

Ayla Customer Dashboard User Guide



Version: 6.0

Date Released: December 19, 2018

Document Number: AY006UDB3-6

Copyright Statement

© 2018 Ayla Networks, Inc. All rights reserved. Do not make printed or electronic copies of this document, or parts of it, without written authority from Ayla Networks.

The information contained in this document is for the sole use of Ayla Networks personnel, authorized users of the equipment, and licensees of Ayla Networks and for no other purpose. The information contained herein is subject to change without notice.

Trademarks Statement

Ayla™ and the Ayla Networks logo are registered trademarks and service marks of Ayla Networks. Other product, brand, or service names are trademarks or service marks of their respective holders. Do not make copies, show, or use trademarks or service marks without written authority from Ayla Networks.

Referenced Documents

Ayla Networks does not supply all documents that are referenced in this document with the equipment. Ayla Networks reserves the right to decide which documents are supplied with products and services.

Contact Information

Ayla Networks TECHNICAL SUPPORT and SALES

Contact Technical Support: <https://support.aylanetworks.com>
or via email at support@aylanetworks.com

Contact Sales: <https://www.aylanetworks.com/company/contact-us>

Ayla Networks REGIONAL OFFICES

GREATER CHINA

Shenzhen
Room 310-311
City University of Hong Kong
Research Institute Building
No. 8 Yuexing 1st Road
High-Tech Industrial Park
Nanshan District
Shenzhen, China
Phone: 0755-86581520

HEADQUARTERS

Silicon Valley
4250 Burton Drive, Suite 100
Santa Clara, CA 95054
United States
Phone: +1 408 830 9844
Fax: +1 408 716 2621

EUROPE

Munich
Building 64.07
Room EG.A.076 / 14b
Rupert-Mayer-Str. 44
D-81379 München
Germany

JAPAN

Room #701,
No.2 Ueno Building 3-7-18,
Shin-Yokohama, Kohoku Ward
Yokohama City, 222-0033 Japan
Telephone: 045-594-8406

TAIWAN

Taipei
5F No. 250 Sec. 1
Neihu Road, Neihu District
Taipei 11493, Taiwan

For a Complete Contact List of Our Offices in the US, China, Europe, Taiwan, and Japan:

<https://www.aylanetworks.com/company/contact-us>

Table of Contents

1	Introduction.....	1
1.1	Audience	1
1.2	Related Documentation	1
2	Overview of the Ayla Customer Dashboard.....	2
2.1	Access the Ayla Customer Dashboard	2
2.1.1	Log In	3
2.1.2	Forgot Password	4
2.1.3	Recover Credentials.....	5
2.2	Dashboard Navigation Panel.....	6
2.3	Default Roles in the Ayla Customer Dashboard	7
3	EM Profile.....	9
3.1	Profile Tab.....	10
3.1.1	Edit Profile.....	11
3.2	Apps.....	12
3.2.1	Create Application.....	13
3.2.2	Edit Application	14
3.2.3	Delete Application.....	20
3.3	SMTP Settings	20
3.3.1	Create SMTP Settings	21
3.3.2	View/Edit SMTP Settings.....	22
3.3.3	Delete SMTP Settings.....	23
3.4	Email Templates.....	23
3.4.1	Add New Email Template.....	25
3.4.2	View/Edit Template	25
3.4.3	Upload Template.....	27
3.4.4	Download Template	27
3.4.5	Delete Template	28
3.5	OAuth Credentials	28
3.5.1	Create OAuth Credentials	29
3.5.2	View/Edit OAuth Credentials	30
3.5.3	Delete OAuth Credentials	30
3.6	Partner Services	31
3.7	Trigger Intervals	31
3.7.1	Edit Trigger Levels	32
3.8	OAuth Application.....	33
3.8.1	Create New OAuth Application	34

3.8.2	View OAuth Application.....	37
3.8.3	Edit OAuth Application	38
3.9	Data Export.....	39
3.9.1	Refresh Credentials	40
4	OEM Users	41
4.1	Search OEM Users	42
4.2	View OEM User Details.....	44
4.3	Create OEM User	49
4.4	Reset Password	50
4.5	Resend Confirmation Instructions.....	51
4.6	Create OEM User Contact.....	51
4.7	Edit OEM User Details	54
4.8	Delete OEM User Contact	57
4.9	Delete OEM User Metadata.....	58
5	Devices	59
5.1	Table Column Descriptions	60
5.1.1	All Devices tab	60
5.1.2	Virtual Devices tab (Developer environment only).....	61
5.1.3	Groups tab	62
5.2	Search.....	63
5.2.1	All Devices Search Function (By Device).....	63
5.2.2	All Devices Search Function (By Properties).....	65
5.2.3	Search Groups.....	66
5.3	Virtual Devices (Developer Dashboard only)	67
5.3.1	Create Virtual Device	67
5.3.2	Assign/Change Device User	68
5.3.3	Reset Device.....	68
5.3.4	View/edit Virtual Device - settings and functions	69
5.4	Groups.....	69
5.4.1	Review Group Details	70
5.4.2	Create Groups	71
5.4.3	Add Devices to a Group (from All Devices tab).....	71
5.4.4	Add Device to a Group (from Groups tab).....	72
5.4.5	Edit Group – Delete Devices	73
5.4.6	Edit Group – Edit Name	74
5.4.7	Edit Group – Add Device	75
5.4.8	Delete one Group.....	76
5.4.9	Delete multiple Groups	76
5.5	Map Devices	76

5.6 Device Navigation Details – view & edit.....	78
5.6.1 Device Navigation Menu – DEVICE.....	79
5.6.2 Device Navigation Menu – PROPERTIES.....	92
5.6.3 Device Navigation Menu – COMMANDS	108
5.6.4 Device Navigation Menu – SCHEDULES	109
5.6.5 Device Navigation Menu – TIMEZONES	114
5.6.6 Device Navigation Menu – NOTIFICATIONS.....	115
5.6.7 Device Navigation Menu – METADATA.....	118
5.6.8 Device Navigation Menu – AYLA IMAGES.....	119
5.6.9 Device Navigation Menu – HOST MCU IMAGES	121
5.6.10 Device Navigation Menu – ALERT HISTORY	123
6 Templates	127
6.1 Search Templates	128
6.1.1 Search by Device	128
6.2 View Template Details	128
6.3 Templates > Template tab	129
6.4 Templates > Properties tab	130
6.4.1 Property > Details subtab	130
6.4.2 Property > Triggers subtab.....	132
6.4.3 Property > Retention subtab	134
6.4.4 Property > Denied Roles subtab	134
6.5 Templates > Schedules tab.....	136
6.5.1 Review Schedule > Details subtab	136
6.5.2 Review Schedule > Actions subtab	137
6.6 Templates > LAN tab	138
6.7 Templates > Notifications tab	139
7 End Users.....	140
7.1 Search End Users.....	141
7.1.1 Search "By Users" tab.....	141
7.1.2 Search "By Devices" tab	143
7.2 Manage End Users	146
7.2.1 Create End User	146
7.2.2 Delete End User.....	147
7.2.3 View/Edit End User Details.....	147
8 OTA	155
8.1 Ayla Images tab	156
8.1.1 View Ayla Image details.....	157
8.1.2 View Ayla Image jobs	158
8.1.3 Create OTA Job	160

8.2 Host MCU Images tab.....	161
8.2.1 Host MCU Images - Upload Image.....	162
8.2.2 Host MCU Images – Create OTA job	162
8.2.3 Host MCU Images – Download Image.....	163
8.2.4 Host MCU Images – Delete Image	163
8.3 Manage Host MCU Images	164
8.3.1 Create Host MCU Image.....	164
8.3.2 View/Edit Host MCU Image.....	165
8.3.3 Prepare Host OTA	165
8.4 OTA Jobs tab	166
8.4.1 OTA Jobs - Search.....	167
8.4.2 Delete OTA Job	168
8.5 Run OTA Job.....	169
9 Insights	170
9.1 Icons on the Insights Page.....	171
9.2 Standard Reports for Ayla Insights.....	172
9.2.1 The Standard Sets of Reports.....	172
9.2.2 Icons for Individual Reports.....	175
10 DataStream.....	177
10.1 DataStream – Subscriptions tab	178
10.1.1 Create Subscription	179
10.1.2 Review Subscription Details	180
10.1.3 Delete Subscription	180
10.2 DataStream - Access Rules tab.....	181
10.2.1 Search Access Rules.....	181
10.2.2 Create Access Rule	182
10.2.3 Delete Access Rule	183
10.3 Subscription Logs.....	183
10.3.1 Search Subscription Logs.....	184
10.3.2 Review Subscription Log Details	184
11 MobileStream.....	186
11.1 Review Mobile Subscription Details	187
12 Factory Actions.....	188
12.1 Description.....	188
12.1.1 Ayla Platform Module Categories	188
12.1.2 Ayla Platform OEM Types.....	188
12.1.3 Ayla Platform User Roles.....	189
12.1.4 Role Namespace:	190
12.2 Factory Actions tab	191

12.2.1	Search Factory Actions	192
12.2.2	View Action Details.....	193
12.2.3	Reserve Set of DSNs	195
12.2.4	Action Files Type.....	196
12.2.5	Upload Manufacture File.....	196
12.2.6	Upload Provision File	197
12.3	DSN View tab	199
12.3.1	Search DSNs	199
12.3.2	View Device Details.....	202
12.3.3	Factory Reset	203
	Glossary	205

1 Introduction

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

NOTE The Ayla Customer Dashboard is in the process of being updated. The functionality remains the same, but there may be some differences in the screen shots of the interface.

1.1 Audience

This document is written for all users of the Ayla Customer 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.

1.2 Related Documentation

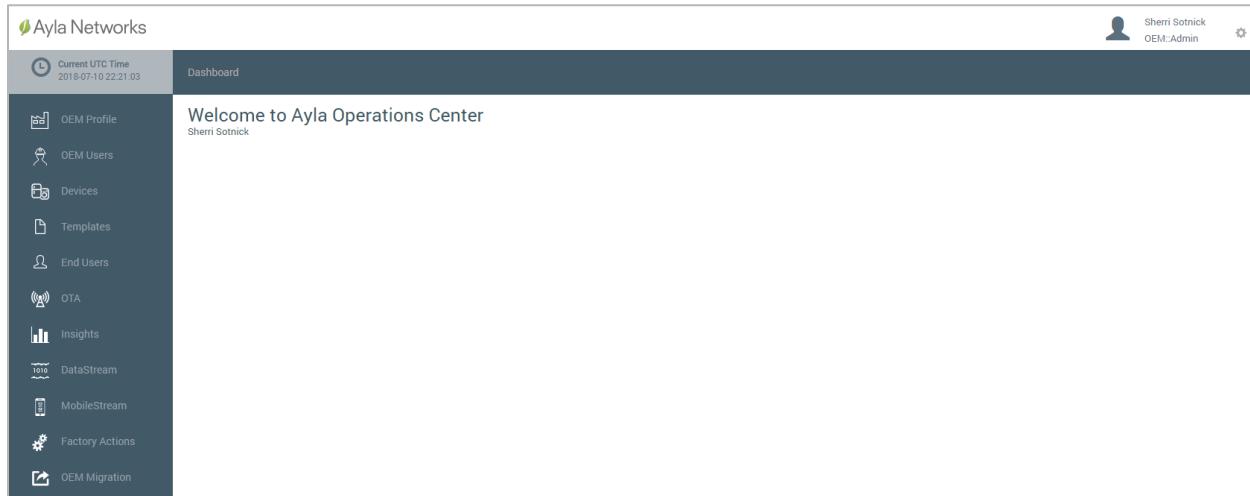
The following documents are referenced in this document; each document has a document name and a number in parenthesis. You can locate these documents at [on help.aylasupport.com](http://help.aylasupport.com) using either the document name or number. If you cannot find a document, contact your Customer Technical Lead or [other Ayla support personnel](#).

- *Ayla Developer Portal User's Guide* (AY006UDP3)
- *Customize Notification Messages* (AY006USE0)
- *OEM Roles and Privileges* (AY006UR3)
- *Cloud Templates User Guide* (AY006UTE3)
- *Host OTA Instructions App Note* (AY006USE4)
- *Ayla Factory Service (AFS) API Specification* (AY006FAFS6)
- *Accessory Information Service Configuration for HomeKit Devices* (AY006UHK6)

2 Overview of the Ayla Customer Dashboard

The Ayla Networks Dashboard is provided to all customers. The dashboard provides a place to view users, devices, templates, and other information for review and updating.

Figure 1 – Ayla Customer Dashboard home page



2.1 Access the Ayla Customer Dashboard

There are several environments available, depending on the region:

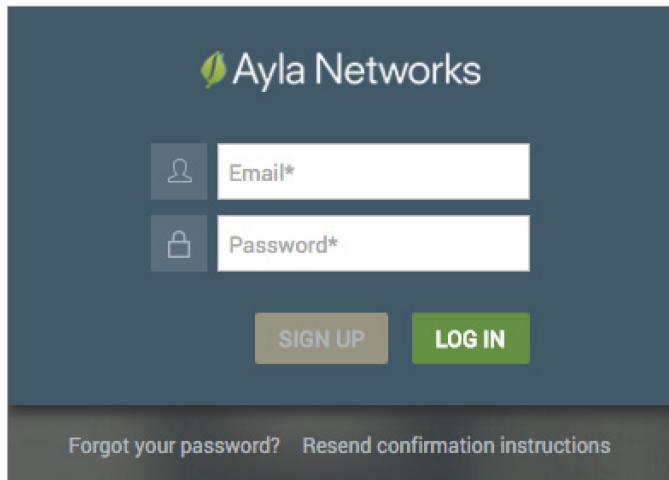
- The development environment is used to create and test device configurations, functions, and features:
 - US & EU: <https://dashboard-dev.aylanetworks.com/>
 - CN: <https://dashboard-dev.ayla.com.cn/>
- The field environment is used to manage devices already in the field:
 - US: <https://dashboard.aylanetworks.com>
 - EU: <https://dashboard-field-eu.aylanetworks.com/>
 - CN: <https://dashboard.ayla.com.cn/>

NOTE If the OEM Admin creates a user in one of the Ayla Customer Dashboard environments (i.e., Field), that user does not have access to the other dashboard environments (i.e., Development).

2.1.1 Log In

1. In the Log In dialog box, enter your email and password credentials.

NOTE Your password must be 8 to 20 characters with one uppercase letter, one lowercase letter, and one number.



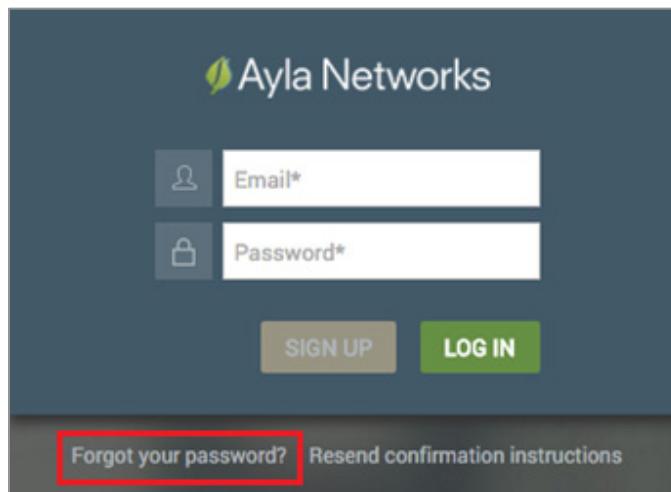
2. Click **LOG IN**, which opens the Ayla Customer Dashboard.

NOTE After five (5) consecutive failed login attempts, the user account is locked on the system for thirty (30) minutes. After 30 minutes, the user account is unlocked and the user can make subsequent attempts (up to 5) and the process is repeated. Alternately, click the "Forgot your password link" to reset the user password.

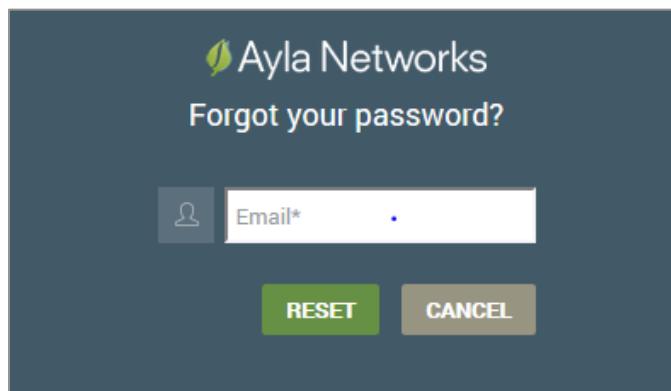
Any attempts (login or password reset) are blocked during the 30-minute period. (This 30-minute time period is not extended, regardless of any attempts during the lockout period.)

2.1.2 Forgot Password

1. In the Log In dialog, click **Forgot your password?**



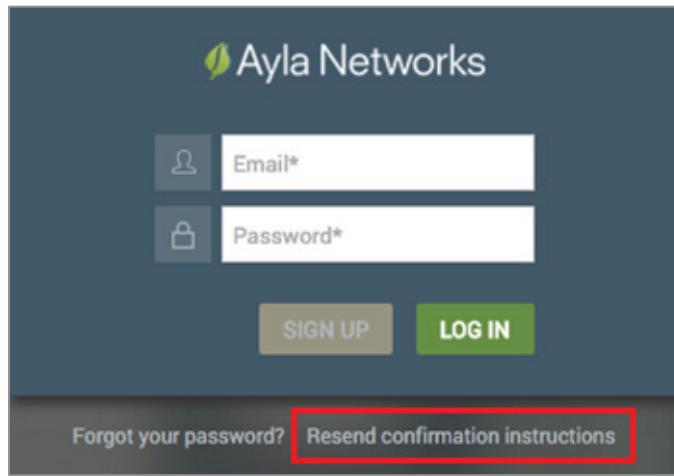
2. On the Forgot your password dialog box, enter your registration email, and then click **RESET**.



