

# Configuration Example for FlexConnect Mode - Wireless and Wired

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### **Overview**

This chapter provides configuration guidelines to implement Local Area Bonjour enabling end-to-end policy-based mDNS service discovery and distribution across multilayer wired and wireless FlexConnect local-switching mode. The first hop mDNS gateway at Layer 2 access switch must be implemented in service peer mode and paired with common distribution-layer switch in SDG agent role IP gateway function to wired and wireless clients. The network-wide distributed SDG agent can be paired alternatively with the Cisco Catalyst Center to enable mDNS service-routing across IP core network providing mDNS service assurance, monitoring and troubleshooting.

The following figure illustrates unicast mode bonjour network environment with AirPrint capable printer and wireless user computer (macOS, Microsoft Windows, and so on.) connected to the same Ethernet switch. The network administrator implements the policy permitting additional endpoints associated to nearby location Ethernet switch to discover and use remote AirPrint capable Printer without flooding mDNS over wired and wireless networks.

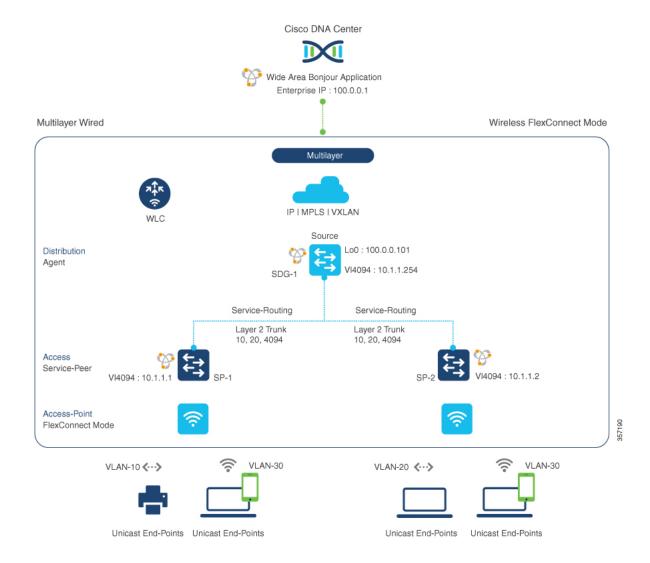


Figure 1: Local Area Bonjour Service-Routing Multilayer Wired and Wireless FlexConnect Local-Switching Mode

## Configuration Example for Default Service List and Policy in FlexConnect Mode - Wireless and Wired

This section provides guidance on configuring Service-Peer, SDG Agent, and Cisco Catalyst Center, allowing the wired and wireless endpoints to dynamically discover the default service list using Layer 2 unicast and policy.

#### **Example: Wired and Wireless Access Layer Service Peer Configuration**

The following table provides a sample configuration of wired and wireless controller access layer service peer.

