

Ayla OEM Dashboard User Manual



Version: 3
Date Released: April 18, 2016
Document Number: AY006UDB3-3



Table of Contents

Introduction	5
Audience	5
Customer Support.....	5
Related Documentation	5
Overview of the Ayla OEM Dashboard.....	6
How to Log In.....	6
The Ayla OEM Dashboard Interface	7
Roles in the Ayla OEM Dashboard	7
OEM Profile	8
Profile Tab	8
Editing an OEM Profile	9
Apps	9
Creating New Applications	9
SMTP Settings	11
Creating New SMTP Settings	11
Email Templates	12
Adding a New Email Template	13
OAuth Credentials	14
Creating New OAuth Credentials	14
Trigger Intervals.....	15
Updating Trigger Levels	15
OAuth Application	16
How to add an OAuth Application.....	16
OEM Users	17
Create an OEM User.....	17
Delete an OEM User.....	19
User Details	19
Editing/Updating User's Detail	20
User Meta Data.....	22
View User Metadata.....	22
OEM User Share.....	22
View User Shares.....	22
OEM User Contacts	23
View OEM User Contacts.....	23
Create a New Contact.....	23
Devices.....	25

Device Search	25
Creating Groups.....	27
Editing Groups	28
Mapping Devices	29
Updating Setting.....	31
Template	32
Changing the Device Template.....	32
LAN Support	33
Enabling LAN Support	33
Device Controls.....	34
View/Update Device Setup Modes	34
Log Levels	35
Editing Log Levels.....	35
Logs	36
Searching and Accessing Logs	36
Searching Logs.....	37
Location.....	38
Connection History	38
Additional Devices Views	39
Properties.....	39
Create a New Property.....	40
Commands	42
Deleting All Commands.....	42
Schedules	42
TimeZones	43
Notifications	45
Metadata.....	45
Ayla Images	46
Host MCU Images	47
Nodes	48
End Users	49
Searching End Users.....	49
End User Details.....	52
End User Metadata	53
End User Shares.....	53
End User Contacts.....	54
End User Devices	54
Create a new End User	55
OTA.....	57

Ayla Images	58
Host MCU Images	59
How to update a Host Application	60
Preparing the Host OTA	60
Starting an OTA Job	60
Creating a New Host MCU Image	61
Host MCU OTA.....	62
Perform the MCU OTA	62
DataStream	65
Data Streams Subscriptions	65
Creating a New Subscription	65
Access Rules	66
Connection Logs.....	67
Glossary	69

Introduction

This document provides information on how to use the Ayla OEM Dashboard. The OEM Dashboard allows you to manage your deployment of Ayla Connected products.

NOTE: The Ayla OEM Dashboard is in process of being updated. The functionality will remain the same but the interface may be slightly different.

Audience

This document is written for all users of the Ayla OEM Dashboard. However, not all users have access to all views. You may find that you do not have access to some of the views described in this document. Access is determined by your company's policies. See page 7 for more information about roles and access.

Customer Support

Support and customer documentation is located at <http://support.aylanetworks.com>

Related Documentation

The following documents are referenced in this document; each document has a document name and a number in parenthesis. You can locate these documents at the Ayla support website using either the document name or number. If you do not find a document in your support site documents, contact your Customer Technical Lead or other Ayla support personnel.

- *Customizing Notification Messages* (AY006USE0)
- *OEM Roles and Privileges* (AY006UR3)
- *Cloud Templates User Guide* (AY006UTE3)
- *Host OTA Instructions App Note* (AY006USE4)

Overview of the Ayla OEM Dashboard

The Ayla Networks Dashboard is provided to all OEM's. It provides a place to view users, devices, templates, and other information for review and updating. The Ayla Networks Dashboard is also called the OEM Dashboard.

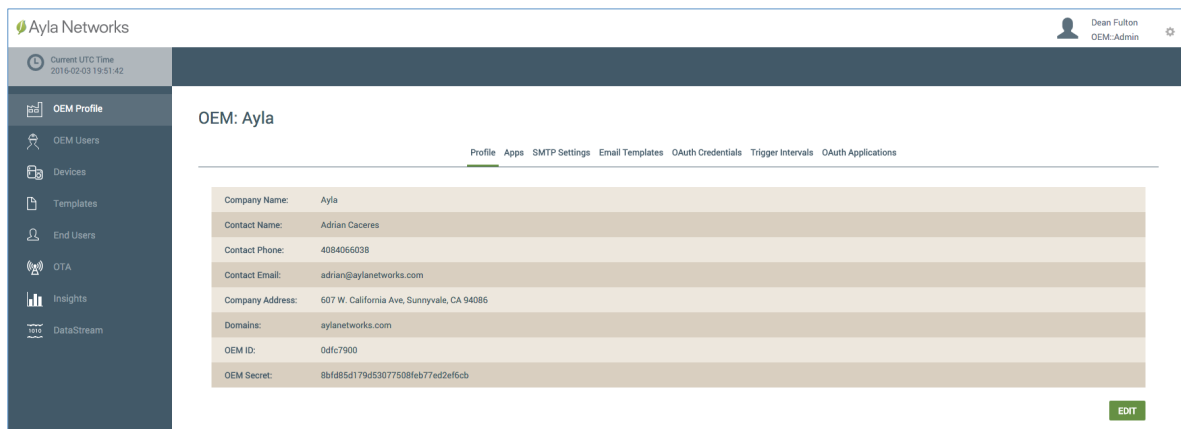


Figure 1 – OEM Dashboard

How to Log In

1. Go to <https://dashboardfield.aylanetworks.com>
2. Enter the same credentials as those you used to get into the Developers Portal.

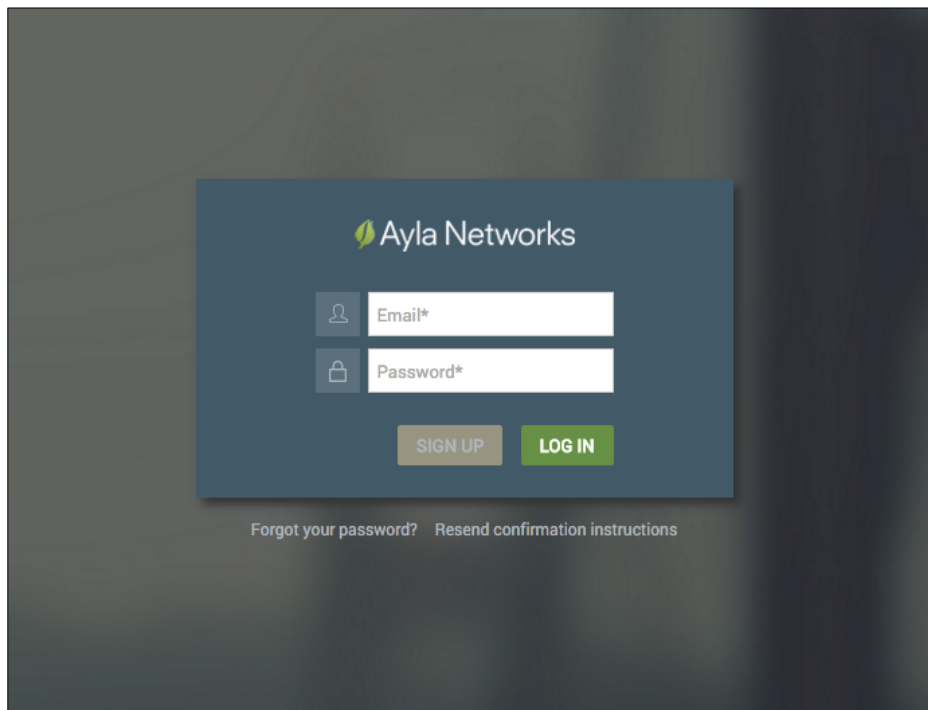


Figure 2 - OEM Dashboard Login

The Ayla OEM Dashboard Interface

After logging on to the OEM Dashboard you see the navigation bar on the left side of the screen. The default view is the **Devices** view. It displays your name and role on the right top of the screen.

This document discusses the following sections listed in the navigation bar:

1. OEM Profile
2. OEM Users
3. Devices
4. Templates
5. End Users
6. OTA
7. Insights
8. DataStream

Each view has different related links within the chosen view. In some cases there are other actionable buttons such as Edit, Actions, or Search. In some cases, you can click on an active link and additional information and options opens.

NOTE: A [Glossary](#) is provided at the end of this document. Common terms found in the OEM Dashboard are defined in the glossary.

Roles in the Ayla OEM Dashboard

OEM Dashboard Roles specify the access levels a user has to views. The OEM Roles and Privileges (AY006UR0) document provides complete information about roles. All users have access to devices registered to their account. The OEM roles and tasks they are allowed to perform are outlined below.

OEM Admin

- Create, update, or delete users and modify their privileges
- Access all public and OEM scope templates
- Only an admin can perform Host OTAs
- Access to all OEM devices

OEM Staff

- View all users and devices, but cannot make changes, read-only access
- Access all public and OEM scope templates

OEM Developer

- Access to all public and OEM scope templates
- Read and write access to their devices

End User

- Create, update, or delete their registered devices only, devices they own

OEM Profile

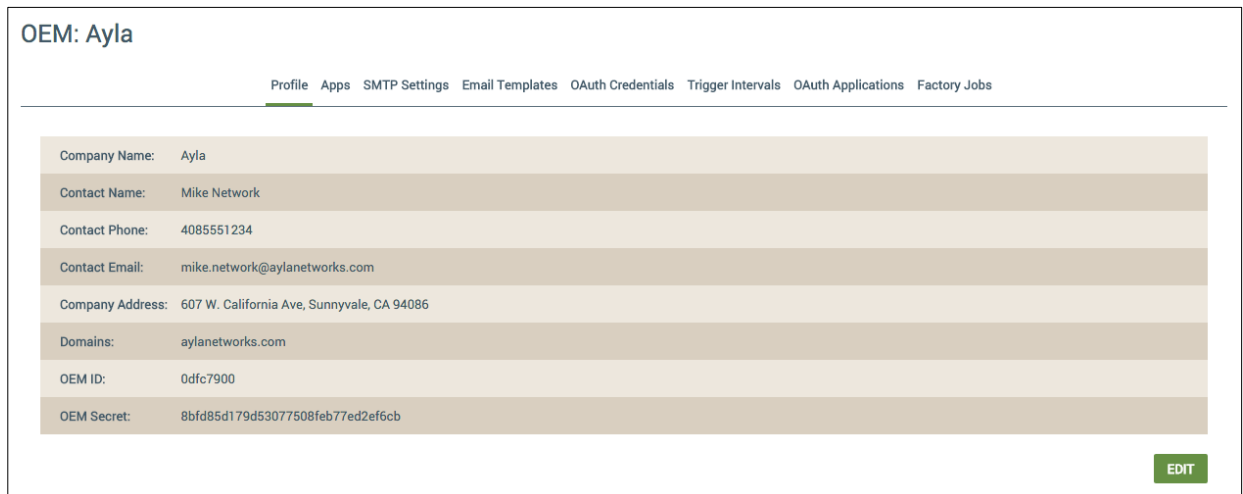
Click the OEM Profile tab in the navigation bar to access the following views:

- Profile
- Apps
- SMTP Settings
- Email Templates
- OAuth Credentials
- Trigger Intervals
- OAuth Applications

Each of these views are shown and described below. Where applicable, directions for changing values are included.

Profile Tab

The profile tab displays OEM specific information, such as Address, Name, Contact, Domains, OEM ID, and OEM Secret.



OEM: Ayla	
Profile Apps SMTP Settings Email Templates OAuth Credentials Trigger Intervals OAuth Applications Factory Jobs	
Company Name:	Ayla
Contact Name:	Mike Network
Contact Phone:	4085551234
Contact Email:	mike.network@aylanetworks.com
Company Address:	607 W. California Ave, Sunnyvale, CA 94086
Domains:	aylanetworks.com
OEM ID:	0dfc7900
OEM Secret:	8bfd85d179d53077508feb77ed2ef6cb

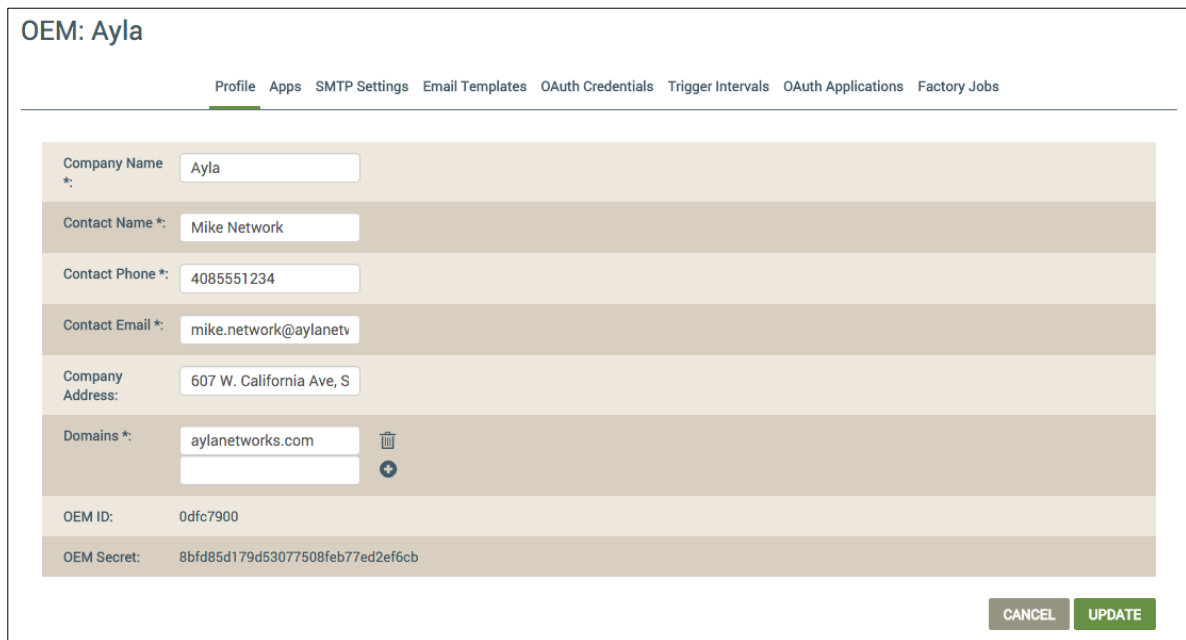
EDIT

Figure 3 – OEM Dashboard - Profile

Editing an OEM Profile

To edit a profile, perform the following steps:

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Profile** link from menu on the left side of the screen.
3. Select the **Profile** tab.
4. Click the **Edit** button. The profile screen view changes allowing you to edit and change the information in your profile.



OEM: Ayla

Profile Apps SMTP Settings Email Templates OAuth Credentials Trigger Intervals OAuth Applications Factory Jobs

Company Name *: Ayla

Contact Name *: Mike Network

Contact Phone *: 4085551234

Contact Email *: mike.network@aylanetv

Company Address: 607 W. California Ave, S

Domains *: aylanetworks.com

OEM ID: 0dfc7900

OEM Secret: 8bfd85d179d53077508feb77ed2ef6cb

CANCEL UPDATE

Figure 4 - OEM Dashboard – Edit Profile

Note: The OEM ID and OEM Secret are provide by Ayla and cannot be changed by the OEM.

5. Update your profile in the fields provided.
6. Click the **Update** button when you are done. You will receive a message displaying “Changes to your profile was successful.”

Apps

The Apps screen lists all your applications. Also included on the Apps screen are details about the Application Name, Application ID, Application Model and Application Secret.

Creating New Applications

To create a new application, perform the following steps:

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Profile** link from the menu on the left side of the screen.
3. Select the **Profile** tab.
4. Click the **Apps** button at the top of the OEM Profile menu. The Apps screen displays your applications, as shown in the below.

OEM: Ayla

Profile Apps SMTP Settings Email Templates OAuth Credentials Trigger Intervals OAuth Applications

CREATE NEW

PREV 1 - 10 of 39 NEXT

Search OEM Apps

SHOW: 10 25 50 100





Application Name	Application ID	Models	Application Secret	
AgileLinkDev	AgileLinkDev-id	[]	AgileLinkDev-4780291	
AgileLinkProd	AgileLinkProd-id	[]	AgileLinkProd-8249425	
Ayla Control	IMDA_id	[]	IMDA_9225386	
Ayla Control	aMCA-id	["ledvb", "smartplug1", "ledvb-cn", "smartplug1-cn"]	aMCA-9097620	



Figure 5 – OEM Dashboard Apps

5. Click the **Create New** button at the top of the screen. The Create New App dialog displays, as shown below.

Create New App

Application Name:

Application Prefix*:

Models*:  

Cloud to cloud: ☐

Use sandbox for apns: ☐ (changes need 1 minute to take effect)

Push to field: ☐

Super Application: ☐

CANCEL CREATE

Figure 6 – OEM Dashboard Create New Apps

6. Enter the required information in the fields provided. If you want this new application to communicate with Ayla's cloud, select the **Cloud to cloud** check box.

7. Select the **Use the sandbox for apns (changes need 1 minutes to take effect)** – check if you want to connect to Apple’s sandbox environment. Do not check if you want to use Apple’s production service
8. Click the **Create** button to create your new app.

SMTP Settings

SMTP settings ensure a proper connection with your SMTP server provider ensuring a correct delivery of your emails.

OEM: Ayla

Profile Apps **SMTP Settings** Email Templates OAuth Credentials Trigger Intervals OAuth Applications

Server Address:	email-smtp.us-east-1.amazonaws.com
Server Port:	25
SMTP Domain:	aylanetworks.com
From User:	Ayla<ayla@aylanetworks.com>
SMTP Username:	AKIAIFY6XUGOBAP5PNXA
Authentication Type:	login
Enable StartTLS Auto?:	true

EDIT

Figure 7 – OEM Dashboard SMTP Settings

Creating New SMTP Settings

To create a new SMTP setting, perform the following steps:

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Profile** link from menu on the left side of the screen.
3. Select the **Profile** tab.
4. Select the **SMTP Settings** tab.
5. Click the **Edit** button at the bottom of the screen. The following screen displays.