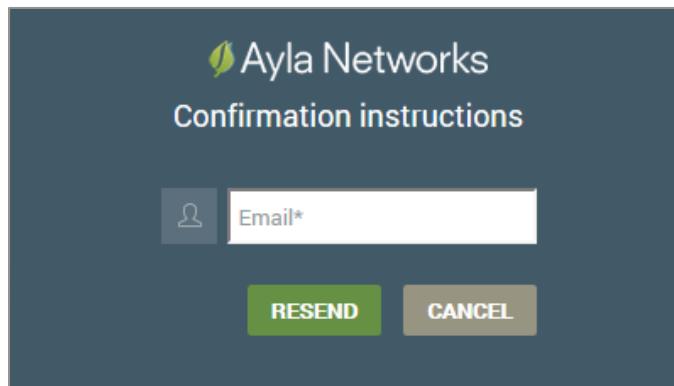
3. Check your email for the new login password.
4. Follow the email instructions.

2.1.3 Recover Credentials

1. In the Log In dialog, click **Resend confirmation instructions**.



2. On the Confirmation instructions dialog box, enter your registration email, and then click **RESEND**.

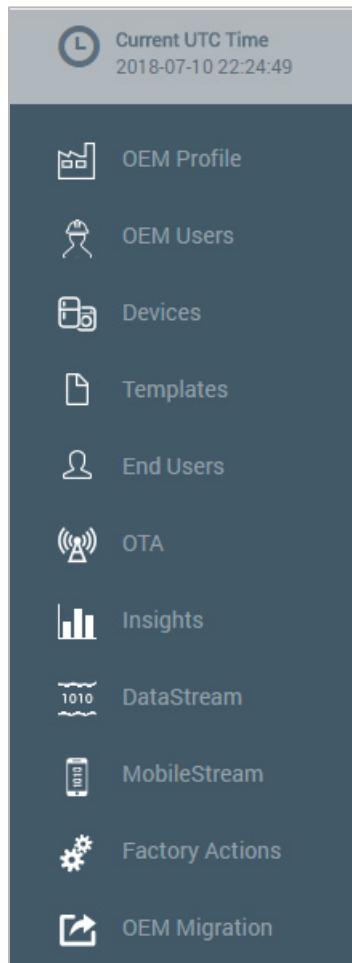


3. When you receive the email, follow the instructions.

2.2 Dashboard Navigation Panel

The Ayla Customer Dashboard has a navigation panel (on the left side) that links to various pages.

Figure 2 - Navigation Panel



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

- **OEM Profile** – shows the OEM page to perform various customer-related actions that are applied to the devices and used within the Ayla Customer Dashboard.
- **OEM Users** – Lists all current users and associated roles. Users can be created, edited, or deleted.
- **Devices** – Lists all devices, individually or in assigned groups. Devices can be created, edited, or deleted.
- **Templates** – Lists all customer templates. Templates can be created from basic configurations, edited, or deleted.
- **End Users** – Lists all end users. List can be searched to find specific users. Users can be created, edited, or deleted.

- **OTA** – Lists available images (Ayla, Host MCU) and OTA Jobs. The list can be searched.
- **Insights** – Various reports that can be sorted, filtered, and edited.
- **DataStream** – Lists of subscriptions. Can be created, edited, and deleted.
- **MobileStream** – Mobile subscriptions (optional feature for customers who have signed up)
- **Factory Actions** – Available factory activities
- **OEM Migration** – *Complete functionality coming soon:* the ability to deploy customer objects from the development to field environment.

NOTE A Glossary is provided at the end of this document. Common terms found in the Ayla Customer Dashboard are defined.

2.3 Default Roles in the Ayla Customer Dashboard

Roles specify the access levels (permissions) a user has to various dashboard views and functions. All users have access to devices registered to their account. The roles and tasks they can perform are outlined below. For more information, see [Ayla Platform User Roles](#).

NOTE OEM Admin in Field Service can only create users with roles in Field Service. Those users cannot access Developer Service. In the same way, the OEM Admin can create users in Developer Service (who do not have access for Field Service). If a user needs access to both Developer and Field Service, the OEM Admin in each service must create that user.

End User

- Access to all user-registered devices

OEM Admin

- Manage users and privileges (create, edit, delete)
- Access to all public and the full scope of templates
- Only an admin can perform Host OTAs
- Access to all customer devices

OEM Developer

- Access to all public and the full scope of templates
- Read and write access to their devices

OEM Module OEM Manufacturer

- Access to Devices tab and Factory Actions
- Access to all factory jobs
- Upload provision file.

OEM Partner (NOT RECOMMENDED)

- Create, update, or delete their devices only

- A dealer can only access information on serviced devices tagged with the dealer label

OEM Software OEM Manufacturer

- Access to Devices tab and Factory Actions
- Reserve DSNs
- Upload provision file

OEM Staff

- View all users and devices, but cannot make changes, read-only access
- Access all public and the full scope of customer templates

End User

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

OEM::SupportEngineer

- Edit end user email
- Resend confirmation instruction
- Unregister a device
- Device reboot
- Update device time zone
- Customer staff access

OEM::SupportManager

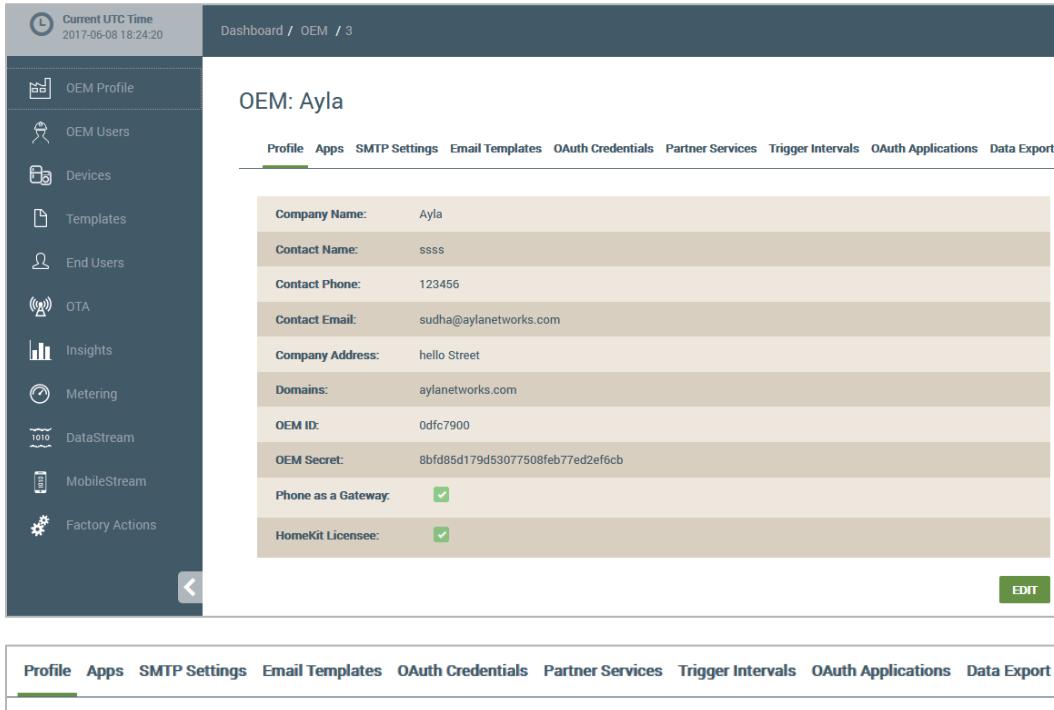
- OTA (single push, create groups/job)
- Delete commands
- Custom Role 1 access

3 OEM Profile

The OEM Profile identifies the company. These settings and configurations are applied to features and functions.

On the Navigation Panel, click **OEM Profile**.

Figure 3 - Ayla Customer Dashboard, OEM Profile page



Company Name:	Ayla
Contact Name:	SSSS
Contact Phone:	123456
Contact Email:	sudha@aylanetworks.com
Company Address:	hello Street
Domains:	aylanetworks.com
OEM ID:	0dfc7900
OEM Secret:	8bfd85d179d53077508feb77ed2ef6cb
Phone as a Gateway:	<input checked="" type="checkbox"/>
HomeKit Licensee:	<input checked="" type="checkbox"/>

EDIT

Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications Data Export

The page has several tabs:

- **Profile** (basic company information)
- **Apps** (available company-configured applications for the customer)
- **SMTP Settings** (one or more SMTP configurations and settings)
- **Email Templates** (available email templates to notify designated recipients)
- **OAuth Credentials** (available OAuth credentials for login)
- **Partner Services** (partner clouds that are associated with the customer)
- **Trigger Intervals** (trigger settings for actions to occur based on intervals)
- **OAuth Applications** (list of configured OAuth applications)
- **Data Export** (view and reset S3 AWS credentials for Ayla Export (retrieves device events))

3.1 Profile Tab

The profile tab shows customer specific information. In the Navigation Panel, click **OEM Profile**, then click the **Profile** tab.

OEM: Ayla Networks Demo

[Profile](#)
[Apps](#)
[SMTP Settings](#)
[Email Templates](#)
[OAuth Credentials](#)
[Partner Services](#)
[Trigger Intervals](#)
[OAuth Applications](#)
[Data Export](#)

Company Name:	Ayla Networks Demo
Contact Name:	John Smitha
Contact Phone:	(408) 830-9844
Contact Email:	john.smith@aylanetworks.com
Company Address:	4250 Burton Dr. Santa Clara, Ca
Domains:	aylanetworks.com
OEM ID:	3f6cf4ac
OEM Secret:	104427f9d2760e023af3f396341d5d09
Phone as a Gateway:	<input type="checkbox"/>
HomeKit Licensee:	<input type="checkbox"/>
Module Manufacturer:	<input type="checkbox"/>
GDPR:	<input type="checkbox"/>

EDIT

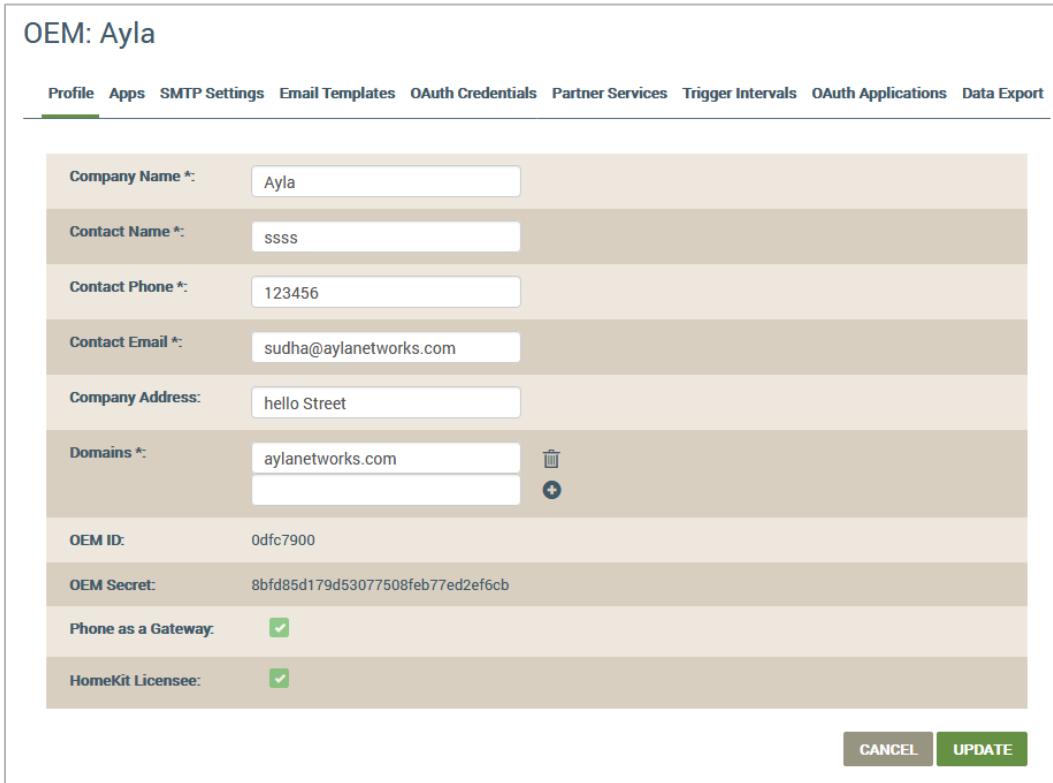
- **Company Name** – the name of the company working with devices
- **Contact Name** – the individual to contact, assigned to Ayla
- **Contact Phone** the customer's company phone number for contact name
- **Contact Email** - email contact for the OEM manager
- **Company Address** - the physical address of the company
- **Domains** – the domain server(s) where the devices are managed
- **OEM ID** – the Ayla-assigned ID for the customer
- **OEM Secret** – the Ayla-assigned key used to validate the customer (based on the Public Key Infrastructure)
- **Phone as a Gateway** checkbox - This is enabled if the customer has Phone as a Gateway (PaaG) capabilities. PaaG enables setup and registration of the device from a mobile application, maintaining a secure communication with the Ayla Cloud.
- **HomeKit Licensee** checkbox - This is enabled if the customer is a HomeKit licensee. HomeKit licensees have devices that include an Ayla Module with HomeKit support.
- **Module Manufacturer** checkbox – This is selected if you are a manufacturing organization with Ayla-enabled, fully managed modules (also referred to as Black Box modules) for use by the Managed-Module Device Manufacturer. When this is enabled, you have the permissions assigned to the [OEM::ModuleManufacturer role](#) in the Ayla Customer Dashboard.
- **GDPR checkbox** - This privacy feature is enabled by default for customers in the European Union (EU) to comply with the EU General Data Protection Regulation (GDPR).

When enabled, the Ayla Customer Dashboard no longer shows any Personal Identifiable Information (PII), and all users (Admin, Staff, Developer, etc.) are not able to view any PII throughout the dashboard without agreeing to the terms specified in the PII notification. Customers in any region (except China) can contact [Ayla Technical Support](#) to have this GDPR feature enabled.

IMPORTANT! If you are a customer in the EU, and this checkbox is not enabled, contact [Ayla Technical Support](#).

3.1.1 Edit Profile

1. On the OEM Profile page, click **Profile** tab.
2. Click **EDIT**. This shows the Edit Profile page.



OEM: Ayla

Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications Data Export

Company Name *: Ayla

Contact Name *: ssss

Contact Phone *: 123456

Contact Email *: sudha@aylanetworks.com

Company Address: hello Street

Domains *: aylanetworks.com - +

OEM ID: 0dfc7900

OEM Secret: 8bfd85d179d53077508feb77ed2ef6cb

Phone as a Gateway:

HomeKit Licensee:

CANCEL **UPDATE**

3. As needed, make changes to:
 - **Company Name** (name of the company)
 - **Contact Name** (name of the contact)
 - **Contact Phone** (phone number)
 - **Contact Email** (email address)
 - **Company Address** (company location)
 - **Domains** (can have several domains):
 - To add additional domains, enter each URL and click the **Plus**  icon to add another.

- To remove a domain, click the **Trash Can**  icon (no confirmation dialog).

NOTE **OEM ID** and **OEM Secret** are provided by Ayla and cannot be changed by the customer.

- **Phone as a Gateway** checkbox
 - Select if the customer is enabled for Phone as a Gateway (PaaG) functionality.
 - Unselect if the customer is not enabled for PaaG.
- **HomeKit Licensee** checkbox
 - Select if the customer is HomeKit licensee.
 - Unselect if this does not apply.

4. When done, click **UPDATE**.
5. A banner message confirms changes are saved: "This item has been updated successfully."

3.2 Apps

The Apps tab page lists all company applications.

On the Navigation Panel, click **OEM Profile**, then click the **Apps** tab.

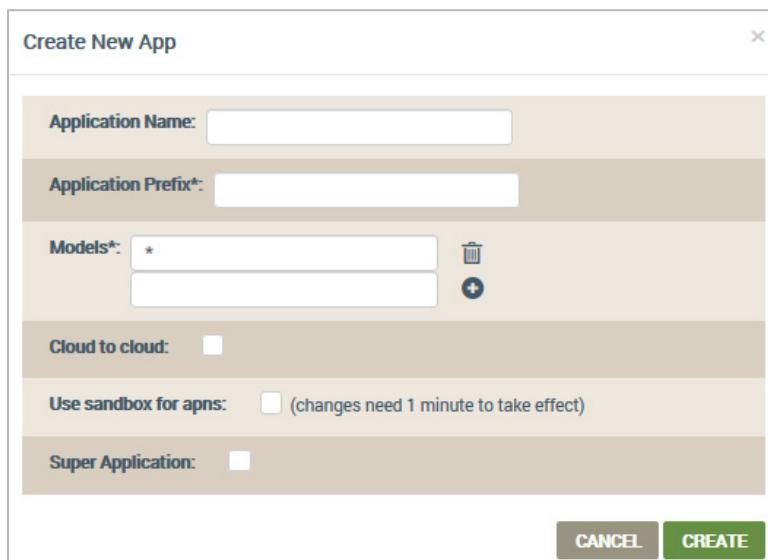
OEM: Ayla				
Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications Data Export				
+ CREATE NEW <input style="width: 150px; border: 1px solid #ccc; border-radius: 5px; padding: 2px 5px; margin-right: 5px;" type="text" value="Search OEM Apps"/>  				
Application Name	Application ID	Oem Models	Application Secret	
1	1mr-id	[*]	1rrr-q-wd38P3YG_-MJz54pvgAkLKOmo	
11	11-id	*	11-Abd2JiexWzn-Uk_FDWodDUikaUQ	
111111	111111-id	[*, "ff"]	111111-V2JvI0h5olc6aTD-L5DdcSLpPxI	
111113	111113-id	sdf, asdfasdf	111113-YPCWaqVia5jVzpoCjTco-EUkyw	
12312312323	123-id	-- -sfsdf - sdf, ddd	123-3390839	
123App2	NewApp1234-id	-- ! -- ! " " - asd - sdd	NewApp1234-7340134	
123g	123456789-id	-- - asdf - sadf	123456789-6766061	
123gg	1234-id	asdf, wasd	1234-3131623	
234App	234App234-id	-- ! " - gtr	234App234-8185392	
456-id	456-id-id	-- - ! " -	456-id-dAQRIADkX25izkF91GPKZOvwN4	

Table column descriptions:

- **Application Name** (name of the application – must be unique)
- **Application ID** (unique ID-assigned to this application)
- **OEM Models** (model numbers of the customer's host application board managed by the application)
- **Application Secret** (Ayla-assigned secret ID for the application)
- **Actions** (actions that can be applied to the row in the table)

3.2.1 Create Application

1. On the **Apps** page, click **CREATE NEW** to open the Create New App dialog box.



The dialog box is titled "Create New App". It contains the following fields:

- Application Name:** A text input field.
- Application Prefix*:** A text input field.
- Models*:** A text input field with a placeholder asterisk (*) and a "Delete" icon (trash can) to its right. Below this field is a "Plus" icon (+) for adding more models.
- Cloud to cloud:** A checkbox.
- Use sandbox for apns:** A checkbox with the note "(changes need 1 minute to take effect)".
- Super Application:** A checkbox.