Table 1: Configuring Wired and Wireless Access Layer Service Peer

Configuration Step	Sample Configuration: SP-1 Service-Peer Configuration	Sample Configuration: SP-2 Service-Peer Configuration
Step-1: Enable mDNS gateway and set the gateway mode.	! mdns-sd gateway mode service-peer !	! mdns-sd gateway mode service-peer !
Step-2: Create unique mDNS inbound policy to permit ingress AirPrint service announcement and query on the Catalyst Switch in service peer mode.	! mdns-sd service-list LOCAL-AREA-SERVICES-IN in match printer-ipp !	! mdns-sd service-list LOCAL-AREA-SERVICES-IN in match printer-ipp !
Step-3: Create unique mDNS outbound policy to permit egress AirPrint service response on the Catalyst Switch in service peer mode	! mdns-sd service-list LOCAL-AREA-SERVICES-OUT out match printer-ipp !	! mdns-sd service-list LOCAL-AREA-SERVICES-OUT out match printer-ipp !
Step-4: Associate inbound and outbound service list to a unique service policy.	! mdns-sd service-policy LOCAL-AREA-POLICY service-list LOCAL-AREA-SERVICES-IN service-list LOCAL-AREA-SERVICES-OUT !	mdns-sd service-policy LOCAL-AREA-POLICY service-list LOCAL-AREA-SERVICES-IN service-list LOCAL-AREA-SERVICES-OUT !
Step-5: Activate unicast mDNS gateway and attach service policy on wired VLAN and wireless FlexConnect user VLAN of SP-1 and SP-2 Layer 2 access switch.	! vlan configuration 10, 30 mdns-sd gateway service-policy LOCAL-AREA-POLICY active-query timer 3600 !	! vlan configuration 20, 30 mdns-sd gateway service-policy LOCAL-AREA-POLICY active-query timer 3600 !
Step-6: Enable service routing on wired service peer mDNS between mDNS source and receiver local VLANs.  Note  This step is optional for SP-2 switch as it does not have local mDNS service provider endpoints or VLANs.	! mdns-sd location-filter LOCAL-PROXY match location-group default vlan 10 match location-group default vlan 30 ! mdns-sd service-list LOCAL-AREA-SERVICES-OUT OUT match printer-ipps location-filter LOCAL-PROXY !	
Step-7: Enable unicast service routing between wired and wireless service peer and SDG agent using wired management source VLAN ID and IP address.	vlan configuration 10, 30 mdns-sd gateway source-interface vlan 4094 sdg-agent 10.1.1.254	! vlan configuration 20, 30 mdns-sd gateway source-interface vlan 4094 sdg-agent 10.1.1.254 !

## **Example: Wired and Wireless Distribution Layer SDG Agent Configuration**

The following table provides a sample configuration of distribution layer SDG agent.

**Table 2: Configuring Wired and Wireless Distribution Layer SDG Agent** 

Configuration Step	Sample Configuration: SDG-1 – SDG Agent
Step-1: Enable mDNS gateway and set the gateway mode. The default mode is sdg-agent.	! mdns-sd gateway !
<b>Step-2</b> : Create a unique mDNS inbound policy to permit ingress AirPrint service announcement and query the Catalyst Switch in Service-Peer mode.	! mdns-sd service-list LOCAL-AREA-SERVICES-IN in match printer-ipp !
<b>Step-3</b> : Create a unique mDNS outbound policy to permit egress AirPrint service response on Catalyst Switch in Service-Peer mode.	! mdns-sd service-list LOCAL-AREA-SERVICES-OUT out match printer-ipp !
<b>Step-4</b> : Associate the inbound and outbound service-list to a unique service-policy.	! mdns-sd service-policy LOCAL-AREA-POLICY service-list LOCAL-AREA-SERVICES-IN service-list LOCAL-AREA-SERVICES-OUT !
Step-5: Activate unicast mDNS gateway on wired VLAN and wireless user VLAN on SDG agents.	! vlan configuration 10, 20, 30 mdns-sd gateway !
Step-6: Configure the service peer-group and attach service-policy on the SDG agent distribution switch and enable service-routing between the assigned Service Peer switch group.	! mdns-sd service-peer group peer-group 1 service-policy LOCAL-AREA-POLICY service-peer 10.1.1.1 location-group default service-peer 10.1.1.2 location-group default !
Step-7: Create a unique controller bound mDNS policy to permit egress AirPrint service discovery and distribution from Catalyst Switch in SDG agent mode. Inbound policy towards controller is not required.	! mdns-sd service-list WIDE-AREA-SERVICES-OUT out match printer-ipp !
<b>Step-8</b> : Associate outbound service-list to a unique service-policy.	! mdns-sd service-policy WIDE-AREA-POLICY service-list WIDE-AREA-SERVICES-OUT !

