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Airgroup Configuration Documentation

Aruba AOS 6.x

Airgroup Configuration

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1 Deployment Considerations

Bonjour is Apple's implementation of zero-configuration networking (zeroconf), a group of technologies that includes service discovery, address assignment, and hostname resolution.

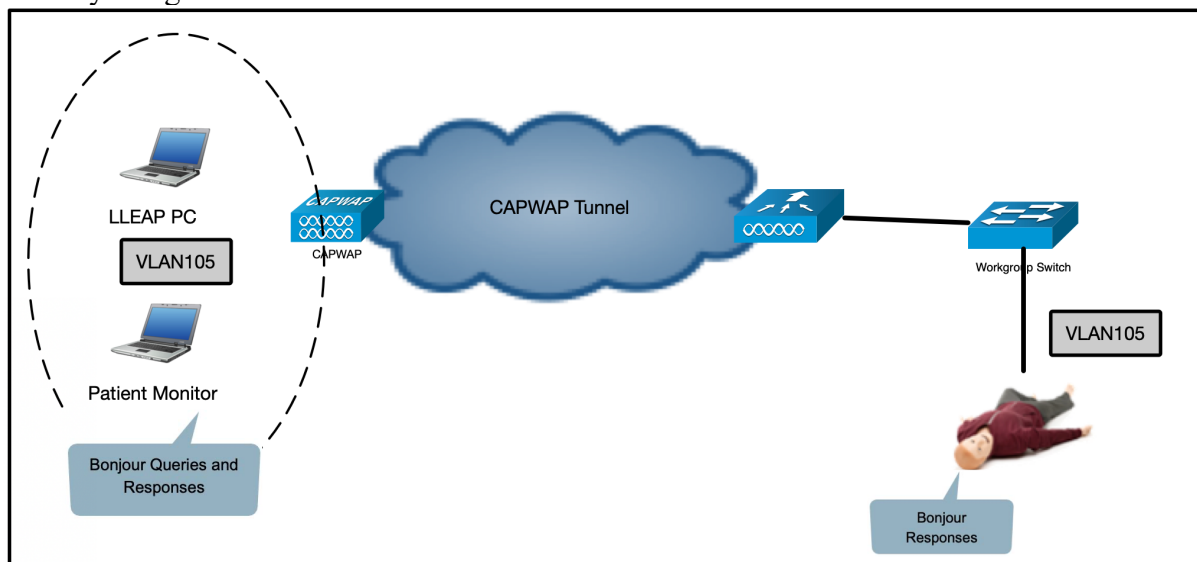
The following is a list of some of the Laerdal Medical devices that use this protocol for device discovery.

- SimMan3G
- Patient Monitor
- LinkBox
- Session Viewer

Each query or advertisement is sent to the Bonjour multicast address for delivery to all clients on the subnet. Apple's Bonjour protocol relies on mDNS operating at UDP port 5353 and each query or advertisement are sent to the following reserved group addresses:

- IPv4 Group Address – 224.0.0.251
- IPv6 Group Address – FF02::FB

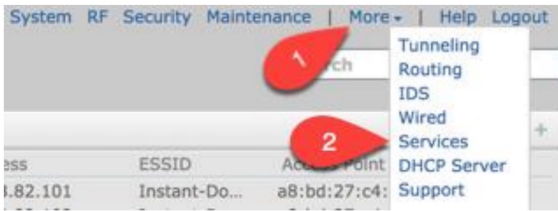
The addresses used by the Bonjour protocol are link-local multicast addresses and thus are only forwarded on the local L2 domain. Routers cannot use multicast routing to redirect the traffic because the time to live (TTL) is set to one, and link-local multicast is meant to stay local by design.



