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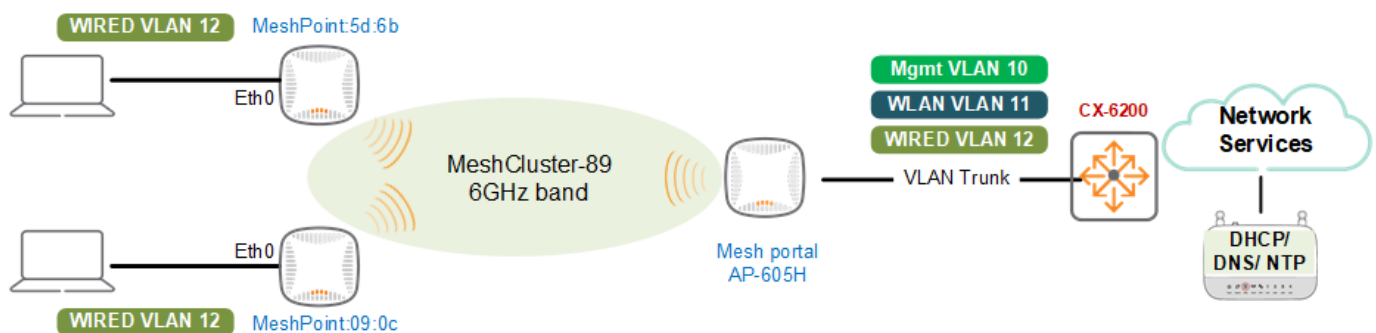
1.1 Revision History

| DATE | VERSION | EDITOR | CHANGES |
|-------------|---------|-------------------|------------------|
| 29 Sep 2024 | 0.1 | Ariya Parsamanesh | Initial creation |
| | | | |
| | | | |

2 Point to Multi Point Wi-Fi Mesh with AOS10 APs

This is the continuation of [Wi-Fi Mesh with AOS10 APs technote](#) in which we'll build on the previous mesh solution and demonstrate the following

- Wi-Fi-Mesh solution for Point to Multi Point (PMP) networks
- Ethernet Bridging across the PMP mesh network
- Testing the Ethernet bridging across PMP
- Use Central Automation Studio for Wi-Fi Mesh visualisation and statistics



2.1 Things you need

- Aruba AOS10 10.7.x.x or later
- 3x APs (I am using AP-605H and AP-615)
- A Layer three switch and some Wi-Fi and wired clients

2.2 Assumptions

The “Wi-Fi Mesh with AOS10 APs” was read and the setup was configured accordingly. This means that all the APs shown above are configured and Mesh-Cluster 89 is operational.

3 Mesh Configuration

This is just a re-cap of the configuration steps needed. The main points is that we'll assign specific Mesh Point and Mesh Portal roles to our APs and don't leave it as Auto. Also we'll configure appropriate names so we can easily identify the APs.

The screenshot shows the 'Access Points' configuration page. The left sidebar has 'Mesh-Lab' selected. The top navigation bar includes 'Summary', 'List', and 'Config' buttons. The 'Access Points' tab is active, showing a table with 3 devices.

| Name | Status | IP Address | WLANs | Radio Profile | Type |
|-----------------|--------|-------------|--------------------|---------------|---------|
| MeshPoint:09:0c | Online | 10.10.10.32 | All SSIDs selected | default | AP-615 |
| MeshPoint:5d:6b | Online | 10.10.10.29 | All SSIDs selected | default | AP-605H |
| Portal:5e:b5 | Online | 10.10.10.45 | All SSIDs selected | default | AP-605H |

3.1 Mesh Cluster Configuration

Since we'll be using one mesh cluster we'll configure the mesh cluster at the group level.

The screenshot shows the 'Mesh' configuration page. The left sidebar has 'Mesh-Lab' selected. The top navigation bar includes 'Summary', 'List', and 'Config' buttons. The 'System' tab is active, showing the 'Mesh' section.

Mesh Role: None

Mesh Band: 6 GHz

| Name | Key | Priority | Opmode |
|----------------|-------|----------|----------|
| mesh-cluster89 | ***** | 1 | wpa3-sae |

Then at individual device level we'll assign the respective Mesh roles.

The screenshot shows the 'Portal:5e:b5' configuration page. The left sidebar has 'Portal:5e:b5' selected. The top navigation bar includes 'Summary', 'List', and 'Config' buttons. The 'System' tab is active, showing the 'Mesh' section.

Mesh Role: portal

Mesh Metric Mode: Central

Mesh Band: 6 GHz

| Name | Key | Priority | Opmode |
|----------------|-------|----------|----------|
| mesh-cluster89 | ***** | 1 | wpa3-sae |

3.2 Mesh Role Configuration

Here is the mesh role configuration for the two APs. The Mesh Portal was already configured in the previous technote.