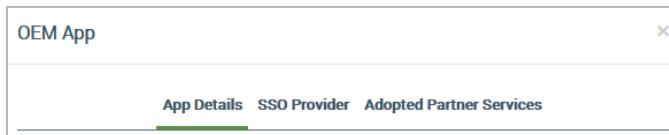
At the bottom right are two buttons: **CANCEL** and **CREATE**.

2. In the dialog box, enter the following details:
 - **Application Name** (name of this application)
 - **Application Prefix** (prefix to apply to the application ID and application secret)
 - **Models** (model number of the Ayla module) Click **Plus** (+) icon to add a model, and **Trash Can** icon to delete a model. Wild cards can be used.
 - **Cloud to cloud** checkbox (not used)
 - **Use sandbox for apns** (Apple Push Notification Service) checkbox
 - Select (to connect to Apple's sandbox environment)
 - Unselect (to not use Apple's production service - when changed, the result requires at least one minute to take effect.)
 - **Super Application** checkbox (not used)
3. When done, click **CREATE**.

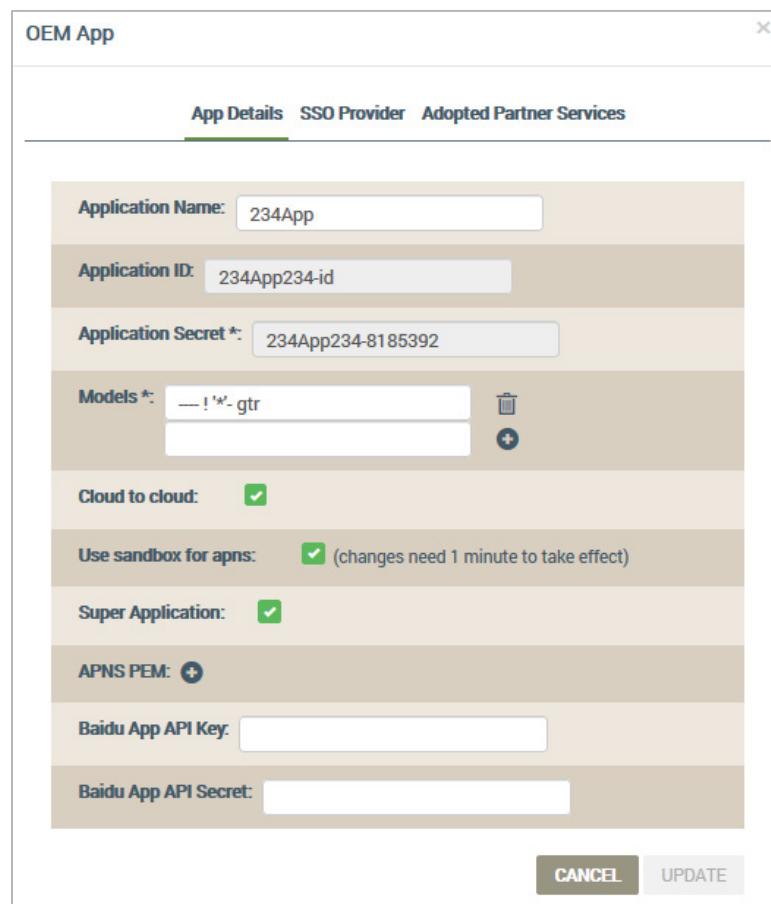
The new app is added to the table listing.

3.2.2 Edit Application

1. On the **Apps** page, click the application to be edited. This shows the OEM App dialog. There are three sub-tabs on the page – **App Details**, **SSO Provider**, and **Adopted Partner Services**.



2. On the App Details sub-tab, click **EDIT**. This shows the App Details sub-tab dialog box.



The dialog box is titled "OEM App" and has three tabs: "App Details" (selected), "SSO Provider", and "Adopted Partner Services".

App Details:

- Application Name: 234App
- Application ID: 234App234-id
- Application Secret *: 234App234-8185392
- Models *: (trash bin icon) (plus icon)
- Cloud to cloud:
- Use sandbox for apns: (changes need 1 minute to take effect)
- Super Application:
- APNS PEM: (button)
- Baidu App API Key:
- Baidu App API Secret:

Buttons at the bottom: CANCEL, UPDATE

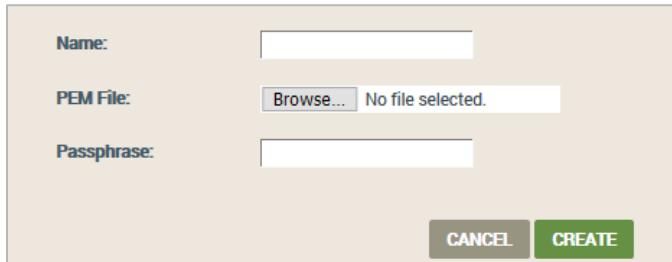
- **Application Name** (name of application)
- **Application ID & Application Secret** (cannot be edited)
- **Models** (edit, add, or remove Ayla device reference models as needed. Wild cards can be used.)
- **Cloud to cloud** checkbox (not used)
- **Use sandbox for apns** (Apple Push Notification Service) checkbox:
Select (to connect to Apple's sandbox environment)

Unselect (to not use Apple's production service - when this is changed, the result will require at least one minute to take effect.)

- **Super Application** checkbox (not used)
- **APNS PEM** (Apple Push Notification Service) (Privacy Enhanced Mail)

If no content in field:

Click **Plus**  icon to display details:



The dialog box contains the following fields:

- Name:**
- PEM File:** No file selected.
- Passphrase:**

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

In this dialog box:

1. Enter a name for your APNS in **Name**.
2. Click **Browse**, and select the **PEM File**.
3. Enter **Passphrase**, then click **CREATE**.

If content is in the field:

Click **Trash Can**  icon to delete

Click **Download**  icon to download file.

- **Baidu App API Key** (China only)
- **Baidu App API Secret** (China only)
- Click **UPDATE**.

3. On the SSO Provider sub-tab dialog box, review the details.

OEM App

App Details SSO Provider Adopted Partner Services

Provider App ID:	test	
Provider App Secret:	test_sso	
Token Validation URL:	http://shshsh.com	
User Profile URL:	http://ssksk.com	
Scope :	scop	
Salt :	salt	
Context Params		
Name	Value	
asdf	asdf	
test	2	
value	true	
4	test	
		

CLOSE EDIT DELETE

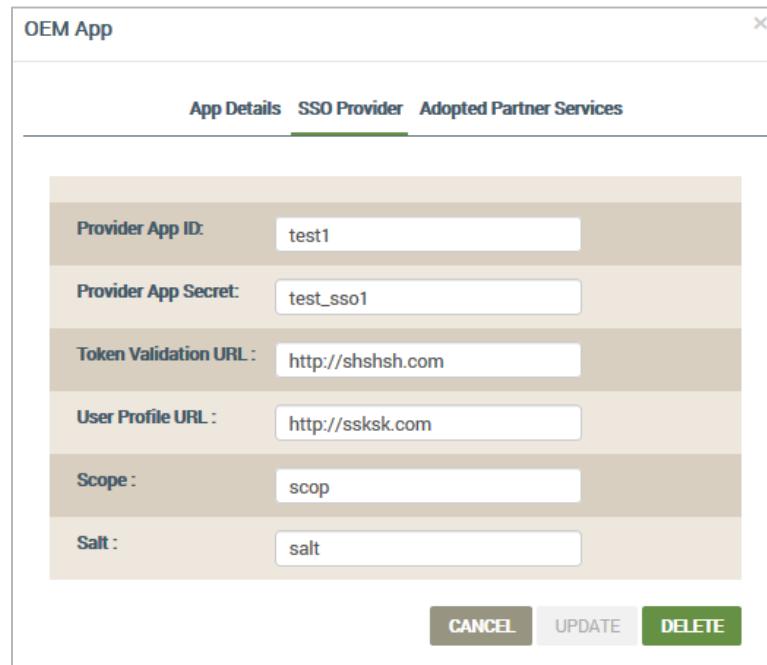
- To delete details on the SSO Provider tab
 1. click **DELETE**.
 2. In the Confirmation dialog box, click **ACCEPT**.

Confirmation

This action can cause application to stop working. Do you want to continue?

CANCEL ACCEPT

- To edit details on the SSO Provider tab, click **EDIT**.



Provider App ID: test1

Provider App Secret: test_sso1

Token Validation URL: http://shshsh.com

User Profile URL: http://ssksk.com

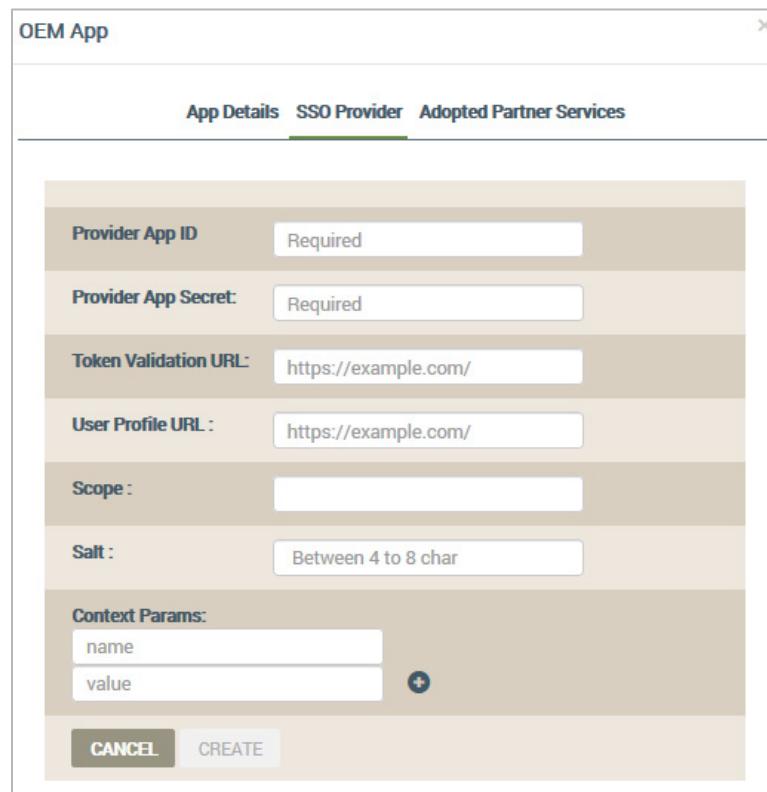
Scope: scop

Salt: salt

UPDATE

Make changes, as needed, and then click **UPDATE**.

For a new SSO Provider (not previously entered for this app), enter the details:



Provider App ID: Required

Provider App Secret: Required

Token Validation URL: https://example.com/

User Profile URL: https://example.com/

Scope:

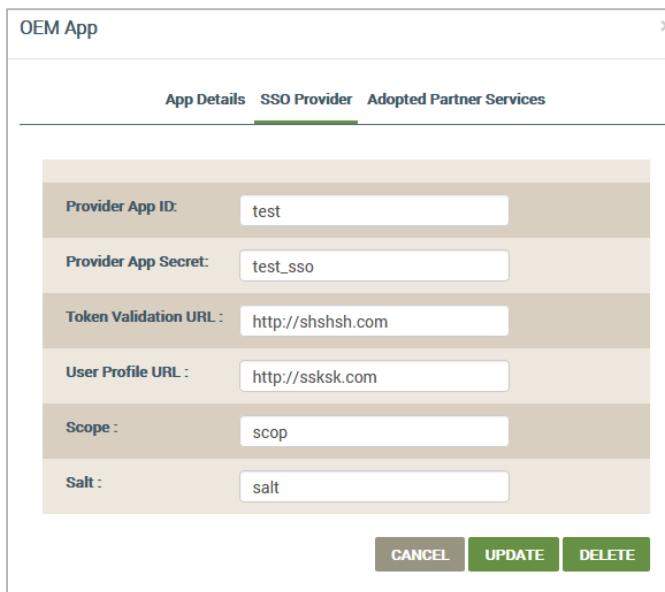
Salt: Between 4 to 8 char

CREATE

- **Provider App ID** (same as used for auth on Provider side)

- **Provider App Secret** (same as used for auth on Provider side)
- **Token Validation URL** (URL used by Ayla Cloud to validate user tokens)
- **User Profile URL** (used by Ayla Cloud to obtain user profiles)
- **Scope** (how is the property used - user, customer - same as used to calculate auth on Provider side)
- **Salt** (same as used to calculate auth on Provider side)
- **Context Params** (click **Plus**  icon to add another name-value pair)
- Click **CREATE**.

On SSO Provider sub-tab (for an existing SSO Provider), click **EDIT** to edit details:



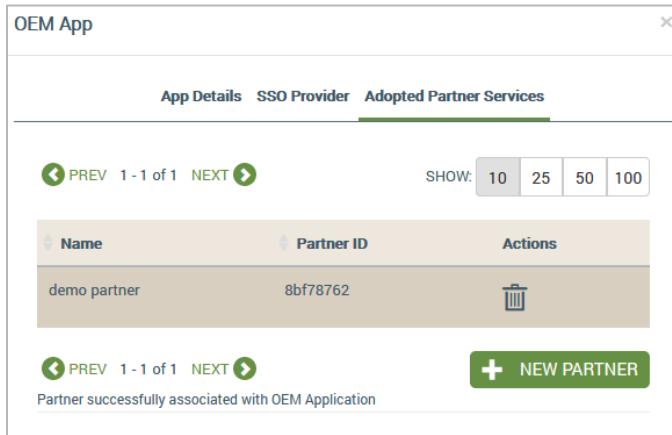
The dialog box is titled 'OEM App' and has tabs for 'App Details', 'SSO Provider' (which is selected), and 'Adopted Partner Services'. The 'SSO Provider' tab contains the following fields:

Provider App ID:	test
Provider App Secret:	test_sso
Token Validation URL:	http://shshsh.com
User Profile URL:	http://ssksk.com
Scope:	scop
Salt:	salt

At the bottom are three buttons: CANCEL, UPDATE (highlighted in green), and DELETE.

- **Provider App ID** (same as used for auth on Provider side)
- **Provider App Secret** (same as used for auth on Provider side)
- **Token Validation URL** (URL used by Ayla Cloud to validate user tokens)
- **User Profile URL** (used by Ayla Cloud to obtain user profiles)
- **Scope** (how is the property used - user, customer - same as used to calculate auth on Provider side)
- **Salt** (same functionality as that used to calculate auth on the Provider side)
- Click **UPDATE**.

4. On the Adopted Partner Services sub-tab dialog box:



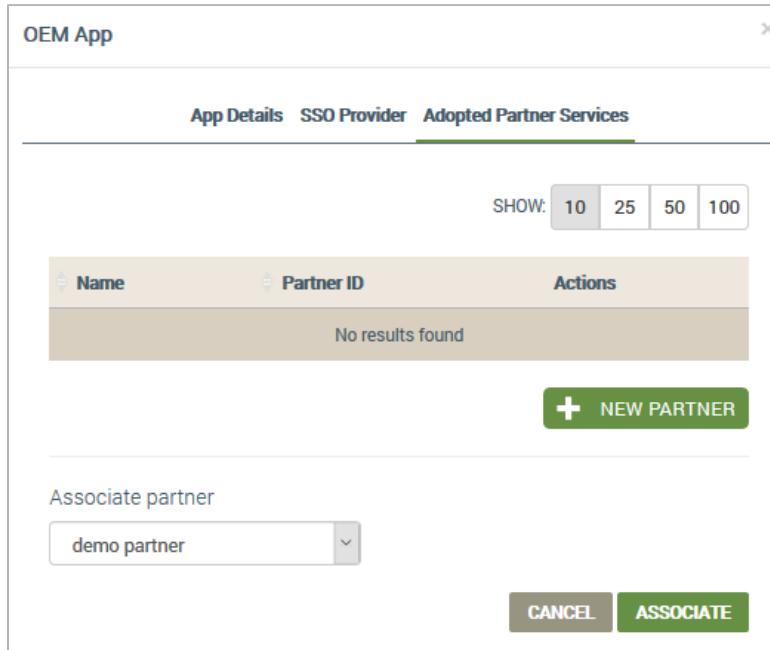
Name	Partner ID	Actions
demo partner	8bf78762	

Table columns:

- o **Name** (name of the Partner)
- o **Partner ID** (Ayla-assigned ID of the Partner)
- o **Actions** (Trash Can to delete the Partner)

To add a partner

- a. Click **NEW PARTNER**.