2 AirGroup Service

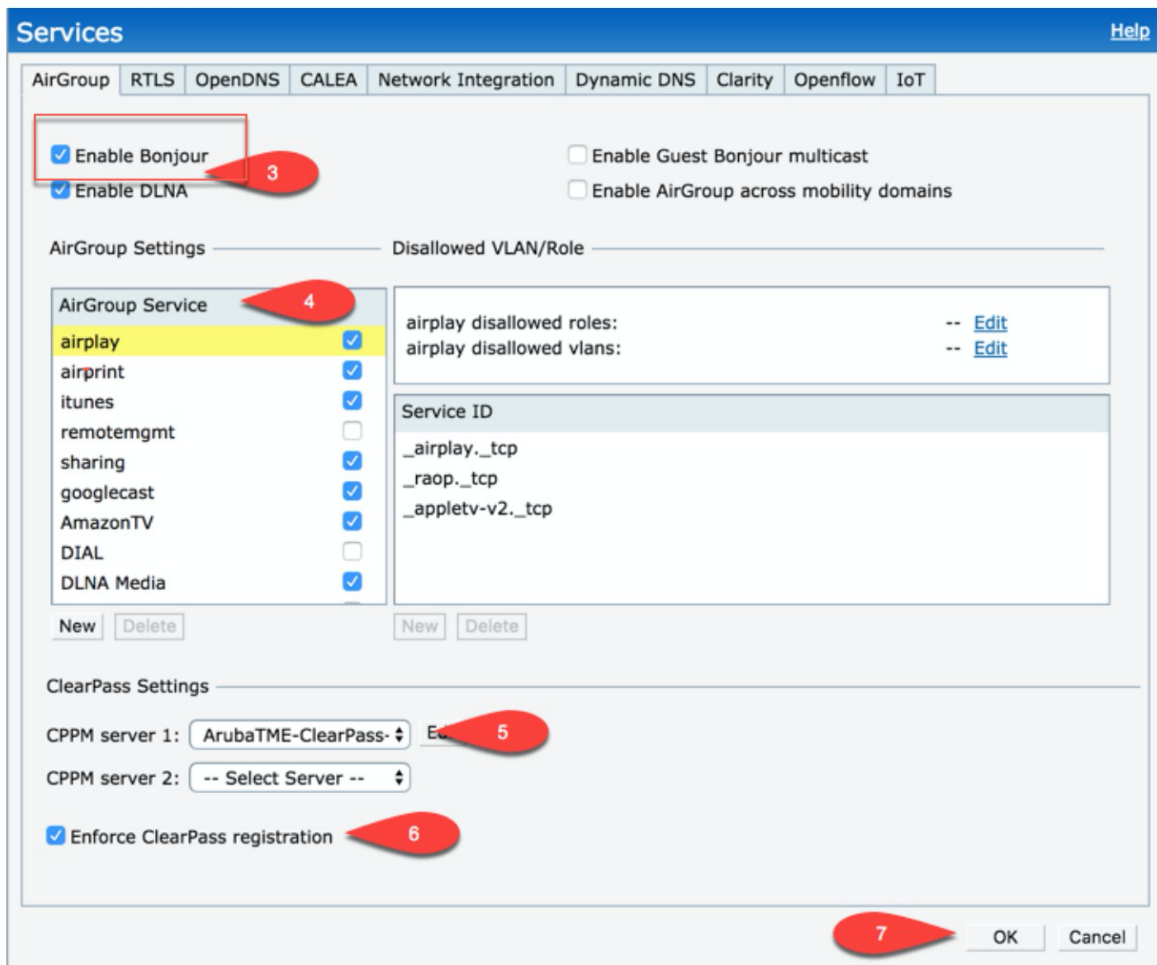
Define the AirGroup Service:

- Click on More
- Click on Service



2.1 Enable Bonjour Service

Select the Enable Bonjour check box to enable the services.



2.2 Create Airgroup Service

Select the new to create a new Airgroup service and enter the name of the service.