Customer: Ariya Publ...

MeshPoint:5d:6b

Manage

Overview

Device

Clients

Security

Analyze

Live Events

Alerts & Events

Audit Trail

Tools

Access Point

WLANs

Access Points

Radios

Interfaces

Security

Third Party Tunnel

Services

System

IoT

Configuration Audit

Hide Advanced

Config

Mesh

Mesh Role: point

Mesh Metric Mode: Central

Mesh Band: 6 GHz

Mesh

| Name | Key | Priority | Opmode |
|----------------|-------|----------|----------|
| mesh-cluster89 | ***** | 1 | wpa3-sae |

Customer: Ariya Publ...

MeshPoint:09:0c

Manage

Overview

Device

Clients

Security

Analyze

Alerts & Events

Audit Trail

Tools

Access Point

WLANs

Access Points

Radios

Interfaces

Security

Third Party Tunnel

Services

System

IoT

Configuration Audit

Hide Advanced

Config

Mesh

Mesh Role: point

Mesh Metric Mode: Central

Mesh Band: 6 GHz

Mesh

| Name | Key | Priority | Opmode |
|----------------|-------|----------|----------|
| mesh-cluster89 | ***** | 1 | wpa3-sae |

3.3 Ethernet Bridging

Now we'll start the Ethernet bridging configuration that we covered in the previous technote. This configuration will be done at device level for both the Mesh Point APs. Here we are showing the configuration for one of the Mesh Point APs.

Customer: Ariya Publ...

MeshPoint:5d:6b

Manage

Overview

Device

Clients

Security

Analyze

Live Events

Alerts & Events

Access Point

WLANs

Access Points

Radios

Interfaces

Security

Third Party Tunnel

Services

System

IoT

Configuration Audit

Hide Advanced

Config

Networks > Configuration - Eth-Bridging

General

VLANs

Security

Access

Summary

Name: Eth-Bridging

ports: Ethernet 0/0

Advanced Settings

Access Point

Config

WLANs
Access Points
Radios
Interfaces
Security
Third Party Tunnel
Services
System
IoT
Configuration Audit

Hide Advanced

Create a New Network

1 General
2 VLANs
3 Security
4 Access
5 Summary

Name: Eth-Bridging
ports: Ethernet 0/0

Advanced Settings

Speed/Duplex: Auto Auto
Port Mode: Downlink/unbonded
Power over Ethernet: ☐
Disable Wired Port When: None
Admin Status: Up
Spanning Tree: ☐
Loop Protection: ☒
Loop Detection Interval: 2 Sec(s)
Storm Control Broadcast: ☒
Storm Control Threshold: 2000 Packets per Second
Auto Recovery: ☐
Inactivity timeout: 1000 Seconds
802.3az: ☐
Deny Intra VLAN Traffic: ☐

We'll assign the VLAN 12 for the Access mode

Access Point

Config

WLANs
Access Points
Radios
Interfaces
Security
Third Party Tunnel
Services
System
IoT
Configuration Audit

Hide Advanced

Create a New Network

1 General
2 VLANs
3 Security
4 Access
5 Summary

Mode: Access
Traffic forwarding mode: ☒ Bridge

i
Devices level only support bridge mode under 10X group

Access VLAN: 12
VLAN Assignment Rules

Note that if you want to add LAN switches instead and need VLAN trunking, then you can change the “mode” from Access to Trunk.

Access Point

Config

WLANs
Access Points
Radios
Interfaces
Security
Third Party Tunnel
Services
System
IoT
Configuration Audit

Hide Advanced

1 General
2 VLANs
3 **Security**
4 Access
5 Summary

Security Level:

802.1X Authentication
MAC Authentication
Visitors
Open

This is an unsecured network. Users will connect to the network without any authentication.

PORT TYPE TRUSTED :

☐

> Advanced Settings

Access Point

Config

WLANs
Access Points
Radios
Interfaces
Security
Third Party Tunnel
Services
System
IoT
Configuration Audit

Hide Advanced

Create a New Network

1 General
2 VLANs
3 Security
4 **Access**
5 Summary

Access rules

Role Based
Network Based
Unrestricted

Unrestricted option allows full access to the network. This may lead to potential security issues.