Name	Partner ID	Actions
No results found		

Associate partner

demo partner

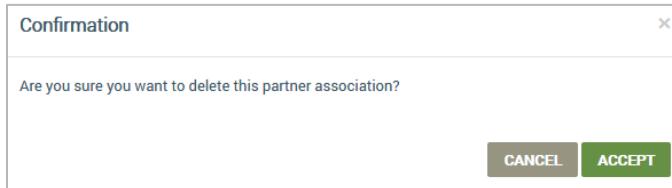
CANCEL **ASSOCIATE**

- b. On the Associate partner drop-down, select one.

- c. Click **ASSOCIATE** to add the selection to the table listing.

To delete a partner:

- a. In the table listing, on the partner to delete, click the **Trash Can**.
- b. In the Confirmation dialog box, click **ACCEPT** to remove the partner from the table listing.

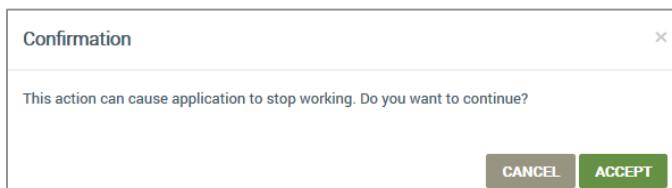


3.2.3 Delete Application

1. On the **Apps** tab table listing, locate the app to be deleted.
2. On the right side of the page, click the **Trash Can**  icon.

Application Name	Application ID	Oem Models	Application Secret
1	1rrr-id	[**]	1rrr-q-wd38P3YG-_MJz54pvgAkkLOmo 
11	11-id	*	11-Abd2JiexWzn-Uk_FDWodDUikaUQ 

3. On the Confirmation dialog box, click **ACCEPT**.



3.3 SMTP Settings

SMTP settings are configured for a proper connection with your SMTP server provider. This ensures a correct delivery of your emails.

On the Navigation Panel, click **OEM Profile**, then click the **SMTP Settings** tab.

OEM: Ayla Networks Demo

Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications Data Export

Manage SMTP Configurations

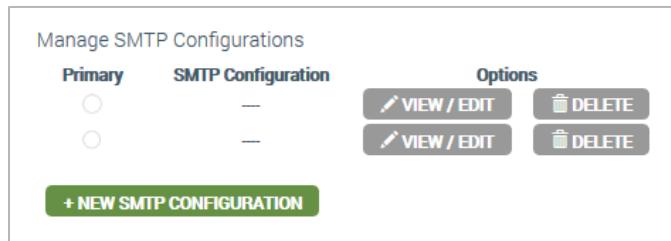
Primary	SMTP Configuration	Options
<input type="radio"/>	—	 VIEW / EDIT  DELETE
<input type="radio"/>	—	 VIEW / EDIT  DELETE

+ NEW SMTP CONFIGURATION

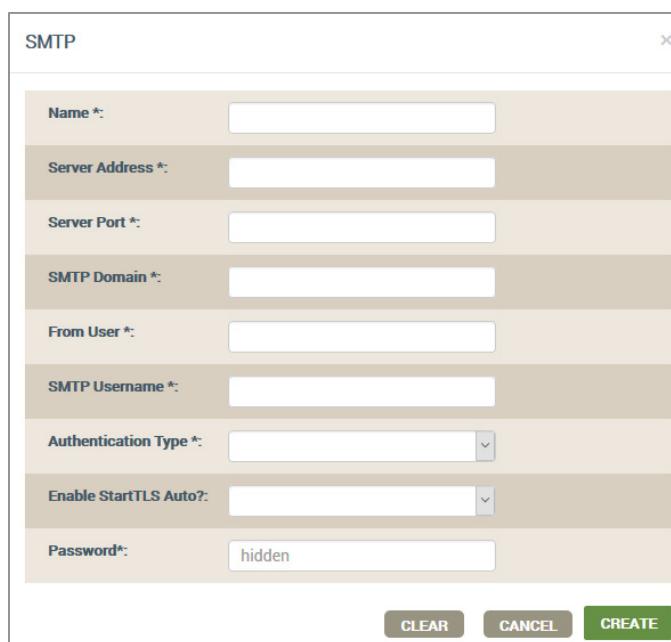
NOTE An SMTP configuration is required. The OEM Admin must create an SMTP configuration with the customer's SMTP settings. If needed, contact to your Ayla Customer Success Manager for an Ayla-managed SMTP configuration.

3.3.1 Create SMTP Settings

1. On the **SMTP Settings** tab, click **NEW SMTP CONFIGURATION** to open the SMTP dialog box. (If this option is not available, the button is grayed out.)



2. On the SMTP dialog box, enter details:



- **Name** (name for this SMTP configuration)
- **Server Address** (SMTP server IP address)
- **Server Port** (SMTP server port)
- **SMTP Domain** (SMTP server domain address)
- **From User** (email address of the message)
- **SMTP Username** (name of SMTP user)
- **Authentication Type** drop-down (type of authentication)
 - Plain
 - Login (login required for authentication)
 - crm_md5
- **Enable Start TLS Auto** drop-down

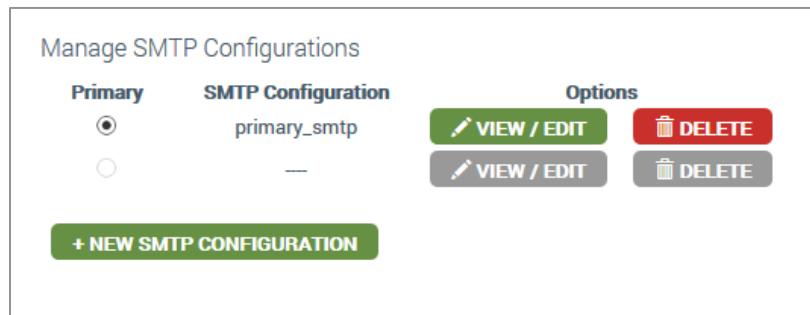
True (applies TLS security automatically to SMTP messages)

False (use your own security)

- **Password** (password to access SMTP configuration)
3. Click **CREATE**.

3.3.2 View/Edit SMTP Settings

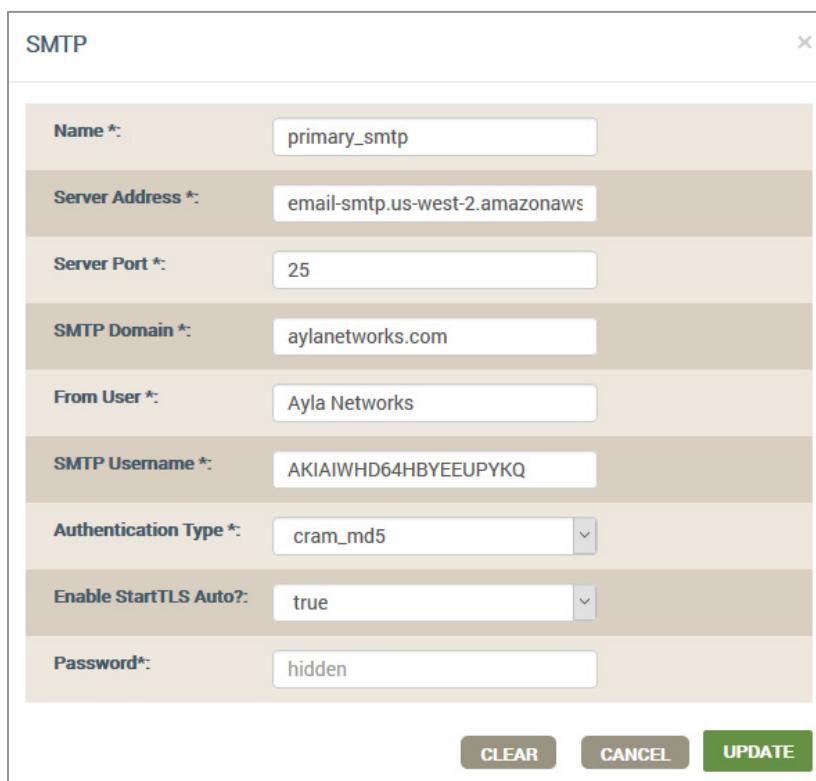
1. In the **Options** section, click **VIEW / EDIT**.



Manage SMTP Configurations		
Primary	SMTP Configuration	Options
<input checked="" type="radio"/>	primary_smtp	<input style="background-color: #2e7131; color: white; border: none; padding: 5px; border-radius: 5px; width: 150px; height: 30px; font-weight: bold; font-size: 10px; margin-right: 10px;" type="button" value="VIEW / EDIT"/> <input style="background-color: #e74c3c; color: white; border: none; padding: 5px; border-radius: 5px; width: 150px; height: 30px; font-weight: bold; font-size: 10px;" type="button" value="DELETE"/>
<input type="radio"/>	—	<input style="background-color: #2e7131; color: white; border: none; padding: 5px; border-radius: 5px; width: 150px; height: 30px; font-weight: bold; font-size: 10px; margin-right: 10px;" type="button" value="VIEW / EDIT"/> <input style="background-color: #e74c3c; color: white; border: none; padding: 5px; border-radius: 5px; width: 150px; height: 30px; font-weight: bold; font-size: 10px;" type="button" value="DELETE"/>

+ NEW SMTP CONFIGURATION

2. On the SMTP dialog box, review the SMTP settings.
3. To change any details, click **EDIT**. This shows the Edit SMTP dialog box.

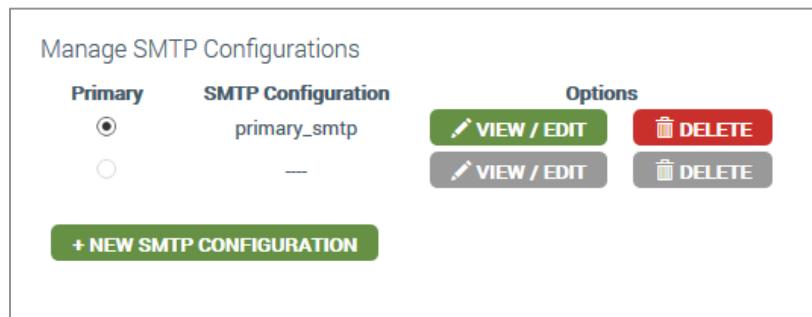


SMTP	
Name *	primary_smtp
Server Address *	email-smtp.us-west-2.amazonaws
Server Port *	25
SMTP Domain *	aylanetworks.com
From User *	Ayla Networks
SMTP Username *	AKIAIWHD64HBYEEUPYKQ
Authentication Type *	cram_md5
Enable StartTLS Auto?	true
Password*	hidden

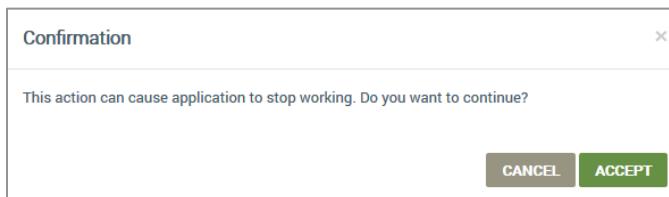
4. Make changes as needed.
5. Click **UPDATE**.

3.3.3 Delete SMTP Settings

1. In the Options section, select the SMTP to delete, and click **DELETE**.



2. On the Confirmation dialog box, click **ACCEPT**.



3.4 Email Templates

Email templates are pre-generated responses that can be used in alerts to notify users of an action or event. Customers can customize end-user emails sent to end-users by the Ayla Cloud on behalf of the customer.

The customer can design an HTML email template that incorporates any logos or messages to be shown to the end user. When content is dynamic, the templates contain placeholder strings. These placeholder strings are substituted by the Ayla Cloud when the actual email is constructed.

Each email template has a unique template ID. This ID is used in the web or mobile app as an API parameter. The Ayla Cloud looks up the appropriate template ID.

When an email is to be sent, the Ayla Cloud looks for the template based on the specified template id, and uses that template to build an email body, after performing all the substitutions.

Email templates are uploaded as a zip file containing the template HTML and related image files, such as, logos, and mobile app icons.

Currently, individual email templates are needed for these services:

- Property triggers (when trigger condition is set to True, send an alert)
- User confirmation on signup (or re-confirmation of original email request)
- User password reset instructions
- Device sharing

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

On the Navigation Panel, click **OEM Profile**, then click the **Email Templates** tab.

OEM: Ayla Networks Demo

Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications Data Export

+ ADD NEW
⬇ DOWNLOAD SAMPLE
🔍 Search OEM Templates

SHOW: 10 25 50 100

Template ID	Name	Description	File Size	Actions
ayla_confirmation_template1	ayla_confirmation_template1	ayla_confirmation_template1	0	⬆ ⬇ trash
ayla_trigger_app_template_02	ayla_trigger_app_template_02	ayla_trigger_app_template_02	0	⬆ ⬇ trash
ayla_passwd_reset_template_01	ayla_passwd_reset_template_01	ayla_passwd_reset_template_01	0	⬆ ⬇ trash
test	test	test	0	⬆ ⬇ trash

⬅ PREV 1 - 4 of 4 NEXT ➡
+ ADD NEW
⬇ DOWNLOAD SAMPLE

Table column descriptions:

- **Template ID** (unique ID assigned to the template)
- **Name** (user-assigned name of the template)
- **Description** (information about the template)
- **File Size** (size in bytes of the template file)
- **Actions** (user-actions to be applied to the template)
 - **Upload** (upload a replacement template file)
 - **Download** (download the template file)
 - **Trash Can** (delete the template with confirmation)

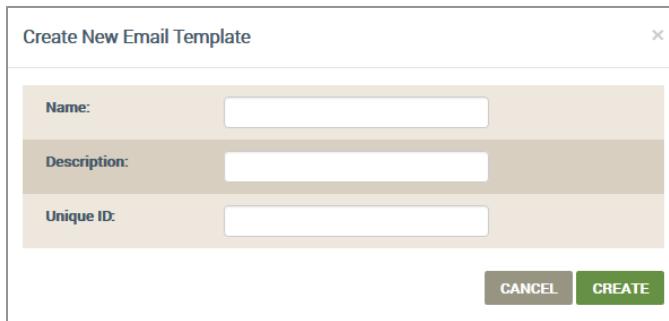
© 2018 Ayla Networks, Inc.
AY006UDB3-6.0/19-Dec-2018

Proprietary

24

3.4.1 Add New Email Template

1. On the Email Templates tab page, click **ADD NEW**. This shows the Create New Email Template dialog box.



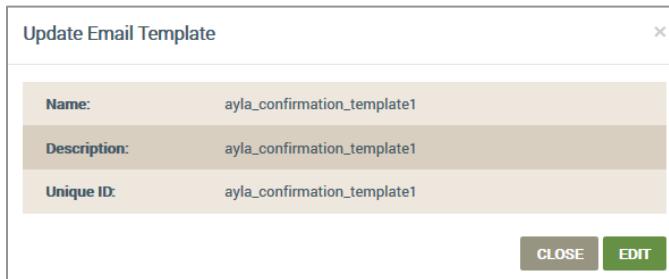
The dialog box is titled "Create New Email Template". It contains three input fields: "Name" (empty), "Description" (empty), and "Unique ID" (empty). At the bottom are "CANCEL" and "CREATE" buttons.

2. Enter template information:
 - **Name** (name for the email template)
 - **Description** (clear description about the email template)
 - **Unique ID** (Ayla-assigned template ID - unique identification for the email template)
3. Click **CREATE**.

NOTE There is a delay after a new template is created. Allow 10 minutes before using the new email template.

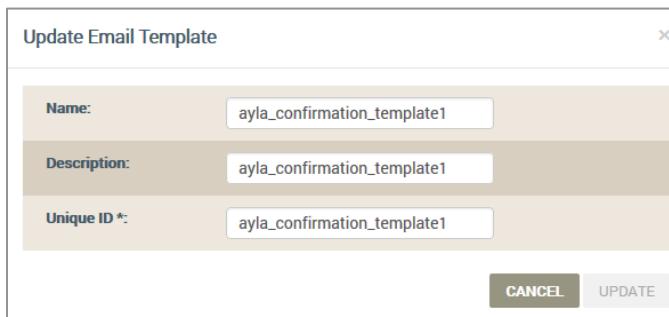
3.4.2 View/Edit Template

1. To view template details, in the table listing, click the template. This shows the Update Email Template dialog box.



The dialog box is titled "Update Email Template". It shows template details: Name: ayla_confirmation_template1, Description: ayla_confirmation_template1, Unique ID: ayla_confirmation_template1. At the bottom are "CLOSE" and "EDIT" buttons.

2. To edit the template details, click **EDIT**.



The dialog box is titled "Update Email Template". It shows template details: Name: ayla_confirmation_template1, Description: ayla_confirmation_template1, Unique ID *: ayla_confirmation_template1. At the bottom are "CANCEL" and "UPDATE" buttons.

3. Edit the details, as needed.
4. Click **UPDATE**.

Rules and recommendations for editing the email template

- No scripts are allowed as part of the HTML.
- Use tags to specify how and where situational data is inserted when an email is composed on the Ayla Cloud.
- For substitution, the following tags are supported:
 - `[[logo_image]]` (The customer's logo)
 - `[[ios_app_link_image]]` (Image to be displayed as part of the iPad/iPhone app link)
 - `[[android_app_link_image]]` (Image to be displayed as part of the Android app link)
 - `[[property_name]]` (Name of the property)
 - `[[property_value]]` (Value of the property that triggered the alert)
 - `[[property_update_time]]` (Time at which the property reached the value that triggered the alert)
 - `[[device_product_name]]` (Name of the device)
 - `[[device_dsn]]` (Device serial number)
 - `[[user_name]]` (Username that can be used in the greeting, as specified during trigger app creation)
 - `[[user_message]]` (User message defined during trigger app creation)
 - `[[trigger_app_email_body]]` (Placeholder for the body part of a trigger email alert)
 - `[[user_confirmation_token]]` (Confirmation token generated by the Ayla Cloud to confirm the user)
 - `[[user_password_reset_token]]` (Password reset token generated by the Ayla Cloud)
- The above tags can be categorized based on where their substitutions come from.
 - Tags for which data comes from the uploaded template:
 - `[[logo_image]]`
 - `[[ios_app_link_image]]`
 - `[[android_app_link_image]]`
 - Tags for which data comes from the Ayla Cloud:

Trigger App related tags:

 - `[[property_name]]`
 - `[[property_value]]`
 - `[[property_update_time]]`
 - `[[device_product_name]]`
 - `[[device_dsn]]`
 - `[[user_message]]`
 - `[[user_name]]`

- `[[trigger_app_email_body]]` (High level tag to indicate that the html+tags come from the trigger_app at actual time the trigger fires.)

