window refreshes with Template Creation menu in the left pane and the Template Name dialog box in the right pane.
 - Step 3** Select the choices in the Template Menu to create a configuration template. For a description, see [Template Choices, page 6-6](#).
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Deleting a Template

Use this option to delete a configuration template.

**Note**

Your login determines whether you can use this option.

Procedure

- Step 1** Select **Configure > Templates**. The Templates dialog box appears.
- Step 2** Select the template you want to delete from the Existing Templates table, then click **Delete**. A window appears asking if you want to delete the template.



Note You cannot delete a template if it used in a scheduled job.

- Step 3** Click **OK** to delete it.

Importing a Template

Use this option to import a configuration to the WLSE, either from a file or from a device. You can import files from devices that are not managed by the WLSE.

When you import a configuration from a WLSM, the imported configuration options are displayed in the Custom Values template screen.



Note Your login determines whether you can use this option.

Procedure

- Step 1** Select **Configure > Templates**. The Templates dialog box appears.
- Step 2** Click **Import**. The Import Template window appears and varies depending upon which type you selected.
- Step 3** Complete the following:

Field	Description
Template Name	If you are importing from a file, enter a new name for the template or leave the entry blank to use the imported template name. If you are importing from a device, you must enter a template name.
Description	Enter a description for the template. Do not click the Enter key at the end of the description; it will generate an error.
From file	Enter the template filename or browse to find the file, then click Import .
From device (IP Address)	Enter a device name or IP address, then click Import .

Field	Description
Non-IP-Identity	Select this option if you do not want to download identity parameters, such as IP address. Some parameters are ignored using this type of import. The downloaded configuration parameters are not a full representation of the configuration but an optimal representation.
Full	Select this option to import a full configuration from the WLSM. This type of import includes the identity parameters, such as sysname, IP address, etc. When using this option, it is recommended you delete all the custom key values from the imported template before applying the template to any device.
Device HTTP Credentials	
User Name	If the device is not managed by the WLSE, or if the device is managed but the credentials have not been set, enter the username on the WLSM.
User Password	If the device is not managed by the WLSE, enter the user password on the WLSM.

Step 4 To import another template, click **Back** and go to [Step 2](#).

Step 5 When you are finished, click **Done**.

Step 6 View the template you imported by selecting **Configure > Templates** and selecting it in the Existing Templates table.

Exporting a Template

Use this option to export a configuration template to your local drive.



Note

Your login determines whether you can use this option.

Procedure

Step 1 Select **Configure > Templates**. The Templates dialog box appears.

Step 2 Select a template name from Existing Templates, then click **Export**. The Export Template window appears.

Step 3 From the list, select the template you want to export, then click **Export**. The Export Template to Desktop window appears with the name of the template.

- Step 4** Right-click on the template name, select **Save As**, and enter the location to save the template.
- Step 5** Click **Done**.
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Template Choices

When you create or edit a WLSM configuration template, the following choices appear in the left pane of the Templates window:

1. **Template Name**—See [Naming the Template, page 6-6](#).
2. **Template Categories**



Note Any or all of the template categories can be completed in any order.

- **Server Manager**—See [Using the Server Manager, page 6-7](#).
 - **Custom Values**—See [Configuring Custom Values, page 6-10](#).
3. **Preview**—See [Previewing the Template, page 6-11](#).
 4. **Save**—See [Saving the Template, page 6-11](#).

Naming the Template

This option enables to you to name the template.

Procedure

Note Clicking **Clear** removes all the entries you have made so far and returns you to the Template Name page. Clicking **Reset** clears only the entries you have made on that page and restores the defaults, if any were set.

Step 1 Select **Template Name**. The Template Name dialog box appears:

Field	Description
Template Name	Enter a name for the template. See Naming Guidelines, page B-1 .
Description	Enter a description of the purpose of the template. See Naming Guidelines, page B-1 . Do not click the Enter key at the end of the description; it will generate an error.

Step 2 Select a template category. For additional information, see [2.Template Categories, page 6-6](#).

Using the Server Manager

Use this option to enter authentication settings. The RADIUS server on our network uses EAP to provide authentication service for wireless client devices.