Remember that since this is the Mesh-Point and enabling Eth0 bridging is done by setting it to downlink. We can check that with this CLI command.

```
MeshPoint:5d:6b# sh wired-port-settings

Wired Port Profiles
-----
Name      Speed  Duplex  POE    In Use  VLAN Mode  Allowed VLANs  Native VLAN  Admin Status  Role
-----
wired-SetMeUp  auto  auto    No     Yes     None      all            guest        Up             wired-SetMeUp
default_wired_port_profile  Trunk  all            ap-ip-vlan(1)  Up
default_wired_port_profile  auto  full    No     No      None      No            No            No
Eth-Bridging  auto  auto    Yes    Yes     Access   all            12           Up             Eth-Bridging
auto  auto    Yes    Yes     None      No            No            No
Port Profile Assignments
-----
Port      Profile Name
-----
0         Eth-Bridging
1         wired-SetMeUp
2         wired-SetMeUp
3         wired-SetMeUp
4         wired-SetMeUp
USB       wired-SetMeUp

MeshPoint:5d:6b#
```

You should then reboot the APs for this change to take effect. Note that if an AP is set to Ethernet 0 bridging, it always acts as a mesh point.

3.4 Central Automation Studio for Mesh cluster

As covered in the first part, we'll configure API gateway and then use [Central Automation Studio](#) (CAS) to visualise the mesh links. You can refer to the "[Wi-Fi Mesh with AOS10 APs](#)".

But to recap you need the following info to add to CAS

- Customer ID
- Client Id
- Client secret
- Access_token
- Refresh_token

Central Automation Studio: Settings

Save & Go To Dashboard

Central API Settings

Add New Central Account

| NAME | CLUSTER | CLIENT ID | CLIENT SECRET | ACCESS TOKEN | REFRESH TOKEN | ACTIONS |
|----------------------------|---------|-----------|---------------|--------------|---------------|---------|
| No data available in table | | | | | | |

☒ Reveal Tokens And Secrets

Central Automation Studio: Settings

Add New Central Account

Name: Ariya-Central

Cluster: APAC-SOUTH1

Customer ID: le6c02014

Client ID: 376aRnKC

Client Secret: iHB9h0xT

Access Token: /8qCWKJ

Refresh Token: 21H4P4e

Cancel Save



☒ Reveal Tokens And Secrets

Central Automation Studio: Settings

Save & Go To Dashboard


Central API Settings


Add New Central Account


| NAME | CLUSTER | CLIENT ID | CLIENT SECRET | ACCESS TOKEN | REFRESH TOKEN | ACTIONS |
|---------------|-------------|-----------|---------------|--------------|---------------|---|
| Ariya-Central | APAC-SOUTH1 | | | | |   |


☒ Reveal Tokens And Secrets


Then once you click on Save and go to dashboard, you should see this dashboard for the account that you just added.


 Central Automation Studio








 Connected Clients
4

 Access Points
19

 Switches
6

 Gateways
9


 Sites
9

 Groups
17

Automated Workflows


CSV Upload Workflows

Deployments using CSV upload




Site based Workflows

Automation using selected Sites




Barcode Scanner Input

Add Devices and Generate CSVs



MSP based Workflows


Automation for MSPs



Configuration Deployment


AP Group

Modify & Deploy




WLANS

Modify & Deploy




User Roles

Modify & Deploy for APs




Authentication Servers

Modify & Deploy for APs




MPSK-Local

Modify MPSKs




CloudAuth MPSK

Modify CloudAuth Named MPSKs




Denylisting

View and Manage Client Denylisting




Switches

For Template Switches




Gateways

View & Modify




Country Codes

Configure AP Country Codes



Bulk AP


Configure multiple APs at the same time



Central Services


AirMatch

Statistics & Control




ClientMatch

Statistics & Control




Key Management Service

Troubleshooting & Visibility




Device Inventory

View & Download



License Monitoring

View & Download



There are also Monitoring, Statistics and Troubleshooting sections in the dashboard that is not shown.

Now we are ready to test our environment.

4 Solution Testing

4.1 Point to Multi Point Mesh Testing

Here we'll check to see if our mesh cluster is formed and established between the three APs.

We'll start with Mesh Portal AP.

```
Portal:5e:b5# sh ap mesh link

Neighbor list
-----
Radio  MAC              AP Name          Portal          Channel  Band  Age  Hops  Cost  Relation
Flags  RSSI   Rate Tx/Rx      A-Req  A-Resp  A-Fail  HT-Details      Cluster ID
-----  ---
1      48:b4:c3:90:90:c0  MeshPoint:09:0c  50:e4:e0:14:17:81  5-      6GHz  0    1     8.00  C 4h:51m:19s
ELK    16      1152/1361      1      1      0      HE-40MHzzsgi-2ss  e1baf29f4ca4ed35645e0a937d9c9c7
1      50:e4:e0:14:0e:40  MeshPoint:5d:6b  50:e4:e0:14:17:81  5-      6GHz  0    1     8.00  C 17m:11s
VLK    38      2041/2268      5      5      0      VHT-40MHzzsgi-2ss e1baf29f4ca4ed35645e0a937d9c9c7

Total count: 2, Children: 2
Relation: P = Parent; C = Child; N = Neighbor; B = Denylisted-neighbor
Flags: R = Recovery-mode; S = Sub-threshold link; D = Reselection backoff; F = Auth-failure; H = High
Throughput; V = Very High Throughput, E= High efficient, L = Legacy allowed
K = Connected; U = Upgrading; G = Descendant-upgrading; Z = Config pending; Y = Assoc-resp/Auth
pending
a = SAE Accepted; b = SAE Denylisted-neighbour; e = SAE Enabled; u = portal-unreachable; o =
opensystem; m = Mobility Enabled

Portal:5e:b5#
```