OEM: Ayla

Profile Apps SMTP Settings Email Templates OAuth Credentials Trigger Intervals OAuth Applications

Server Address *: email-smtp.us-east-1.ar

Server Port *: 25

SMTP Domain *: aylanetworks.com

From User *: Ayla<ayla@aylanetwork

SMTP Username *: AKIAIFY6XUGOBAP5PN

Authentication Type *: Login

Enable StartTLS Auto?: true

Password*: AuZmfCPei4p7ayFXRuE

CLEAR CANCEL UPDATE

Figure 8 – OEM Dashboard Edit SMTP Settings

- Enter your SMTP settings in the fields provided as shown in the figure above.

NOTE: SMTP Enable Start TLS Auto applies TLS security automatically to the SMTP messages. If you choose to use your own security, select **False** from the drop down.

- Click the **Update** button to save your settings or click the **Cancel** button.

Email Templates

The Email Templates section displays a list of available templates. You can also add new Templates from this screen.

Clicking the **DOWNLOAD SAMPLE** button provides examples of icons and templates of messages sent to users.

OEM: Ayla































Profile Apps SMTP Settings **Email Templates** OAuth Credentials Trigger Intervals OAuth Applications

ADD NEW DOWNLOAD SAMPLE

Search OEM Templates

PREV 1 - 10 of 22 NEXT

SHOW: 10 25 50 100

Template ID	Name	Description	File Size	Actions
2	trigger apps	ayla trigger apps	29105	  
3	Ayla Sign Up Confirmation t1	Sign up confirmation template1	29270	  
4	Password reset	Ayla template for password resets	17184	  
5	trigger apps default	template with default email body for trigger apps	29308	  
7	email_notify	email notification for android	29143	  
11	reset test	reset template	29403	  
12	Ayla Sign Up Confirmation	Sign up confirmation template 01	17091	  
16	jci trigger apps	JCI - Email template for trigger apps	20663	  
17	jci confirmation email	JCI - Email template for confirmation emails	25082	  
18	jci reset password	JCI - Email template for password reset emails	25172	  

PREV 1 - 10 of 22 NEXT

DOWNLOAD SAMPLE ADD NEW

Figure 9 – OEM Dashboard Edit SMTP Settings

Adding a New Email Template

To add a new email template, perform the following steps:

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Profile** link from menu on the left side of the screen.
3. Select the **Profile** tab.
4. Select the **Email Templates** tab.
5. Click the **Add New** button located both at the top and bottom of the screen. The Create New Email Template dialog displays, as shown below.

Create New Email Template

Name: Ayla

Description:

Unique ID:

CANCEL

CREATE

Figure 10 – OEM Dashboard Create New Email Template

6. Enter a unique name, description along with ID for your email template.
7. Click the Create button to create your new template.

NOTE: Template changes can take up to 10 minutes to complete. Although the template creation process may be less, please allow 10 minutes to pass before using the new email template.

OAuth Credentials

The OAuth Credential screen allows you to **View** or **Create OAuth** Credentials for applications for clients.

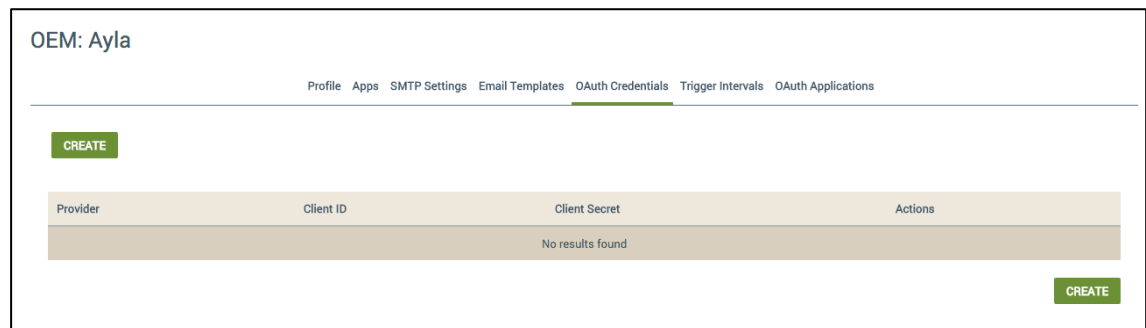


Figure 11 – OEM Dashboard – OAuth Credentials

Creating New OAuth Credentials

To create new OAuth credentials, perform the following steps:

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Profile** link from menu on the left side of the screen.
3. Select the **Profile** tab.
4. Select the **OAuth Credentials** tab.
5. Click the **Create** button located at the top and bottom of the screen.
The **Create New External OAuth** dialog box opens, as shown in Figure 10:

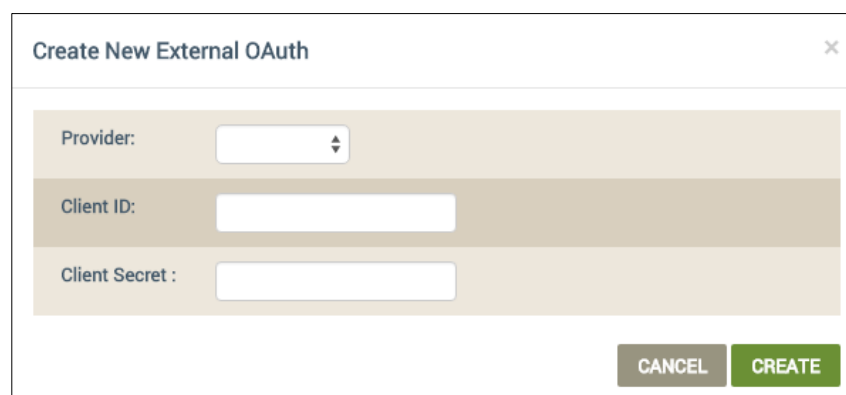
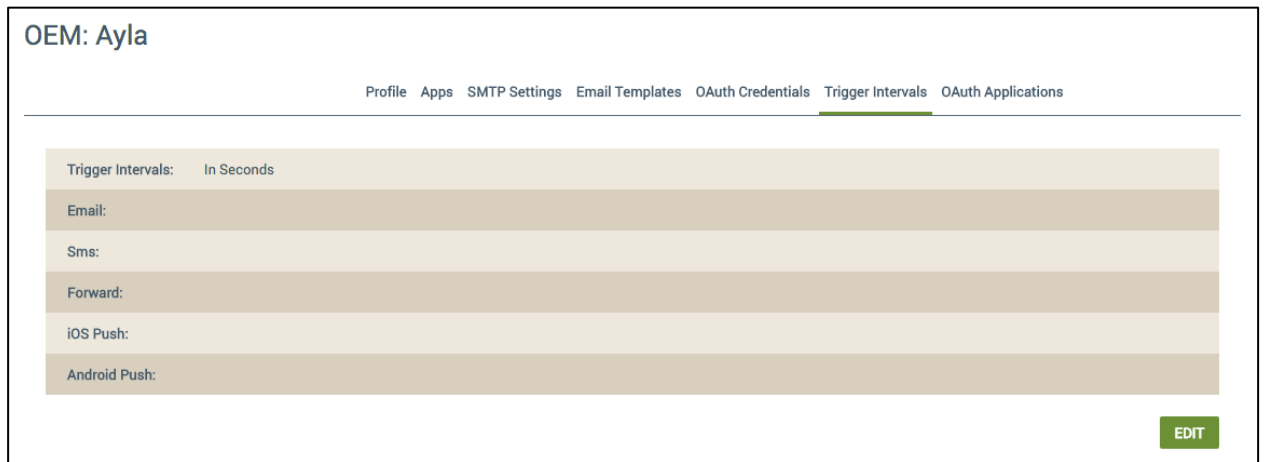


Figure 12 – OEM Dashboard – Create New External OAuth Credentials

6. Select the **Provider** from the drop down.
7. Enter the **Client ID** and **Secret** in the fields provided.
8. Click the **Create** button.

Trigger Intervals

Below is a list of triggers. Triggers determine the time (in seconds) or how often the chosen messaging occurs.



OEM: Ayla

Profile Apps SMTP Settings Email Templates OAuth Credentials **Trigger Intervals** OAuth Applications

Trigger Intervals:	In Seconds
Email:	
Sms:	
Forward:	
iOS Push:	
Android Push:	

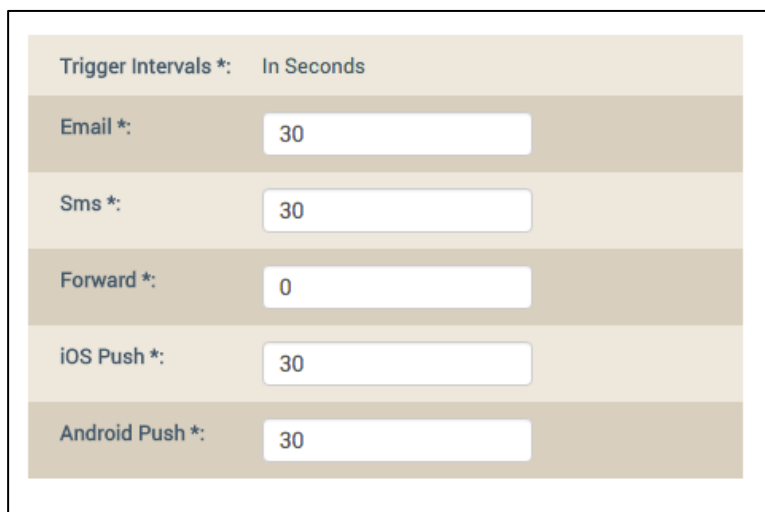
EDIT

Figure 13 – OEM Dashboard Trigger Intervals

Updating Trigger Levels

To create a new Trigger Intervals, perform the following steps:

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Profile** link from menu on the left side of the screen.
3. Select the **Profile** tab.
4. Select the **Trigger Intervals** tab.
5. In the form, select the trigger interval you wish to change.



Trigger Intervals *:	In Seconds
Email *:	30
Sms *:	30
Forward *:	0
iOS Push *:	30
Android Push *:	30

Figure 14 – OEM Dashboard – Updating Trigger Intervals

6. Delete the current values and enter the new values as needed.
7. Click the **Update** button to complete the changes.

OAuth Application

The OAuth Application screen lists the authorized applications along with the redirect and revoke URI's. The redirect and revoke URI's are the location where the cloud will direct the user when their application is redirected or revoked. Using this screen you can also create new OAuth applications and delete existing ones.

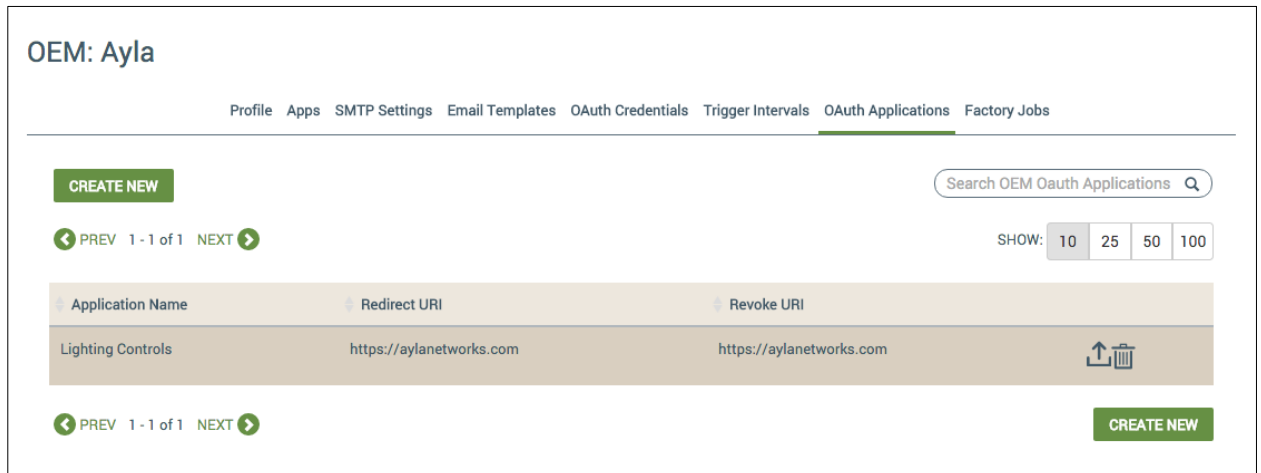


Figure 15 – OEM Dashboard – OAuth Applications

How to add an OAuth Application

To add a new OAuth application, perform the following steps:

1. Click the **Add New** button at the bottom of the form.
2. Enter the required information – **Name**, **Redirect URI**.
3. Enter the **Revoke URI**, if required
4. Click the **Create** (or Cancel) button at the bottom of the form.

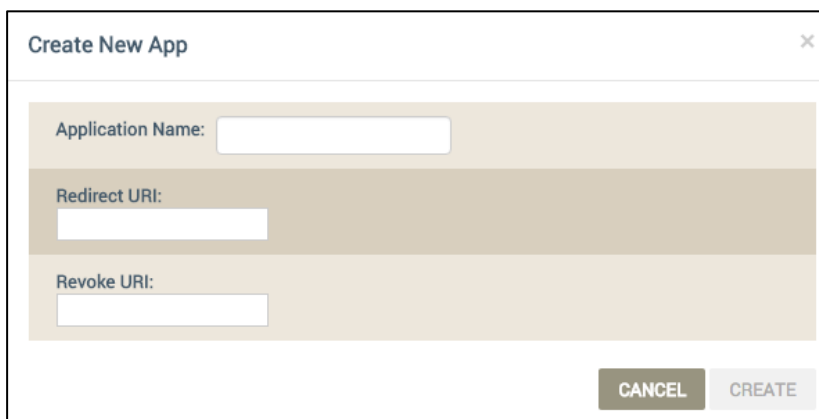


Figure 16 – OEM Dashboard – Create New OAuth Application

OEM Users

OEM Users is a list of all OEM Users and their role or roles. For information about roles, see the section on Roles in the Ayla OEM Dashboard.











OEM Users					
CREATE OEM USER				Q SEARCH OEM USERS	
PREV 1 - 10 of 104 NEXT				SHOW: 10 25 50 100	
ID	First Name	Last Name	Email	Roles	Actions
1	Adrian	Caceres	adrian@aylanetworks.com	Ayla::Admin, OEM::Staff, EndUser, OEM::Admin	
2	Joe	Eykholt	joe@aylanetworks.com	Ayla::Admin, OEM::Admin, OEM::Staff, EndUser	
17	Dan	Myers	dan@aylanetworks.com	Ayla::Admin, OEM::Admin, OEM::Staff, EndUser	
34	Sudha	Sundaresan	sudha@aylanetworks.com	Ayla::Admin, OEM::Admin, OEM::Staff, EndUser	
120	Justin	Ruiz	justin.ruiz@aylanetworks.com	Ayla::Admin, OEM::Staff, EndUser	
221	Vinay	Malekal	vinay@aylanetworks.com	Ayla::Admin, OEM::Admin, OEM::Staff, EndUser	
741	Robert	Chang	robert.chang@aylanetworks.com	EndUser, OEM::Tech	
753	Yipei	Wang	yipei@aylanetworks.com	EndUser, OEM::Staff, OEM::Admin, Ayla::Admin	
784	Ron	Maeder	ron@aylanetworks.com	EndUser, OEM::Staff, OEM::Admin, Ayla::Admin	
1082	Galy	Yang	galy@aylanetworks.com	EndUser, OEM::Staff, Ayla::Admin	
PREV 1 - 10 of 104 NEXT				CREATE OEM USER	

Figure 17 – OEM Dashboard – Updating Trigger Intervals

Create an OEM User

To create an OEM user, perform the following steps.

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Users** link from menu on the left side of the screen.
3. Click the **Create OEM User** button. The **Create OEM User** dialog box opens, as shown in the figure below.

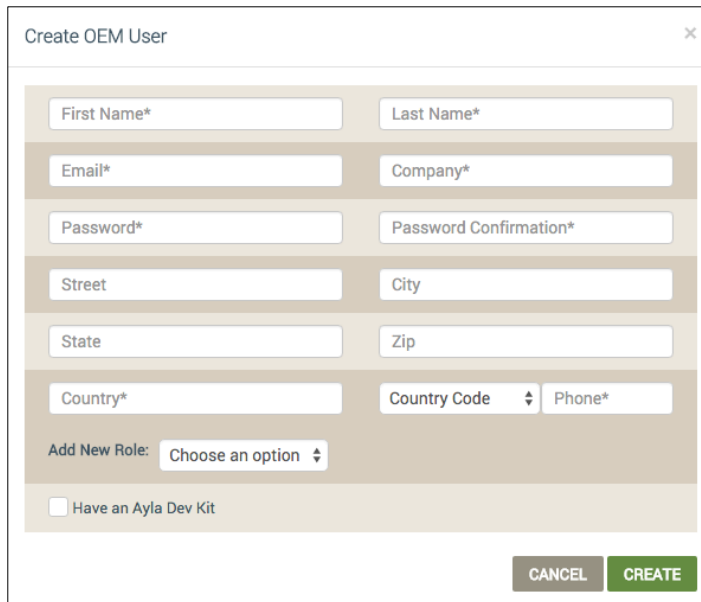


Figure 18 – OEM Dashboard – Create New OEM User

4. Complete the fields in the form.
5. Select the **Role** for the end user from the drop-down list.
6. Select the **Have an Ayla Dev Kit** check box, if applicable. The Ayla Dev Kit gives you a fast path to securely connect your product to Ayla's flexible cloud platform and application libraries. It allows you to quickly understand how you can connect and control any device using Ayla's AMAP application.

NOTE: If the user has an Ayla Dev Kit, enter the Ayla Dev Kit number. The field for the number opens after you select the checkbox.



Figure 19 – OEM Dashboard – Add New Role

7. Click the **Create** (or **Cancel**) button.

Delete an OEM User

To delete an OEM user, perform the following steps:

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Users** link from menu on the left side of the screen.
3. Click the **Create OEM User** button.
4. Select the user to delete, and click the **Trashcan** icon button in the users' row.

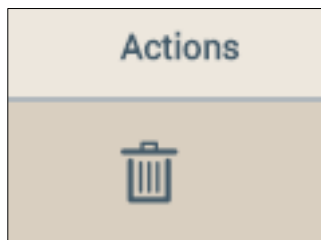


Figure 20 – OEM Dashboard – Delete Action Button

The delete confirmation dialog box displays, as shown below.