You can:

- Add a server manager—See [Adding a Server Manager, page 6-7](#).
- Delete a server manager—See [Deleting a Server Manager, page 6-9](#).

Adding a Server Manager

Procedure

Step 1 Select **Server Manager**. The Server Manager dialog box displays in the right pane:



Note Clicking **Clear** removes all the entries you have made so far and returns you to the Template Name page. Clicking **Reset** clears only the entries you have made on that page and restores the defaults, if any were set.

Step 2 Complete the following:

Table 6-1 Adding Server Manager

Field	Description
Radius Servers	
Current Server List	Lists the servers that are currently configured. To delete a server from the list, select it, then click Delete .
Server	Enter the hostname or IP address for the RADIUS server.
Authentication Port	Enter the port number your server uses for authentication.
Accounting Port	Enter the port number your server uses for accounting.
Shared Secret	Enter the shared secret used by your server.

Step 3 Click **Save**. The server is added to the Current Server List.

Step 4 Select one of the following:

- **Preview** to see your changes before you apply them. See [Previewing the Template, page 6-11](#).
- **Save** to save the template. See [Saving the Template, page 6-11](#).
- Another template category to configure more options. See [2.Template Categories, page 6-6](#).

Deleting a Server Manager

Step 1 Complete the following:

Table 6-2 *Deleting Server Manager*

Field	Description
Delete Servers	
Delete Server List	Lists the servers to be deleted. To remove a server from the list, select it, then click Delete .
Delete Server	Enter the hostname or IP address for the RADIUS server to be deleted.
Authentication Port	Enter the port number the server uses for authentication.
Accounting Port	Enter the port number the server uses for accounting.

Step 2 Click **Add Server to Delete List**. The server appears in the Delete Server List.

- Step 3** Select one of the following:
- **Preview** to see your changes before you apply them. See [Previewing the Template, page 6-11](#).
 - **Save** to save the template. See [Saving the Template, page 6-11](#).
 - Another template category to configure more options. See [2.Template Categories, page 6-6](#).
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Configuring Custom Values

This option enables you to enter custom values that might not be available in the Template Menu. It also allows you to quickly enter a value, if you know the exact value you want to change, instead of going through the menu.



Note Any custom values you configure, are applied to the device only after all the other template configurations have been applied.



Note This option should be used only by advanced users.

Custom values are not validated. However, if a configuration contains a combination of custom values and values entered using the templates, the values entered using the templates are validated; only the values entered with the custom configuration are not.

Procedure

- Step 1** Select **Custom Values**. The Custom IOS Commands dialog box appears.



Note Clicking **Clear** removes all the entries you have made so far and returns you to the Template Name page. Clicking **Reset** clears only the entries you have made on that page and restores the defaults, if any were set.



Note If the custom value you enter is the same as an existing one in the Template Menu, the custom value will override the value in the menu.

- Step 2** Enter the IOS commands.

- Step 3** Select one of the following:

- **Preview** to see your changes before you apply them. See [Previewing the Template, page 6-11](#).
 - **Save** to save the template. See [Saving the Template, page 6-11](#).
 - Another template category to configure more options. See [2.Template Categories, page 6-6](#).
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Previewing the Template

Procedure

- Step 1** Click **Preview**. A Command Preview window displays the configuration choices you have made to the template.
- Step 2** Click **Save**. See [Saving the Template, page 6-11](#).
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Saving the Template

When you save a template, the WLSE first validates the template and displays the valid Device Type (WLSM), and the corresponding Device Version(s) for that template.

Procedure

- Step 1** Click **Save** in the left pane to complete creating a template. The Save dialog box appears in the right pane.
- Step 2** Click **Save** to create the template.
- Step 3** Do one of the following:
- Click **Yes** if you want to save the template then schedule a configuration job.
The window refreshes to the Job Creation window and a job is automatically created for you using the template name and a random number. See [Selecting Devices, page 8-14](#).
 - Click **No** if you want to save the template only.
 - Click **Cancel** to cancel the operation and then display the previous screen.
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