And here are the Mesh Point APs

```
MeshPoint:09:0c# sh ap mesh link

Neighbor list
-----
Radio  MAC              AP Name          Portal          Channel  Band  Age  Hops  Cost  Relation
Flags  RSSI   Rate Tx/Rx      A-Req  A-Resp  A-Fail  HT-Details      Cluster ID
-----  ---
1      50:e4:e0:14:17:81  Portal:5e:b5     Yes      5S      6GHz  0    0     2.00  P 2h:16m:0s  ELK
30     136/544           3      2      1      HE-160MHz-2ss  e1baf29f4ca4ed35645e0a937d9c9c7

Total count: 1, Children: 0
Relation: P = Parent; C = Child; N = Neighbor; B = Denylisted-neighbor
Flags: R = Recovery-mode; S = Sub-threshold link; D = Reselection backoff; F = Auth-failure; H = High
Throughput; V = Very High Throughput, E= High efficient, L = Legacy allowed
K = Connected; U = Upgrading; G = Descendant-upgrading; Z = Config pending; Y = Assoc-resp/Auth
pending
a = SAE Accepted; b = SAE Denylisted-neighbour; e = SAE Enabled; u = portal-unreachable; o =
opensystem; m = Mobility Enabled

MeshPoint:09:0c#
```

```
MeshPoint:5d:6b# sh ap mesh link

Neighbor list
-----
Radio  MAC              AP Name          Portal          Channel  Band  Age  Hops  Cost  Relation
Flags  RSSI   Rate Tx/Rx      A-Req  A-Resp  A-Fail  HT-Details      Cluster ID
-----  ---
1      50:e4:e0:14:17:81  Portal:5e:b5     Yes      5S      6GHz  0    0     2.00  P 20m:49s  ELK
36     2268/1921         4      2      2      HE-160MHz-2ss  e1baf29f4ca4ed35645e0a937d9c9c7

Total count: 1, Children: 0
Relation: P = Parent; C = Child; N = Neighbor; B = Denylisted-neighbor
Flags: R = Recovery-mode; S = Sub-threshold link; D = Reselection backoff; F = Auth-failure; H = High
Throughput; V = Very High Throughput, E= High efficient, L = Legacy allowed
K = Connected; U = Upgrading; G = Descendant-upgrading; Z = Config pending; Y = Assoc-resp/Auth
pending
```

a = SAE Accepted; b = SAE Denylisted-neighbour; e = SAE Enabled; u = portal-unreachable; o = opensystem; m = Mobility Enabled

MeshPoint:5d:6b#

4.2 Wired Client Testing

Now that we have configured and rebooted the AP for Ethernet bridging, we'll connect a wired client to the Eth0 interface of each of the Mesh point AP. Here we'll check if the client is listed in the client table and has a correct IP address on VLAN 12. Since we have made the port untrusted, we can see the wired clients with this command.

```
MeshPoint:5d:6b# sh clients wired
```

Wired Client List

| Name | IP Address | MAC Address | OS | Network | Access Point | Role |
|------|-------------|-------------------|--------|---------|-----------------|--------------|
| T420 | 10.10.12.37 | f0:de:f1:64:0a:82 | Win 10 | eth0 | MeshPoint:5d:6b | Eth-Bridging |

MeshPoint:5d:6b#

```
MeshPoint:09:0c# sh clients wired
```

Wired Client List

| Name | IP Address | MAC Address | OS | Network | Access Point | Role |
|----------|-------------|-------------------|------|---------|-----------------|--------------|
| T440-SSD | 10.10.12.46 | 28:d2:44:52:c2:38 | NOFP | bond0 | MeshPoint:09:0c | Eth-Bridging |

MeshPoint:09:0c#

And here is the client view for the Mesh APs.

Customer: Ariya Publ...