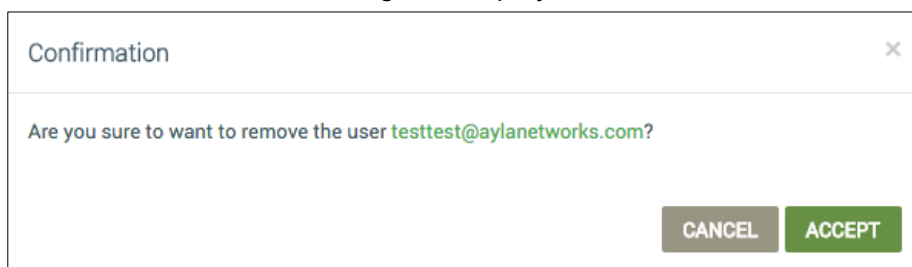


Figure 21 – OEM Dashboard – Delete Confirmation

5. Click the **Accept** button to confirm you want to delete this OEM user.
The OEM user is deleted and a delete verification message is displayed.

User Details

This screen lists the OEM user details. You can edit the users detail by clicking the **Edit** button.

User: IOTUSERFIRSTNAME IOTUSERLASTNAME

Details Metadata Shares Contacts Devices

First Name:	IOTUSERFIRSTNAME
Last Name:	IOTUSERLASTNAME
Email:	first.last@gmail.com
UUID:	85fe6cea-828d-11e5-9609-0ee0c870bcec
Company:	IOTNWORKS
Street:	
City:	Sunnydale
State:	NY
Zip:	12345
Country:	US
Confirmed:	<input checked="" type="checkbox"/>
Approved:	<input checked="" type="checkbox"/>
Country Code:	1
Phone:	4085551234
OEM:	Ayla
Roles:	EndUser , OEM::Staff , OEM::Admin

CLOSE
EDIT

Figure 22 – OEM Dashboard – Delete Confirmation

At the top of this screen, there are three additional views for the user: Metadata, and Shares.

Editing/Updating User's Detail

To update or edit a users detail, perform the following steps.

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Users** link from menu on the left side of the screen.
3. Click any of the users properties listed to display the users details. The users detail screen displays.

User: IOTUSERFIRSTNAME IOTUSERLASTNAME

Details
Metadata
Shares
Contacts
Devices

First Name *:	IOTUSERFIRSTNAME
Last Name *:	IOTUSERLASTNAME
Email *:	first.last@gmail.com
UUID:	85fe6cea-828d-11e5-9609-0ee0c870bcec
Company *:	IOTNETWORKS
Street *:	
City *:	Sunnydale
State:	NY
Zip:	12345
Country *:	US
Confirmed:	<input checked="" type="checkbox"/>
Approved:	<input checked="" type="checkbox"/>
Country Code:	Choose an option
Phone *:	4085551234
OEM:	Ayla
Roles:	EndUser , OEM::Staff , OEM::Admin
Add New Role:	Choose an option

CANCEL
UPDATE

Figure 23 – OEM Dashboard – Delete Confirmation

- Click the **Edit** button to change the users detail.
- Change or modify the users details as needed.
At the bottom of this form, you have the option of adding a role to the user. To add a role, click the **Add New Role** check box and select from the drop-down menu, as shown below.
- Click the **Update** (or **Cancel**) button to save your changes.

User Meta Data

Meta Data includes the **User Key**, **Value**, when **Created**, and when last updated.

View User Metadata

1. Launch the Ayla OEM Dashboard.
2. Select the **OEM Users** link from menu on the left side of the screen.
3. Click the **Metadata** tab in the User view. The User Meta Data is displayed, as shown below.

User: IOTUSERFIRSTNAME IOTUSERLASTNAME			
Details Metadata Shares Contacts Devices			
Key	Value	Created at	Updated at
No results found			

Figure 24 – OEM Dashboard – User Metadata

OEM User Share

User Shares is a list of users sharing a resource. A resource can be a device or a service.

View User Shares

To view user shares, perform the following steps:

1. Launch the OEM Dashboard and select **OEM Users** from the menu on the left side of the screen.
2. Select an **OEM User** from the list of OEM Users. The users detail screen displays.
3. Click the **Shares** tab at the top of the screen to display a list of the user's shares accounts, as shown in the figure below.

User: IOTUSERFIRSTNAME IOTUSERLASTNAME									
Details Metadata Shares Contacts Devices									
Share ID	Grant ID	User ID	Resource ID	Resource Name	Created at	Start	End	Status	Operation
No results found									

Figure 25 – OEM Dashboard – User Share

OEM User Contacts

User Contacts is used to store the info about the user and also provide high-level notification management. Ayla contracts contain the standard address book information. In addition it contains the property members for managing the delivery notifications. A contact may be a registered owner of the device or someone the owner wants to send notifications on errors that occur.

View OEM User Contacts

To view OEM user contacts, perform the following steps:

1. Launch the OEM Dashboard and select **OEM Users** from the menu on the left side of the screen.
2. Select an **OEM User** from the list of OEM Users. The users detail screen displays.
3. Click the **Contacts tab** at the top of the screen to display a list of the user's contacts, as shown in the figure below.

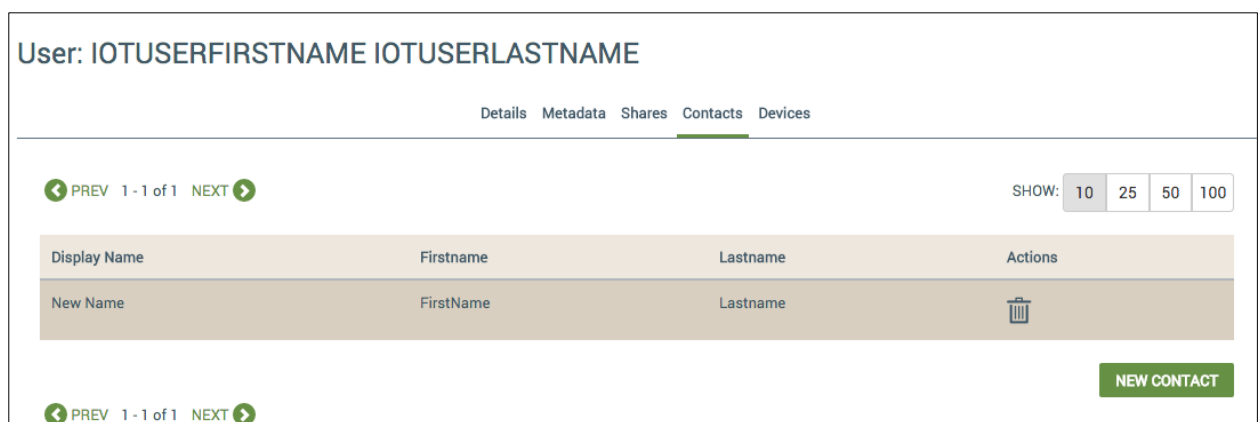


Figure 26 – OEM Dashboard – View OEM User Contacts

Create a New Contact

You can create new OEM contact information for all your users from the OEM dashboard.

To create user contacts, perform the following steps:

1. Launch the OEM Dashboard and select the **OEM Users** from the menu on the left side of the screen.
2. Select an **OEM User** from the list of OEM Users. The users detail screen displays.
3. Click the **Contacts tab** at the top of the screen to display a list of the user's contacts.
4. Click the **New Contact** button at the bottom of the screen. The New Contact screen displays, as shown in the figure below.

New Contact

Display Name:
Firstname:
Lastname:
Email:
Phone Country Code:
Phone Number:
Street Address:
Zip Code:
Country:
Metadata:
OEM Models:
Send SMS: ☐
Send Emails: ☐
Send Pushes: ☐
SMS Acceptance:
Email Acceptance:
Notes:

CLOSE
CREATE

Figure 27 – OEM Dashboard – Delete Confirmation

5. Enter the required information in the fields provided. For the SMS and Email Acceptance categories, select one of the following options:
 - Not Required
 - Required
6. Click the **Create** button, to add a new contact to the users contact list.

Devices

Selecting **Devices** in the navigation bar displays a list of the registered devices, as shown below. The first displays the first 10 devices. You can change the number of devices displayed using the **Show** option.

You can use the **Devices** section to perform the following activity:

- View/Search for Devices by device or groups
- Create/Edit/Delete Device Groups
- Map Devices

Device Search

To search for devices, perform the following steps:

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen. The list of registered devices displays, as shown in Figure 28.

DEVICES GROUPS									
CREATE GROUP ADD TO GROUP MAP DEVICES			Q SEARCH DEVICES						
PREV 1 - 10 of 6361 NEXT			SHOW: 10 25 50 100						
Status	ID	DSN	Product Name	Model	OEM Model	SW Version	User	Connected At	
	85	AC000W0000000266		AY001MTP1	green_led	bc 0.19 12/13/12 11:54:49 ID jre/mfg/01b6d53		12/21/2012 at 17:58	
	105	AC000W0000000289	Test	AY001MTP1	ledevb	bc 0.13.8 09/14/12 15:56:47 ID jre/mfg/7039269 dev		12/19/2014 at 13:49	
	165	AC000W0000000516	karpalo	AY001MUS	ledevb	bc 2.3-eng 09/21/15 11:43:07 ID marko/0400e85 dev		09/22/2015 at 1:49	
	167	AC000W0000000517		AY001MUS	ledevb	bc 1.12.2 03/18/15 20:26:36 ID 3bab61e		07/28/2015 at 11:17	
	168	AC000W0000000519		AY001MUS1	iNemoDemo	bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev	Guest	04/18/2013 at 16:01	
	170	AC000W0000000520	demo 520	AY001MUS1	ledevb	bc 2.1-eng 07/08/15 21:25:20 ID jre/wb2/4788770+ dev	Joe	12/12/2015 at 18:53	
	171	AC000W0000000526	AC000W0000000526	AY001MUS1	ledevb	bc 1.4.2-int 07/30/13 15:08:28 ID bdf91 de dev		08/19/2013 at 14:56	
	173	AC000W0000000521		AY001MUS1	ledevb	bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev		01/29/2013 at 16:19	
	174	AC000W0000000522	eval 522	AY001MUS1	ledevb	bc 1.12-eng 01/30/15 12:44:18 ID jre/ref/544a344+ dev		10/15/2014 at 17:57	
	175	AC000W0000000523		AY001MUS1	ledevb	bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev		01/29/2013 at 10:27	
PREV 1 - 10 of 6361 NEXT			MAP DEVICES ADD TO GROUP CREATE GROUP						

Figure 28 – OEM Dashboard OEM Devices

Device Search Headings

- **Status** - Red icon = device is off / Green icon = device is on / Gray icon = device is in the process of coming up
- **DSN** – the DSN of the device. The DSN is the Device Serial Number.
- **Product Name** – the name of the product, as you have named it.
- **Model** – the product model of the device
- **SW Version** – the software version of the device.

- **User** – the name of the user associated with the device
 - **Connected At** - The time the device connected
2. Click the **Search Devices** link at the top of the screen. The Search dialog displays. From this screen you can conduct searches by Device or Properties.

To Search By Device

1. Select the **By Device** tab to search for device by their properties. The following dialog box displays.

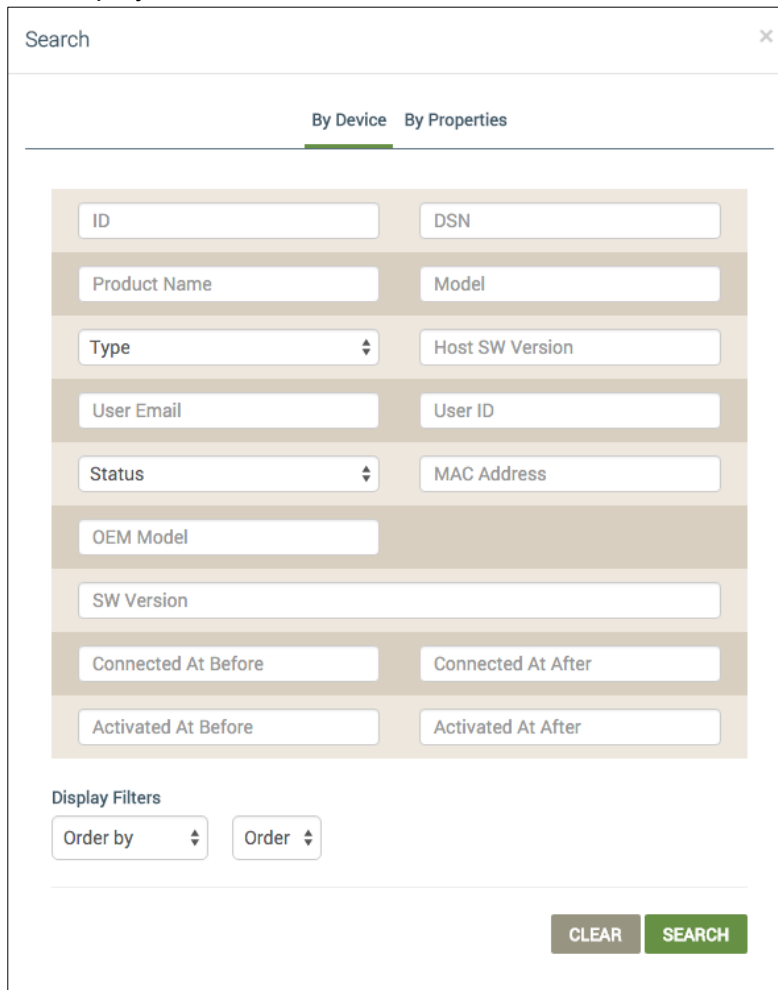


Figure 29 – OEM Dashboard OEM Devices – Search By Device

2. Enter the device information in the fields provided for the devices you want to search.
3. Click the **Search** button to start your search. The search results open with the list of devices.

To Search By Properties

1. Select the **By Properties** tab to search for device by their properties.

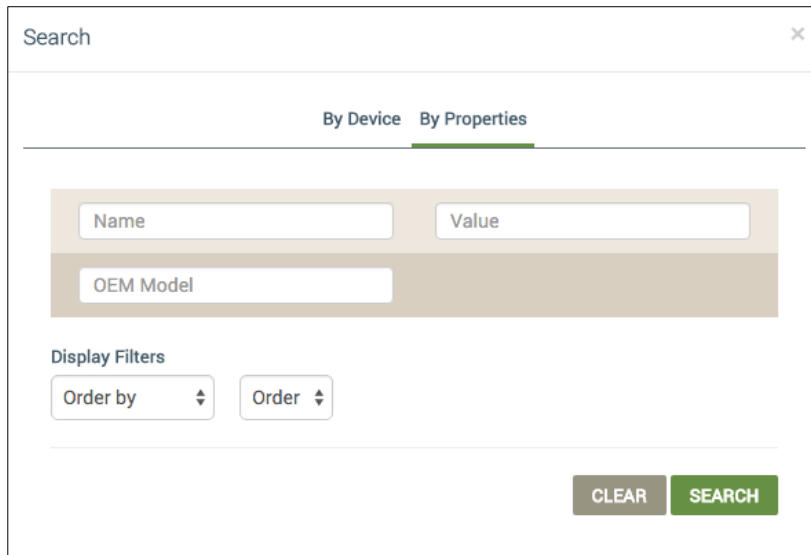


Figure 30 – OEM Dashboard OEM Devices – Search By Properties

2. Enter the device information in the fields provided for the devices you want to search. First enter the property **Name** and then the corresponding **Value**.
3. Click the **Search** button to start your search. The search results open with the list of devices.

Creating Groups

To a create group for devices, perform the following steps:

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen. The list of registered devices displays.
2. Select all the devices you want to add to the new group by placing a checkmark in the box next to the device listing.
3. Click the **Create Group** button to create your group. The Create Group dialog displays, as shown in Figure 23.



Figure 31 – OEM Dashboard OEM Devices – Creating Groups

4. Enter a **Name** for the group.
5. Click the **Create** button. Your new group is added to the list.

Editing Groups

To edit a group of devices, perform the following steps:

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen. The list of registered devices displays.
2. Click the **Groups** tab to display the list of group.
3. Select the group you want to edit by clicking the group name. The group dialog box displays, as shown below where you make changes to the group.

Group: New IoT Group

Search Devices in Group by DSN

PREV

1 - 3 of 3

NEXT

SHOW:

10

25

50

100

<input type="checkbox"/>	Product Name	DSN	OEM Model	
<input type="checkbox"/>	Test	AC000W000000289	ledevb	
<input type="checkbox"/>	demo 520	AC000W000000520	ledevb	
<input type="checkbox"/>	eval 522	AC000W000000522	ledevb	

PREV

1 - 3 of 3

NEXT

DELETE SELECTED

EDIT NAME

ADD DEVICE

CLOSE

Figure 32 – OEM Dashboard OEM Devices – Editing New Group

4. Select the devices you want to modify from the group by placing a checkmark in the box next to the device **Product Name**.
5. Click the **Delete Selected** button. Alternately, you can also click the **trashcan** icon to delete a device.
6. Click the **Add Device** button to add devices to your existing group.
7. Click the **Close** button when you are done.

Mapping Devices

You can view the geographic locations of your devices using this feature. When you select one of the locations, (pins on the map), the details of the device is displayed.

To map devices, perform the following steps:

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen. The list of registered devices displays.
2. Click the **Devices** tab to display the list of group.
3. Click the **Map Devices** button at the top of the screen. A map of your device location displays.

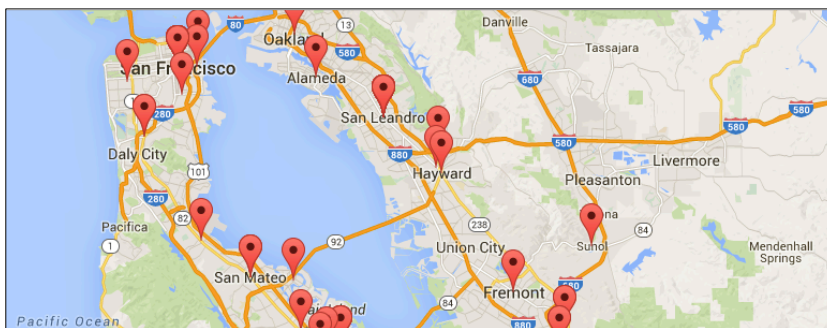


Figure 33 – OEM Dashboard OEM Devices – Mapping Devices

4. Select one of the devices displayed on the map to display more details about the device. The following screen displays.