User signup confirmation related tags:

- `[[user_confirmation_token]]`
- `[[user_name]]`

User password reset related tags:

- `[[user_password_reset_token]]`
- `[[user_name]]`

- Double bracketing format `[[xxxx]]` is important for proper substitutions.
- Samples for various templates can be downloaded from the Email Templates page on the Dashboard.

A template for a trigger alert email may display similar details:

- `file://localhost/Users/<registered user name>/<download directory>/ayla_custom_email_samples>/trigger_app/template.html`
- logo image
- `[[trigger_app_email_body]]`
- open your app here
 - `iOS_app_link_image`
 - `Android_app_link_image`

3.4.3 Upload Template

1. In the table listing of templates, click the **Upload Template** icon.



2. On the File Upload dialog, locate the file and click **Open**.

NOTE File name must be **template.html** - graphic files must be **'*.gif/png/jpg'**.

3.4.4 Download Template

The sample template provides you with the basic contents of an email template. To get the sample, click **DOWNLOAD SAMPLE**.

The zipped file contains folders that include several example emails. These can be reviewed and used to determine what changes are needed for each email template needed. HTML files can be edited in any text or HTML editor. Contents of each folder include a basic example. Folders included are:

- `example`
- `password_reset`
- `resource_share`

- signup_confirmation
- trigger_app

Sample html and images are provided. Make sure to maintain the formatting styles and image names.

When all changes are complete, the zipped file can be uploaded to the specific template that the changed details will be applied.

After the sample template has been replaced with the customer-specific templates, these templates can be downloaded and edited as needed. Individual items can be changed as needed (text and images). Make sure to maintain the formatting styles and image names. When all changes are complete, the zipped file can be uploaded.

To edit the email template of an existing template:

1. In the table listing of templates, click the **Download Template** icon.



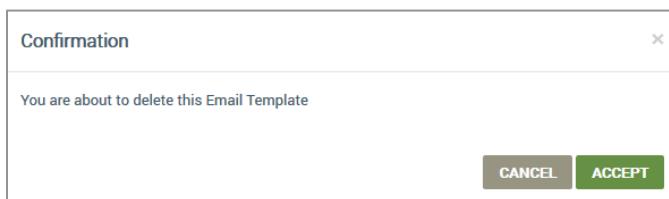
2. The file will download. Locate the file and move it to the preferred file location for viewing/editing.

3.4.5 Delete Template

1. In the table listing of templates, locate the template and click the **Trash Can** icon.



2. On the Confirmation dialog box, click **ACCEPT**.



3.5 OAuth Credentials

On the OAuth Credential window, you can review or create OAuth credentials for client applications.

On the OAuth Credentials tab:



Provider	Client ID	Client Secret	Actions
facebook	123	456	
google	123	7171	
wechat	2q134	asdfasdf	

Table column description:

- **Provider** (name of the OAuth provider, provided by the customer)
- **Client ID** (OAuth credentials supplied by the customer)
- **Client Secret** (OAuth credentials provided by the customer)
- **Actions** (actions allowed based on OAuth credentials)

3.5.1 Create OAuth Credentials

1. On the OEM Profile, OAuth Credentials page, click **CREATE**. This shows the Create New External OAuth dialog box.



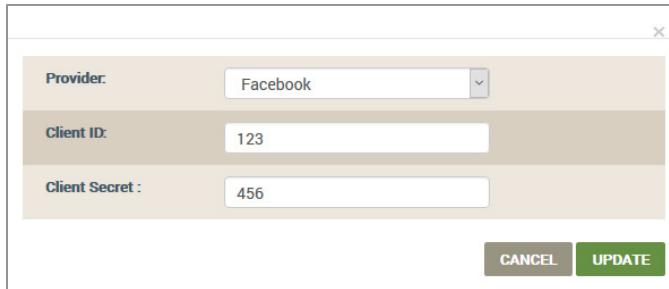
2. Enter details:

- **Provider** drop down (select one):
 - Wechat (only supported in China field service)
 - Google
 - Facebook
- **Client ID** (user-assigned name of the client)
- **Secret** (user-assigned secret code for OAuth)

3. Click **CREATE**.

3.5.2 View/Edit OAuth Credentials

1. In the table listing, click the Provider. This display the dialog box.



2. Review details on the dialog box.
3. If needed, make changes to details.
4. Click **UPDATE**.

3.5.3 Delete OAuth Credentials

1. In the table listing, click the **Trash Can** icon.
2. In the Confirmation dialog box, click **ACCEPT**.



3.6 Partner Services

This table lists partners that are working with the customer. To add a partner to this list, contact Ayla Support. Partner details cannot be edited by the customer. (This information is only available on the Ayla Developer Portal.)

OEM: Ayla	
Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications Data Export	
PREV 1 - 2 of 2 NEXT	SHOW: 10 25 50 100
Name	Partner ID
demo partner	8bf78762
mobile team test partner	2563f85d
PREV 1 - 2 of 2 NEXT	

Table column description:

- **Name** (name of the partner)
- **Partner ID** (Ayla-assigned ID of the partner)

3.7 Trigger Intervals

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

On the **Trigger Intervals** tab:

OEM: Ayla Networks Demo	
Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications Data Export	
Trigger Intervals:	In Seconds
Email:	30
Sms:	30
Forward:	0
iOS Push:	30
Android Push:	30
Baidu Push:	30
EDIT	

Table column description:

- **Trigger Intervals** (type of trigger action)
 - Email
 - Sms
 - Forward
 - iOS Push
 - Android Push
 - Baidu Push
- **In Seconds** (time before trigger is activated)

3.7.1 Edit Trigger Levels

1. On the Trigger Intervals page, click **EDIT**.

OEM: Ayla Networks Demo

Trigger Intervals *:	In Seconds
Email *:	<input type="text" value="30"/>
Sms *:	<input type="text" value="30"/>
Forward *:	<input type="text" value="0"/>
iOS Push *:	<input type="text" value="30"/>
Android Push *:	<input type="text" value="30"/>
Baidu Push *:	<input type="text" value="30"/>

CANCEL
UPDATE

2. As needed, change the time (in seconds) responses for:

- **Email**
- **Sms**
- **Forward**
- **iOS Push**
- **Android Push**
- **Baidu Push**

3. Click **UPDATE**.

3.8 OAuth Application

The OAuth Application window lists authorized applications.

On the Navigation Panel, click **OEM Profile**, then click the **OAuth Applications** tab.

OEM: Ayla Networks Demo

Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals
OAuth Applications
Data Export

+ NEW OAUTH APP
Search OEM Oauth Applications

PREV 1 - 3 of 3 NEXT
SHOW: 10 25 50 100

Application Name	Redirect URI	Actions
Ayla Demo Sample	https://pitangui.amazon.com/api/skill/link/M3C7LTCSPFTJOY	
Ayla Demo Skill	https://pitangui.amazon.com/api/skill/link/M1UZB1YRIP4EAS	
New Test Oauth	https://www.newoauth.com	

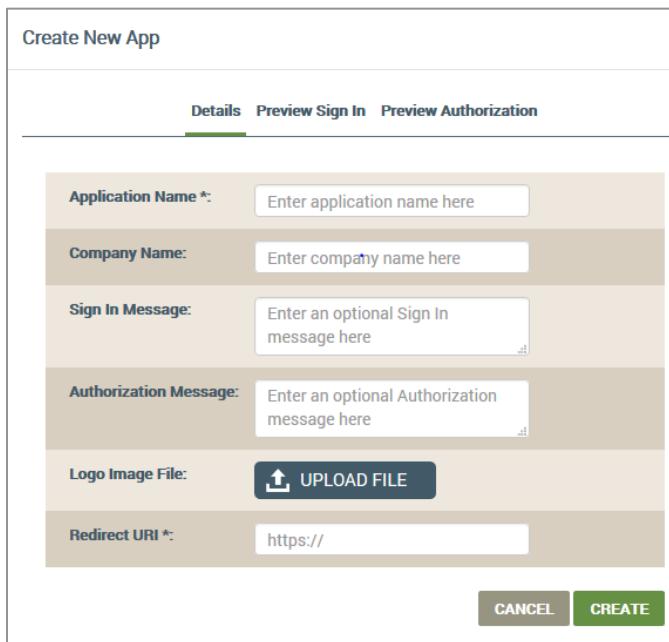
PREV 1 - 3 of 3 NEXT
+ NEW OAUTH APP

Table column description:

- **Application Name** (name of the OAuth application)
- **Redirect URI** (where the Cloud directs the user when the OAuth is redirected)
- **Actions** (user-actions available for this application)
 - **Edit** (click to edit application details)
 - **Trash Can** (click to delete application)

3.8.1 Create New OAuth Application

1. Click **NEW OAUTH APP**. This shows the Create New App, Details dialog box.



The screenshot shows the 'Create New App' dialog box with the 'Details' tab selected. The form fields are as follows:

- Application Name ***: Enter application name here
- Company Name**: Enter company name here
- Sign In Message**: Enter an optional Sign In message here
- Authorization Message**: Enter an optional Authorization message here
- Logo Image File**: An input field with a blue 'UPLOAD FILE' button.
- Redirect URI ***: https://

At the bottom are 'CANCEL' and 'CREATE' buttons.

2. On **Details** tab, enter:

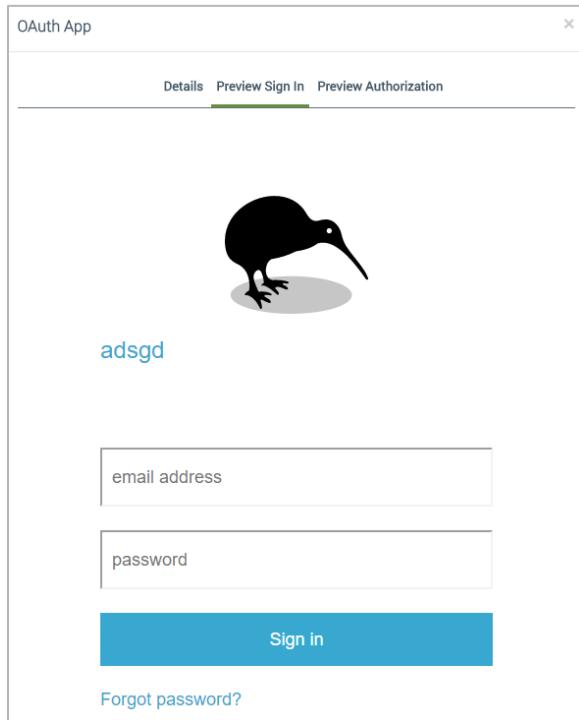
- **Application Name** (name of the OAuth application)
- **Company Name** (company name)
- **Sign In Message** (optional) (custom text to appear on Sign-in page.)
- **Authorization Message** (optional) (custom text to appear on the Authorization page)
- **Logo Image File** (logo of the OAuth application)- click **UPLOAD FILE** to locate and select an image

On the File Upload dialog, locate and select the image file, then click **Open**.

- **Redirect URI** (the URL - copied from the company's developer console - to link the new OAuth application with company account for which this application is created.)
For example, for Amazon Alexa OAuth application, use the Amazon Redirect URL copied from the Amazon Developer Console.
- Click **CREATE**.

NOTE On successful creation of the new OAuth application, an Application ID and Application Secret is assigned to the app.

3. Click the Preview Sign In tab to review your settings from the Details tab. The figure below shows the sign-in message entered on the Details tab.



- **email address**

When prompted in the company's console (linked to the Ayla Customer Dashboard account), enter the same email address as your log-in credentials to the Ayla Customer Dashboard.

- **Password**

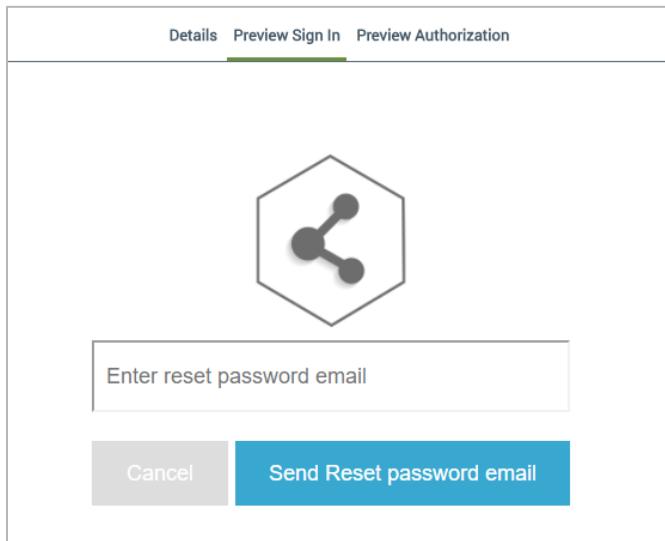
When prompted in the company's console (which is linked to the Ayla Customer Dashboard account), enter the same password as your log-in credentials for the Ayla Customer Dashboard.

- **Sign In**

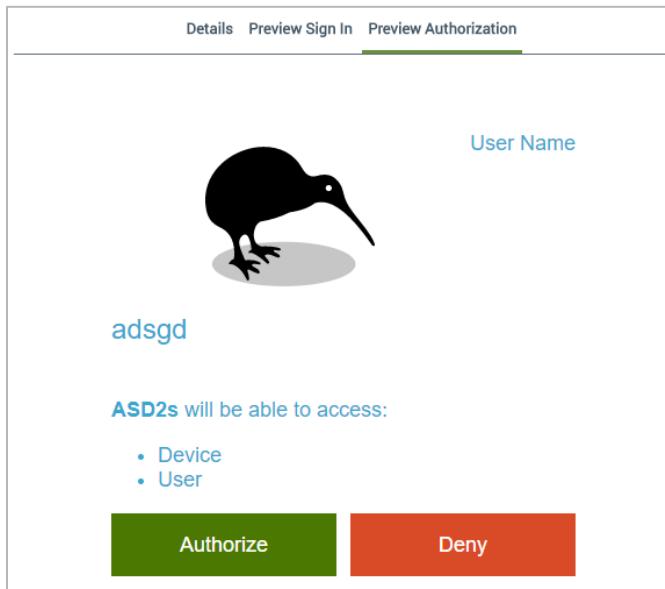
Click when prompted in the company's console (linked to the Ayla Customer Dashboard account), such as Amazon for Alexa.

- **Forgot password?**

Enter the "reset password" email and click **Send Reset Passwrod email**. An email with the reset password process is sent.



4. Click the Preview Authorization tab to review your settings from the Details tab.



- **Authorize**

Click to enable the process to link your Ayla Customer Dashboard account to the third-party application (e.g., feature, property, etc.) for which you created the OAuth application.

- **Deny**

Click to deny access to your Ayla Customer Dashboard account.

5. On **Details** tab, click **CREATE**.

6. On successful creation, the Application ID and Application Secret is assigned to the app. To view, click the app in the table.

NOTE Preview Sign In and Preview Authorization are inactive at this time.

3.8.2 View OAuth Application

1. In the table listing, click the application.

OAuth App

Details Preview Sign In Preview Authorization

Application Name *	ASD2s
Company Name:	adsgd
Sign In Message:	
Authorization Message:	
Logo Image File:	
Redirect URI *:	https://pitangui.amazon.com/api/skill/link/M1RV3XG1XI5JPF
Application ID:	08421637b0b9e0533ad95d31b9798af90972fae94b5eb1fff5a46d2b2a419fe7
Application Secret:	86d97a37c275ceed15b32e6e0eef143cdb999b33c636c139729da35e2de71a91

CLOSE **EDIT**

2. Review the details.
3. If no further action, click **CLOSE**.

3.8.3 Edit OAuth Application

1. There are two options to access the OAuth dialog box.

On the OAuth Application table listing, locate the OAuth application and click the **Edit** icon to display the Edit dialog box.

Application Name	Redirect URI	Actions
ASD2s	https://pitangui.amazon.com/api/skill/link/M1RV3XG1XI5JPF	 
ASDASD	https://asd.asd	 
Demo app	https://localhost:6100/oauth	 

Or, click the OAuth Application in the table listing to display the OAuth Application dialog box. Click **EDIT** to display the Edit dialog box.