Services Help

AirGroup RTLS OpenDNS CALEA Network Integration Dynamic DNS Clarity Openflow IoT

Enable Bonjour 3 Enable Guest Bonjour multicast
 Enable DLNA Enable AirGroup across mobility domains

AirGroup Settings Disallowed VLAN/Role

AirGroup Service		
airplay	<input checked="" type="checkbox"/>	airplay disallowed roles: -- Edit airplay disallowed vlans: -- Edit
airprint	<input checked="" type="checkbox"/>	
itunes	<input checked="" type="checkbox"/>	
remotemgmt	<input type="checkbox"/>	
sharing	<input checked="" type="checkbox"/>	
googlecast	<input checked="" type="checkbox"/>	
AmazonTV	<input checked="" type="checkbox"/>	
DIAL	<input type="checkbox"/>	
DLNA Media	<input checked="" type="checkbox"/>	

New Delete New Delete

Service ID

- __airplay.__tcp
- __raop.__tcp
- __appletv-v2.__tcp

ClearPass Settings

CPPM server 1: ArubaTME-ClearPass 5 Edit
CPPM server 2: -- Select Server --

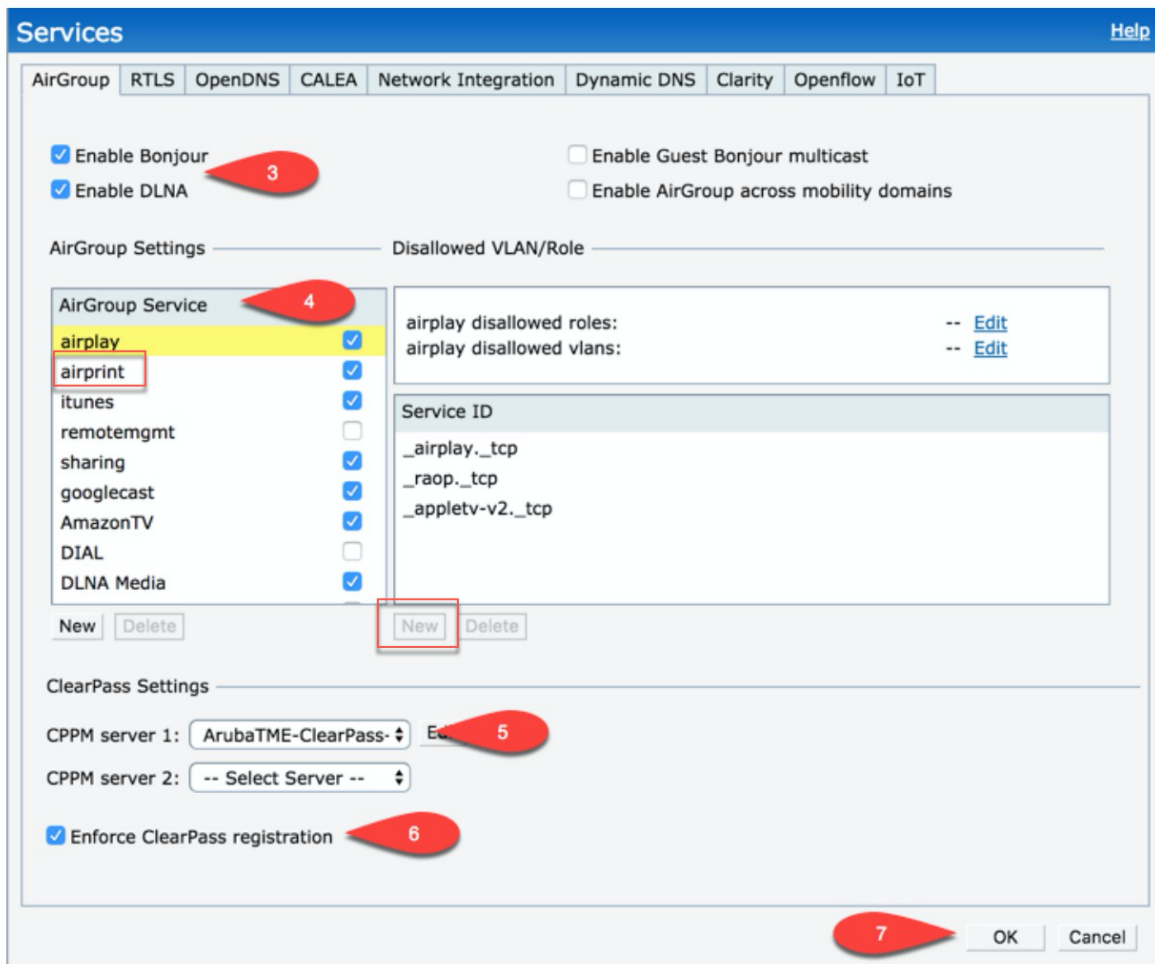
Enforce ClearPass registration 6

7 OK Cancel

2.3 Airgroup Service Ids GUI Configuration

To add service ids to the Airgroup service profile select the service name and then click new.

