

Switch as a Gateway

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Switch as a Gateway

You can configure the following switches as a wired gateway:

- Cisco Catalyst 9300 Series Switches
- Cisco Catalyst 9400 Series Switches

Configuring a Switch as a Wired Gateway

- **Step 1** In the IoT Service dashboard, choose **IoT Gateways > Wired Gateways**.
- Step 2 Click Add New Gateways.

Figure 1: Adding a New Gateway

■ Cisco DNA Spaces		 0	Θ
IoT Services () IoT Gateways Device Management Device Monitoring	Advanced BLE Gateway Base BLE Gateway		
	Deploy DNA Spaces Gateway to your Cisco Access Points Catalyst 9800 WLC with software version 17.3.1 or above is required. Requires DNAS connector. Currently older WLC(AIROS), eWC, and Meraki are not supported. You need to have APs with bluetooth capabilities, all new WIFI 6 APs 91XX series, 4800 are supported. such as 1815, 2800, 3800 support limited gateway functionality, and may require adding a Cisco bluetooth dongle.		
Wired Gateway Stats			
✗ 0/0 Wired Gateways Deployed	بن 0 All Switches		
Wired Gateway			
Deploy DNA Spaces Gateway to yo	ur Cisco Catalyst Switch Add Wirad Gateway(s)	•	0

Step 3 In the **Deploy Wired Gateways** window that is displayed, select the switch you want to deploy as a wired gateway. (IoT Service configures a compatible switch as a wired gateway.)

Figure 2: Deploy Wired Gateways

Deplo	y Wired Gateways		
	1 Choose Swite	ches	
Choose 1	the Switches that you want to deploy the Wired	l Gateway	
	Switch Name 🔺	IP Address	
	catalyst-9300-qa-1	10.22.243.73	

A switch that is enabled as a wired gateway, can scan for wired sensors using an installedIoX Application .

Step 4 You can review the requested changes and click **Deploy**.

Figure 3: Review Changes

Deploy Wired Gat	teways	×
	Choose Switches 2 Review	
	DEPLOYMENT SUMMARY	
	Following actions will be initiated on the selected Switches. Review your details before deploying the gateway(s) on the selected switches.	
	Wired Gateways	
	1 Switches	
	- Deploy Wired gateway app	
	Ciose Previous	Deploy

After the switch receives the change requests, the switch is queued to be deployed as a wired gateway. You can observe the progress on the displayed deployment status window.

Figure 4: Deployment Status

				×
Deployment Status	i			
O/Ocompleted		O 🗸 Deployed	1 😕 In Progress) × Failed
		As of: Jun 2, 2021 12:30	PM 📿 Refresh (1 Export
			ΞQFind	
Deployed At	OS Version		Deployment Status	Reisor
Jun 2nd, 2021 12:30:00 PM a few seconds ago	Cisco IOS Software [Amsterdam], Catalyst L3 Switch Software (CAT9K_JOSXE), Version 17.3.3,	RELEASE SOFTWARE (fc7)	IN PROGRESS	
n 1 Records		Show Records:	10 💌 1 - 1 <	0 >

You can also check the status of the deployment by clicking the **Wired Gateways** tab and then clicking **Deployment Status** button at the top-right corner.

Figure 5: Deployment Status

=	Cisco	DNA Spaces							0	0
	Home	AP Gateway	Wired Gateway							
	Stats								Deployment State	JS
	×	wired Gateways dep	loyed			1 All Sw	vitches			
	Wired G	ateways (1) 🛛 🗚	II Switches (1)							
	7 Filters	Actions 🗸 Bulk	Request History				As of: Sep 20, 2021	1:47 PM 🥂 Refresh 👌 E	xport 😝 Add New Gatew	vays
	0	Mac Address	Name 🔺	Status	IP Address	IOx App Name	IOx App Version	IOx Last Heard	Last Seen	:
		f8:a7:3a:bb:22:80	catalyst-9300-qa-1	UP	10.22.243.73	cisco_dnas_wired_iox_app	1.0.25	Aug 28th, 2021 07:18:15 AM 23 days ago	Sep 20th, 2021 01:47:04 PM a few seconds ago	
	IOT Ser oT Gateway: Device Mana Device Monif	vices () s sgement toring								

Figure 6: Deployment Status: Summarized view

31	Deploymen	t Status
â 10,	/10	
10 🕑	0 😔	0 🗵
Deployed	In Progress	Failed
View	Detailed St	atus

Uninstall, or Upgrade a Wired Application on a Switch

You can uninstall, or upgrade wired applications on wired gateways. The Cisco Spaces Wired app is one such application.

Before you begin

Ensure that you have configured a switch as an wired gateway.