OAuth App

[Details](#) [Preview](#) [Sign In](#) [Preview Authorization](#)

Application Name *: ASD2s

Company Name: adsgd

Sign In Message:

Authorization Message:

Logo Image File:



Redirect URI *: https://pitangui.amazon.com/api/skill
/link/M1RV3XG1XI5JPF

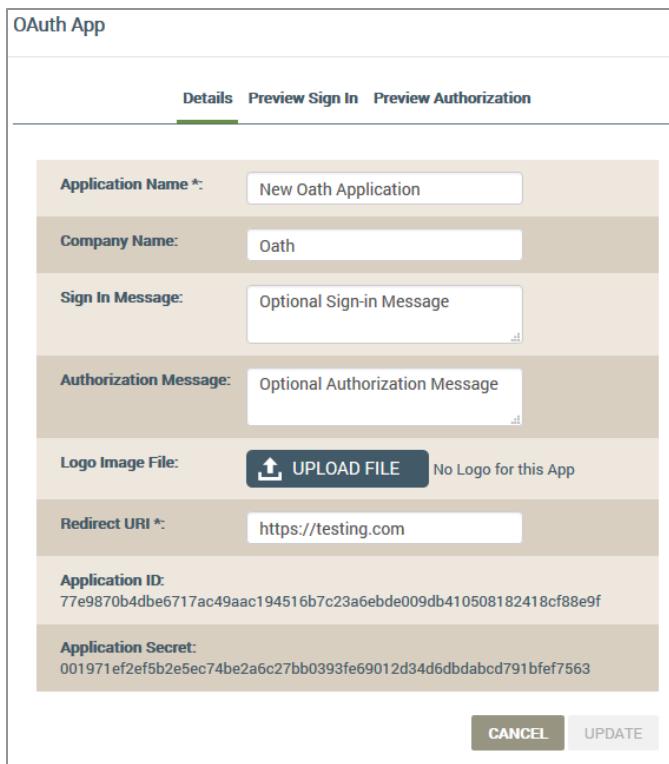
Application ID: 08421637b0b9e0533ad95d31b9798af90972fae94b5eb1fff5a46d2b2a419fe7

Application Secret: 86d97a37c275ceed15b32e6e0eef143cdb999b33c636c139729da35e2de71a91

CLOSE **EDIT**

2. Click the application on the table to display the dialog box, then click **EDIT**.

- Click the **Edit OAuth Application**  icon.



OAuth App	
Details Preview Sign In Preview Authorization	
Application Name *	New Oath Application
Company Name:	Oath
Sign In Message:	Optional Sign-in Message
Authorization Message:	Optional Authorization Message
Logo Image File:	 UPLOAD FILE No Logo for this App
Redirect URI *	https://testing.com
Application ID:	77e9870b4dbe6717ac49aac194516b7c23a6ebde009db410508182418cf88e9f
Application Secret:	001971ef2ef5b2e5ec74be2a6c27bb0393fe69012d34d6dbabcd791bfef7563

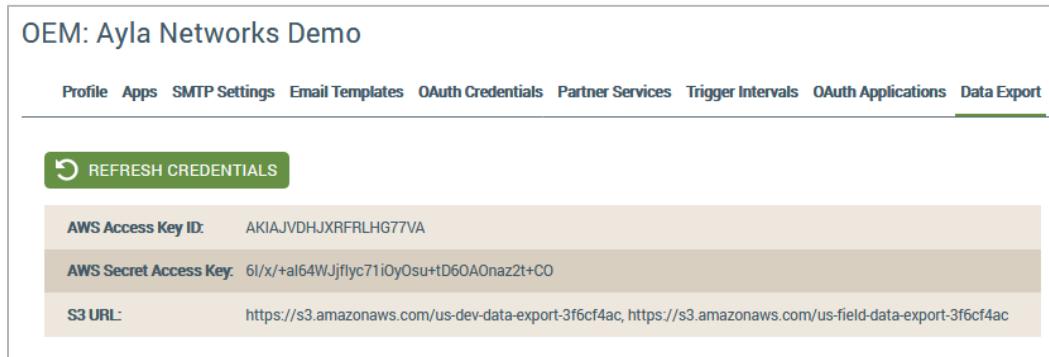
3. Make changes, as needed.

4. When done, click **UPDATE**.

3.9 Data Export

The Data Export tab page provides S3 (AWS) credentials. This is used when the OEM Admin does not need real-time reporting with DataStream Service (DSS). This features downloads device details and events that occurred over a period of time. This is useful for analyzing historical activity. With Data Export, data is posted every 24 hours. Content is purged after one year.

To change the current credentials for security purposes (similar to change password), click **REFRESH CREDENTIALS**. This cancels the current credentials and creates a new set of credentials.



OEM: Ayla Networks Demo

Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications **Data Export**

REFRESH CREDENTIALS

AWS Access Key ID: AKIAJVDHJXRFRLG77VA

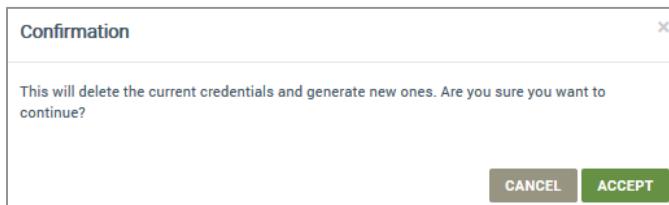
AWS Secret Access Key: 6l/x/+al64WJjflyc71i0yOsu+tD6OAOnaz2t+CO

S3 URL: https://s3.amazonaws.com/us-dev-data-export-3f6cf4ac, https://s3.amazonaws.com/us-field-data-export-3f6cf4ac

To view data, you will need an S3 client (i.e., Cyberduck) to view the exported data. The login process uses the credentials on this page. This provides access to the exported data details.

3.9.1 Refresh Credentials

1. On the **Data Export** tab, click **REFRESH CREDENTIALS**. This shows the Confirmation dialog box.

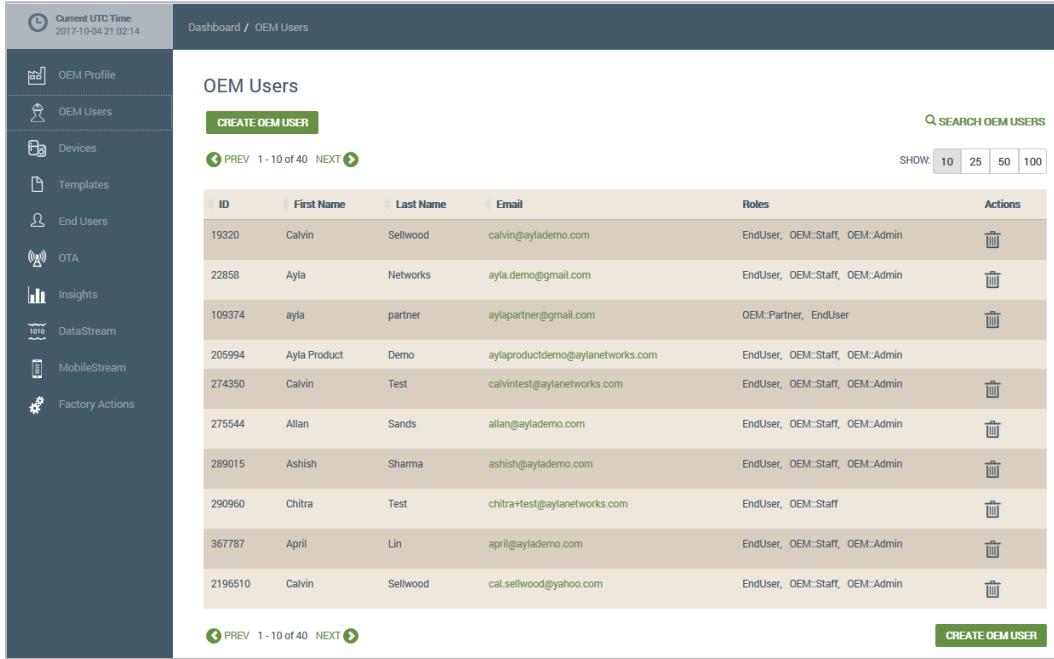


2. Click **ACCEPT**.

4 OEM Users

OEM Users page is a list of all OEM Users and their assigned role(s). For information about roles, see the section on [Roles in the Ayla Customer Dashboard](#).

Figure 4 – Ayla Customer Dashboard, OEM Users Page



ID	First Name	Last Name	Email	Roles	Actions
19320	Calvin	Sellwood	calvin@aylademo.com	EndUser, OEM:Staff, OEM:Admin	
22858	Ayla	Networks	ayla.demo@gmail.com	EndUser, OEM:Staff, OEM:Admin	
109374	ayla	partner	aylapartner@gmail.com	OEM:Partner, EndUser	
205994	Ayla Product	Demo	aylaproductdemo@aylanetworks.com	EndUser, OEM:Staff, OEM:Admin	
274350	Calvin	Test	calvintest@aylanetworks.com	EndUser, OEM:Staff, OEM:Admin	
275544	Allan	Sands	allan@aylademo.com	EndUser, OEM:Staff, OEM:Admin	
289015	Ashish	Sharma	ashish@aylademo.com	EndUser, OEM:Staff, OEM:Admin	
290960	Chitra	Test	chitra+test@aylanetworks.com	EndUser, OEM:Staff	
367787	April	Lin	april@aylademo.com	EndUser, OEM:Staff, OEM:Admin	
2196510	Calvin	Sellwood	cal.sellwood@yahoo.com	EndUser, OEM:Staff, OEM:Admin	

Table column description:

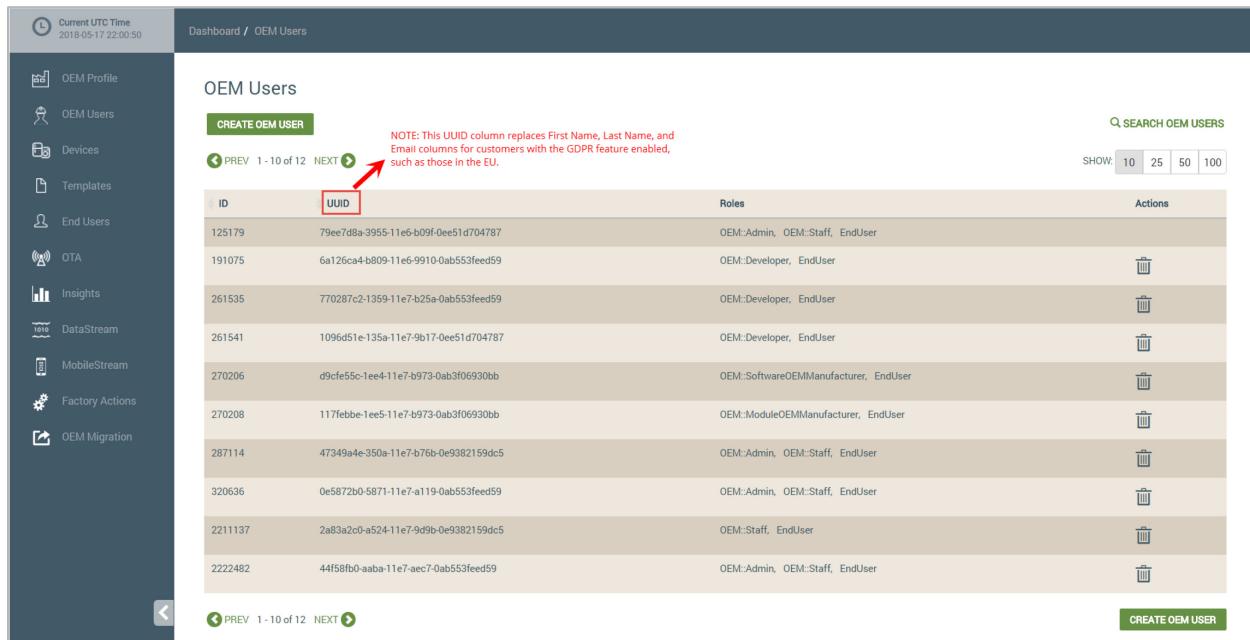
- **ID** (Ayla-assigned ID for the user)
- **First Name / Last Name** (name of the OEM user)
- **Email** (email of the OEM user)
- **Roles** (current roles assigned to the user)
- **Actions** (user action for the OEM user)

IMPORTANT!

If you are a customer in the EU, the [GDPR feature](#) should be enabled so that all Personal Identifiable Information (PII) is not shown on the OEM Users page. See Figure 5 below.

If you can see PII, contact [Ayla Technical Support](#) to make sure GDPR is enabled properly.

Figure 5 - Ayla Customer Dashboard, OEM Users Page- EU Customer View

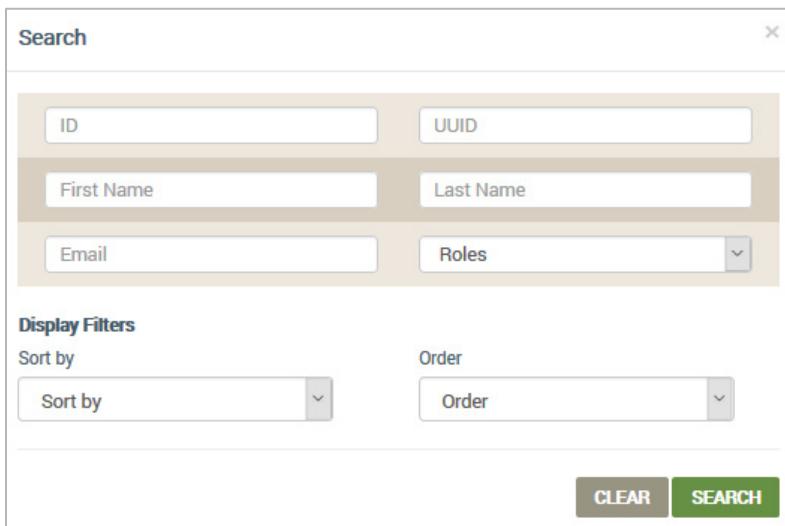


4.1 Search OEM Users

1. On the OEM Users page, click **SEARCH OEM USERS**.



2. On the Search dialog, enter search details as follows:

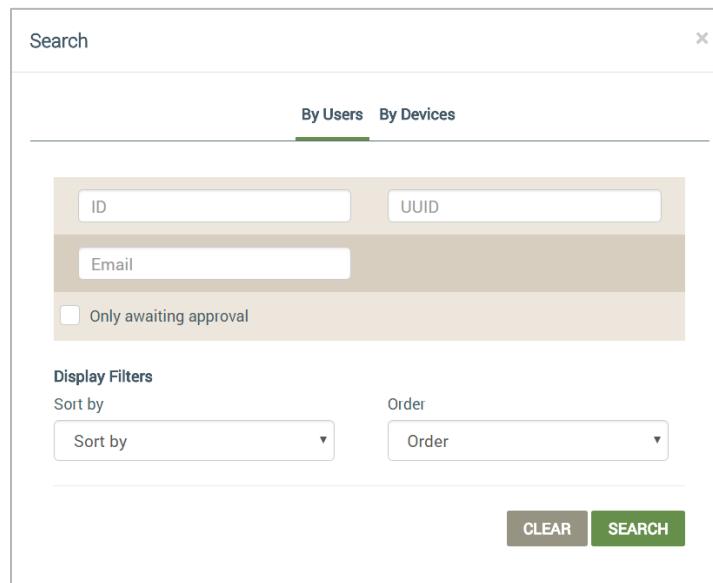


- **ID** (OEM User ID, can use wild cards)
- **UUID** (Universally Unique Identifier for the user)
- **First Name / Last Name** (name of OEM User)
- **Email** (email address)
- **Roles** drop-down (select a role from drop-down list)
- In **Display Filters**, Sort by:
 - First Name
 - Last Name
 - Email
- In **Display Filters**, Order:
 - Asc (ascending)
 - Desc (descending)

IMPORTANT!

If you are a customer in the EU, the [GDPR \(privacy\) feature](#) should be enabled so that all Personal Identifiable Information (PII) is not shown anywhere in the dashboard. As shown below, when this feature is enabled, the Search dialog box does not have any fields allowing PII in the search, such as name.

If you are an EU customer and can see PII, contact [Ayla Technical Support](#) to make sure GDPR is enabled properly.



The screenshot shows the 'Search' dialog box with the 'By Users' tab active. It contains fields for 'ID', 'UUID', and 'Email', and a checkbox for 'Only awaiting approval'. Below these are 'Display Filters' sections for 'Sort by' and 'Order'. At the bottom are 'CLEAR' and 'SEARCH' buttons.

3. Click **SEARCH** to display the results in the table listing.

4.2 View OEM User Details

1. On the OEM Users page, click the information in the table listing for the user you wish to view. This shows the user's **Details** tab.

User: Calvin Sellwood

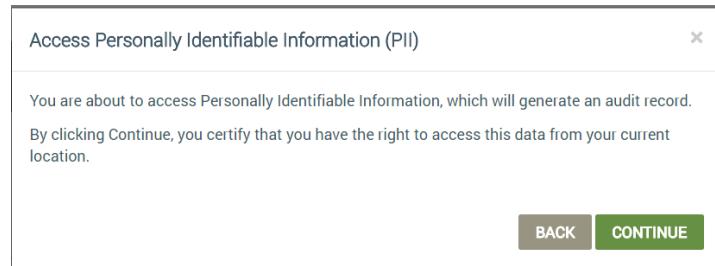
Details		Metadata	Shared By User	Shared With User	Contacts	Devices	Rules
First Name:	Calvin						
Last Name:	Sellwood						
Email:	calvin@aylanetworks.com						
UUID:	a6264af6-9eec-11e7-aa3c-0a76dd274b70						
Company:	Ayla Networks						
Street:							
City:							
State:							
Zip:							
Country:	United States						
Confirmed:	<input checked="" type="checkbox"/>						
Confirmation sent at:	09/21/2017 at 16:48 (UTC)						
Approved:	<input checked="" type="checkbox"/>						
Country Code:							
Phone:							
Origin OEM:	Ayla						
Roles:	Ayla:Admin, OEM:Admin, EndUser, OEM:Staff						
Reset password							
Resend confirmation instructions							

CLOSE **EDIT**

IMPORTANT!

If you are a customer in the EU, the [GDPR \(privacy\) feature](#) should be enabled so that Personal Identifiable Information (PII) is not shown anywhere in the dashboard. When GDPR is enabled, the OEM User page does not show PII (Click [here](#) to see an example). On the OEM Users page, you still, however, click the user information, i.e. UUID, to open the Details tab for that user (as stated in Step 1).

The following message appears regarding PII. Click **Continue** if you accept the conditions when showing the Details tab for the selected user.



2. Click **Metadata** tab and review content. (User details, i.e., key=Gender, value=male; key=Title, value=position; key=Age, value=20-30; key=Location, value=NY, key=2ndEmail, value=person@test.com; etc.)

