



# HOW TO ENABLE SERIAL CONSOLE ACCESS ON CATALYST 8000V ROUTERS IN VMANAGE MODE

- In Cisco SD-WAN, Catalyst 8000v Routers do not accept Console connections by default
- This doc outlines the steps to enable Console access on Cat8Kv Routers in vManage Mode

## Step 1: Edit the Device Template attached to the cEdge Routers

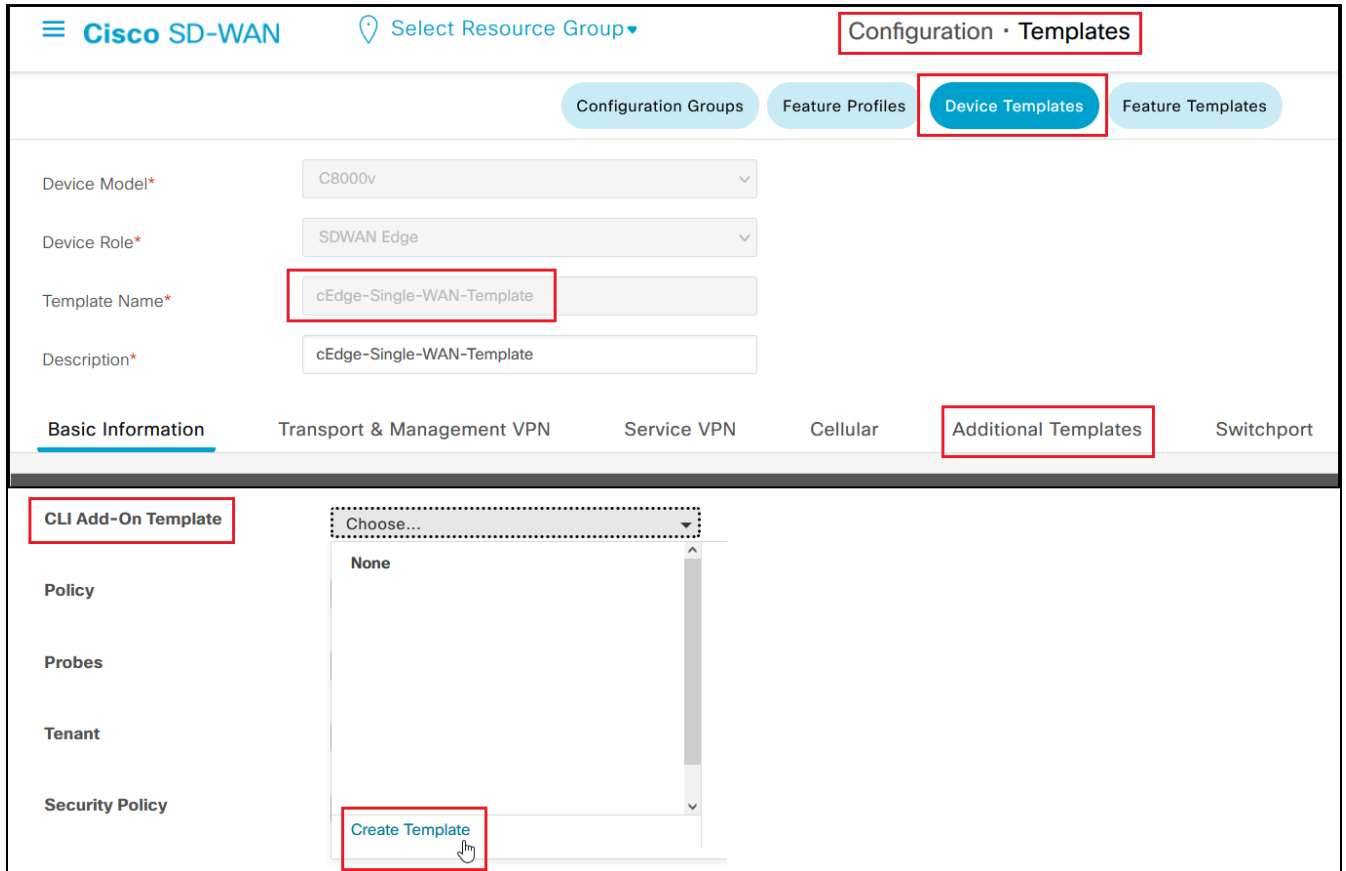
- From the vManage GUI, go to **Configuration > Templates > Device Templates**
- Edit the Device Template attached to the cEdge Routers (C8000v's)