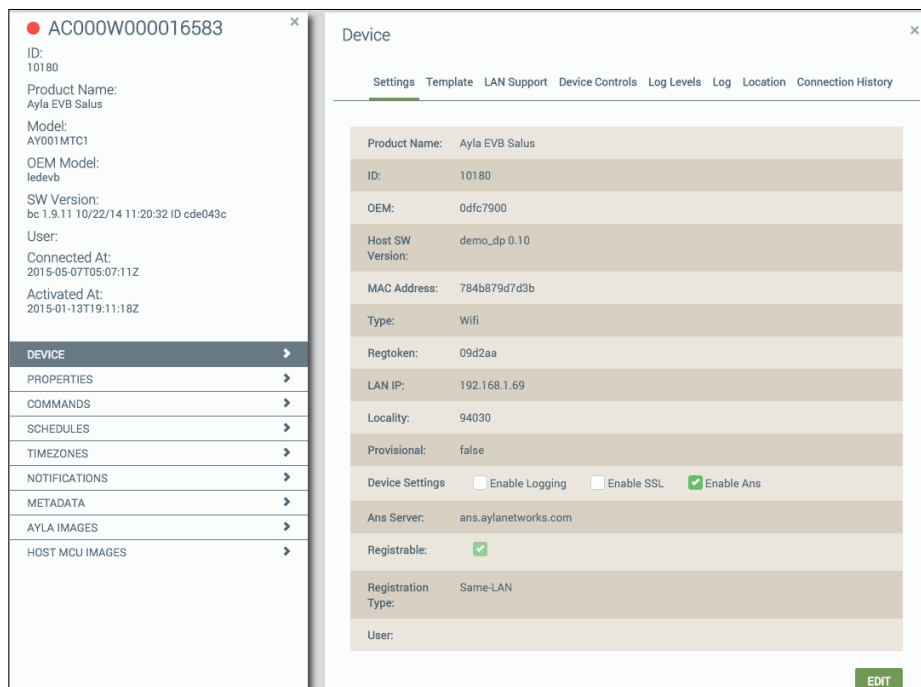


Figure 34 – OEM Dashboard OEM Devices – Mapping Devices Details

The Device details links are in the top left side of the device view. The following links are available:

- Settings
- Templates
- LAN Support
- Device Controls
- Log Levels
- Log
- Connection History

Device

[Settings](#)
[Template](#)
[LAN Support](#)
[Device Controls](#)
[Log Levels](#)
[Log](#)
[Location](#)
[Connection History](#)

Product Name:	Product Name
ID:	62500
OEM:	0dfc7900
Host SW Version:	TRY11315-1
MAC Address:	virtualdev
Type:	Wifi
Regtoken:	af5fe5
LAN IP:	
Locality:	94577
Provisional:	true
Device Settings	<input type="checkbox"/> Enable Logging <input type="checkbox"/> Enable SSL <input checked="" type="checkbox"/> Enable Ans
Ans Server:	ans.aylanetworks.com
Registrable:	<input checked="" type="checkbox"/>
Registration Type:	Same-LAN
User:	

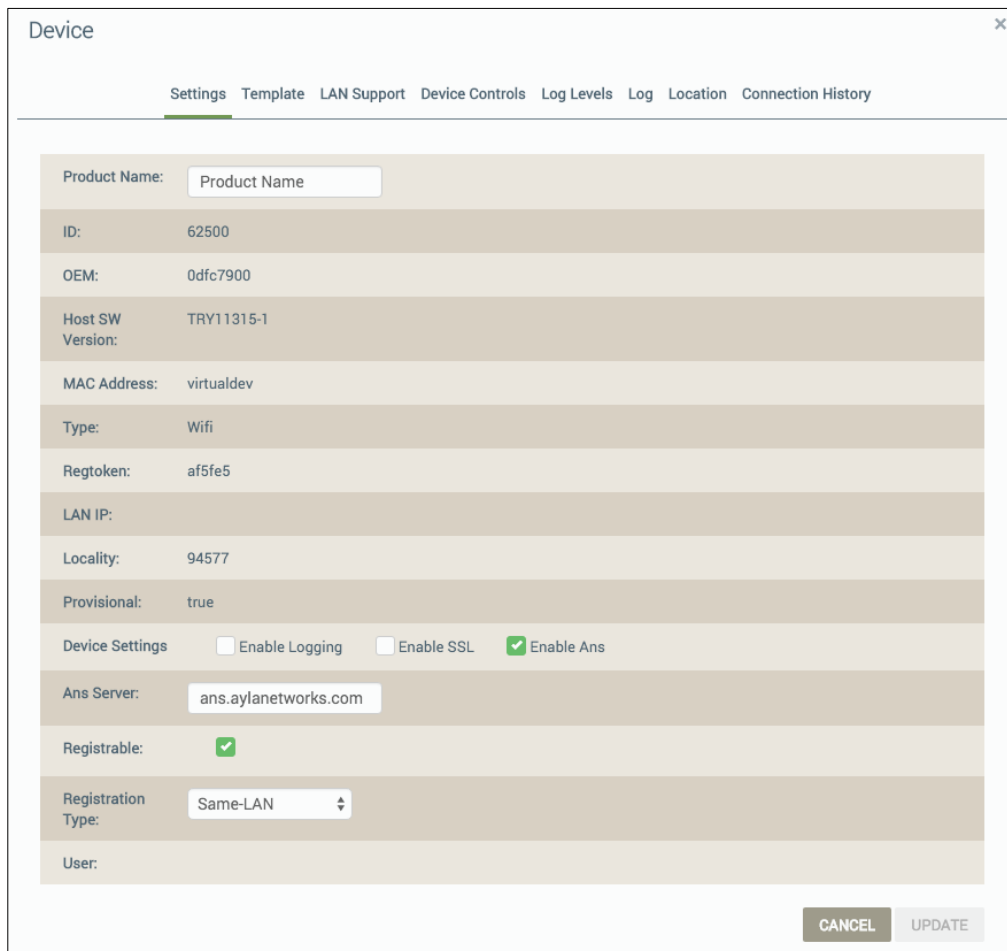
EDIT

Figure 35 – OEM Dashboard OEM Devices – Mapping Devices

Updating Setting

To update your device settings, perform the following steps:

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **Edit** button to modify the device settings, the following screen displays.



Device

[Settings](#)
[Template](#)
[LAN Support](#)
[Device Controls](#)
[Log Levels](#)
[Log](#)
[Location](#)
[Connection History](#)

Product Name:

Product Name

ID:

62500

OEM:

0dfc7900

Host SW Version:

TRY11315-1

MAC Address:

virtualdev

Type:

Wifi

Regtoken:

af5fe5

LAN IP:

Locality:

94577

Provisional:

true

Device Settings

☐ Enable Logging
 ☐ Enable SSL
 ☒ Enable Ans

Ans Server:

ans.aylanetworks.com

Registrable:

☒

Registration Type:

Same-LAN

User:

CANCEL

UPDATE

Figure 36 – OEM Dashboard OEM Devices – Updating Settings

Template

The device template displays information about the template associated with this device. Using this screen you can view properties and change the template associated with a device.

Changing the Device Template

To change the device template, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the Devices listed. The device details screen displays.
3. Click the **Template** button to view template settings.
4. Click the **Edit** button the following screen displays.

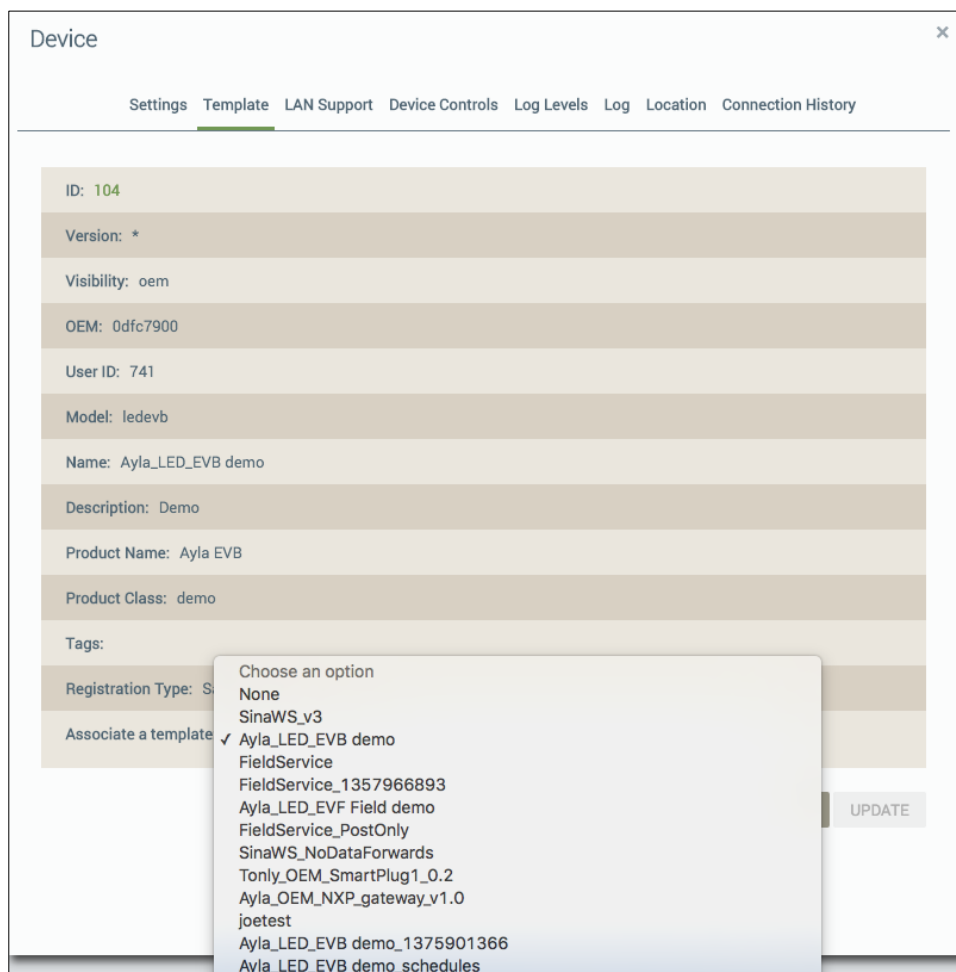


Figure 37 – OEM Dashboard OEM Devices – Templates

5. Choose one of the available templates from the drop down to associate with your device.
6. Click the **Update** button to associate the selected template with your device.

LAN Support

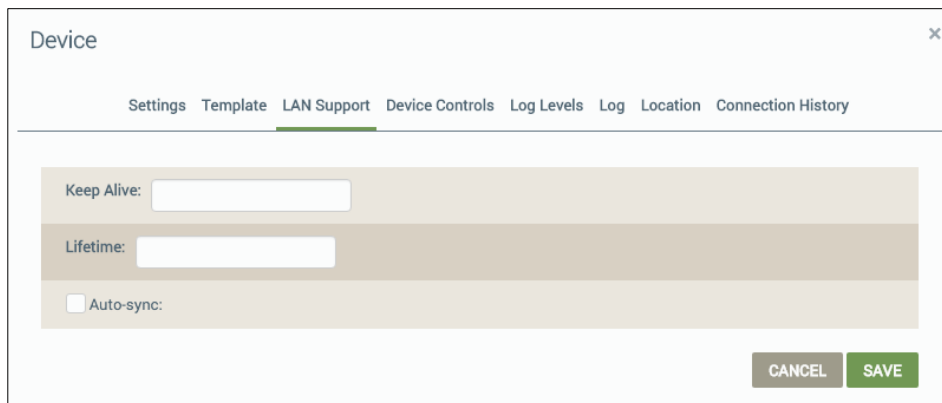
LAN Support provides local communications between applications and devices when they are both on the same Wi-Fi network. Enabling LAN support applications provides the following:

- Mobile apps will automatically use Local network when nearby.
- Much faster mobile to device control.
- Reduced latency for all LAN Mode Enabled (LME) APIs.
- Direct property/connection status updates from the device, polling for device properties is not required.
- Secure communications between applications and modules.
- Session management for applications.
- Automatically route traffic to the device or the cloud.

Enabling LAN Support

To enable LAN support, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the Devices listed. The device details screen displays.
3. Click the **LAN Support** button, the following screen displays.



The screenshot shows a web interface titled "Device" with a close button (X) in the top right corner. Below the title is a navigation bar with tabs: Settings, Template, LAN Support (which is highlighted with a green underline), Device Controls, Log Levels, Log, Location, and Connection History. The main content area has a light beige background and contains three input fields: "Keep Alive:" with a text input box, "Lifetime:" with a text input box, and "Auto-sync:" with a checkbox. At the bottom right of the form are two buttons: "CANCEL" and "SAVE".

Figure 38 – OEM Dashboard OEM Devices – LAN Support

4. Enter the **Keep Alive** information in the field provided. Keep Alive is the UDP keep alive beacon time which is how often the mobile app has to send a heartbeat to the module to keep the session alive; otherwise the device will terminate the session.
5. Enter the **Lifetime** information in the field provided. The Lifetime option is the time in seconds that the unique LAN-pairing keys are valid. When the pairing expires, the device and the mobile app need to reconnect to the cloud before they are given a new set of LAN keys.
6. Click the **Save** (or Cancel) button.

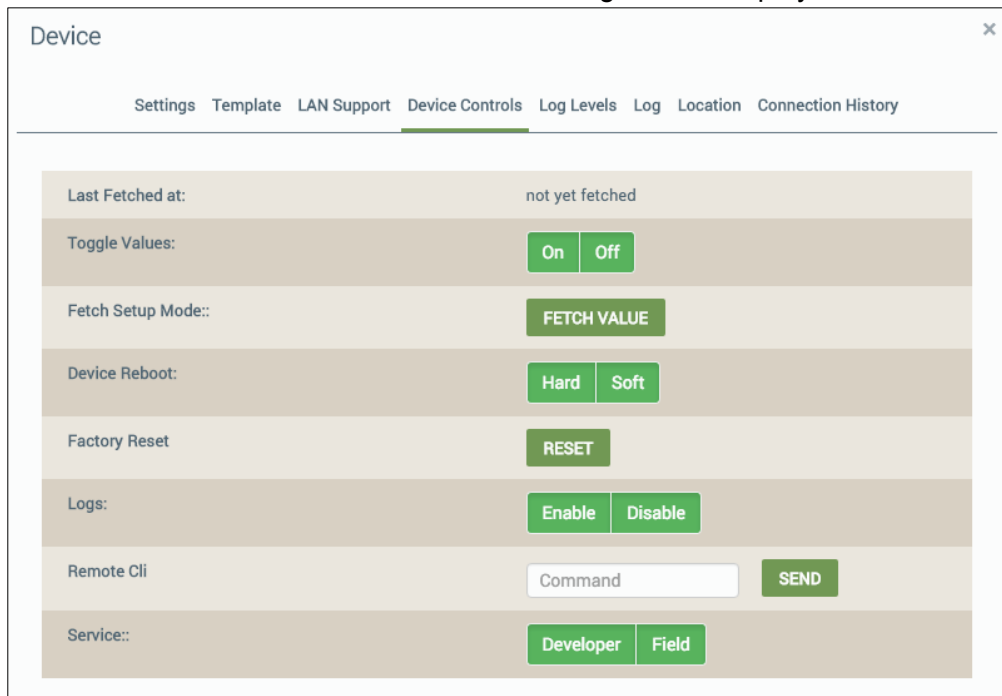
Device Controls

The Device Controls tab provides the various options to send certain commands to the device. For example, using the devices controls toggling the device **Setup Mode** button will keep the device on Setup Mode.

View/Update Device Setup Modes

To view/update device setup modes, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the Devices listed. The device details screen displays.
3. Click the **Device Controls** button, the following screen displays.



The screenshot shows the 'Device Controls' tab selected in the OEM Dashboard. The interface includes a navigation bar with tabs: Settings, Template, LAN Support, Device Controls (active), Log Levels, Log, Location, and Connection History. Below the navigation bar, there are several control sections:

- Last Fetched at:** not yet fetched
- Toggle Values:** On (green button), Off (green button)
- Fetch Setup Mode::** FETCH VALUE (green button)
- Device Reboot:** Hard (green button), Soft (green button)
- Factory Reset**: RESET (green button)
- Logs:** Enable (green button), Disable (green button)
- Remote Cli**: Command (text input), SEND (green button)
- Service::**: Developer (green button), Field (green button)

Figure 39 – OEM Dashboard OEM Devices – Device Controls

4. Use this screen to change or modify your device controls. The table below lists the available settings and options.

Table 1. OEM Dashboard OEM Devices – Device Controls

Setting	Option
Toggle Value	On or Off
Fetch Setup Mode	Sends email with the value
Device Reboot	Hard reboot or Soft reboot
Factory Reset	Reset
Logs	Enable or Disable
Remote Cli	Command
Service	Developer or Field

Log Levels

Log levels specifies what log information is stored for a specific device. You can access and edit log levels for your devices by selecting the device and then clicking the **Log Levels** tab.

Editing Log Levels

To view or update log levels, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the Devices listed. The device details screen displays.
3. Click the **Log Levels** button, the following screen displays.