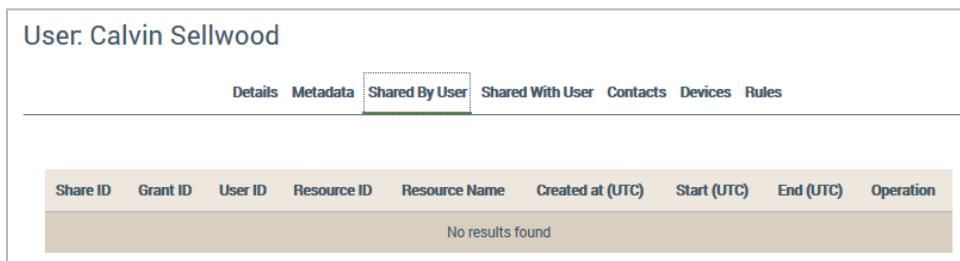


Key	Value	Created at (UTC)	Updated at (UTC)	Actions
No results found				

Table columns description:

- **Key** (type of metadata)
- **Value** (value for the metadata key)
- **Created at (UTC)** (date/time metadata key-value was created)
- **Updated at (UTC)** (date/time metadata key-value was updated)
- **Actions** (Trash can to delete the metadata)

3. Click **Shared By User** tab and review content.



Share ID	Grant ID	User ID	Resource ID	Resource Name	Created at (UTC)	Start (UTC)	End (UTC)	Operation
No results found								

Table columns description:

- **Share ID** (Ayla-assigned ID for the Share)
- **Grant ID** (Ayla-assigned ID for the Grant)
- **User ID** (Ayla-assigned ID for the User)
- **Resource ID** (Ayla-assigned ID for the shared resource)
- **Resource Name** (name for the resource that is shared)
- **Created at (UTC)** (date/time share was created)
- **Start (UTC)** (date/time to start the share)

- **End (UTC)** (data/time to end the share)
- **Operation** (type of operation for the share)

Information about Shares

Share a given resource between registered users. By specifying a resource class and a unique resource identifier, these CRUD APIs support sharing the resource. When a resource is shared by the owner, the resource for the target user will contain updated grant information. These are conditions about shared devices:

- Currently, only devices may be shared.
- Only the owner to whom the device has been registered may share a device.
- A resource may be shared to one or more registered user.
- Share access controls access rights: A resource can be shared with read/write or with a role. The access control for devices shared with role, depends on the access control of the role on the resource.
- Devices shared with LAN-Mode enabled always have r/w access irrespective of the access control it is shared with.
- Shares may include a start and end time-stamp.
- Sharing supports custom email templates for share notification on creation.
- A user can't have more than one share for the same Resource Name and Resource ID.

4. Click **Shared With User** tab and review content.

User: Calvin Sellwood								
Details	Metadata	Shared By User	Shared With User	Contacts	Devices	Rules		
Share ID	Grant ID	User ID	Resource ID	Resource Name	Created at (UTC)	Start (UTC)	End (UTC)	Operation
No results found								

Table columns description:

- **Share ID** (Ayla-assigned ID for the Share)
- **Grant ID** (Ayla-assigned ID for the Grant)
- **User ID** (Ayla-assigned ID for the User)
- **Resource ID** (Ayla-assigned ID for the shared resource)
- **Resource Name** (name for the resource that is shared)
- **Created at (UTC)** (date/time share was created)
- **Start (UTC)** (date/time to start the share)
- **End (UTC)** (data/time to end the share)
- **Operation** (type of operation for the share)

5. Click **Contacts** tab and review content. Click a contact to review individual contacts.

User Contacts include details about user connections. Included are delivery notification options.



User: Calvin Sellwood

Display Name	Firstname	Lastname	Actions
APS	Al	Sam	

SHOW: 10 25 50 100

 PREV 1 - 1 of 1 

 PREV 1 - 1 of 1 

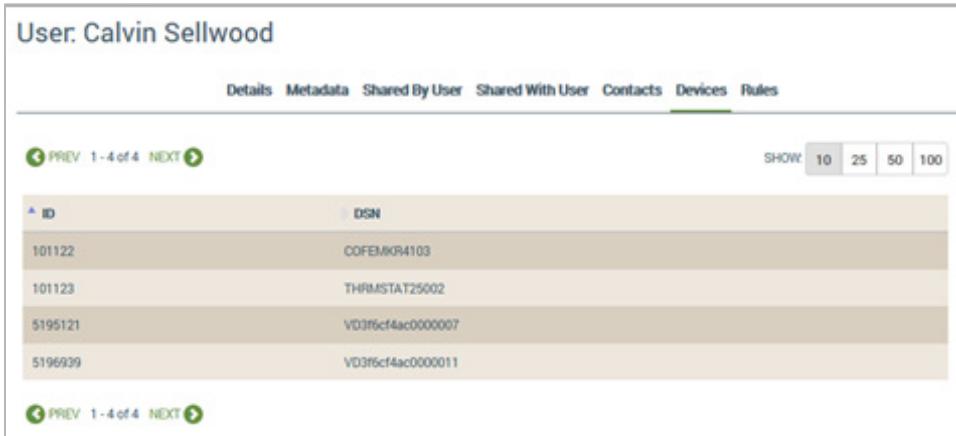
NEW CONTACT

Table columns description:

- **Display Name** (user-friendly name of the contact)
- **Firstname** (first name of the contact)
- **Lastname** (last name of the contact)
- **Actions** (Trash can to delete the contact)

NOTE If needed, you click **NEW CONTACT** to [Create OEM User Contact](#). This adds another individual to this table.

6. Click **Devices** tab and review content. This is the list of devices owned by the user)



User: Calvin Sellwood

ID	DSN
101122	COFEMKRA103
101123	THRMSTAT25002
5195121	VD3f6cf4ac0000007
5196939	VD3f6cf4ac0000011

SHOW: 10 25 50 100

 PREV 1 - 4 of 4 

 PREV 1 - 4 of 4 

Table columns are:

- **ID** (Ayla-assigned ID for the device)
- **DSN** (Customer Device Serial Number)

7. Click **Rules** tab and review table listing of rules.

Rules Engine is a configurable framework of rules that include inputs, conditions, and outputs. Customers can configure and manage rules on the Ayla Developer Portal and using the Ayla mobile app.

User: shqa end user

Rule Name	Description	Status
Test Rule with datapoint actions	Test Rule	enabled
Test Rule with email actions	Test Rule	disabled

NOTE This shows rules created by the End User. Customers cannot create an End User Rule. If needed (for diagnostics), a rule can be disabled.

Table columns:

- **Rule Name** (name of the End User rule)
- **Description** (description of the rule, entered by the End User)
- **Status** (current status of the rule – enabled, disabled)
- **Actions** (Trash Can – delete the rule)
- Click a Rule to display Rule Details dialog box.

Rule Name	Test Rule with email actions									
Description	Test Rule									
Created At	2017-10-06T21:37:32.214Z									
Updated At	2017-10-09T16:25:20.852Z									
Status	disabled									
Condition: If...	DATAPOINT(VD72f801390000023,rule_prop) == 1									
Action: then...	<table border="1"> <thead> <tr> <th>Name</th> <th>Type</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Email Action 1</td> <td>EMAIL</td> <td>To: ["avani@aylanetworks.com"], subject: Device Updated Notification</td> </tr> <tr> <td>Email Action- multiple emails</td> <td>EMAIL</td> <td>To: ["avani@aylanetworks.com","avani+automation@aylanetworks.com"], subject: Device Updated Notification</td> </tr> </tbody> </table>	Name	Type	Description	Email Action 1	EMAIL	To: ["avani@aylanetworks.com"], subject: Device Updated Notification	Email Action- multiple emails	EMAIL	To: ["avani@aylanetworks.com","avani+automation@aylanetworks.com"], subject: Device Updated Notification
Name	Type	Description								
Email Action 1	EMAIL	To: ["avani@aylanetworks.com"], subject: Device Updated Notification								
Email Action- multiple emails	EMAIL	To: ["avani@aylanetworks.com","avani+automation@aylanetworks.com"], subject: Device Updated Notification								

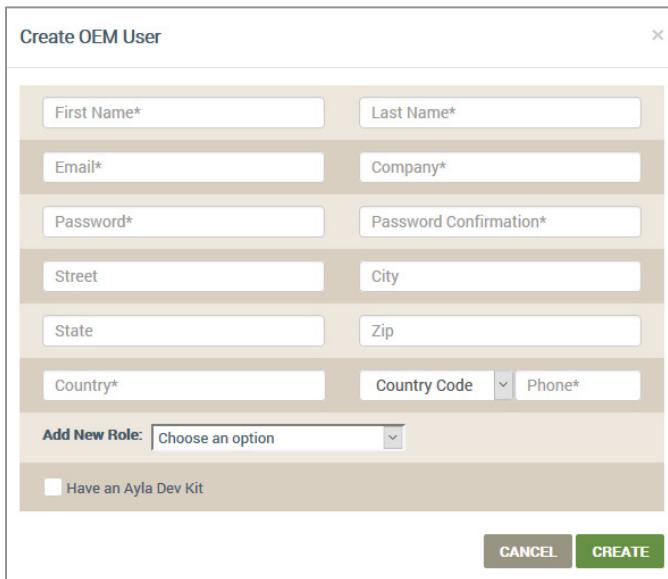
- **Rule Name** (name of the End User rule)
- **Description** (description of the rule, entered by the End User)
- **Created At** (date/time rule was created)
- **Updated At** (date/time rule was updated)
- **Status** (current status of the rule – enabled, disabled)

- **Condition If...** (list of conditions that must be valid before the "Action Then" is executed)
- **Action then...** (Name, Type, Description - list of actions to take place when "Conditions If..." are valid)

4.3 Create OEM User

This can only be done by a user with OEM Admin privileges.

1. Click **CREATE OEM USER** to open the Create OEM User dialog box.

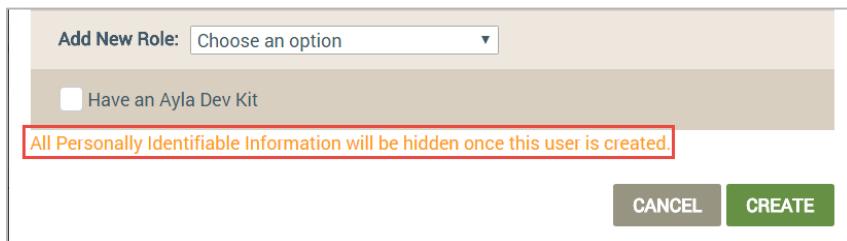


The dialog box is titled "Create OEM User". It contains the following fields in a grid layout:

- First Name* and Last Name*
- Email* and Company*
- Password* and Password Confirmation*
- Street and City
- State and Zip
- Country* and Country Code dropdown
- Phone* and a dropdown for "Add New Role" with "Choose an option" selected
- A checkbox for "Have an Ayla Dev Kit"

At the bottom are "CANCEL" and "CREATE" buttons.

IMPORTANT! If you are a customer in the EU, the [GDPR \(privacy\) feature](#) should be enabled so that Personal Identifiable Information (PII) is not shown anywhere in the dashboard. When GDPR is enabled, the Create OEM User dialog box displays the following message regarding PII. Click **Continue** if you accept the conditions with regard to showing PII in the Details tab for the selected user.



The dialog box shows a message in a red-bordered box: "All Personally Identifiable Information will be hidden once this user is created."

2. Enter details:

- **First Name** (first name of user)
- **Last Name** (last name of user)
- **Email** (user's email address)

- **Company** (company name)
 - **Password** (user's initial password and can be changed by the user)
 - **Password Confirmation** (re-enter password)
 - **Street** (street address of user's location)
 - **City** (city of user's location)
 - **State** (state/province of user's location)
 - **Zip** (zip code of user's location)
 - **Country** (country of user's location - enter initial character to narrow selection)
 - **Country Code** drop-down (list of country phone codes)
 - **Phone** (phone contact of user)
 - **Add New Role** drop-down (select from the list)
 - **Have an Ayla Dev Kit** checkbox (If user has an Ayla Dev Kit, select checkbox and enter the Kit number)
3. Click **CREATE**.

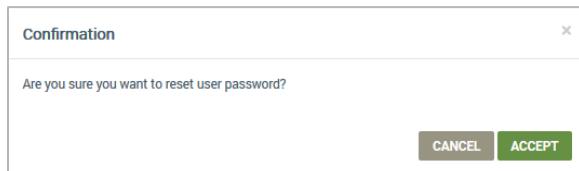
4.4 Reset Password

This can only be done by a user with OEM Admin privileges.

1. On the OEM User page, click the user name. (If needed, use Search function to display the name.)
2. On the user page, Details tab, click **Reset password** (lower left corner).



3. On the Confirmation dialog, click **ACCEPT**.



4. A Confirmation message shows on the page.



5. Email is sent with a link to reset the password.

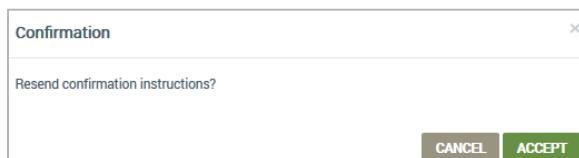
4.5 Resend Confirmation Instructions

This can only be done by a user with OEM Admin privileges.

1. On the OEM User page, click the user name. (If needed, use Search function to display the name.)
2. On the User page, Details tab, click **Resend confirmation instructions**.



3. On the Confirmation dialog, click **ACCEPT**. This resends the confirmation email to the user.



4. Email is sent with the original confirmation instructions.

4.6 Create an OEM User Contact

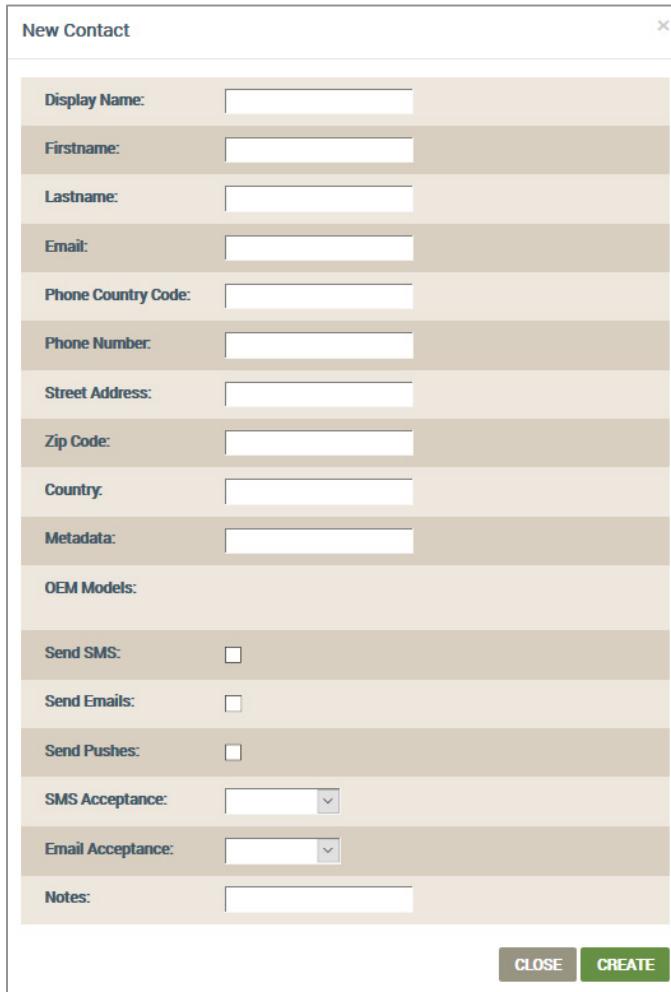
This procedure adds contacts for the OEM User.

1. On the OEM Users table listing, click the user.
2. On the User dialog box, click the **Contacts** tab.



Display Name	Firstname	Lastname	Actions
Calvin Sellwood	Calvin	Sellwood	

3. Click **NEW CONTACT**. This shows the New Contact dialog box.



The 'New Contact' dialog box contains the following fields:

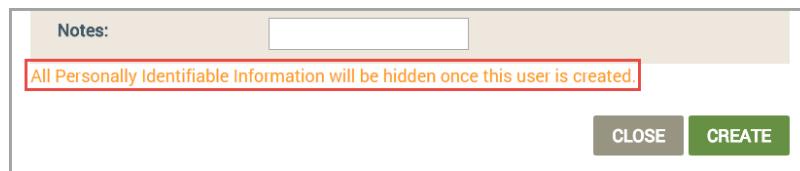
- Display Name: [Text input]
- Firstname: [Text input]
- Lastname: [Text input]
- Email: [Text input]
- Phone Country Code: [Text input]
- Phone Number: [Text input]
- Street Address: [Text input]
- Zip Code: [Text input]
- Country: [Text input]
- Metadata: [Text input]
- OEM Models: [Text input]
- Send SMS: [checkbox]
- Send Emails: [checkbox]
- Send Pushes: [checkbox]
- SMS Acceptance: [dropdown menu]
- Email Acceptance: [dropdown menu]
- Notes: [Text input]

At the bottom are two buttons: **CLOSE** and **CREATE**.

If you are a customer in the EU, the [GDPR \(privacy\) feature](#) should be enabled so that Personal Identifiable Information (PII) is not shown anywhere in the dashboard. When GDPR is enabled, the following occurs when creating a new contact:

IMPORTANT!

- When you click the user's information on the OEM Users page (as in step 1 above), a message appears regarding PII; click [here](#) to see an example. Click **Continue** in that message.
- When you click **NEW CONTACT** (step 2 above), the New Contact dialog box displays a message regarding PII at the bottom; see example below.



The 'New Contact' dialog box shows a message in a red-bordered box:

All Personally Identifiable Information will be hidden once this user is created.