The screenshot shows the Cisco SD-WAN vManage GUI. The top navigation bar includes the Cisco SD-WAN logo, a 'Select Resource Group' dropdown, and a 'Configuration > Templates' breadcrumb. Below the breadcrumb, there are tabs for 'Configuration Groups', 'Feature Profiles', 'Device Templates' (which is selected and highlighted with a red box), and 'Feature Templates'. A search bar is located below the tabs. The main content area displays a table of device templates. The first row, 'cEdge-Single-WAN-Template', is highlighted with a red box. The 'Edit' button for this template is also highlighted with a red box. The table has columns for Name, Description, Type, Device Model, Device Role, Resource Group, Feature Templates, Draft Mode, and Devices Attached. The 'cEdge-Single-WAN-Template' row shows it is a Feature template for C8000v routers, with 15 feature templates and 2 devices attached. The 'vEdge-DC-Template' and 'vEdge-Dual-WAN-Template' rows are also visible.

Name	Description	Type	Device Model	Device Role	Resource Group	Feature Templates	Draft Mode	Devices Attached
cEdge-Single-WAN-Template	cEdge-Single-WAN-Template	Feature	C8000v	SDWAN Edge	global	15	Disabled	2
vEdge-DC-Template	vEdge-DC-Template	Feature	vEdge Cloud	SDWAN Edge	global	18	Disabled	2
vEdge-Dual-WAN-Template	vEdge-Dual-WAN-Template	Feature	vEdge Cloud	SDWAN Edge	global	14	Disabled	2

## Step 2: Create a CLI Add-On Template

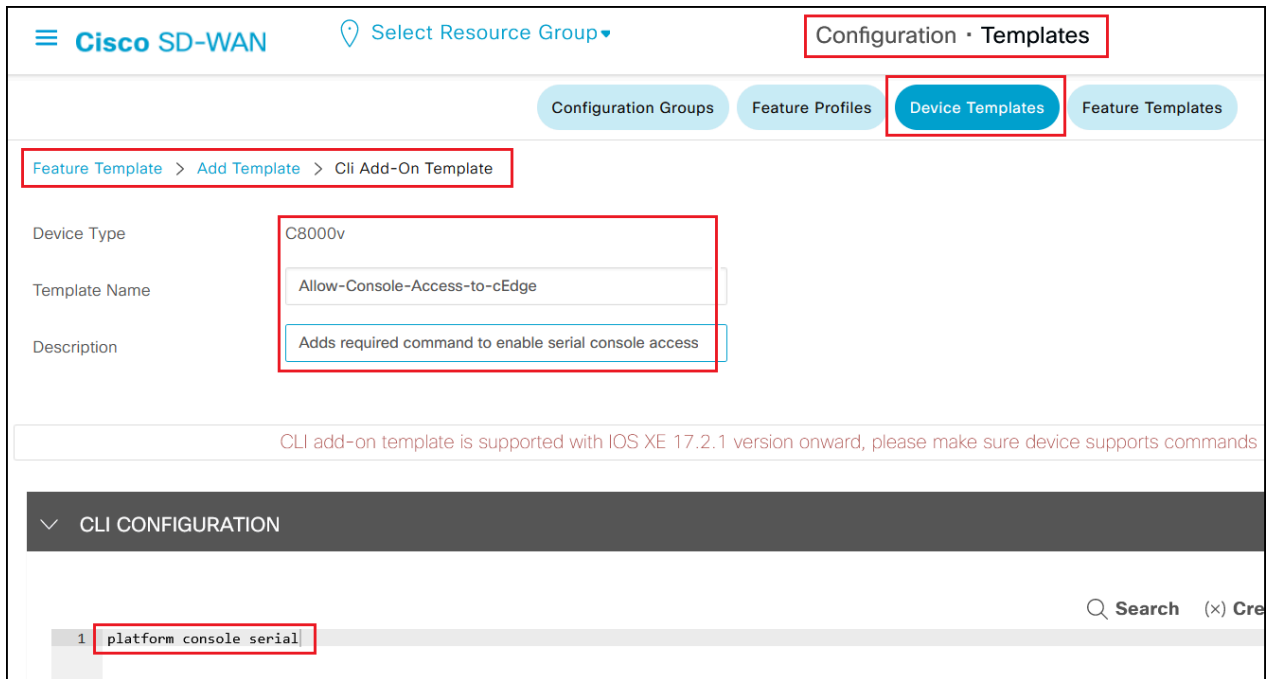
- Click Additional Templates, then under the **CLI Add-On Template**, click the dropdown and **Create Template**