Mesh-Lab

Manage

Overview

Devices

Clients

Guests

Applications

Clients

3 hours

List

Summary

CLIENTS

ALL

992.59 MB (13 MB | 979.59 MB)

All 2

Connecting 0

Connected 2

Failed 0

Offline 0

Blocked 0

Wireless 0

Wired 2

Remote 0

| Client Name | Status | IP Address | VLAN | Connected To | SSID/Port | AP Role |
|-------------|-----------|-------------|------|-----------------|-----------|--------------|
| T420 | Connected | 10.10.12.37 | 12 | MeshPoint:5d:6b | eth0 | Eth-Bridging |
| T440S-SSD | Connected | 10.10.12.46 | 12 | MeshPoint:09:0c | eth0 | Eth-Bridging |

And as you can see, we have one wired client on each Mesh Point AP.

Now to ensure we have connectivity between the wired clients we'll ping one from the other. Here we are pinging 10.10.12.37 from 10.10.12.46

Customer: Ariya Publ...

← 28:d2:44:52:c2:38

Manage

Overview

Applications

Security

Analyze

Live Events

Summary

AI Insights

Sessions

Profile

SESSIONS

ACCESS POINT

Total sessions: 36

Last refreshed: 7:40:15 PM

IP Address | 10.10.12.46 (36)

| Application | Source | Destination | Protocol | Source Port | Destination Port | Action | Flags | Packet Count |
|-----------------------------------|----------------|---------------|----------|-------------|------------------|--------|-------|--------------|
| Domain Name Service | 10.10.12.46 | 192.168.1.131 | UDP | 53391 | 53 | Permit | I F C | 1 |
| Microsoft | 23.206.199.... | 10.10.12.46 | TCP | 443 | 58409 | Permit | -- | 10 |
| Domain Name Service | 192.168.1.131 | 10.10.12.46 | UDP | 53 | 51417 | Permit | I F | 1 |
| Internet Control Message Protocol | 10.10.12.37 | 10.10.12.46 | ICMP | 27 | 0 | Permit | I F | 1 |
| Internet Control Message Protocol | 10.10.12.37 | 10.10.12.46 | ICMP | 26 | 0 | Permit | I F | 1 |

And this is the session table of the other wired client that shows the ICMP ping traffic between them.

Customer: Ariya Publ...

← T420

Manage

Overview

Applications

Security

Analyze

Live Events

Summary

AI Insights

Sessions

Profile

SESSIONS

ACCESS POINT

Total sessions: 48

Last refreshed: 7:42:11 PM

IP Address

10.10.12.37

(48)

| | Application | So... | De... | Pr... | So... | De... | Ac... | Flags | Pa... |
|---|-----------------------------------|----------------|-------------|-------|-------|-------|--------|-------|-------|
| > | Microsoft | 172.172.255... | 10.10.12.37 | TCP | 443 | 58656 | Permit | -- | 50 |
| > | User Datagram Protocol | 110.175.184... | 10.10.12.37 | UDP | 443 | 57483 | Permit | F | 1574 |
| > | Internet Control Message Protocol | 10.10.12.37 | 10.10.12.46 | ICMP | 145 | 0 | Permit | I F | 1 |
| > | Internet Control Message Protocol | 10.10.12.37 | 10.10.12.46 | ICMP | 144 | 0 | Permit | I F | 1 |
| > | Internet Control Message Protocol | 10.10.12.37 | 10.10.12.46 | ICMP | 147 | 0 | Permit | I F | 1 |

4.3 Central Automation Studio Visualisation

Since we have operational PMP mesh network, you can use the [Central Automation Studio \(CAS\)](#) to quickly check the basic statistics and other useful information. CAS is a frontend to the Aruba Central APIs and I covered how you can configure it for your Aruba Central Account.

You can refer to Wi-Fi Mesh with AOS10 APs technote. Here is the monitoring and statistics CAS dashboard after it is successfully configured for my Central account. We'll select Mesh for Wi-Fi Mesh visualisation and stats.

Central Automation Studio

↻
⋮

Monitoring and Statistics

Client Statistics

View a variety of Client statistics

AP Statistics

View a variety of AP statistics

Switch Statistics

View a variety of Switch statistics

AP Rebooting

Reboot APs or Clusters

RAPIDS

Monitor Rogue APs

Mesh

Monitor Mesh APs

VisualIRF

Monitoring using Floorplans

Event Dashboard

Dashboard for Event Wi-Fi Networks

It will then display all the Mesh Portal APs in the Aruba Central account. Here we'll click on the "Topology" for our Lan mesh Portal AP.