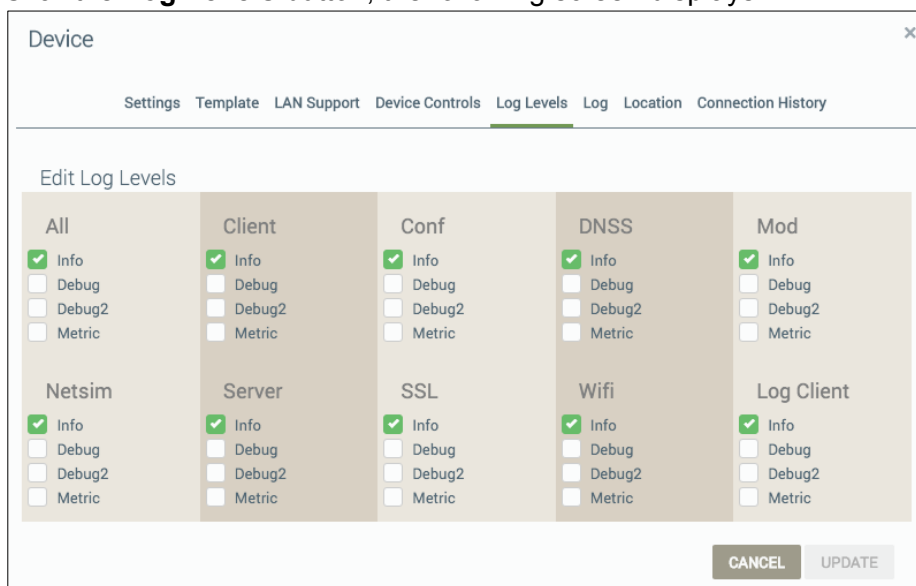


Figure 40 – OEM Dashboard OEM Devices – Log Levels

4. Edit Log Levels as desired with log levels:
 - a. **Info** – general messages (not errors or warnings)
 - b. **Debug** – more detailed information as well as warnings and errors
 - c. **Debug2** - lower level detailed information as well as warnings and errors
 - d. **Metric** – data on connections and internal performance information

Table 2. OEM Dashboard OEM Devices – Log Levels

Log Levels	Description
All Log Levels	Default for all other categories
Client	Device to service and mobile LAN Agent logs
Conf	Configuration logs
DNSS	DNS and mDNS server logs
Mod	Logs not include in other logs
Netsim	Not applicable – no longer supported
Server	Internal web server logs
SSL	SSL or TLS logs
Wi-Fi	Wi-Fi logs
Log Client	Logs sent to the server

- Click the **Update** (or Cancel) button at the bottom of the form.

Logs

Users can access and download the logs under from the Logs tab to their local destination.

NOTE: Ayla does not provide any current FTP options to access or send logs.

Searching and Accessing Logs

To search and access logs, perform the following steps.

- Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
- Click one of the devices listed. The device details screen displays.
- Click the **Log** button, the following screen displays.

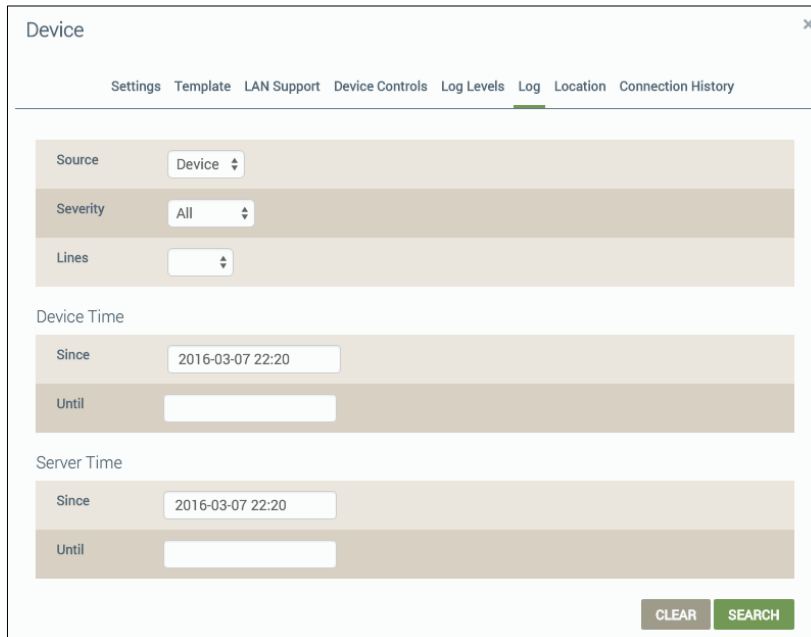


Figure 41 – OEM Dashboard OEM Devices – Log

Table 3. OEM Dashboard OEM Devices – Log

Settings	Option	Description
Source	Device/Mobile	The source where the data
Severity	All/Warning/Info/Error	This is the severity filter you can set when obtaining log data
Lines	50/100/500/1000/5000	The number lines to display in each log
Device time	Since/Until	The time period you can specify in your request for log data
Server time	Since/Until	The time period you can specify in your request for log data

4. Click the **Clear**, **Search**, or **Refresh** button.

Searching Logs

To search for logs, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **Log** tab from the top of the screen, the following screen displays.

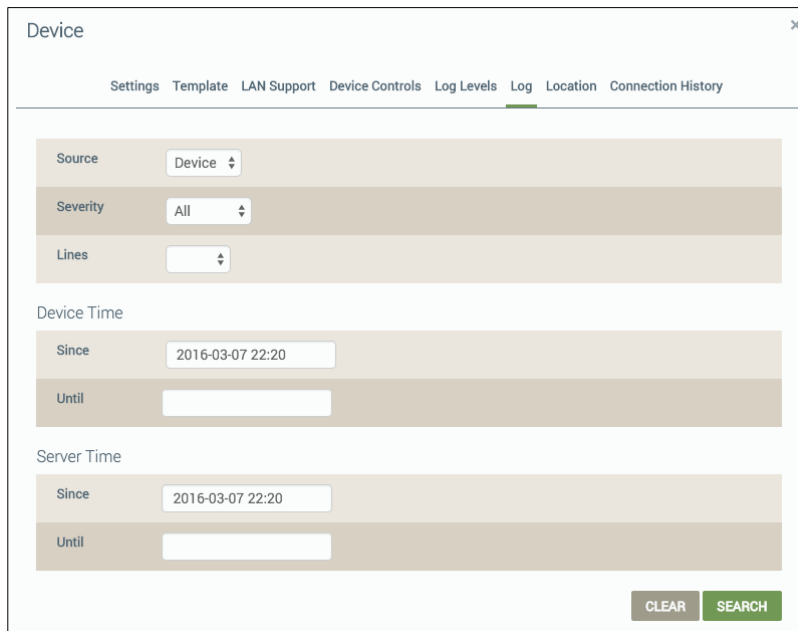


Figure 42 – OEM Dashboard OEM Devices – Log

Table 3. OEM Dashboard OEM Devices – Log

Settings	Option	Description
Source	Device/Mobile	The source where the data
Severity	All/Warning/Info/Error	This is the severity filter you can set when obtaining log data
Lines	50/100/500/1000/5000	The number lines to display in each log
Device time	Since/Until	The time period you can specify in your request for log data
Server time	Since/Until	The time period you can specify in your request for log data

4. Click the **Clear**, **Search**, or **Refresh** button.

Location

The location tab shows the location of your device on a [map](#). See Mapping Devices on page 29.

To view device locations, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **Location** button, the following screen displays.

Note: If your device or devices are offline the map is will not display any points.

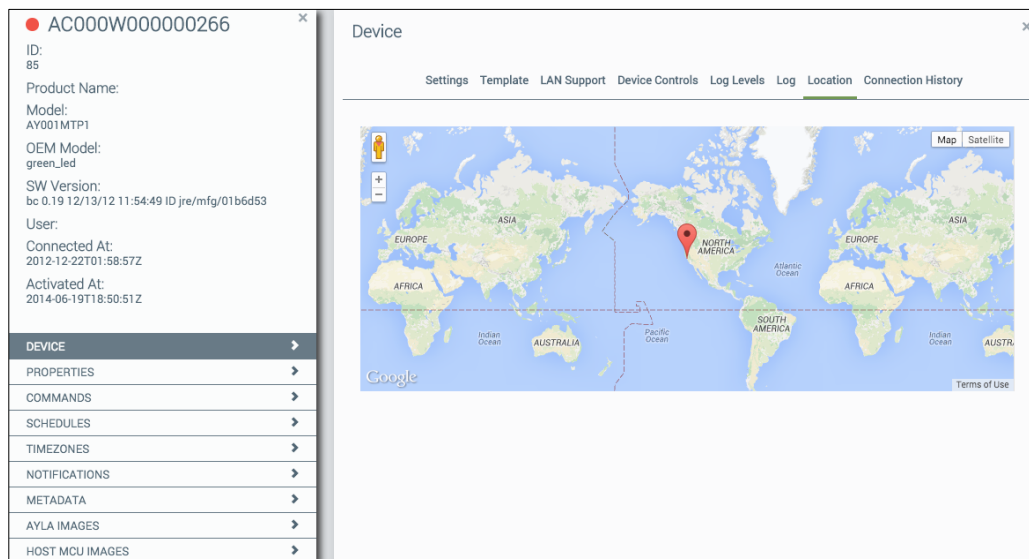


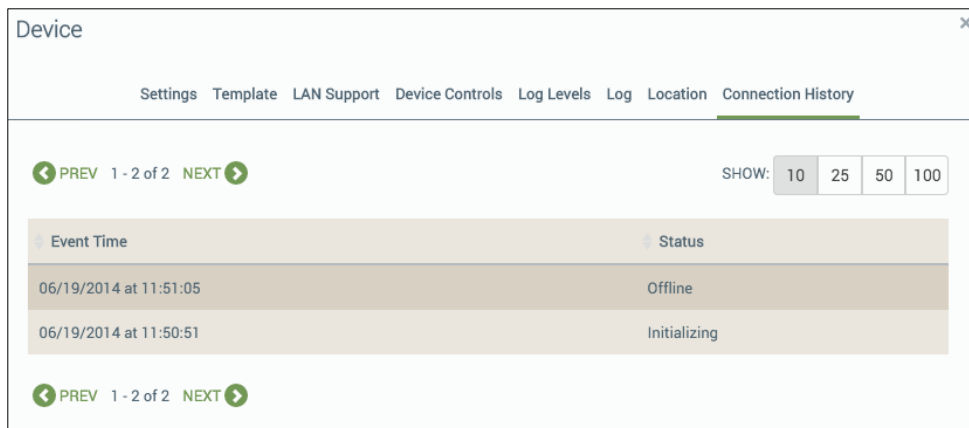
Figure 43 – OEM Dashboard OEM Devices – Mapping Devices Location

Connection History

The connection history tab shows a list of the connection event time in UTC and the status of the device.

To view connection history, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **Connection History** button, the following screen displays.



Event Time	Status
06/19/2014 at 11:51:05	Offline
06/19/2014 at 11:50:51	Initializing

Figure 44 – OEM Dashboard OEM Devices – Connection History

Additional Devices Views

You can access additional device views using the menu options listed on the left side of the devices details screen, as shown in the figure below.

DEVICE	>
PROPERTIES	>
COMMANDS	>
SCHEDULES	>
TIMEZONES	>
NOTIFICATIONS	>
METADATA	>
AYLA IMAGES	>
HOST MCU IMAGES	>

Figure 45 – OEM Dashboard - OEM Devices – Additional views

Properties

The Properties screen allows you to view all the properties associated with a device. Using this screen you can also create new properties.

To view the detail properties of your device, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.

2. Click one of the devices listed. The device details screen displays.
3. Click the Properties link. The Properties details page displays as shown in the figure below.

Properties

CREATE A PROPERTY

Search Properties

PREV 1 - 10 of 16 NEXT

SHOW: 10 25 50 100

Name	Value	Base Type	Direction	Scope	
Blue_LED		boolean	input	user	
Blue_button		boolean	output	user	
Green_LED		boolean	input	user	
cmd		string	input	user	
decimal_in		decimal	input	user	
decimal_out		decimal	output	user	
input		integer	input	user	
log		string	output	user	
oem_host_version		string	output	oem	
output		integer	output	user	

Figure 46 – OEM Dashboard OEM Devices – Connection History

You can view all the properties configured for your device from this screen. Selecting the device property displays details about the property.

Create a New Property

To create a new property, perform the following steps.

1. On the **Devices**, Properties view, click the **Create a Property** button at the bottom left side. The **New Property** form opens, as shown in Figure 38.

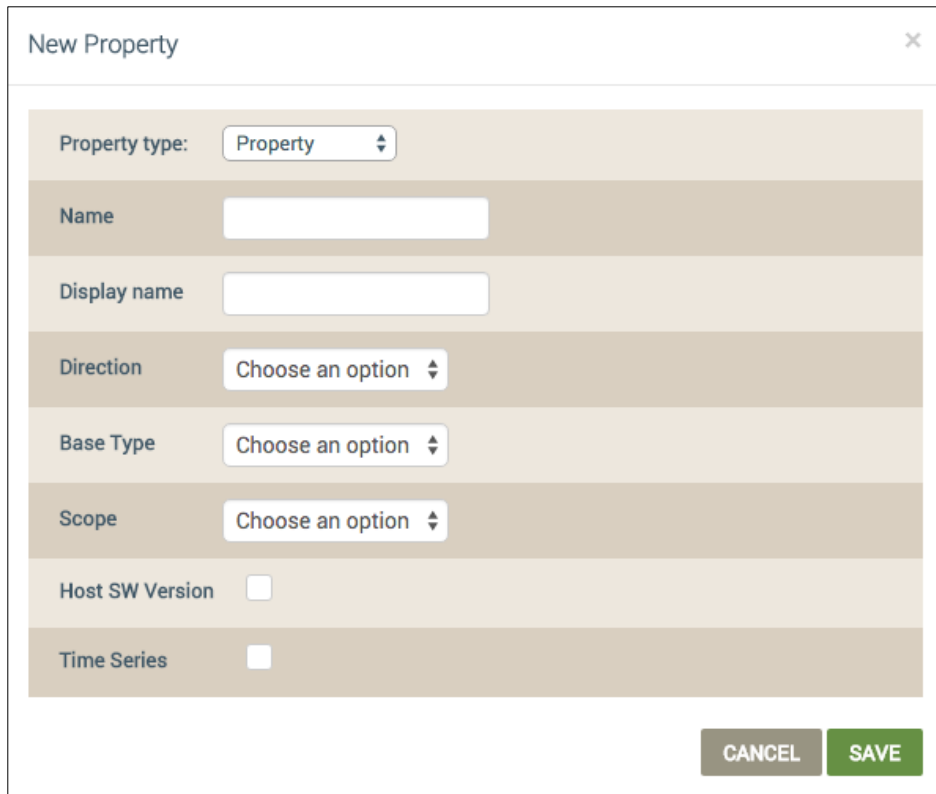


Figure 47 – OEM Dashboard OEM Devices – New Property

2. Enter the **Name** and **Display name**.
3. Select the **Direction**, **Base Type** and **Scope** using the options in the drop down menus.

The **Direction** is the “Upload/Download” direction of property coming from device or the user of the device. The Base Type is the data type of property associated with your connectivity type. The base property type displayed as an Integer, String and Boolean. Connectivity Type options are **data point ACK**, **connectivity**, and **registration**. The **Scope** defines who is allowed to see the property.

4. Check the **Host SW Version** checkbox, if desired. This is the host software associated with a specific device. Checking Host SW version indicates if ADS should treat their property as the Host MCU software version.
5. Check the **Time Series** checkbox, if desired. Checking the **Time Series** option helps queue the datapoints when the device goes offline. When the device comes back online ADS will send all the datapoints to the device.
6. Click the **Save** (or Cancel) button.

Commands

You can use this screen to view all commands that were sent to the device. From this screen you can use the **PREV** and **NEXT** buttons to page through the list of commands or remove commands using the **DELETE ALL** button.

To access the commands options, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **COMMANDS** tab located in menu options on the devices detail screen. The following screen displays.

Commands		
DELETE ALL		
< PREV 1 - 6 of 6 NEXT >		
Resource	URI	Data
logclient.json	/cmd_post_process.json	{"enabled":1,"host":"log.aylanetworks.com","uri":"/api/v1/device/logs","protocol":"https"}
config.json	/cmd_post_process.json	{"config":{"name":"sys/setup_mode","val":0}}
config.json	/cmd_post_process.json	{"config":{"name":"sys/setup_mode","val":1}}
config.json	/cmd_post_process.json	{"config":{"name":"sys/setup_mode","val":1}}
ota.json	/cmd_post_process.json	{"ota":{"url":"https://ais.aylanetworks.com/device/images/21.json?dsn=AC000W000000266","type":"module","ver":"1.1.2","size":58532,"checksum":"70547b4a963490d189893e338bc486"}}
config.json? name=sys/setup_mode	/sys_setup_mode.json	
< PREV 1 - 6 of 6 NEXT >		

Figure 48 – OEM Dashboard OEM Devices – Commands

Deleting All Commands

To delete all commands, click the **Delete All** button.

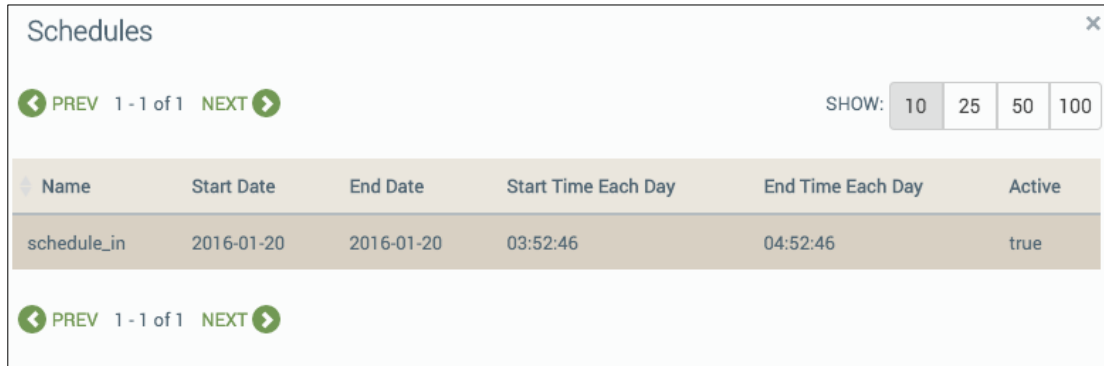
Schedules

The schedules tab allows you to create schedules. You can create new schedules as well as make changes to current schedules. Schedules are used to manage your device activity.

To view the device schedule options, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.

2. Click one of the devices listed. The device details screen displays.
3. Click the **SCHEDULES** tab located in the menu options on the devices detail screen. The following screen displays.