The screenshot shows the Cisco SD-WAN configuration interface. At the top, the 'Configuration · Templates' breadcrumb is highlighted. Below it, the 'Device Templates' tab is selected among 'Configuration Groups', 'Feature Profiles', 'Device Templates', and 'Feature Templates'. The 'Basic Information' tab is active, showing fields for 'Device Model' (C8000v), 'Device Role' (SDWAN Edge), 'Template Name' (cEdge-Single-WAN-Template), and 'Description' (cEdge-Single-WAN-Template). The 'Additional Templates' tab is selected, showing a list of templates with a 'CLI Add-On Template' section. A dropdown menu is open, showing 'None' as the selected option. A 'Create Template' button is visible at the bottom of the dropdown menu.

## Step 3: Add the "platform console serial" command

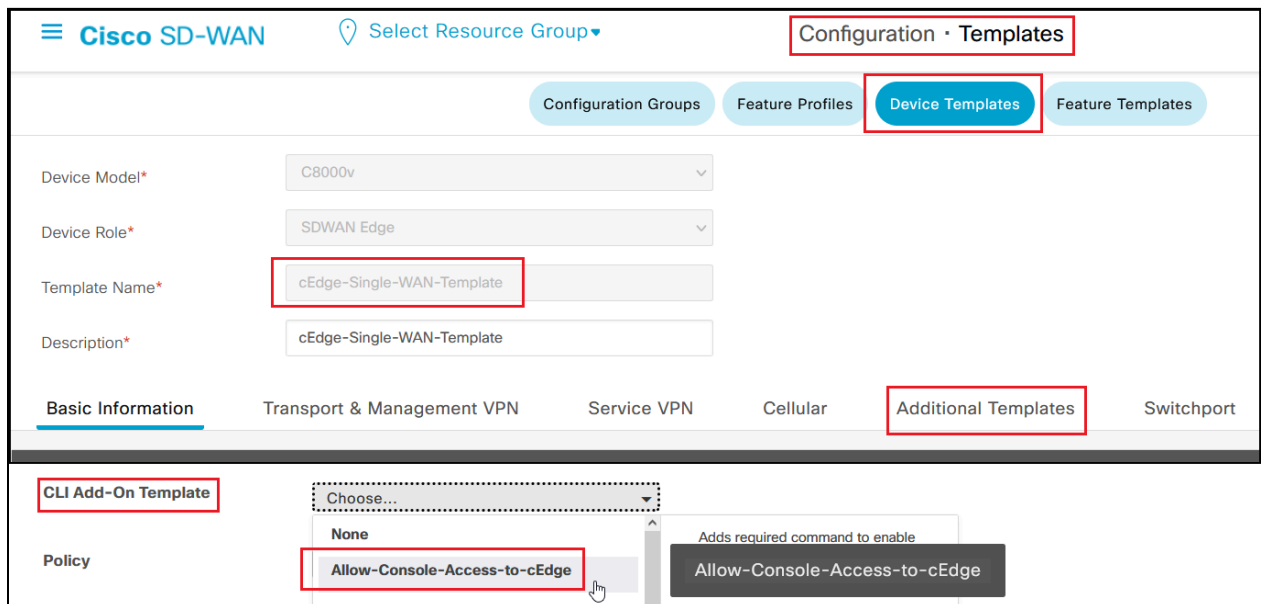
- Give the **CLI Add-On Template** a Name and optional Description
- Under **CLI CONFIGURATION** add the command **platform console serial** and save



The screenshot shows the Cisco SD-WAN Configuration - Templates page. The breadcrumb trail is **Feature Template > Add Template > CLI Add-On Template**. The **Device Type** is set to **C8000v**. The **Template Name** is **Allow-Console-Access-to-cEdge** and the **Description** is **Adds required command to enable serial console access**. A warning message states: "CLI add-on template is supported with IOS XE 17.2.1 version onward, please make sure device supports commands". Under the **CLI CONFIGURATION** section, a single command **platform console serial** is entered in the list.