Mesh Portals

SHOW 10 ENTRIES

Search Portals

NAME STATUS STATUS TEXT IP ADDRESS MODEL SERIAL MAC ADDRESS SITE GROUP UPTIME ACTIONS

2 months

Topology

Portal:5e:b5



Up

10.10.10.45

605H

CNR5LHJ111

f0:1a:a0:2a:5e:b5

Mesh-Lab

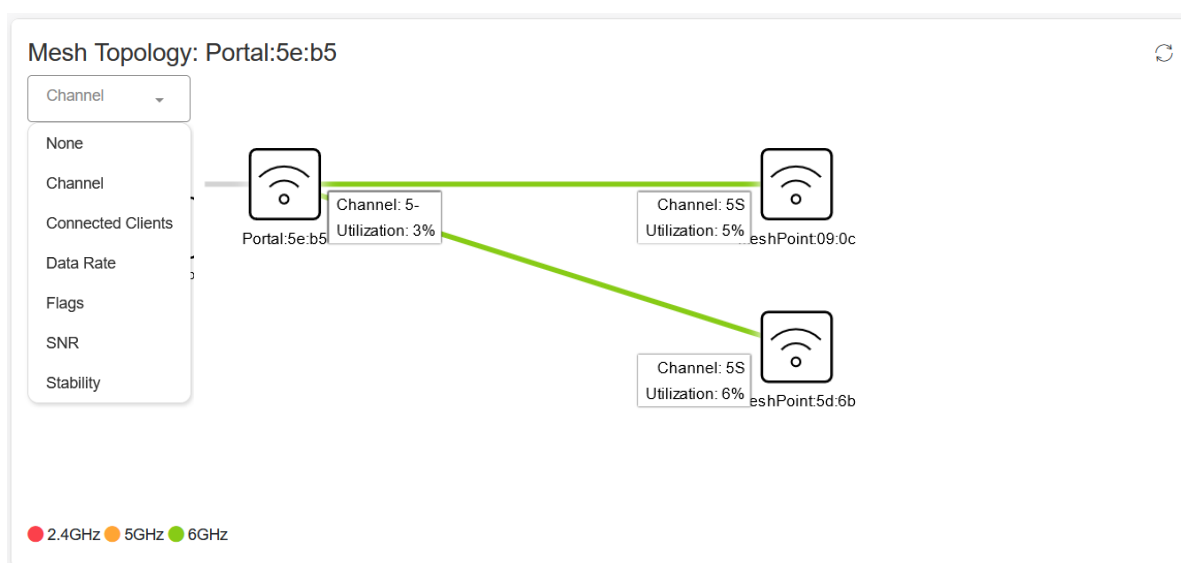
6 hours

Topology

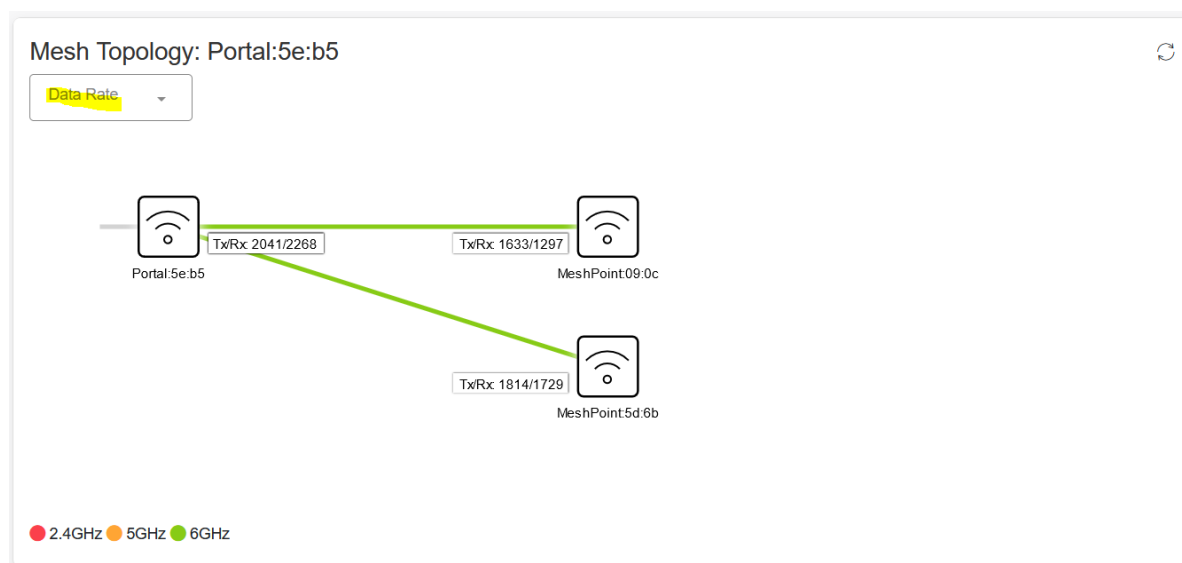
Showing 1 to 2 of 2 entries