Important Note: The mDNS “.local.” ending should not be added to the Aruba service IDs.



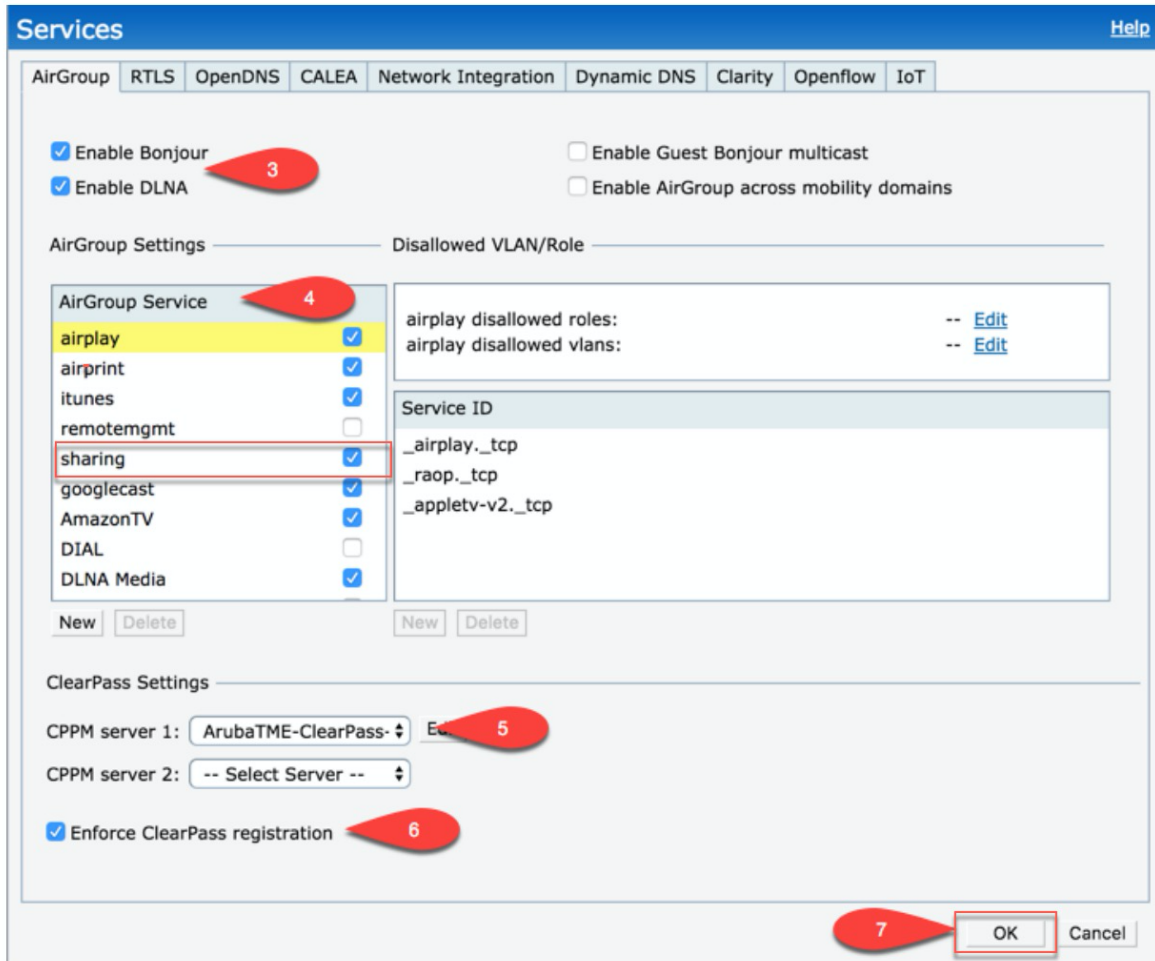
2.3.1 Airgroup Service and Service ids CLI Configuration