Name	Start Date	End Date	Start Time Each Day	End Time Each Day	Active
schedule_in	2016-01-20	2016-01-20	03:52:46	04:52:46	true

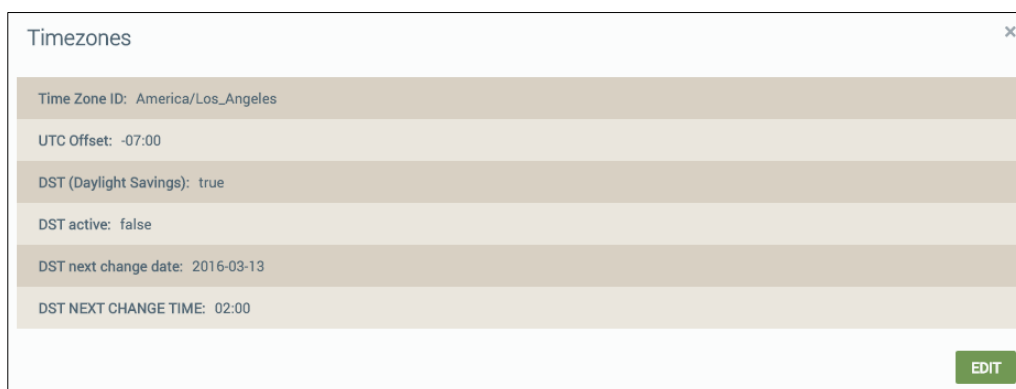
Figure 49 – OEM Dashboard OEM Devices – Schedules

TimeZones

You can use the following screen to view all timezones assigned to your devices.

To access the device timezones options, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **TIMEZONES** tab located in the menu options on the devices detail screen. The following screen displays.



Time Zone ID: America/Los_Angeles
UTC Offset: -07:00
DST (Daylight Savings): true
DST active: false
DST next change date: 2016-03-13
DST NEXT CHANGE TIME: 02:00

Figure 50 – OEM Dashboard OEM Devices – Time Zones

You can use the **Edit** button at the bottom of the screen to change the Timezones parameters.

Editing TimeZones

You can change the timezones parameters to reflect the geographic locations of your devices.

To edit timezones, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed to display the device details.
3. Click the **TIMEZONES** tab located in the menu options on the devices detail screen.
4. Click the **Edit** button. The following screen displays where you can change Timezones parameters.

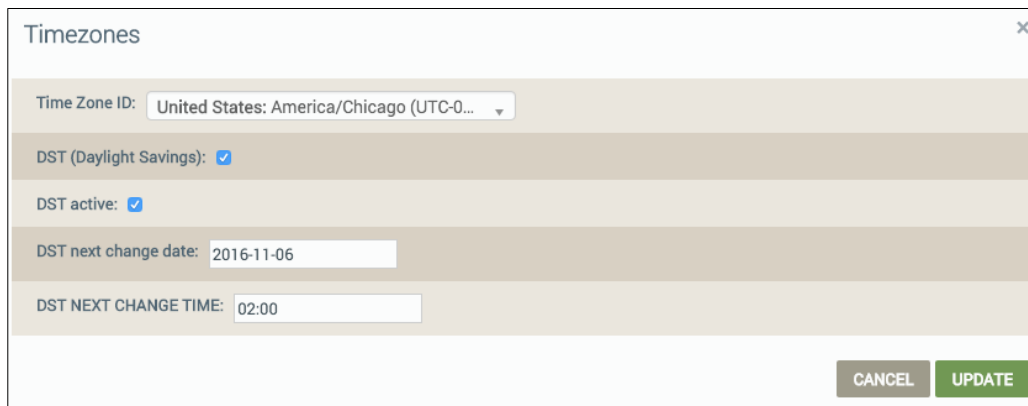


Figure 51 – OEM Dashboard OEM Devices – Edit Time Zones

5. Edit the **Time Zone ID** and **DST** (Daylight Saving Time) parameters.
6. Click the **Update** button to save your Timezones changes.

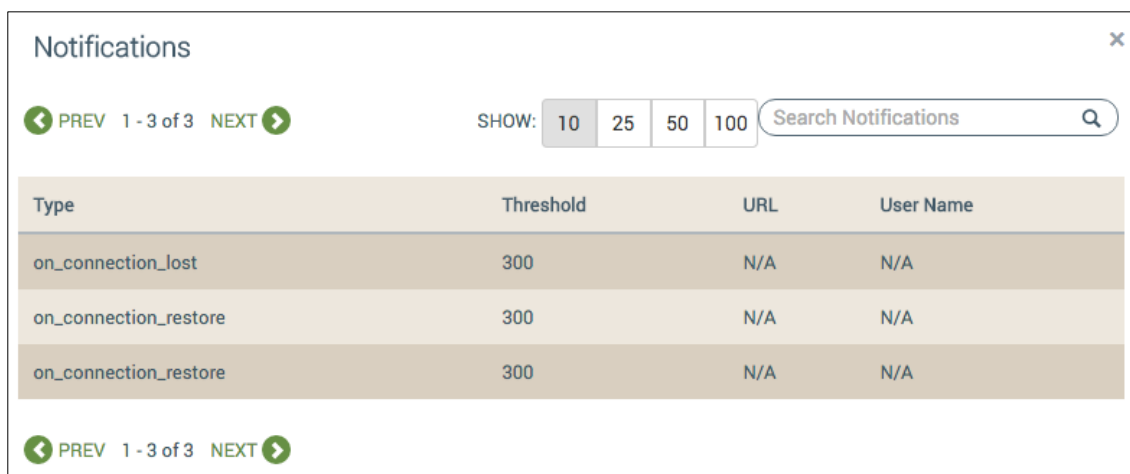
Notifications

Notifications provide you with a list of all notification types, their threshold, URL and a Username. The notification you set here is based on the devices activity that you wish to monitor.

You can use this screen to view all notifications. Ayla allows proactive OEM and User defined alerts like Email, SMS, iOS Push, and Android Push including the ability to insert dynamic data into notifications.

To access and view device notification options, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **NOTIFICATION** tab located in the menu options on the devices detail screen. The following screen displays.



Type	Threshold	URL	User Name
on_connection_lost	300	N/A	N/A
on_connection_restore	300	N/A	N/A
on_connection_restore	300	N/A	N/A

Figure 52 – OEM Dashboard OEM Devices – Notifications

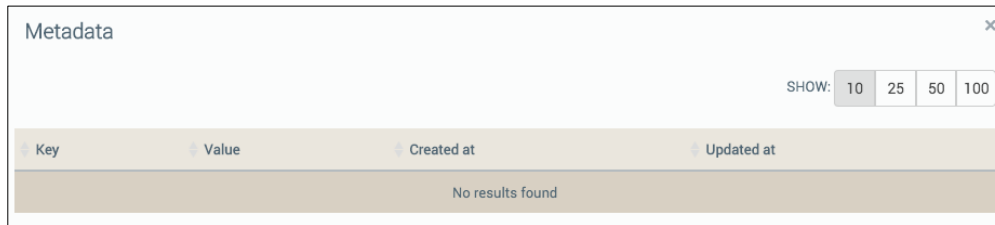
Metadata

You can use the following screen to view Metadata. Metadata can be used by the Host MCU to accentuate each datapoint update. The metadata can be useful by providing additional debug, trace or other information.

To access and view a devices' metadata, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.

- Click the **METADATA** tab located in the menu options on the devices detail screen. The following screen displays.



Key	Value	Created at	Updated at
No results found			

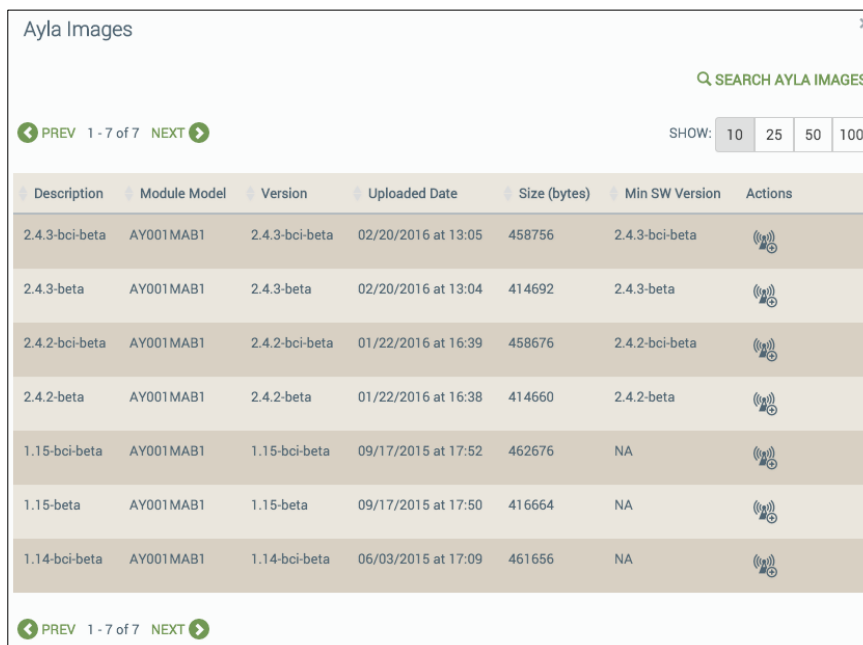
Figure 53 – OEM Dashboard OEM Devices – Metadata

Ayla Images

Using the Ayla Images You can use the following screen to view Ayla images. Using this screen users can **View**, **Search** and **Deploy** Ayla configured images. Ayla images are the actual firmware loaded on Ayla modules.

To access the Ayla Images, perform the following steps.

- Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
- Click one of the devices listed. The device details screen displays.
- Click the **AYLA IMAGES** tab located in the menu options on the devices detail screen. The following screen displays.










Description	Module Model	Version	Uploaded Date	Size (bytes)	Min SW Version	Actions
2.4.3-bci-beta	AY001MAB1	2.4.3-bci-beta	02/20/2016 at 13:05	458756	2.4.3-bci-beta	
2.4.3-beta	AY001MAB1	2.4.3-beta	02/20/2016 at 13:04	414692	2.4.3-beta	
2.4.2-bci-beta	AY001MAB1	2.4.2-bci-beta	01/22/2016 at 16:39	458676	2.4.2-bci-beta	
2.4.2-beta	AY001MAB1	2.4.2-beta	01/22/2016 at 16:38	414660	2.4.2-beta	
1.15-bci-beta	AY001MAB1	1.15-bci-beta	09/17/2015 at 17:52	462676	NA	
1.15-beta	AY001MAB1	1.15-beta	09/17/2015 at 17:50	416664	NA	
1.14-bci-beta	AY001MAB1	1.14-bci-beta	06/03/2015 at 17:09	461656	NA	

Figure 54 – OEM Dashboard OEM Devices – Ayla Images

Host MCU Images

Host MCU Images are images that are deployed and communicates directly with Ayla enabled Wi-Fi modules. Using the Host MCU Images screen you can view details about the MCU Host Images, deploy images or download a MCU Host Image.

To access the host MCU images options, perform the following steps.











1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **HOST MCU IMAGES** tab located in the menu options on the devices detail screen. The following screen displays.

Host MCU Images

SEARCH HOST MCU IMAGES

PREV 1 - 5 of 5 NEXT

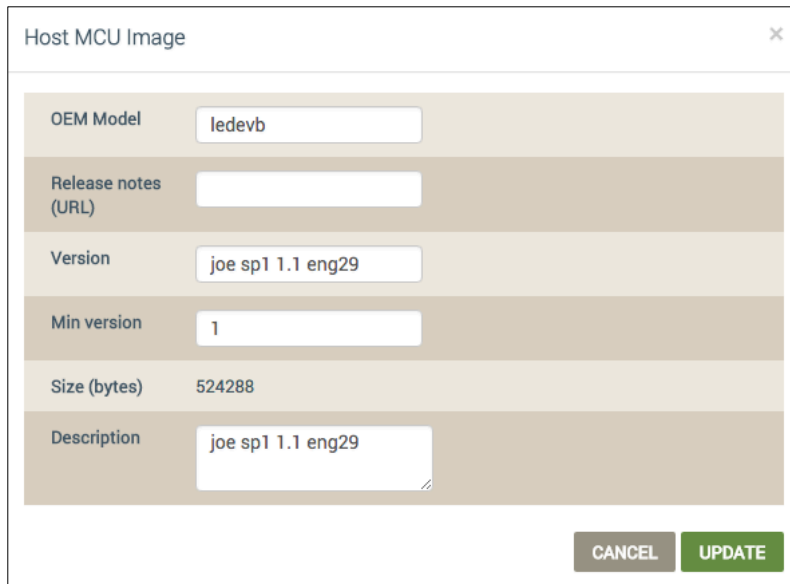
SHOW: 10 25 50 100

Description	OEM Model	Version	Uploaded Date	Size (bytes)	Min version	Actions
joe test1	smartplug1	joe test1	04/16/2016 at 16:08	524288	1	 
joe sdk_shell 1.1 op 6	smartplug1	joe sdk_shell 1.1 op 6	04/02/2016 at 19:17	524288	1	 
joe test 512k crc 72318c3a	smartplug1	test-crc 512k	01/26/2016 at 14:44	524288	1.1	 
joe test 32k crc 2b2ecea2	smartplug1	test-crc 32k	01/22/2016 at 9:45	32768	1.1	 
joe test 8k crc 3231ae2	smartplug1	test-crx 8k	01/22/2016 at 9:44	8192	1.1	 

PREV 1 - 5 of 5 NEXT

Figure 55 – OEM Dashboard OEM Devices – MCU Images

To edit Host MCU images, click one of the images from the list to display that specific image details and then click the **EDIT** button on the details page. The Host MCU images screen displays, as shown in the figure below.



Host MCU Image

OEM Model	ledvb
Release notes (URL)	
Version	joe sp1 1.1 eng29
Min version	1
Size (bytes)	524288
Description	joe sp1 1.1 eng29

CANCEL UPDATE

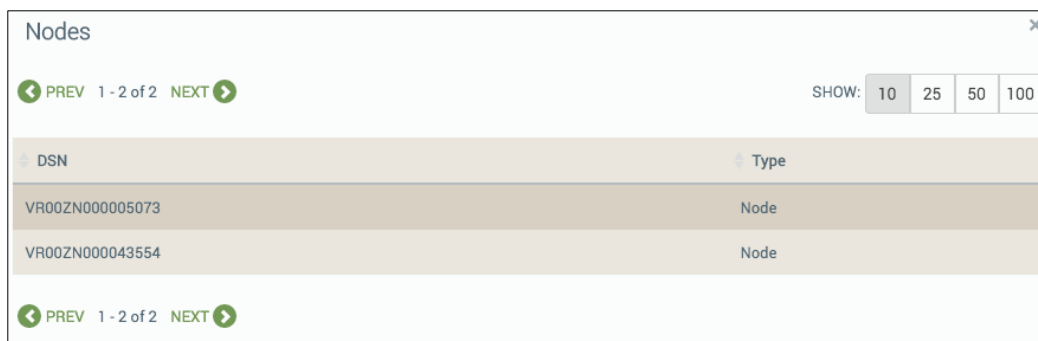
Figure 56 – OEM Dashboard OEM Devices – Edit MCU Image

Nodes

If you are deploying Ayla's platform gateway you can view the nodes associated with the gateway.

To access the Nodes options, perform the following steps.

1. Launch the OEM Dashboard and select **Devices** from the menu on the left side of the screen.
2. Click one of the devices listed. The device details screen displays.
3. Click the **NODES** tab located in the menu options on the devices detail screen. The following screen displays.



Nodes

PREV 1 - 2 of 2 NEXT

SHOW: 10 25 50 100

DSN	Type
VR00ZN000005073	Node
VR00ZN000043554	Node

PREV 1 - 2 of 2 NEXT

Figure 57 – OEM Dashboard OEM Devices – MCU Images

End Users

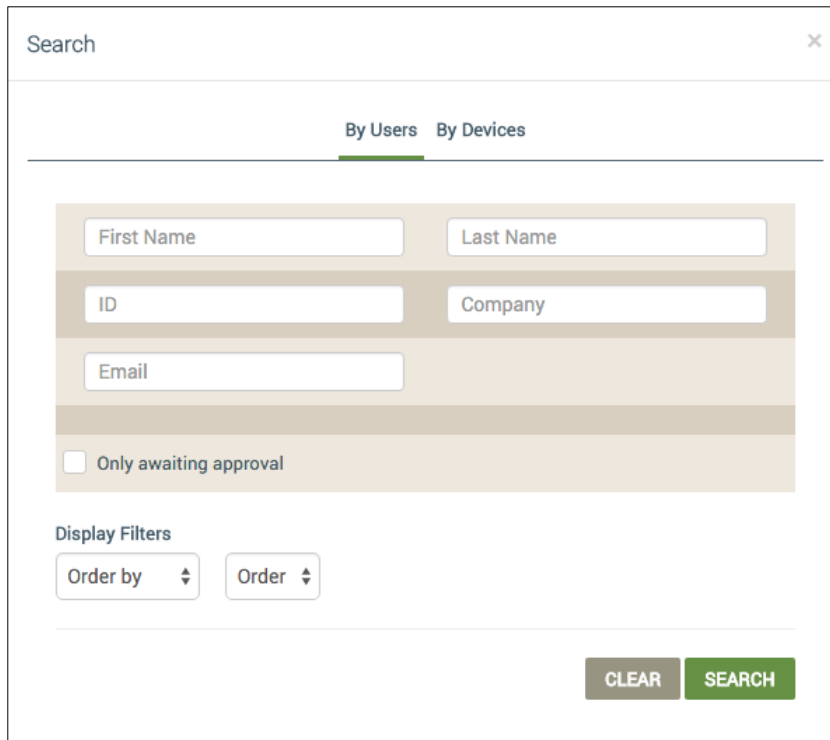
The **End Users** section allows you to view registered users, search for users based on the users name or device and create new users. When you access the End Users screen, information for the ten (10) users displays. You can change the number users you wish to display by selecting one of the options listed under the **SEARCH END USER** link.

Searching End Users

Using the **Search End Users** link you search for end user based on their name or a device registered and assigned to them.

To search for end users based on a **name**, perform the following steps.

1. Launch the OEM Dashboard and select **End Users** from the menu on the left side of the screen.
2. Click the **SEARCH END USERS** button, the following screen displays.



The screenshot shows a search form titled "Search" with a close button (X) in the top right corner. Below the title, there are two tabs: "By Users" (selected) and "By Devices". The form contains several input fields: "First Name", "Last Name", "ID", "Company", and "Email". There is also a checkbox labeled "Only awaiting approval". Below these fields, there is a section titled "Display Filters" with two dropdown menus: "Order by" and "Order". At the bottom right of the form, there are two buttons: "CLEAR" and "SEARCH".