Step 1 In the Cisco Spaces dashboard, choose **IoT Gateways > Wired Gateways** and click **All Switches.**

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-	E Cisco DNA Spaces		III 🛛 🖯
			IoT Services Help
	Home AP Gateway Wired Gateway		
	Stats		Deployment Status
	№ 1/1 Wired Gateways deployed	🖋 1 All Switches	
	Wired Gateways (1) All Switches (1)		
	\widetilde{Y} Filters Actions \checkmark Bulk Request History	As of: Jun 4, 2021 10:27 AM 📀 Refresh 🖞 Expo	t 🕒 Add New Gateways
	Mac Address Status IOx App Name IOx App Version 18:a7:3a:bb:22:80 I/O cisco_dnas_wired_lox_stpp 1.0.16	IOx Last Heard Last Seen Mode Product ID Serial Number Jun 4th, 2021 10:25:47 AM Jun 4th, 2021 10:26:42 AM - C9300-24U FJIC2511122E	SW Version
	1 Records	Show Records: 50	I-1 < ∅ >
	loT Services 🕜		
	IoT Gateways		
	Device Management		
	Device Monitoring		

Step 2Click the MAC address of the switch to open the Wired Switch window containing the details.Figure 8: Unistalling or Upgrading an IoX Application

≡ Cisc	o DNA Spaces							0	Θ
		Click to details	o open s of a	Wired Device	- 68:27:19:3b:cd:4a				*
Hom	e Devices Groups	wired c	device			As of: J	un 2nd, 2021 02:35:44 PM	0	Refresh
	2005-17-6827193bcd4a	68:27:19:30.00.40	6 days ago	 Wired Device 	Information				
	2002-17-6827193bcd4a	68:27:19:3b:cd:4a	May 27th, 2021 06:01:08 / 6 days ago					[] Ed	it
	0002-17-6827193bcd4a	68:27:19:3b:cd:4a	May 27th, 2021 06:01:18 A 6 days ago	Label Device ID	- 2107-17-6827193bcd4a	Node Mac Address	68:27:19:3b:cd:4a		
	2104-17-6827193bcd4a	68:27:19:3bood:4a	May 27th, 2021 06:01:18 A 6 days ago	Last Seen Group	2021-05-27T00:31:18.719Z -	Location Make	-		
	2109-17-6827193bcd4a	68:27:19:3b:od:4a	May 27th, 2021 06:01:18 A 6 days ago	Туре		Vendor	-		
	2004-17-6827193bcd4a	68:27:19:3b:cd:4a	May 27th, 2021 06:01:18 A 6 days ago	 Sensor Inform 	ation				
	2103-17-6827193bcd4a	68:27:19:3b:cd:4a	May 27th, 2021 06:01:18 A 6 days ago	humidity ()					
	2106-17-6827193bcd4a	68:27:19:3b:cd:4a	May 27th, 2021 06:01:18 A 6 days ago		c	%RH			
	0001-17-6827193bcd4a	68:27:19:3b:od:4a	May 27th, 2021 06:01:18 A 6 days ago	Updated at: May 27th, 20 6 days ag	i21.08:01:14 AM I0				
	2107-17-6827193bcd4a	68:27:19:3b:od:4a	May 27th, 2021 06:01:18 A 6 days ago						
	2108-17-6827103bcd4a	69-27-10-2h-od-4a	May 27th, 2021 06:01:18 A						

Step 3 In the **App Management** section, you can see the applications available for installation, uninsallation, or upgrade. Do one of the following:

- To uninstall, click the uninstall icon near the Cisco Spaces Wired app.
- To upgrade, check if a version is available for upgrade near the Cisco Spaces Wired app and click it.
- To upload tech support files to the connector, click the gear icon.

Figure 9: Unistalling or	Upgrading an (Cisco Spaces	Wired app
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V	Vired Switch	- catalyst-9300-	qa-1		\times
			As of: Sep 20th	n, 2021 01:56:43 PM 🛛 📿 Refre	×
~	Wired Gatewa	y Information			
	Mac Address	f8:a7:3a:bb:22:80	Name	catalyst-9300-qa-1	
	Status	O UP	IP Address	10.22.243.73	\times
	IOx App Name	cisco_dnas_wired_iox_app	IOx App Version	1.0.25	
	IOx Last Heard	Aug 28th, 2021 07:18:15 AM 23 days ago	Last Seen	Sep 20th, 2021 01:47:04 PM 10 minutes ago	
	Mode	-	Product ID	C9300-24U	
	Serial Number	FJC25111E2E	SW Version	Cisco IOS Software [Amsterdam], Catalyst L3 Switch Software (CAT9K_IOSXE), Version 17.3.3, RELEASE SOFTWARE (fc7)	
	Туре	CHASSIS			
~	App Managem Available Apps Cisco I Upgrad Enable within c	DNA Spaces Wired App de to v1.0.26 configuration of Wired Gateway compatible switches	Ŧ		
~	Request Histo	ry			

The switch, which is the wired gateway, receives these change requests for installation. You can observe the progress on the displayed window. You can also check the status of the wired gateway deployment by clicking the **Deployment status** icon at the top-right corner of the dashboard (in the **AP Gateways** window). Here, you can see the deployment status of the wired gateway at a more detailed level. You can see whether the gateway is enabled and whether an app is being installed. Unlike bulk history, you can view the details of an individual wired gateway. If the gateway deployment fails, the reasons are listed here.