Configuration Step	Sample Configuration: SDG-1 – SDG Agent
<b>Step-9</b> : Enable Wide Area Bonjour service-routing with service export configuration association controller IP Address, source interface for stateful connection, and mandatory egress policy for Wide Area service-routing.	! Service-export mdns-sd controller DNAC-CONTROLLER-POLICY controller-address 100.0.0.1 controller-source-interface LOOPBACK 0 controller-service-policy WIDE-AREA-POLICY !

## Configuration Example for Customized Service List and Policy in FlexConnect Mode - Wireless and Wired

This section provides guidance on configuring Service-Peer, SDG Agent, and Cisco Catalyst Center, allowing the wired and wireless endpoints to dynamically discover printer using Layer 2 unicast and policy.

### **Example: Wired and Wireless Access Layer Service Peer Configuration**

The following table provides a sample configuration of wired and wireless controller access layer service peer.

Table 3: Configuring Wired and Wireless Access Layer Service Peer

Configuration Step	Sample Configuration: SP-1 Service-Peer Configuration	Sample Configuration: SP-2 Service-Peer Configuration	
Step-1: Enable mDNS gateway and set the gateway mode.	! mdns-sd gateway mode service-peer !	! mdns-sd gateway mode service-peer !	
Step-2: Create unique mDNS inbound policy to permit ingress AirPrint service announcement and query on the Catalyst Switch in service peer mode.	! mdns-sd service-list LOCAL-AREA-SERVICES-IN in match printer-ipp !	! mdns-sd service-list LOCAL-AREA-SERVICES-IN in match printer-ipp !	
Step-3: Create unique mDNS outbound policy to permit egress AirPrint service response on the Catalyst Switch in service peer mode	! mdns-sd service-list LOCAL-AREA-SERVICES-OUT out match printer-ipp !	! mdns-sd service-list LOCAL-AREA-SERVICES-OUT out match printer-ipp !	
Step-4: Associate inbound and outbound service list to a unique service policy.	! mdns-sd service-policy LOCAL-AREA-POLICY service-list LOCAL-AREA-SERVICES-IN service-list LOCAL-AREA-SERVICES-OUT !	mdns-sd service-policy LOCAL-AREA-POLICY service-list LOCAL-AREA-SERVICES-IN service-list LOCAL-AREA-SERVICES-OUT !	

Configuration Step		Sample Configuration: SP-1 Service-Peer Configuration	Sample Configuration: SP-2 Service-Peer Configuration	
Step-5: Activate unicast mDNS gateway and attach service policy on wired VLAN and wireless FlexConnect user VLAN of SP-1 and SP-2 Layer 2 access switch.		! vlan configuration 10, 30 mdns-sd gateway service-policy LOCAL-AREA-POLICY active-query timer 3600 !	! vlan configuration 20, 30 mdns-sd gateway service-policy LOCAL-AREA-POLICY active-query timer 3600 !	
Step-6: Enable service routing on wired service peer mDNS between mDNS source and receiver local VLANs.  Note This step is optional for SP-2 switch as it does not have local mDNS service provider endpoints or VLANs.		! mdns-sd location-filter LOCAL-PROXY match location-group default vlan 10 match location-group default vlan 30 ! mdns-sd service-list LOCAL-AREA-SERVICES-OUT OUT match printer-ipps location-filter LOCAL-PROXY !		
Step-7: Enable unicast service routing between wired and wireless service peer and SDG agent using wired management source VLAN ID and IP address.		vlan configuration 10, 30 mdns-sd gateway source-interface vlan 4094 sdg-agent 10.1.1.254	! vlan configuration 20, 30 mdns-sd gateway source-interface vlan 4094 sdg-agent 10.1.1.254 !	

## **Example: Wired and Wireless Distribution Layer SDG Agent Configuration**

The following table provides a sample configuration of distribution layer SDG agent.