## Step 4: Apply the CLI Add-On Template

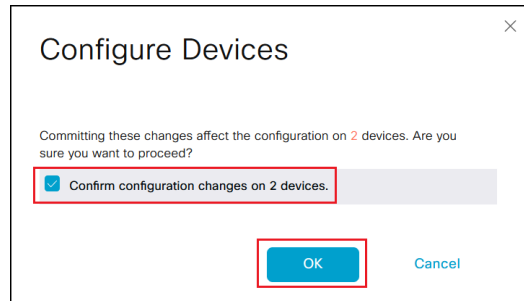
- Click the dropdown next to CLI Add-On Template and choose the template you created



The screenshot shows the Cisco SD-WAN Configuration - Templates page. The breadcrumb trail is **Configuration - Templates**. The **Device Model** is **C8000v** and the **Device Role** is **SDWAN Edge**. The **Template Name** is **cEdge-Single-WAN-Template** and the **Description** is **cEdge-Single-WAN-Template**. The **Additional Templates** tab is selected. Under the **CLI Add-On Template** section, the **Policy** dropdown is open, showing the option **Allow-Console-Access-to-cEdge** selected. A tooltip for this option reads: "Adds required command to enable Allow-Console-Access-to-cEdge".

## Step 5: Push the configuration changes to the cEdge Routers

- Click through the configuration deployment screens and confirm the changes on the devices

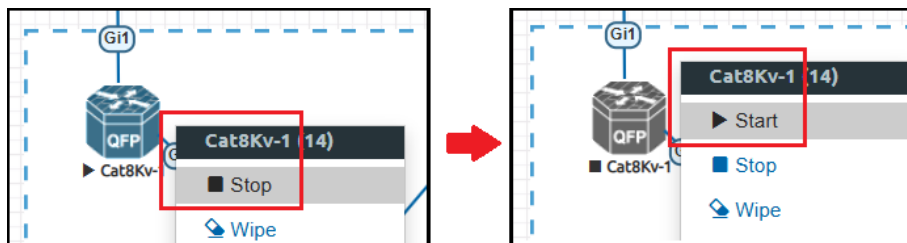


- You should see the **Status** of **Success** once complete

Cisco SD-WAN <span>Select Resource Group ▼</span>					
Push Feature Template Configuration   <span>Validation Success</span>					
Total Task: 2   Success : 2					
<input type="text" value="Search"/>					
>	Status	Message	Chassis Number	Device Model	Hostname
>	Success	Template successfully attached to device	C8K-5E3EC1DF-65...	C8000v	Cat8Kv-2
>	Success	Template successfully attached to device	C8K-8F6ACEDE-6C...	C8000v	Cat8Kv-1

## Step 6: Reboot the cEdge Routers

- In the virtual topology, right-click the **Cat8Kv-1** and **Cat8Kv-2** routers, **Stop** them - wait a few seconds for the operation to complete - then **Start** them again



## Step 7: Log in to the cEdge Routers via the Console

- Double-click the cEdge routers in the virtual topology to open the console window
- Login credentials are listed in the virtual topology

```
Restricted UseUn authorised Logins tracked

User Access Verification

Username: admin
Password: Clsc0123!

Cat8Kv-2>enable
Cat8Kv-2#show ip int brief
```

Interface	IP-Address	OK?	Method	Status	Protocol
GigabitEthernet1	150.101.2.1	YES	other	up	up
GigabitEthernet2	unassigned	YES	unset	up	up
GigabitEthernet2.101	192.168.101.102	YES	other	up	up
GigabitEthernet2.169	169.254.111.2	YES	other	up	up
GigabitEthernet3	unassigned	YES	unset	up	up
GigabitEthernet4	unassigned	YES	unset	up	up
Sdwan-system-intf	172.17.102.1	YES	unset	up	up
vmanage_system	unassigned	YES	unset	up	up
Loopback65528	192.168.1.1	YES	other	up	up
Loopback65529	11.1.102.1	YES	other	up	up
NVI0	unassigned	YES	unset	up	up
Tunnel1	150.101.2.1	YES	TFTP	up	up

**Note:** cEdge Routers in vManage mode do not support configuration changes from the CLI:

```
Cat8Kv-2#config t
This command is not supported in Controller mode.
Please use the equivalent command - config-transaction

Cat8Kv-2#config-transaction

admin connected from 127.0.0.1 using console on Cat8Kv-2
Cat8Kv-2(config)# interface Tunnel1
Cat8Kv-2(config-if)# shut
Cat8Kv-2(config-if)# commit
Aborted: 'system is-vmanaged': This device is being managed by vManage, configuration through
CLI is not allowed.
Cat8Kv-2(config-if)#
```