Use the **airgroupservice** command to define an AirGroup service using the command-line interface.

```
airgroupservice <name>
```

```
(host) (config) #airgroupservice SIM_SRV_GRP
(host) (config-airgroupservice) #description "SIM SERVICES"
(host) (config-airgroupservice) #id _simbridge._tcp
(host) (config-airgroupservice) #id _simmonitor._tcp
(host) (config-airgroupservice) #id _simlink._tcp
(host) (config-airgroupservice) #id _simse._tcp
(host) (config-airgroupservice) #id _simvca._tcp
(host) (config-airgroupservice) #id _simventures._tcp
(host) (config-airgroupservice) #id _http._tcp
(host) (config-airgroupservice) #id _workstation._tcp
(host) (config-airgroupservice) #id _ssh._tcp
(host) (config-airgroupservice) #id _lleaphost._tcp
(host) (config-airgroupservice) #id _ctgserver._tcp
```

2.4 Airgroup Enabled Service GUI Configuration



2.4.1 Airgroup Enabled Service CLI Configuration

Use the following command to enable or disable an AirGroup service:

```
airgroup service <string> enable|disable
```

Sample Configuration

```
(host) (config)#airgroup service SIM_SRV_GVP enable
```

2.5 AirGroup Service Verification

AirGroup Server Verification

1. Click on **AirGroup** on the line next to Monitoring



Here you can see the AirGroup servers listed

MAC	IP	Type	Host Name	Service	VLAN	Wired/Wireless	Group	CPPM
f0:81:73:38:e4:66	192.168.82.100	mDNS	192-168-82-100	AmazonTV	82	wireless		●
d0:d2:b0:9b:70:53	192.168.82.102	mDNS	Farley	airplay	82	wireless		●
78:31:c1:d3:c0:ae	192.168.81.101	mDNS	Chriss-MacBook-Pro...	itunes	81	wireless		●

Click on the pin under CPPM (ClearPass) you can see the shared user list from ClearPass begin returned.

Device	device-owner	shared location-id AP-name	shared location-id AP-FQLN	shared location-id AP-group	shared user-list	shared group-list	shared role-list	CPPM-Req	CPPM-Resp
f0:81:73:38:e4:66	Farley		N/A	N/A	farley Farley 00714730107d Sati Chris			1	1

You can refer to the Verifying AirGroup Service for additional commands from the CLI for command outputs. These are consistent across Mobility Managed and Instant Deployments.

2.5.1 Airgroup Show Commands

```
(host) #show airgroup status
```

```
AirGroup Feature -----
```

```
Status
-----
Enabled
```

```
AirGroup Enforce Registration
-----
```

```
Status
-----
Enabled
```

```
AirGroup Service Information
-----
```

```
Service      Status
-----
airplay      Enabled
airprint     Enabled
itunes       Disabled
remotemgmt   Enabled
sharing      Enabled
chat         Enabled
```


allowall Enabled

show airgroupservice

Sample Configuration

(host) # show airgroupservice
AirGroupService Details

```
-----
```

Service	Description	Disallowed-Role	Disallowed-VLAN	ID
-----	-----	-----	-----	---
airplay	AirPlay			_airplay._tcp _raop._tcp _appletv-v2._tcp
airprint	AirPrint			_ipp._tcp _printer._tcp _canon-bjnp1._tcp _ica-networking2._tcp
itunes	iTunes			_home-sharing._tcp _apple-mobdev._tcp
remotemgmt	Remote management			_ssh._tcp _sftp-ssh._tcp _ftp._tcp _telnet._tcp
sharing	Sharing			_odisk._tcp
#query-hits	#servers			
-----	-----			
11018	108			
0	0			

AirGroupService Details