Figure 58 – Search End Users – By Users

3. Under the **By Users** tab, enter the users detailed information in the fields provided. The database ID is created for the OEM user. The **ID** is a unique identifier that associates a device with a specific user.
4. Using the **Display Filters**, specify the order you would like to have your results displayed.

5. Click the **Search** button to complete your search.

To search for end users based on **devices**, perform the following steps.

1. Click the **SEARCH END USERS** button.
2. Click the **By Devices** tab, the following screen displayed.

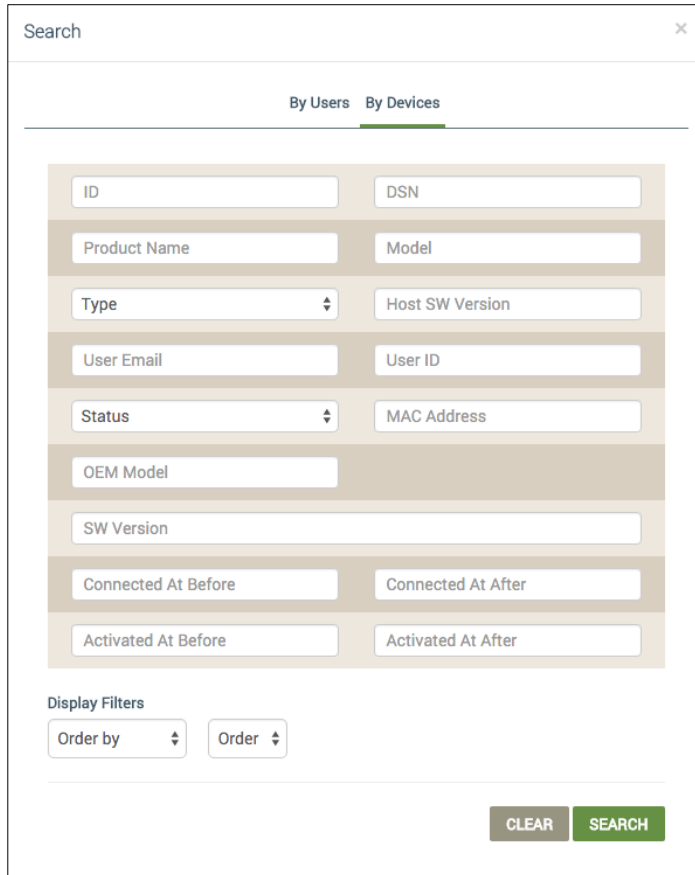


Figure 59 – Search End Users – By Devices

3. Enter the users detailed information in the fields provided.
 4. Using the **Display Filters** specify the order you would like to have your results displayed.
 5. Click the **Search** button to complete your search.
- The following screen is an example of the results returned and the list of devices registered to the user.

End Users							SEARCH END USERS	
CREATE USER								
PREV 1 - 10 of 438 NEXT							SHOW: 10 25 50 100	
ID	First Name	Last Name	Email	Confirmed	Approved	Devices	Actions	
15	Hundry	Chien	hundrychien@gmail.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W00002243		
1	Adrian	Caceres	adrian@aylanetworks.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W00001008 AC000W000005575		
17	Dan	Myers	dan@aylanetworks.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W00001469 AC000W000002221		
105	Guest	User	guest80@iotanetworks.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W000005808		
2	Joe	Eykholt	joe@aylanetworks.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W000000520 AC000W0000432406 AC000W0000433926		
143	Gerry	O'Brien	gobrien@blueininnovations.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W000001732		
34	Sudha	Sundaresan	sudha@aylanetworks.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W00001737 AC000W000002590		
131	Guest	40	guest40@iotanetworks.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W000001748		
145	Mike	Celentano	mike.celentano@roche.com	<input type="checkbox"/>	<input type="checkbox"/>	AC000W000001733		
PREV 1 - 10 of 438 NEXT							CREATE USER	

Figure 60 – OEM Dashboard – End Users

- Click any devices listed to show the details for that particular device, as shown below.

AC000W00002243
ID: 1789
Product Name: CyberPower Plug #1
Model: AY001MUV1
OEM Model: smartplug1
SW Version: bc 1.9.5 06/18/14 10:37:45 ID 8af938f
User: 15
Connected At: 2015-02-20T19:55:11Z
Activated At: 2013-10-07T00:58:02Z

Settings
Template
LAN Support
Device Controls
Log Levels
Log
Location
Connection History

Product Name: CyberPower Plug #1
ID: 1789
OEM: 0dfc7900
Host SW Version: Myla 0.5 2013-07-05 20:55:00
MAC Address: cc52afcd6d35
Type: Wifi
Regtoken: 9311d5
LAN IP: 192.168.1.88
Locality: 55422
Provisional: false
Device Settings
☐ Enable Logging
☐ Enable SSL
☒ Enable Ans
Ans Server: ans.aylanetworks.com
Registrable: ☒
Registration Type: Button-Push
User: 15
Unregister: Unregister

EDIT

Figure 61 – OEM Devices – Settings

End User Details

You can view details about your end users from this screen by clicking the users name or email. The User Details section provides information on the users Metadata, Shares, Contacts and Devices.

To view end users metadata details, perform the following steps.

1. Launch the OEM Dashboard and select **End Users** from the menu on the left side of the screen.
2. Click a users name, or email to display the users details. The following screen displays.

User: Hundry Chien

Details
Metadata
Shares
Contacts
Devices

First Name:	Hundry
Last Name:	Chien
Email:	hundry_chien@cyberpowersystems.com.tw
Company:	Cyberpower
Street:	
City:	Taipei
State:	
Zip:	
Country:	Taiwan
Confirmed:	<input checked="" type="checkbox"/>
Approved:	<input checked="" type="checkbox"/>
Country Code:	
Phone:	+886226518699
OEM:	
Roles:	EndUser

CLOSE
EDIT

Figure 62 – End User Details

End User Metadata

You can view metadata details about your end users from this screen by clicking the users name or email.

To view end users details, perform the following steps.

1. Launch the OEM Dashboard and select **End Users** from the menu on the left side of the screen.
2. Click a users name, or email to display the users details.
3. Click the **Metadata** tab, the following screen displays.

User: OEM User

Details Metadata Shares Contacts Devices

Key	Value	Created at	Updated at
AgileLinkDev-id-Groups	()	2015-06-09T20:19:12Z	2015-06-09T20:19:12Z
AgileLinkDev-id-settings	("owner-contact-id":255)	2015-06-09T20:19:14Z	2015-06-09T20:19:14Z
AgileLinkProd-id-Groups	()	2015-06-22T19:13:35Z	2015-06-22T19:13:35Z
AgileLinkProd-id-settings	("owner-contact-id":314)	2015-06-22T19:13:37Z	2015-06-22T19:13:37Z

Figure 63 – End Users – Metadata

User Metadata shows the Key, Value, Created at (date), and Updated at (date).

End User Shares

End User Shares is where OEM's can configure the devices shared by the registered user to others. For example, members of a family can share a device. Hotel guests can get shares on the devices in their room. Selecting the **Shares** tab opens the **End Users Share** view.

To view end users shares, perform the following steps.

1. Launch the OEM Dashboard and select **End Users** from the menu on the left side of the screen.
2. Click a users name, or email to display the users details.
3. Click the **Shares** tab, the following screen displays.

User: OEM User

Details Metadata Shares Contacts Devices

Share ID	Grant ID	User ID	Resource ID	Resource Name	Created at	Start	End	Status	Operation
3956	2220	77033	AC000W000368304	device	12/28/2015 at 0:36				write

Figure 64 – OEM Dashboard End Users – Shares

The end user shares view includes the following information.

Table 4. OEM Dashboard End Users – Shares

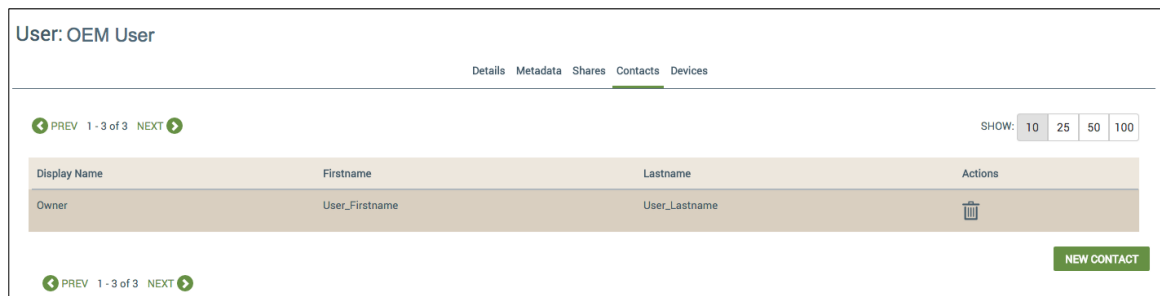
Share Label	Share Label Description
Share ID	The ID of the device being shared
Grant ID	The ID of the OEM granting use of the shared device
User ID	The ID of the user authorized to share this device
Resource ID,	The property ID of the device
Resource Name	The Name of the device being shared
Created at (date)	The date the share process was created
Start (date)	The start date the device being shared
End (date)	The end date of the device being shared
Status	The current status of the device. On/Off
Operation	The action that the user

End User Contacts

Clicking Contacts opens the End Users Contacts view.

To view end users contacts, perform the following steps.

1. Launch the OEM Dashboard and select **End Users** from the menu on the left side of the screen.
2. Click a users name, or email to display the users details.
3. Click the **Contact** tab, the following screen displays.



User: OEM User			
Details Metadata Shares Contacts Devices			
PREV 1 - 3 of 3 NEXT		SHOW: 10 25 50 100	
Display Name	Firstname	Lastname	Actions
Owner	User_Firstname	User_Lastname	
PREV 1 - 3 of 3 NEXT		NEW CONTACT	

Figure 65 – OEM Dashboard – End User Contacts

User Contacts data shows the **Display Name**, **Firstname**, **Lastname**, and **Actions**.

End User Devices

Click on a device in the Devices column to open the details of the device.

To view end users devices, perform the following steps.

1. Launch the OEM Dashboard and select **End Users** from the menu on the left side of the screen.
2. Click a users name, or email to display the users details.
3. Click the **Devices** tab, the following screen displays.

User: OEM User

Details
Metadata
Shares
Contacts
Devices

PREV 1 - 8 of 8 NEXT
SHOW: 10 25 50 100

ID	DSN
2168	AC000W000002607
3127	AC000W000005986
18983	AC000W000114502
55437	AC000W000432414
63440	AC000W000441358
69643	AC000W000433895
71708	AC000W000433896
90707	VR00ZN000008230

Figure 66 – OEM Dashboard – Devices

User Devices data shows the ID and DSN information.

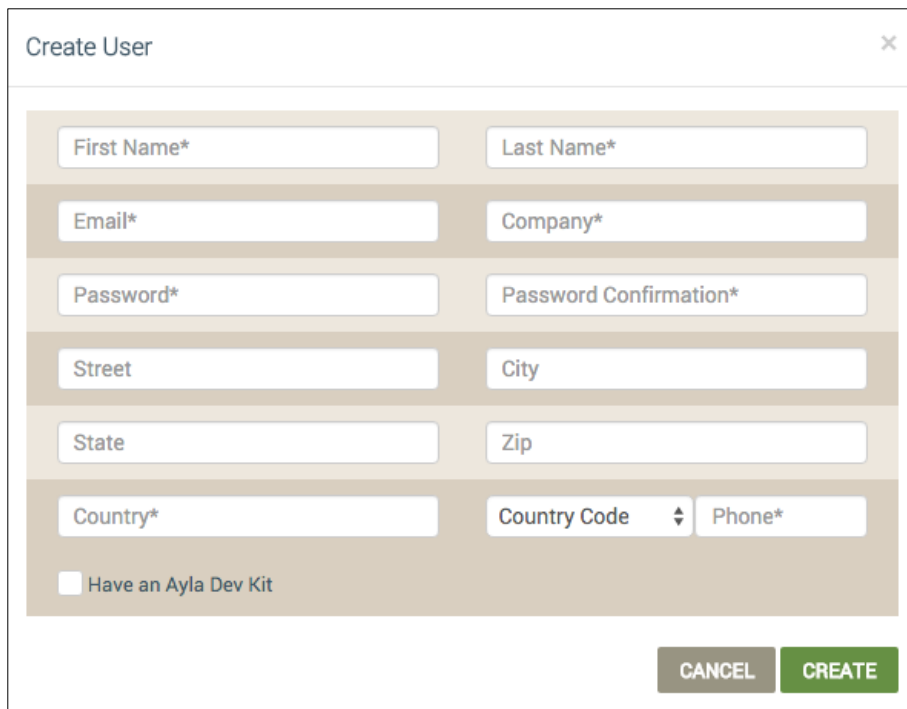
Create a new End User

You use the OEM dashboard to create new end users

New users you create are added the list of users displayed in the dashboard. When you create new end users you can assign privileges to users, which can provide access and control over specific devices.

To view end users shares, perform the following steps.

1. Launch the OEM Dashboard and select **End Users** from the menu on the left side of the screen.
2. Click the **Create User** button, the following screen displays.



The 'Create User' form is a modal window with a title bar containing the text 'Create User' and a close button (X). The form contains several input fields arranged in a grid. The first row has 'First Name*' and 'Last Name*'. The second row has 'Email*' and 'Company*'. The third row has 'Password*' and 'Password Confirmation*'. The fourth row has 'Street' and 'City'. The fifth row has 'State' and 'Zip'. The sixth row has 'Country*' and 'Country Code' (a dropdown menu) followed by 'Phone*'. At the bottom left, there is a checkbox labeled 'Have an Ayla Dev Kit'. At the bottom right, there are two buttons: 'CANCEL' and 'CREATE'.

Figure 67 – OEM Dashboard –Create New End User

3. Enter the user's information in the fields provided.
4. Click the **Create** button, to create a new user. The new user is added to the list of end users.

OTA

OTA is a solution to update images in both the Wi-Fi module and the product solution. This may be required due to necessary updates in the communications protocol, improvements in the transport or security service, or for product functionality improvements.

The Ayla OEM Dashboard allows you to perform OTA management tasks, such as create, update and track all OTA images (firmware updates) in developer and field environments. This is available for module software, application MCU, and Linux firmware updates. You can typically create a group of devices and then have OTA jobs for those groups.

Suggested practices for moving from the Developers Portal to the OEM Dashboard are listed below:

- Test on the Developer Environment - Any new OTA firmware update needs to be tested in the developer environment.
- Ramp up on Field Environment - Start with 5-10% of field devices with an OTA job, then wait until the job is complete and make sure all the devices, which are online, have successfully updated to new firmware version.
- Complete Deployment on Field Environment
- Update all other field devices in blocks of 100-1000 devices.
- Make sure each job is successful for each OTA job.

The following sections discuss the functionality of each operation.

Ayla Images

You can view details about Ayla Images from this screen by clicking the users name or email. To view end users details, perform the following steps.

1. Launch the OEM Dashboard and select **OTA** from the menu on the left side of the screen.











Ayla Images Host MCU Images OTA Jobs						
<div> <div> <div>PREV</div> <div>1 - 10 of 275</div> <div>NEXT</div> </div> <div> <div>SHOW:</div> <div>10</div> <div>25</div> <div>50</div> <div>100</div> </div> </div>						
Description	Module Model	Version	Uploaded Date	Size (bytes)	Min SW Version	Actions
2.4.3	AY001MTS1	2.4.3	02/20/2016 at 13:33	813640	2.4.3	
2.4.3-bci-beta	AY001MAB1	2.4.3-bci-beta	02/20/2016 at 13:05	458756	2.4.3-bci-beta	
2.4.3-beta	AY001MAB1	2.4.3-beta	02/20/2016 at 13:04	414692	2.4.3-beta	
2.4.2-beta from 2.3-beta	AY001MTC1	2.4.2-beta	02/11/2016 at 16:01	128904	2.3-beta	
2.4.2	AY001MTS1	2.4.2	01/22/2016 at 16:43	813640	2.4.2	
2.4.1-beta from 2.4.2-beta	AY001MTC1	2.4.1-beta	01/22/2016 at 16:42	85832	2.4.2-beta	
2.4.2-beta from 2.4.1-beta	AY001MTC1	2.4.2-beta	01/22/2016 at 16:41	90520	2.4.1-beta	
2.4-beta from 2.4.2-beta	AY001MIV1	2.4-beta	01/22/2016 at 16:40	98248	2.4.2-beta	
2.4.2-beta from 2.4-beta	AY001MIV1	2.4.2-beta	01/22/2016 at 16:40	107200	2.4-beta	
2.4.2-bci-beta	AY001MAB1	2.4.2-bci-beta	01/22/2016 at 16:39	458676	2.4.2-bci-beta	

Figure 68 – OTA – Ayla Images

Table 5. OTA – Ayla Images

Ayla Images Category	Descriptions
Description	
Module Model	Enter the OEM Model associated with the Ayla Images.
Version	Enter the Ayla Image version number.
Uploaded Date	The date and time of the Host MCU image was uploaded.
Size (Bytes)	The size of the Host MCU image.
Min SW Version	The minimum version number of Host MCU Image.
Actions	The types of actions you can perform on the Host MCU Image.

2. Click one of the model numbers to display the Ayla Image details. The following figure displays.

Ayla Image	
Module Model	AY001MUS1
Version	1.1.2
Min SW Version	1.1.1
Size (bytes)	58532
Description	1.1.2 from 1.1.1
OEM	0dfc7900
CLOSE	

Figure 69 – OTA – Ayla Images Details

NOTE: You can only view Ayla developed images. You cannot make any changes to Ayla images from the OEM Dashboard.

Host MCU Images

The Host MCU image sends and receives name/value pairs between the MCU and the Ayla Device Service (ADS). Names are called properties. Values are called data points.