Table 4: Configuring Wired and Wireles Distribution Layer SDG Agent

Configuration Step	Sample Configuration: SDG-1 – SDG Agent		
Step-1: Enable mDNS gateway and set the gateway mode. The default mode is sdg-agent.	! mdns-sd gateway !		
Step-2: Create a unique mDNS inbound policy to permit ingress AirPrint service announcement and query the Catalyst Switch in Service-Peer mode.	! mdns-sd service-list LOCAL-AREA-SERVICES-IN in match printer-ipp !		
<b>Step-3</b> : Create a unique mDNS outbound policy to permit egress AirPrint service response on Catalyst Switch in Service-Peer mode.	! mdns-sd service-list LOCAL-AREA-SERVICES-OUT out match printer-ipp !		

Configuration Step	Sample Configuration: SDG-1 – SDG Agent
<b>Step-4</b> : Associate the inbound and outbound service-list to a unique service-policy.	! mdns-sd service-policy LOCAL-AREA-POLICY service-list LOCAL-AREA-SERVICES-IN service-list LOCAL-AREA-SERVICES-OUT !
Step-5: Activate unicast mDNS gateway on wired VLAN and wireless user VLAN on SDG agents.	! vlan configuration 10, 20, 30 mdns-sd gateway !
<b>Step-6</b> : Configure the service peer-group and attach service-policy on the SDG agent distribution switch and enable service-routing between the assigned Service Peer switch group.	! mdns-sd service-peer group peer-group 1 service-policy LOCAL-AREA-POLICY service-peer 10.1.1.1 location-group default service-peer 10.1.1.2 location-group default !
Step-7: Create a unique controller bound mDNS policy to permit egress AirPrint service discovery and distribution from Catalyst Switch in SDG agent mode. Inbound policy towards controller is not required.	! mdns-sd service-list WIDE-AREA-SERVICES-OUT out match printer-ipp !
<b>Step-8</b> : Associate outbound service-list to a unique service-policy.	! mdns-sd service-policy WIDE-AREA-POLICY service-list WIDE-AREA-SERVICES-OUT !
Step-9: Enable Wide Area Bonjour service-routing with service export configuration association controller IP Address, source interface for stateful connection, and mandatory egress policy for Wide Area service-routing.	! service-export mdns-sd controller DNAC-CONTROLLER-POLICY controller-address 100.0.0.1 controller-source-interface LOOPBACK 0 controller-service-policy WIDE-AREA-POLICY !

## Cisco Catalyst Center Traditional Multilayer Wired and Wireless Configuration

## Configuring Service Filters for Traditional Multilayer Wired and Wireless FlexConnect Local-Switching Mode (GUI)

This procedure implements global service filters, which permit the Cisco Wide Area Bonjour application to dynamically discover and distribute service information between trusted Cisco Catalyst SDG agent switches across the IP network.

#### **Procedure**

**Step 1** Navigate to the **Configuration** tab in the Wide Area Bonjour application.

Step 2 From the sidebar, select the sub-domain for which you want to create the service filter. Step 3 Check the **Service Filter** box. Step 4 Click Service Filter icon from the topology to view a list of the service filters for the selected domain. You can also manually edit existing service filters from this list. Step 5 Click Create Service Filter. Step 6 From the **Network Mode** drop-down list, choose **Traditional** (the default mode). Step 7 Enter a unique name for the service filter. Step 8 (Optional) Enter a description for the service filter. Step 9 Select one or more service types to permit announcements and queries. Step 10 Enable or disable service filters after creating them. By default, service filters are enabled.

#### Configuring Source SDG Agents in Traditional Multilayer Wired and Wireless FlexConnect Local-Switching Mode (GUI)

This procedure configures discovery of wired printer sources from the LAN distribution switches paired with Layer 2 Catalyst Switches in a service peer role. The wireless distribution switches paired with a controller in a service peer role receive query responses for wired printers and distribute the responses to querying devices over the wireless FlexConnect local switching mode network.

