

EnOcean and Aruba Controller Guide AOS8



STEP BY STEP GUIDE TO CONFIGURATION

aruba

MOBILITY MASTER
MM-Homelab

CONTROLLERS

20

ACCESS POINTS

20

CLIENTS

30

ALERTS

0

?

admin

Managed Network > HomeLab-VMC >

Dashboard

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Roles & Policies

Access Points

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Roles

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Aliases

Roles 14

NAME	RULES
logon	32 Rules
guest	11 Rules
ap-role	35 Rules
stateful-dot1x	0 Rules
guest-logon	27 Rules
sys-ap-role	24 Rules
sys-switch-role	24 Rules

ArubaMM-VA, 8.8.0.0

Open the Controller you wish to run the IoT sensors out of with the relevant AP containing the EnOcean Dongle.

Select configuration and then IoT.

Note this is AOS8.8 but can be setup in AOS8.7.1

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Zigbee service profiles

Zigbee socket device profiles

Transport Stream

NAME	TYPE	URL	STATE	REPORTING INTERVAL	
Blyott-Demo	Telemetry-Https	http://proxylocator.blyott...	Enabled	60	
EnOcean	Telemetry-Websocket	ws://green-ape-29.mobiu...	Enabled	15	
+ ←					

Once you have selected IoT you will see a screen with 4 tabs across the top. Select Transport Streams and the plus sign to add a new stream.

(please note. In this example there is an EnOcean stream already configured)

- WLANs
- Roles & Policies
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- AP Groups
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New transport stream

Name:

← Name the Tansport Stream

State:

☒ Enable ☐ Disable

Server type:

Meridian-Beacon-Management ▾

← open drop down and select Telemetry Websocket

Server URL:

← enter the Server URL ie.ws://green-ape-29.mobiusflow.io:30817/mobiusflow

Device classes:

☐ aruba-beacons

Reporting interval:

600

seconds

Text

▼ Authentication

Method:

☐ Use credentials ☒ Use Token ☐ Client credentials

Access token:

← you will be given a token or access credentials depending on the Data lake ie IAConnects (Mobious Flow)

Client ID:

> Proxy server

> Device filters

> AP groups

You will now see a new menu appear below the plus sign. First name the stream.

Then server type we will be using the Telemetry Websocket.

You will be given a server URL to point the sensor information at and credentials.

This example is Mobius Flow to allow the sensors to report directly to their dashboard

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Name: Enocean

State: ☒ Enable ☐ Disable

Server type: Telemetry-Websocket

Server URL: ws://green-ape-29.nr

Device classes:

- ☐ wiliot
- ☐ ZSD
- ☒ serial-data
- ☐ exposure-notification
- ☐ onity
- ☐ minew
- ☐ google

Reporting interval: 15 seconds ☐ Report only device countsBLE packet forwarding: ☐

RSSI reporting format: average

Environment type: office

> Authentication

> Proxy server

> Device filters

▼ AP groups

Available AP groups

default



Selected AP Groups

Homelab

Once TeleWebsocket is selected choose serial-data from the drop down and not the enocean sections

Change the reporting time to less than 60

Text

you are able to select a reporting format, Average is default or smooth

Choose your environment from office to custom

Cancel

Submit

When Telemetry Websocket has been selected a menu box will appear. These are the device options. Select Serial-Data.

Change the reporting interval to 15 seconds.

The RSSI reporting format can be changed to Smooth or average.

And the environment type can be changed to suit the installation

Device classes:

- ☐ aruba-tags
- ☐ zf-tags
- ☐ enocean-sensors
- ☐ enocean-switches
- ☐ ibeacon
- ☐ all

Reporting interval:

15

seconds

☐ Report only device counts

BLE packet forwarding:

☐

RSSI reporting format:

average



Environment type:

office



> Authentication

> Proxy server

> Device filters

▼ AP groups

Available AP groups

default

NoAuthApGr



Selected AP Groups

Homelab



select the AP group the Dongle is placed into

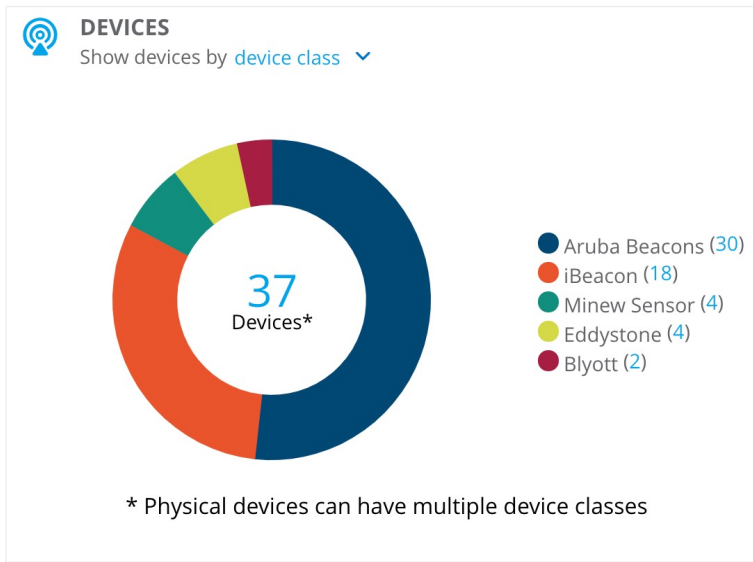
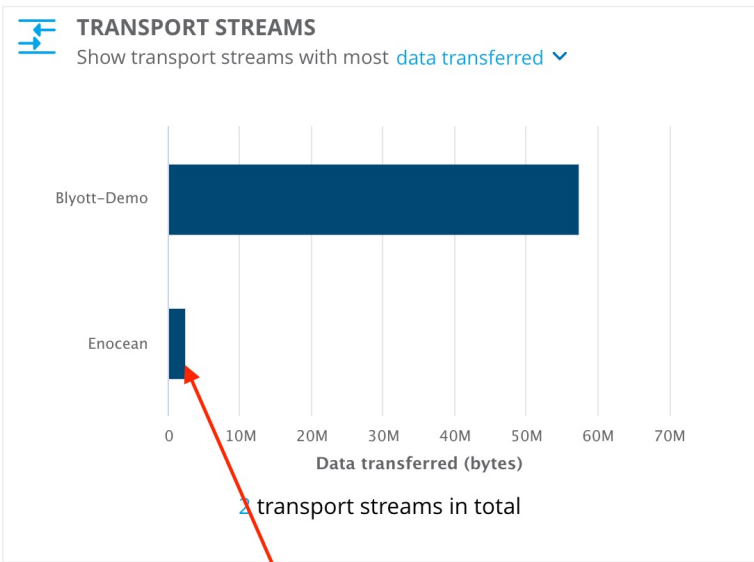
Cancel

Submit

Finally, move the AP group associated with the sensors into the selected AP group.

This should now set up the USB Dongle to talk to the sensors and report back to the Dashboard of choice. Mobius Flow is the dashboard used in this example and the server url and token were generated by IAConnects.

- Dashboard
- Overview
- Infrastructure
- Traffic Analysis
- Security
- Services
- IoT
- Configuration
- Maintenance



when configured you will see data from the streams being produced by the sensors

By selecting Dashboards from the Managed Network in your Hierarchy view, you can see the IoT dashboard.

This shows again the connection to your choice of endpoint and the data passing through the AP and Controller


```
(VMC1) #show ble_relay disp-attr all
```

```
-----Profile[Enocean]-----
```

```
WebSocket Connect Status      : Connection Established
```

```
WebSocket Connection Established : Yes
```

```
Location Id                   : Not Configured
```

```
WebSocket Address             : ws://green-ape-29.mobiusflow.io:30817/mobiusflow
```

```
WebSocket Host                : green-ape-29.mobiusflow.io:30817
```

```
WebSocket Path                : mobiusflow
```

```
Vlan Interface                : Not Configured
```

```
Current WebSocket Started at  : 2021-05-10 05:53:05
```

```
Last Send Time                : 2021-05-13 10:25:29
```

```
WebSocket Write Stats         : 12204 (2310595B)
```

```
WebSocket Write WM            : 0B (0)
```

```
WebSocket Read Stats          : 1 (61B)
```

```
=====
```

```
WebSocket Connect Request     : Yes
```

```
Tag Logging                   : Off
```

```
WS LogLevel                   : 31
```

```
BR LogLevel                   : 0 (0x0)
```

```
Note: BR Loglevel List: AP-Transport-Profile (0x1), APB Info (0x2), CLI (0x4), Config (0x8), Beacon Mgmt (0x10),  
Asset Tracking (0x20), Telemetry WS (0x40), Telemetry HTTPS (0x80), ZF (0x100), SB API(0x200), WSS (0x400).
```

```
Note: WS Loglevel List: Error (0x1), Warn (0x2), Notice (0x4), Info (0x8),  
Debug (0x10), Parser (0x20), Header (0x40), Ext (0x80), Client (0x100), Latency (0x200).
```

```
(VMC1) #
```

Open a CLI and connect to your controller and run the following command:

```
#show ble_relay dist-attr all
```

As you will see a connection has been made via websocket and confirmation of the destination and timestamps are available.