Ayla Images Host MCU Images OTA Jobs						
CREATE						
Q SEARCH HOST MCU IMAGES						
PREV 1 - 10 of 107 NEXT						
SHOW: 10 25 50 100						
Description	OEM Model	Version	Uploaded Date	Size (bytes)	Min version	Actions
joe 20	smartplug1	joe 20	04/13/2016 at 15:08	524288	1	  
joe 19	smartplug1	joe 19	04/12/2016 at 18:29	524288	1	  
joe 18	smartplug1	joe 18	04/12/2016 at 18:06	524288	1	  
joe 17	smartplug1	joe 17	04/12/2016 at 15:55	524288	1	  
joe 16	smartplug1	joe 16	04/12/2016 at 15:22	524288	1	  
joe 15	smartplug1	joe 15	04/11/2016 at 17:35	524288	1	  
joe sdk_shell 1.1 op 6	smartplug1	joe sdk_shell 1.1 op 6	04/02/2016 at 19:17	524288	1	  
test_image_0.9.5_rc2	linuxex1f	0.9.5	03/31/2016 at 14:46	1689600	0.9.4	  
test_image_0.9.5_rc1	linuxex1f	0.9.5	03/28/2016 at 16:56	1904640	0.9.4	  
Test image 0.9.4+buffer+wifi	linuxex1f	1	03/08/2016 at 21:06	2273280	1	  
PREV 1 - 10 of 107 NEXT						
CREATE						

Figure 70 – OEM Dashboard – Host MCU Images

How to update a Host Application

Preparing the Host OTA

1. In the Ayla developer website (<https://developer.aylanetworks.com>) choose one of the following:
 - Clone an existing template and update the version of the template
 - OR -
 - Define a new template for your device
2. In the new/updated template, define a template property that tracks the **Host SW Version** of the device.
3. Check the flag **Host SW Version** for the property. Make sure that the property is **OEM** scope.
4. Update the **Host Application Software version** (oem_host_version) to the new version. This associates the new /updated template with the device.
5. If you have made any changes to the properties then update the **Host Application Software** as well.

Starting an OTA Job

To start an OTA job for Ayla and Host MCU images, perform the following steps.

NOTE: You have to create a group of device prior to starting any OTA job.

1. Launch the OEM Dashboard and select **OTA** from the menu on the left side of the screen.
2. Click the **OTA Jobs** tab, the following screen displays.

Ayla Images Host MCU Images OTA Jobs										
<div> <div>PREV 1 - 10 of 247 NEXT</div> <div>SEARCH OTA JOBS</div> </div>										
SHOW: 10 25 50 100										
Name	Status	Username	Creation Date	Type	Image Version	From Version	Devices	Passed	Failed	Last Updated
OTASMLLGROUP312016	started	alankritha Sishthla	2016-03-02T03:45:07Z	module	2.4.3-bci-beta-rc1	2.4.3-bci-beta-rc1	0	0		2016-03-02T03:45:07Z
TRYOTA3116	started	alankritha Sishthla	2016-03-02T03:26:00Z	module	2.4.3-bci-beta-rc1	2.4.3-bci-beta-rc1	0	0		2016-03-02T03:26:00Z
ayla-muv1-195-1914	started	Adrian Caceres	2016-03-01T22:27:04Z	module	1.9.14	1.9.5	0	2		2016-03-01T22:27:04Z
2226-from199to1917	finished	Adrian Caceres	2016-03-01T18:53:13Z	module	1.9.17	1.9.9	1	0		2016-03-01T18:53:13Z
ayla-195-1914-grp1	started	Adrian Caceres	2016-03-01T18:15:50Z	module	1.9.14	1.9.5	4	0		2016-03-01T18:15:50Z
joe test 32k 2b2ceca2	finished	Joe Eykholt	2016-03-01T00:01:35Z	host_mcu	test-crc 32k	1.1	1	0		2016-03-01T00:01:35Z

Figure 71 – OEM Dashboard – OTA Jobs

Table 6. OTA – OTA Jobs

OTA Jobs Fields	Description
Name	Device Group Name
Status	The status of your OTA job
Username	The name of the user who own the devices
Creation Date	The date the OTA job was created
Type	The type of OTA job scheduled to run
Image Version	The version of the image associated with a specific OTA job
From Version	The version image you are upgrading from
Devices	Devices that associated with the OTA job
Passed	The number of OTA Jobs that passed
Failed	The number of OTA Jobs that failed
Last Updated	The time and date of the
Action	The actions you can perform on your OTA job Options are: <ul style="list-style-type: none"> Refresh Cancel OTA Job Delete OTA Job

- Use the **Search OTA Jobs** field to search for a group of devices you want to include in your OTA job.
- Click the **Refresh** icon to start your job.

Creating a New Host MCU Image

To create a new MCU host image, perform the following steps:

- Launch the OEM Dashboard and select **OTA** from the menu on the left side of the screen.
- Click the **Host MCU Images** tab.

3. Click the **Create** button at the top of the screen. The following screen displays.

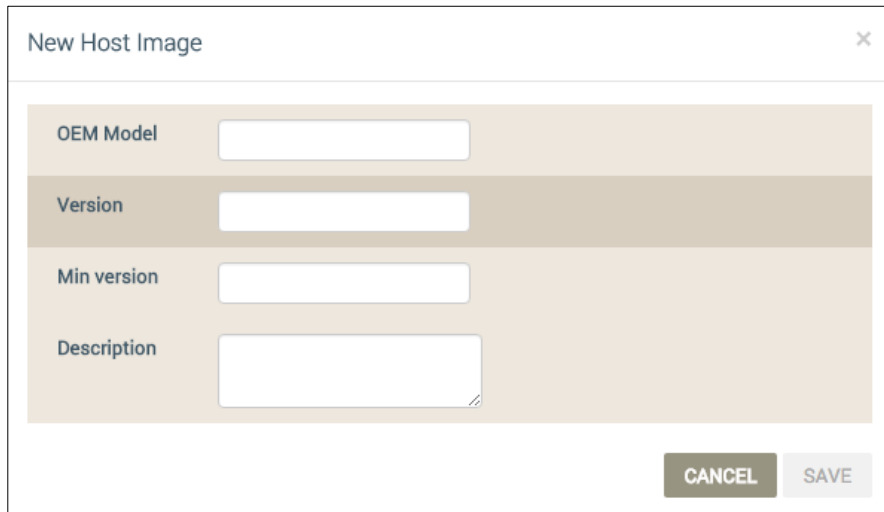


Figure 72 – OEM Dashboard – New Host Image

4. Click on the **OTA** menu, and go to the **Host MCU Images** tab. Choose an image for the OTA or add a new host image follow the directions below:
 - a. Click **Add**.
 - b. Complete the required information in the pop-up.
 - c. Click **Create**.
 - d. In the list of images, select the radio button for the image you want to deploy.
 - e. Click **Upload**.
 - f. Upload the image.
5. In the list of images, **select** the radio button for the image you want to deploy.
6. In **Deploy to Group** choose the group to which the OTA must be pushed and click **Create Job**.
7. When you are ready to start the OTA push click **Start**.
8. You can observe the process and look at the progress of individual devices in the OTA group.

Host MCU OTA

Perform the MCU OTA

To start an OTA on Host MCU Image, perform the following steps.

1. Launch the OEM Dashboard and select **OTA** from the menu on the left side of the screen.
2. Click the **Host MCU Images** tab.
3. In the OEM Dashboard, go to the **Devices** tab.
4. Create a group of devices based on the search criteria provided. The search criteria require a model.
5. Click **Actions** to create the OTA group. You can also add it to an existing OTA group, if you want.
6. Click on the **OTA** menu, and go to the **Host MCU Images** tab.
7. In the list of images, **select** the radio button for the image you want to deploy.

IMPORTANT! *If you want to go to more than one version, you must include all releases from your current version to the version you want. For example if you want to go to version 3 and you are at version 1, you will go from version 1 to version 2 and then from version 2 to version 3 (1.0 -> 2.0 -> 3.0).*

8. In **Deploy to Group** choose the group to which the OTA must be pushed and click **Create Job**.
9. When you are ready to start the OTA push click **Start**.

You can observe the process and look at the progress of individual devices in the OTA group.

Job Detail

Created at: 2016-03-02T03:26:00Z

Status: started

From Version: 2.4.3-bci-beta-rc1

Image Version: 2.4.3-bci-beta-rc1

Search OTA Jobs Devices

Q

SHOW:

10

25

50

100

ID	DSN	Product	Status	Module	Image
62693	OTAHUGREG ROUPPRODD EV459	Product Name	in_progress	OTEST	
62280	OTAHUGREG ROUPPRODD EV46	Product Name	in_progress	OTEST	
62694	OTAHUGREG ROUPPRODD EV460	Product Name	in_progress	OTEST	
62695	OTAHUGREG ROUPPRODD EV461	Product Name	in_progress	OTEST	

Figure 73 – OTA – Job

DataStream

DataStream (DSS) enables the OEM to create, update, or delete subscriptions for data that occurs in the Ayla Platform using a REST API. The OEM can configure Role Based Access Controls (RBAC) to restrict which data transmitted externally to partners. For more information on DSS refer to Ayla Single Sign-On (SSO) (AY006USS6-2) users guide.

Data Streams Subscriptions

To view subscribed data streams, perform the following steps.

1. Launch the OEM Dashboard and select **DataStream** from the menu on the left side of the screen. The DataStream subscription screen displays.
2. Click a users ID or name to display the users details, as shown in Figure 61.

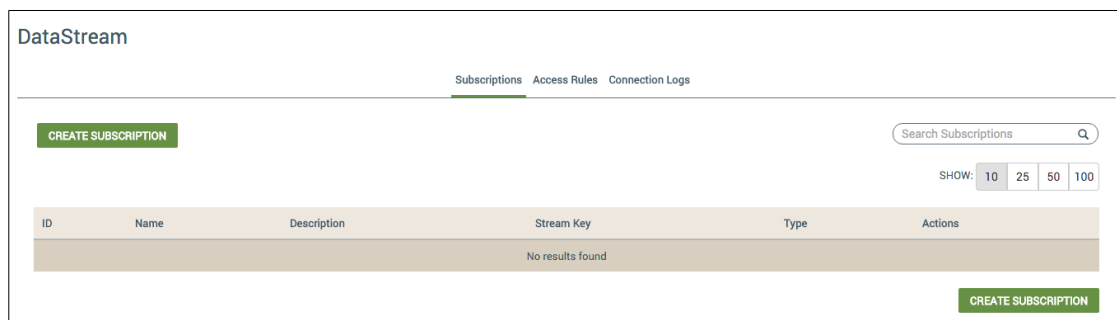


Figure 74 – OEM Dashboard – Viewing Data Streams

You can use this screen to perform the following tasks.

- View and create new subscriptions
- View and create access rules
- View connection logs

Creating a New Subscription

To create a new subscription, perform the following steps.

1. Launch the OEM Dashboard and select **DataStream** from the menu on the left side of the screen. The DataStream screen displays.
2. Click the **Create Subscription button**. The following screen displays.

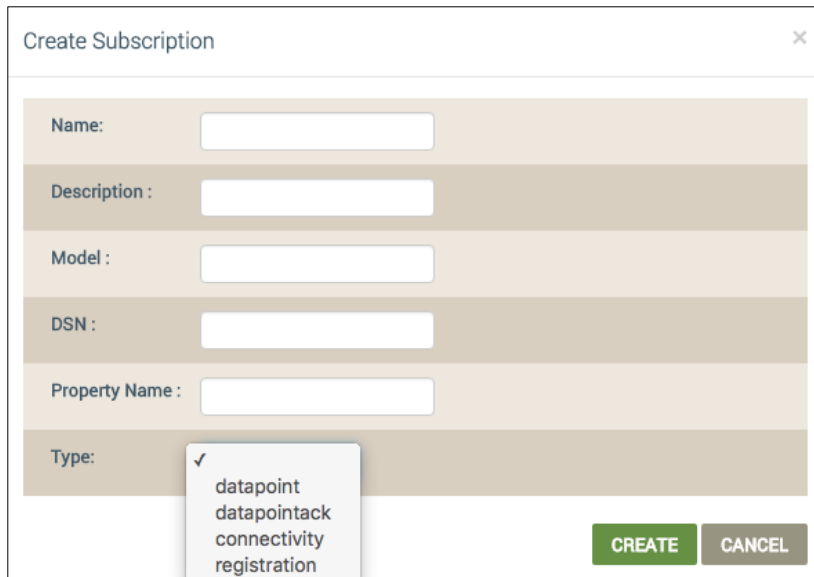


Figure 75 – OEM Dashboard DataStream – Create Subscription

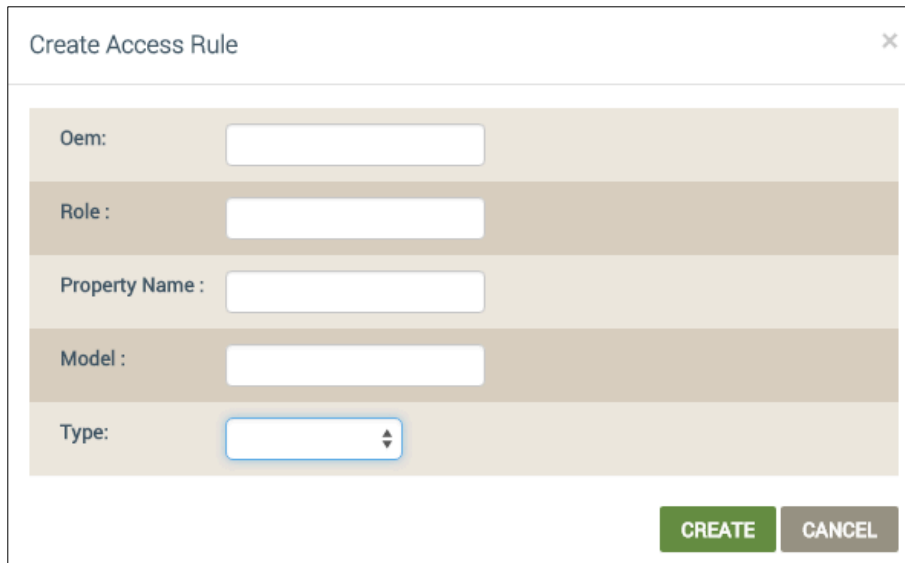
3. Enter the information requested in the fields provided.
4. Select the subscription type, from the drop down. DSS supports four event types:
 - Connectivity
 - Registration
 - Datapoint
 - Datapointack (Available for generic gateway and Linux Whitebox)
5. Click the **Create** button to create your new subscription. For more information on DSS refer to Ayla Single Sign-On (SSO) (AY006USS6-2) users guide.

Access Rules

OEM's can create access rules to specify which users can receive and review DataStream subscriptions. Access rules can be created for specific user roles and subscription types.

To create access rules, perform the following steps.

1. Launch the OEM Dashboard and select **DataStream** from the menu on the left side of the screen. The DataStream screen displays.
2. Click the **Access Rules** tab. The following screen displays.



The 'Create Access Rule' dialog box contains the following fields:

- Oem:
- Role:
- Property Name:
- Model:
- Type:

At the bottom right, there are two buttons: **CREATE** and **CANCEL**.

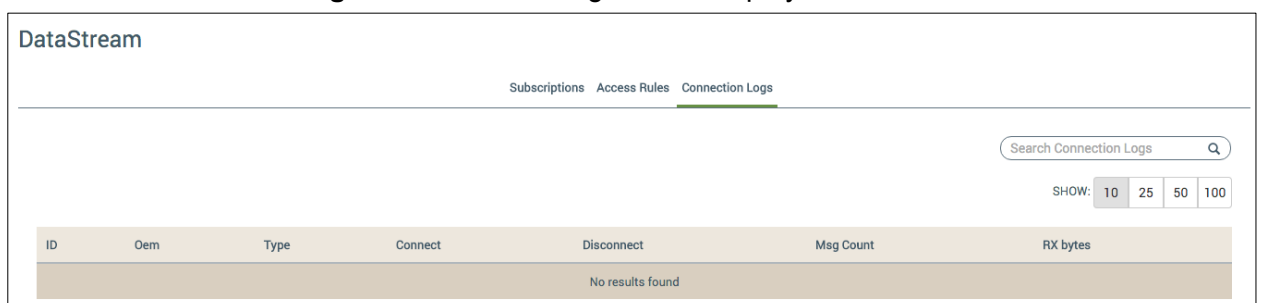
Figure 76 – OEM Dashboard DataStream – Create Access Rule

3. Enter the information requested in the fields provided.
6. Select the subscription type, from the drop down. DSS supports four event types:
 - Connectivity
 - Registration
 - Datapoint
 - Datapointack (Available for generic gateway and Linux Whitebox)
4. Click the **Create** button, to create your new access rule.

Connection Logs

To view connection logs, perform the following steps.

1. Launch the OEM Dashboard and select **DataStream** from the menu on the left side of the screen. The DataStream screen displays.
2. Click the **Connection Logs** tab. The following screen displays.



The 'DataStream' screen shows the 'Connection Logs' tab selected. It includes a search bar labeled 'Search Connection Logs' and a 'SHOW:' dropdown menu with options 10, 25, 50, and 100. Below this is a table with the following columns: ID, Oem, Type, Connect, Disconnect, Msg Count, and RX bytes. The table currently displays 'No results found'.

Figure 77 – DataStream – Connection Logs

Table 7. OTA – DataStream – Connection Logs

DataStream	Description
ID	The Ayla assigned ID provided to the user after signing up for a Data Stream account.
Oem	The name of OEM associated with a specific connection logs.
Type	DSS supports four event types: <ul style="list-style-type: none"><li data-bbox="638 552 841 583">• Connectivity<li data-bbox="638 583 841 615">• Registration<li data-bbox="638 615 841 646">• Datapoint<li data-bbox="638 646 1385 720">• Datapointack (Available for generic gateway and Linux Whitebox)
Connection	The time and date this device was connected.
Disconnect	The time and date this device was disconnected.
Msg Count	The number of messages that are sent.
RX bytes	The number of bytes sent.

Glossary

Cloud templates

Ayla Networks' predefined cloud templates that are designed to reduce the work requirement for a customer to create a product.

Developer Portal

Ayla's Developer Portal is used to setup, register developer kits and define the details of a product

Host MCU

The product's MCU that communicates directly with Ayla enabled Wi-Fi module.

Properties

Cloud defined values that when aggregated define what and how product features and functionality are experienced by the end user.

RBAC

Role Based Access Control framework is a process that establishes role-based access to users.

Wi-Fi Module

A Wi-Fi module is a hardware component that has an MCU containing the Ayla agent and Wi-Fi component used to allow connectivity to Ayla's Cloud Services.

DSS

DSS enables the OEM to create, update, or delete subscriptions for data that occurs in the Ayla Platform using a REST API. The OEM can configure Role Based Access Controls (RBAC) to restrict which data transmitted externally to partners.