#### **Procedure**

Step 1	Click <b>Add</b> on the upper-right of Cisco Catalyst Center.					
Step 2	Click the Source radio button to select a source SDG agent. By default, this radio button is selected.					
Step 3	From the <b>SDG Agent/IP</b> drop-down list, select an SDG agent (100.0.0.101) which announces the stor example, Printer.	services,				
Step 4	Select <b>Peer</b> from the <b>Service Layer</b> drop-down list.					
Step 5	Uncheck the box <b>Any</b> . By default, this is unchecked.					
Step 6	Select the query VLAN (Vlan-10) to distribute services (Printer) from a specific network.					
Step 7	Enable or disable services from the selected query IPv4 subnet. By default, this is enabled.					
Step 8	Enable or disable services from the selected query IPv6 subnet. By default, this is enabled.					
Step 9	Enter the service peer IPv4 address (10.1.1.1).					
	Note Select Any to accept services from any peer on a selected VLAN.					
Step 10 Step 11 Step 12	Click <b>DONE</b> .					

#### Configuring Query SDG Agents in Traditional Multilayer Wired and Wireless FlexConnect Local-Switching Mode (GUI)

This procedure configures distributed services to query SDG agents connected to a controller in service peer mode, based on a policy.

If the network environment is different, see the Cisco Wide Area Bonjour on Cisco Catalyst Center User Guide, Release 2.1.2.

#### **Procedure**

Step 1	Click <b>Add</b> on the upper-right of Cisco Catalyst Center.
Step 2	Select the Query SDG agent radio button. By default, the Source radio button is selected.
Step 3	From the <b>SDG Agent/IP</b> drop-down list, select an SDG agent (100.0.0.102) that receives queries for the services (Printer).
Step 4	Select <b>Peer</b> from the <b>Service Layer</b> drop-down list.
Step 5	Uncheck the box <b>Any</b> . By default, this is enabled.
Step 6	Select the query VLAN (Vlan-30) to distribute services (Printer) to a specific network.
Step 7	Enable or disable services from the selected query IPv4 subnet. By default, this is enabled.
Step 8	Enable or disable services from the selected query IPv6 subnet. By default, this is enabled.
Step 9	Enter the service peer IPv4 address (10.2.1.254).
Step 10	Click the + icon to add more service-peers, if any. Select <b>Any</b> to accept services from any peer on a selected VLAN.
Step 11	(Optional) Click Add Next to add more query agents. (Repeat the preceding steps.)
Step 12	Click <b>DONE</b> .
Step 13	Click CREATE.

## **Verifying Configuration Example for FlexConnect Mode - Wireless and Wired**

This section provides step-by-step mDNS configuration and service discovery and distribution status based on applied policy on Wired Layer 2 access switch in service peer and SDG agent mode.

#### **Verifying Wired Service-Peer Configuration**

Use the following commands on the Cisco Catalyst switch in service peer (SP-1 and SP-2) mode to determine the operational status after applying configuration and discovering the AirPrint service from the local network.

```
VLAN: 10

mDNS Gateway: Enabled
mDNS Service Policy: LOCAL-AREA-POLICY
```

Device# show mdns-sd summary vlan 10

Active Query: Enabled

: Periodicity 3600 Seconds

Transport Type: IPv4

Service Instance Suffix: Not Configured

mDNS Query Type: ALL SDG Agent IP: 10.1.1.254 Source Interface: Vlan4094

#### Device# show mdns-sd service-policy name LOCAL-AREA-POLICY

Device# show mdns-sd cache vlan 10

Name	Туре	TTL/	Vlan-Id/	MAC Address	RR Record Data
		Remaining	Interface-name		
_universalsubipptcp.local	PTR	4500/4486	V110	ac18.2651.03fe	Bldg-1-FL1-PRNipp
_ipptcp.local	PTR	4500/4486	V110	ac18.2651.03fe	Bldg-1-FL1-PRNipp
Bldg-1-FL1-PRNipptcp.local	SRV	4500/4486	V110	ac18.2651.03fe	0 0 631 Bldg-1-FL1-PRN
Bldg-1-FL1-	A	4500/4486	V110	ac18.2651.03fe	10.153.1.1
PRN.local					
Bldg-1-FL1-	AAAA	4500/4486	V110	ac18.2651.03fe	2001:10:153: 1:79:A40C:
PRN.local					
Bldg-1-FL1-PRNipptcp.local	TXT	4500/4486	V110	ac18.2651.03fe	(451)'txtvers=1"priority=1
					ty=EPSON WF-3620 Ser
					usb_MFG=EPSON"
					usb_MDL=W~'~