Previous 1 Next

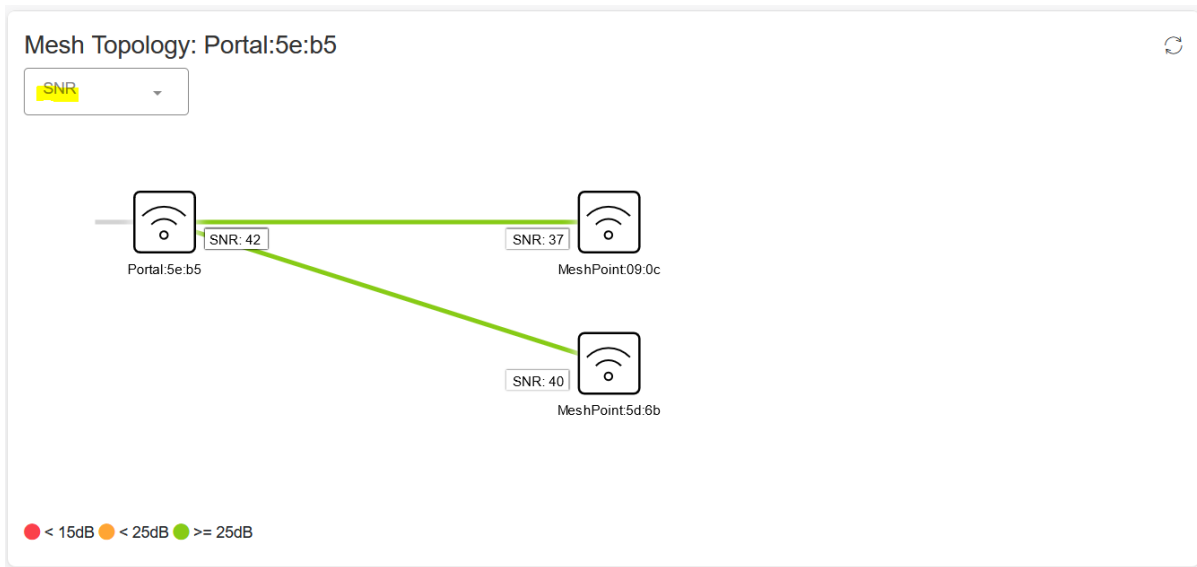
It then brings up the following showing the MPM mesh network initially indicating that it is using 6GHz band. You can select the various options available in the drop-down menu. Here we are selecting the channel.



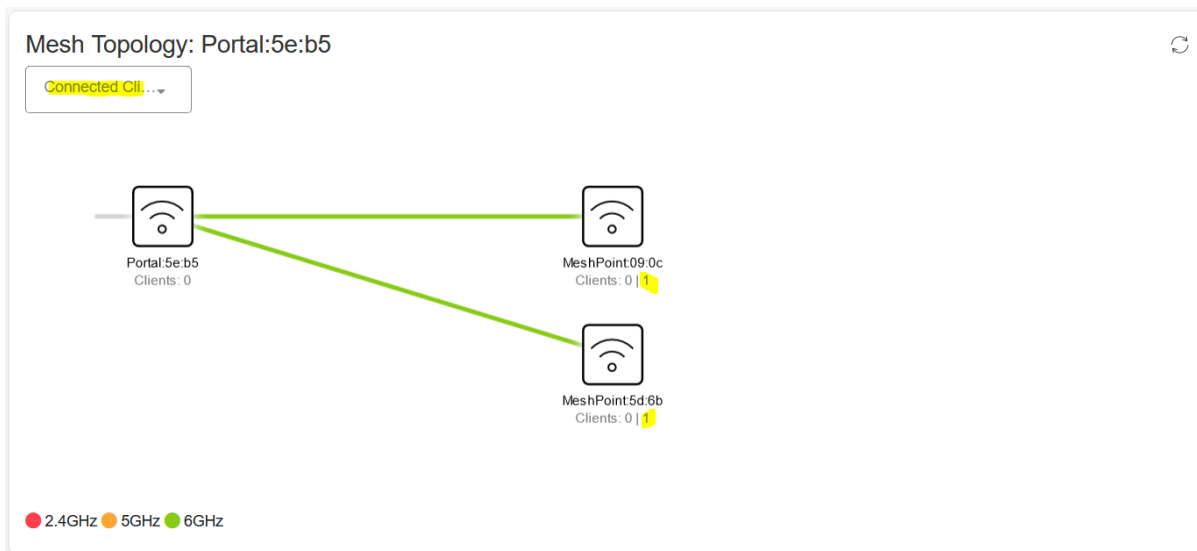
Next, we'll check the data rates. It shows Tx/Rx in Mbps.



