



# Importing a Device Package

- [Importing a Device Package, page 1](#)

## Importing a Device Package

### About the Device Package

The Application Policy Infrastructure Controller (APIC) requires a device package to configure and monitor service devices. A device package manages a class of service devices and provides the APIC with information about the devices so that the APIC knows what the device is and what the device can do. A device package is a `zip` file that contains the following parts:

Device specification	<p>An XML file that defines the following properties:</p> <ul style="list-style-type: none"><li>• Device properties:<ul style="list-style-type: none"><li>◦ <b>Model</b>—Model of the device.</li><li>◦ <b>Vendor</b>—Vendor of the device.</li><li>◦ <b>Version</b>—Software version of the device.</li></ul></li><li>• Functions provided by a device, such as load balancing, content switching, and SSL termination.</li><li>• Interfaces and network connectivity information for each function.</li><li>• Device configuration parameters.</li><li>• Configuration parameters for each function.</li></ul>
Device script	<p>A Python script that performs the integration between the APIC and a device. The APIC events are mapped to function calls that are defined in the device script.</p>

Function profile	A profile of parameters with default values that are specified by the vendor. You can configure a function to use these default values.
Device-level configuration parameters	A configuration file that specifies parameters that are required by a device at the device level. The configuration can be shared by one or more of the graphs that are using the device.

You can create a device package or it can be provided by a device vendor or Cisco.

## Example of Installing a Device Package

When you create a device package, you need to install it on the system.

The following is an example of installing a device package:

\$ scp AcmeADC.zip admin@10.10.10.10:	Upload the package to the system.
\$ ssh admin@10.10.10.10	Log in as a provider administrator.
admin@apic:~> services install AcmeADC.zip	Install the device package.
admin@apic:~> rm AcmeADC.zip	(Optional) Clean up the uploaded file. <b>Note</b> This will not uninstall the package.

## Notes for Installing a Device Package with REST

- A device package can be installed using an HTTP or HTTPS POST.
- If HTTP is enabled on APIC, the URL for the POST is "http://10.10.10.10/ppi/node/mo/.xml".
- If HTTPS is enabled on APIC, the URL for the POST is "https://10.10.10.10/ppi/node/mo/.xml".
- The message must have a valid session cookie.

See the *Cisco APIC REST API User Guide* for information about obtaining a cookie.

- The body of the POST should contain the device package being uploaded. Only one package is allowed in a POST.

## Importing a Device Package

You can import a device package into the Application Policy Infrastructure Controller (APIC) so that the APIC knows what devices you have and what the devices can do.

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- Step 1** Log in as the provider administrator.
  - Step 2** On the menu bar, click the **L4-L7 Services** tab. The **Quick Start** window of the **INVENTORY** submenu tab appears.
  - Step 3** On the submenu bar, click the **PACKAGES** tab. The **Quick Start** window of the **PACKAGES** submenu tab appears.
  - Step 4** In the **Navigation** pane, click **Device Types**. The **Device Types** window appears.
  - Step 5** Choose **Actions > Import Device Package**. The **IMPORT DEVICE PACKAGE** dialog box appears.
  - Step 6** In the **File Name** field, specify a device package that was either provided by the vendor or that you had previously created. For information about creating device packages, see *Cisco APIC Layer 4 to Layer 7 Device Package Development Guide* . As an example, the file `AcmeADC.zip`, which contains the device package, is selected and uploaded.
  - Step 7** Click **Submit**. The **IMPORT DEVICE PACKAGE** dialog box closes. A confirmation message appears if your package was successfully uploaded.
  - Step 8** Refresh the **Device Types** window in the APIC. The new device appears in the list of device types.
  - Step 9** (Optional) In the **Navigation** pane, expand **Device Types** to see the function parameters for the device package, and choose one of the functions.
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