#### Device# show mdns-sd statistics vlan 10

mDNS Statistics

```
V110:
                   : 612
mDNS packets sent
   IPv4 sent
                           : 612
    IPv4 advertisements sent : 0
     IPv4 queries sent : 612
   IPv6 sent
                            : 0
    IPv6 advertisements sent : 0
     IPv6 queries sent : 0
                          : 0
 Unicast sent
mDNS packets rate limited
                        : 0
 mDNS packets received
                           : 42
                          : 28
 advertisements received
                          : 14
 queries received
   IPv4 received
                          : 42
     IPv4 advertisements received: 28
     IPv4 queries received : 14
```

```
IPv6 received
   IPv6 advertisements received: 0
   IPv6 queries received : 0
mDNS packets dropped
Query Type
_____
                       : 12
                       : 0
Α
                       : 0
AAAA
TXT
                       : 0
ANY
PTR Name Advertisement Query
_ipp. _tcp.local 9 4
```

## **Verifying Wired SDG Agent Configuration and Service-Routing Status**

This section provides information on mDNS configuration and service-routing on Wired and Wireless SDG Agent (SDG-1) with locally attached Layer 2 access switches in Service-Peer (SP-1 and SP-2) mode and with centrally paired Cisco Catalyst Center for Wide Area Bonjour service-routing.

```
Device# show mdns-sd summary vlan 10
```

```
VLAN: 10

mDNS Gateway : Enabled
mDNS Service Policy : LOCAL-AREA-POLICY
Active Query : Disabled
Transport Type : IPv4
Service Instance Suffix : Not Configured
mDNS Query Type : ALL
SDG Agent IP : Not-Configured
Source Interface : Not-Configured
```

Device# show mdns-sd cache vlan 1
-----------------------------------

Name	Туре	TTL/	Vlan-Id	MAC Address	RR Record Data
		Remaining	/Interface-name		
_universalsubipptcp.local	PTR	4500/4500	V110	ac18.2651.03fe	Bldg-1-FL1-PRN. _ipptcp.local
_ipptcp.local	PTR	4500/4500	V110	ac18.2651.03fe	Bldg-1-FL1-PRN. _ipptcp.local
Bldg-1-FL1- PRN. _ipptcp.local	SRV	4500/4500	V110	ac18.2651.03fe	0 0 631 Bldg-1-FL1-PRNlocal
Bldg-1-FL1 -PRN.local	A	4500/4500	V110	ac18.2651.03fe	10.153.1.1

Name	Туре	TTL/	Vlan-Id	MAC Address	RR Record Data
		Remaining	/Interface-name		
Bldg-1-FL1- PRN.local	AAAA	4500/4500	V110	ac18.2651.03fe	2001:10:153: 1:79 A40C:6BEE: AEEC
Bldg-1-FL1-PRN. _ipptcp.local	TXT	4500/4500	V110	ac18.2651.03fe	(451) Atvas=1 priority=30 ty=EPSON WF-3620 Series" ub_MG##\$015/MD=W~

#### Device# show mdns-sd sp-sdg statistics

```
: 0, 0, 0
: 0.
                           One min, 5 mins, 1 hour
Average Input rate (pps)
Average Output rate (pps)
                         : 0,
Messages received:
                          : 15796
 Query
 ANY query
                         : 0
 Advertisements
                         : 28
                        : 0
 Advertisement Withdraw
 Interface down
                          : 0
 Vlan down
                          : 0
                         : 0
 Service-peer ID change
 Service-peer cache clear : 12
 Resync response
                         : 6
Messages sent:
 Query response
                          : 5975
                          : 0
 ANY Query response
 Cache-sync
                          : 61
 Get service-instance
                          : 0
```