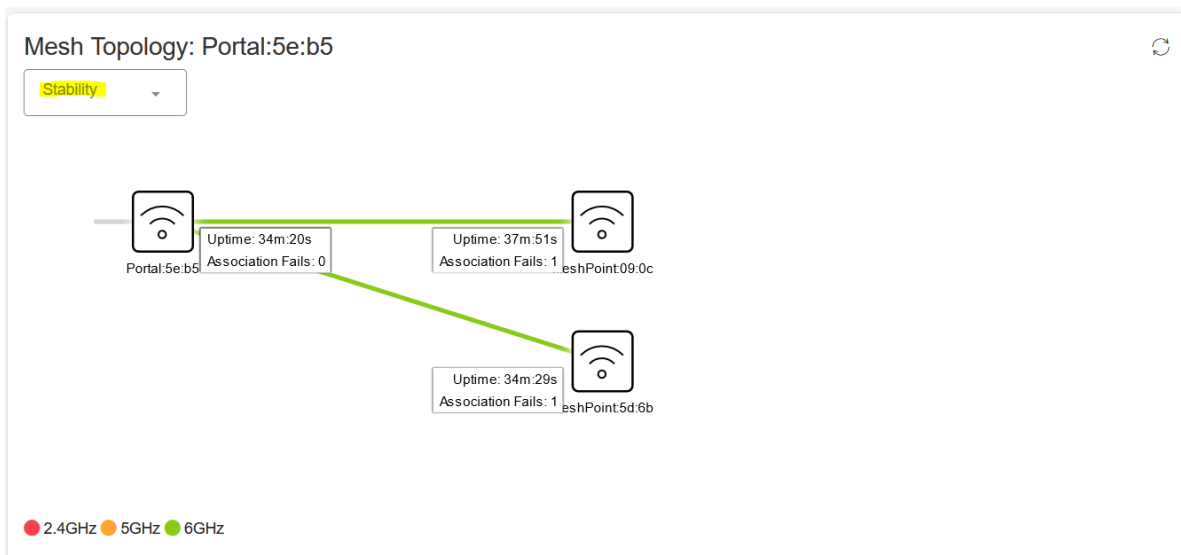
We can also check the SNR as shown below.



Here it shows the connected clients, and the format is 'Wireless Clients | Wired Clients'. We see there is one wired client per Mesh Port AP.



And lastly the stability of the PMP mesh network.



4.4 Mesh Statistics

You can also get the Mesh statistics directly from the CLI of the Mesh Portal AP.

First you need the IP address of the Portal AP, you can get that with "Show ap mesh cluster active".

```
Portal:5e:b5# sh ap mesh cluster active

Mesh Cluster name: e1baf29f4ca4ed35645e0a937d9c9c7
-----
Name          AP Type Mesh Role IP Address  Portal AP  Parent AP  RSSI  Last Update  Uplink
Age  Children Num  Children List  -----  -----  -----  ----  -----  -----
-----
Portal:5e:b5  AP-605H  Portal      10.10.10.45  Portal:5e:b5  -          0      12s
8h:55m:34s  2      MeshPoint:09:0c,MeshPoint:5d:6b

Total APs: 1
(N): 11N Enabled. (AC): 11AC Enabled. (AD): 11AD Enabled. (AX): 11AX Enabled. For Portals 'Uplink
Age' equals uptime.

Portal:5e:b5#
```

Then use the IP addresses of the Portal with this command "show ap mesh cluster stats" as shown below.

```
Portal:5e:b5# sh ap mesh cluster stats 10.10.10.45

Radio ID : 0
Mesh link on radio : No

Radio ID : 1
Mesh link on radio : Yes
Mesh link band : 6G
Children Num : 2
Children List : MeshPoint:09:0c,MeshPoint:5d:6b
Metrics stats:
-----
Timestamp  RSSI  Channel Utilization (%)  Goodput [Tx] (bps)  Goodput [Rx] (bps)  Throughput [Tx] (bps)
Throughput [Rx] (bps)
-----
-----
19:49:43  0      4      629564640      291026619      375573
13589
19:48:12  0      3      605986130      309550945      379722
14772
19:46:42  0      5      670417934      239321927      469114
16773
19:45:10  0      3      1179181781      399710620      992246
20908
19:43:39  0      3      1356917134      372098746      1128331
21554
19:42:09  0      3      963927217      364064796      871803
20272
19:40:37  0      2      1103603257      310902730      813968
20921
19:39:07  0      3      779167242      311511025      446697
14296
19:37:36  0      4      934770467      305289021      578143
14652
19:36:05  0      3      684839021      266031883      434018
18908
19:34:34  0      4      731038496      329658235      368088
11757
19:33:03  0      5      779965349      260488687      471448
15198
19:31:33  0      4      1124929763      310969558      731192
17980
19:30:01  0      4      1284534637      531260885      1771191
31945
19:28:30  0      4      556940644      467683864      1091853
64125

Radio ID : 2
Mesh link on radio : No

Portal:5e:b5#
```