#### Device# show mdns-sd controller detail

```
Controller: DNAC-Policy
IP: 100.0.0.1, Dest Port : 9991, Src Port : 42446, State : UP
Source Interface: Loopback0, MD5 Disabled
Hello Timer 30 sec, Dead Timer 120 sec, Next Hello 00:00:24
Uptime 2d05h (17:02:37 UTC Jan 15 2021)
Service Buffer: Enabled

Service Announcement:
Filter: DNAC-CONTROLLER-POLICY
Count 50, Delay Timer 30 sec, Pending Announcement 0, Pending Withdraw 0
Total Export Count 56, Next Export in 00:00:24

Service Query:
Query Suppression Enabled
Query Count 50, Query Delay Timer 15 sec, Pending 0
Total Query Count 15791, Next Query in 00:00:09
```

### **Verifying Cisco Catalyst Center Configuration and Service Routing Status**

The Cisco Wide Area Bonjour application supports comprehensive assurance capabilities to manage service routing with network-wide distributed Cisco Catalyst switches in SDG Agent role and mDNS services discovered over Wide Area Bonjour domain. The assurance capabilities in Cisco Wide Area Bonjour provides the ability to determine service routing state, mDNS service state, and many more information at various levels for day-2 operations, analysis and troubleshooting. Each category serves unique function to manage and troubleshoot Wide Area Bonjour service routing for day-2 operation.

This sub-section provides brief overview for each category of monitor function:

- Dashboard: The landing page of Cisco Wide Area Bonjour application provides key statistics in various
  formats to quickly determine service routing health across the network. The network administrator can
  monitor operational status of service routing with SDG Agent devices, historical chart of service discovery
  request, processing and drops from network-wide distributed devices and top five talkers across the
  network.
- **Sub-Domain 360°**: The network administrator can briefly collect statistics and status counts in 360° view. The left-panel monitoring, and configuration bar is automatically open upon clicking selected sub-domain to verify configured policies, discovered service-instances on per sub-domain basis of the configuration section.
- Monitor: A comprehensive 3-tier monitoring and troubleshooting function of Cisco Wide Area Bonjour
  application for various day-2 operations. The detail view of SDG Agent, Service-Instance, and advanced
  Troubleshooting capabilities allows network administrator to manage and troubleshoot Wide Area Bonjour
  domain with a single pane of glass on Cisco Catalyst Center.

For more information, see Cisco Wide Area Bonjour on Cisco Catalyst Center User Guide, Release 2.1.2 guide. The assurance capabilities and operation details are explained in **Monitor the Cisco Wide Area Bonjour Application** chapter to manage Cisco Wide Area Bonjour application with various supporting service routing assurance function.

#### Reference

Table 5:

Related Topic	Document Title		
DNA Service for Bonjour Deployment on Cisco	Cisco Catalyst 9600 Series Switch Software		
Catalyst 9600 Switch	Configuration Guide, Release 17.5.X		
DNA Service for Bonjour Deployment on Cisco	Cisco Catalyst 9500 Series Switch Software		
Catalyst 9500 Switch	Configuration Guide, Release 17.5.X		
DNA Service for Bonjour Deployment on Cisco	Cisco Catalyst 9400 Series Switch Software		
Catalyst 9400 Switch	Configuration Guide, Release 17.5.X		
DNA Service for Bonjour Deployment on Cisco	Cisco Catalyst 9300 Series Switch Software		
Catalyst 9300 Switch	Configuration Guide, Release 17.5.X		
Cisco Wide Area Bonjour Application on Cisco	Cisco Wide Area Bonjour Application on Cisco		
Catalyst Center User Guide	Catalyst Center User Guide, Release 2.2.2		

Reference