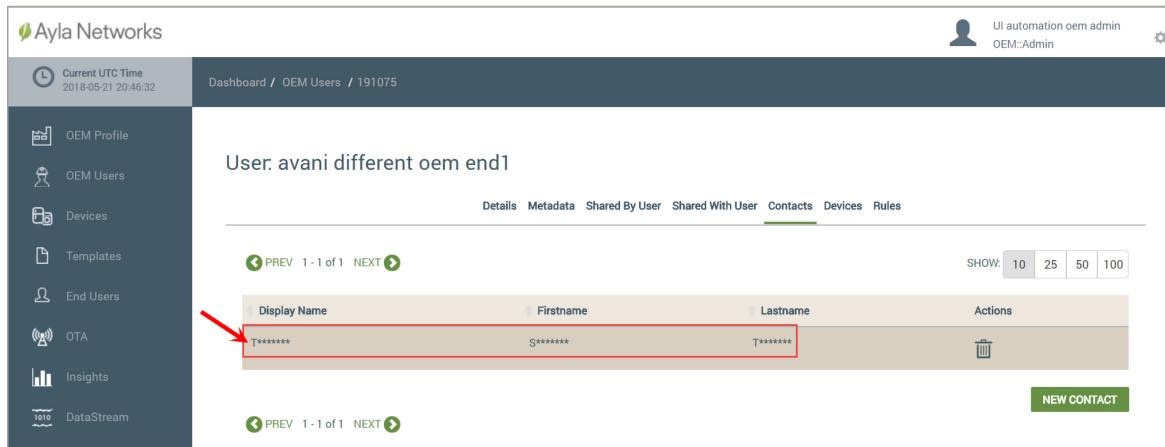
At the bottom are two buttons: **CLOSE** and **CREATE**.

4. Enter details:

- **Display Name** (user-friendly name for this contact)
- **Firstname** (first name of contact)
- **Lastname** (last name of contact)
- **Email** (email of contact)
- **Phone Country Code** (contact's country phone code)
- **Phone Number** (contact's phone number)
- **Street Address** (contact's street location)
- **Zip Code** (postal zip code of contact)
- **Country** (contact's country)
- **Metadata** (metadata about the contact, i.e., location details, regional area, position, etc.)
- **OEM Models** (information only, model number of the customer's host application board assigned to this contact)
- **Send SMS** checkbox
Select (to send SMS notifications)
Unselect (to not send SMS notifications)
- **Send Emails** checkbox
Select (to send email notifications)
Unselect (to not send email notifications)
- **SMS Acceptance** drop-down
Required (contact must take action to accept SMS notification)
Not Required (contact receives all SMS notification, regardless of preference)
- **Email Acceptance** drop-down
Required (contact must take action to accept email notification)
Not Required (contact receives all email notification, regardless of preference)
- **Notes** (any additional information about this contact)

5. Click **CREATE**.

NOTE When GDPR is enabled, all user data that is Personally Identifiable Information (PII) is blocked as shown below. Click [here](#) for more information on GDPR.

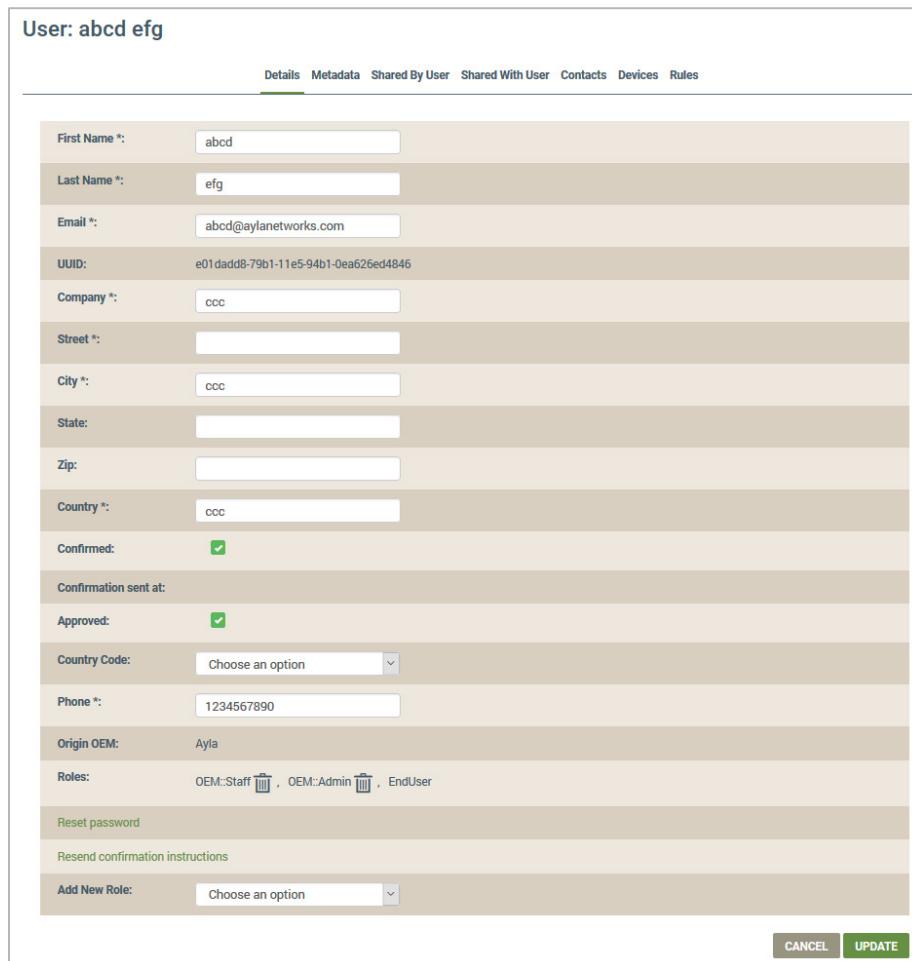


The screenshot shows the Ayla Customer Dashboard with the OEM Users page selected. The table lists a single user with the following details:

Display Name	Firstname	Lastname	Actions
T*****	S*****	T*****	

4.7 Edit OEM User Details

1. In the OEM User table listing, click the user to be edited to open the user's **Details** tab.
2. On the review page, click **EDIT** to enable the fields that can be edited on the **Details** tab.



The screenshot shows the User Details edit page. The 'Details' tab is selected. The user information is as follows:

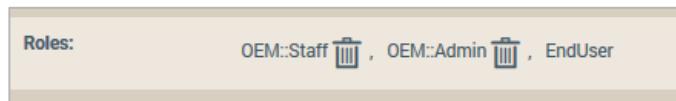
First Name *:	abcd
Last Name *:	efg
Email *:	abcd@aylanetworks.com
UUID:	e01dadd8-79b1-11e5-94b1-0ea626ed4846
Company *:	ccc
Street *:	
City *:	ccc
State:	
Zip:	
Country *:	ccc
Confirmed:	<input checked="" type="checkbox"/>
Confirmation sent at:	
Approved:	<input checked="" type="checkbox"/>
Country Code:	Choose an option
Phone *:	1234567890
Origin OEM:	Ayla
Roles:	OEM:Staff , OEM:Admin , EndUser
Reset password	
Resend confirmation instructions	
Add New Role:	Choose an option

At the bottom right are the **CANCEL** and **UPDATE** buttons.

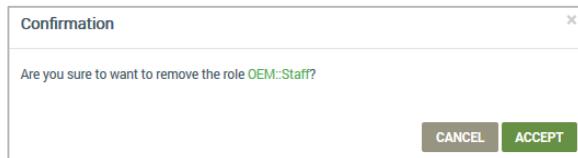
3. Make changes as needed.

NOTE A user can have multiple roles. To add another Role, on the **Add New Role** dropdown, select the additional role.

To delete a role, click the **Trash Can** (right-side of the role).



In confirmation dialog, click **ACCEPT**.

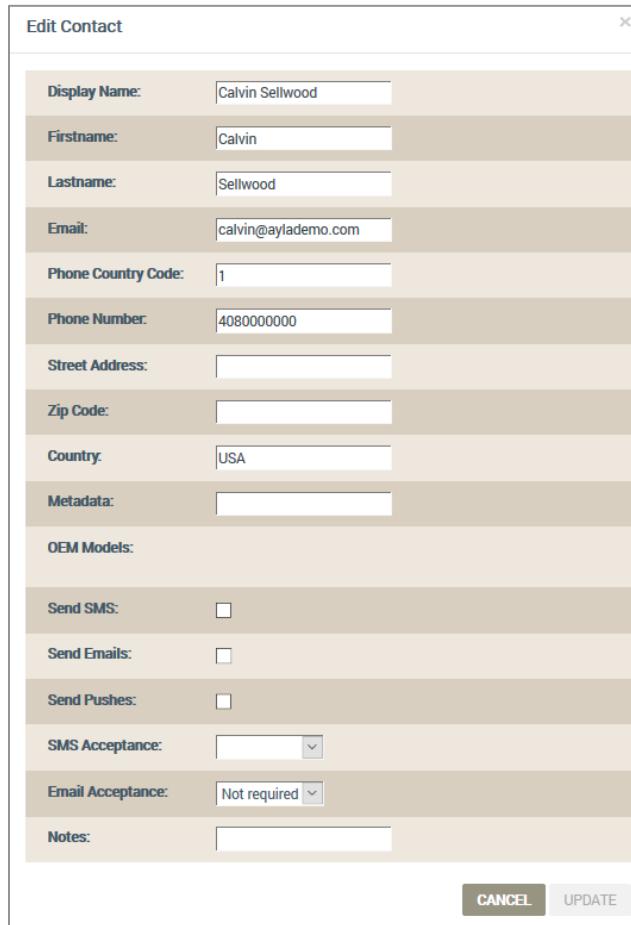


-
4. When done. click **UPDATE**.
 5. On the **Metadata** tab, items in the table listing can only be deleted with the **Trash Can** icon.

NOTE Metadata (i.e. create, update, delete) can be managed with APIs and on the Developer Portal, Device property datapoints.

6. On the **Shared By Me** tab, the table listing can only be reviewed.
7. On the **Shared With Me** tab, the table listing can only be reviewed.

8. On the **Contacts** tab, in the table listing, click on the contact. This shows the Edit Contact dialog box. Make changes as needed and click **UPDATE**.

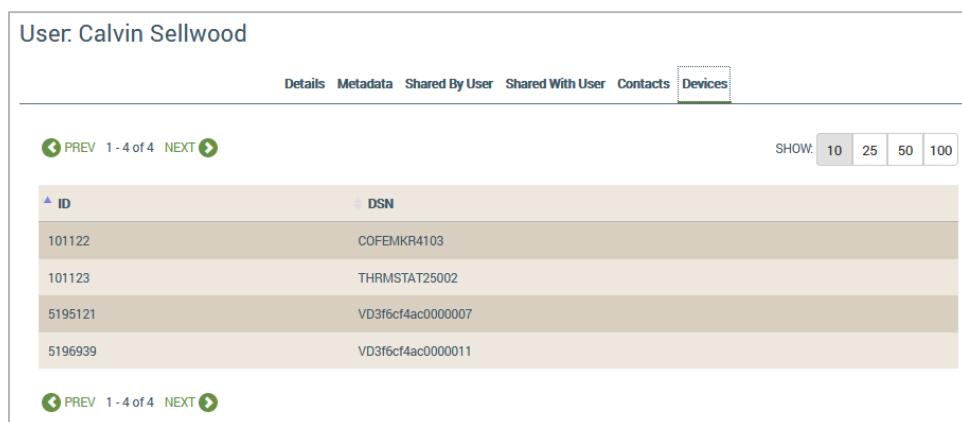


Edit Contact

Display Name:	Calvin Sellwood
Firstname:	Calvin
Lastname:	Sellwood
Email:	calvin@aylademo.com
Phone Country Code:	1
Phone Number:	4080000000
Street Address:	
Zip Code:	
Country:	USA
Metadata:	
OEM Models:	
Send SMS:	<input type="checkbox"/>
Send Emails:	<input type="checkbox"/>
Send Pushes:	<input type="checkbox"/>
SMS Acceptance:	<input type="button" value="▼"/>
Email Acceptance:	Not required <input type="button" value="▼"/>
Notes:	

CANCEL **UPDATE**

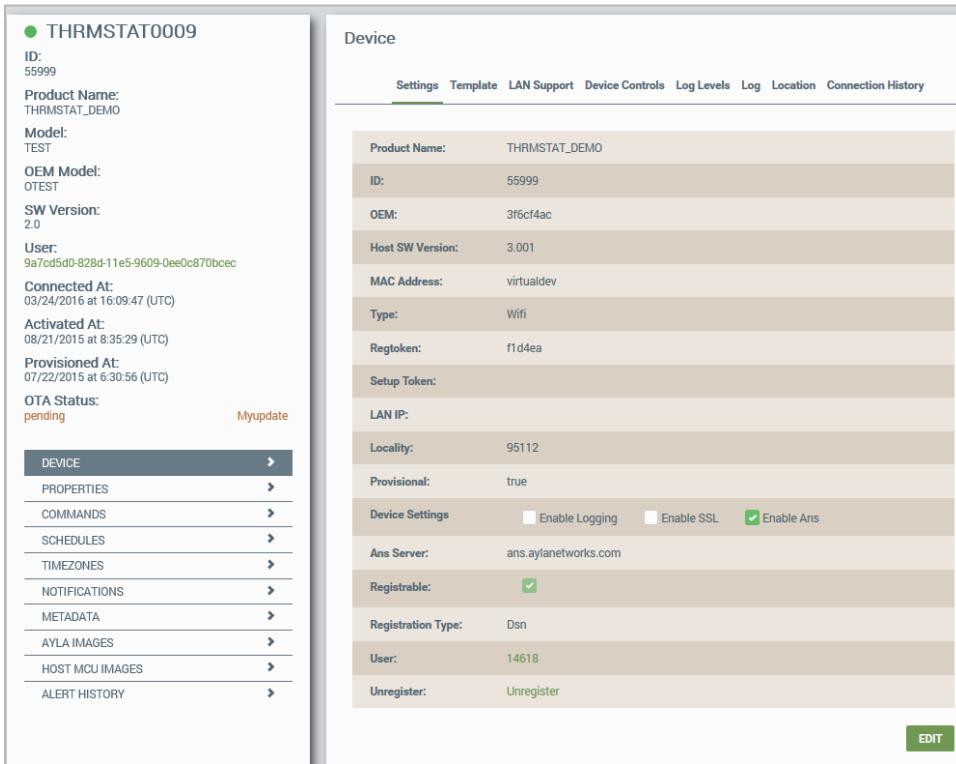
9. On the **Devices** tab, the table listing can only be reviewed. When device details are entered, these are assigned to users.



User: Calvin Sellwood

Details	Metadata	Shared By User	Shared With User	Contacts	Devices
PREV 1 - 4 of 4 NEXT SHOW: 10 25 50 100					
ID	DSN				
101122	COFEMKR4103				
101123	THRMSTAT25002				
5195121	VD3f6cf4ac0000007				
5196939	VD3f6cf4ac0000011				
PREV 1 - 4 of 4 NEXT					

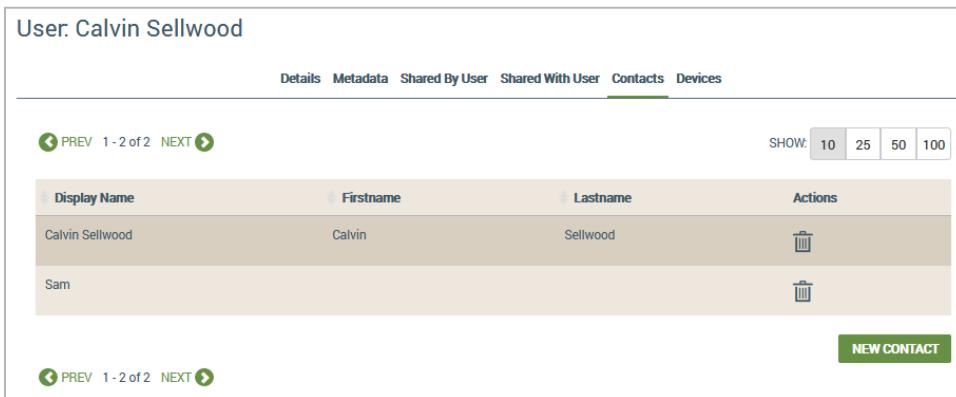
- In the table listing, click on a device. This shows the Device details.



- Follow the procedures in [Device Navigation Menu – DEVICE](#)

4.8 Delete OEM User Contact

1. On the OEM Users table listing, click the user.
2. On the User dialog, click the **Contacts** tab.



3. To delete, click the **Trash Can**  icon.



4. On the Confirmation dialog, click **ACCEPT**.



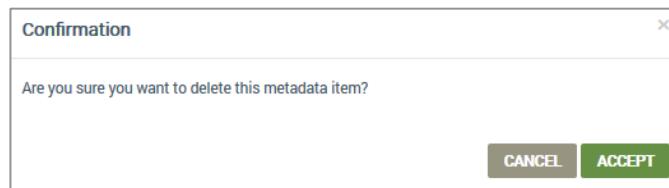
The OEM user is deleted and a delete verification dialog opens.

4.9 Delete OEM User Metadata

1. On the OEM Users table listing, click the user.
2. Click the **Metadata** tab.
3. On the table listing, click the **Trash Can**  icon.

User: Calvin Sellwood					
Details Metadata Shared By User Shared With User Contacts Devices					
Key	Value	Created at (UTC)	Updated at (UTC)	Actions	
AgileLinkProd-id-settings	{"owner-contact-id":2650,"device-notifications":[]}	12/16/2015 at 18:49:52	12/16/2015 at 18:49:52		

4. On the Confirmation dialog box, click **ACCEPT**.



5 Devices

In the navigation bar, click **Devices** to display a list of the registered devices. The default display is 10 items per page, but this can be changed using the **Show** option.

In the **Devices** section, you can:

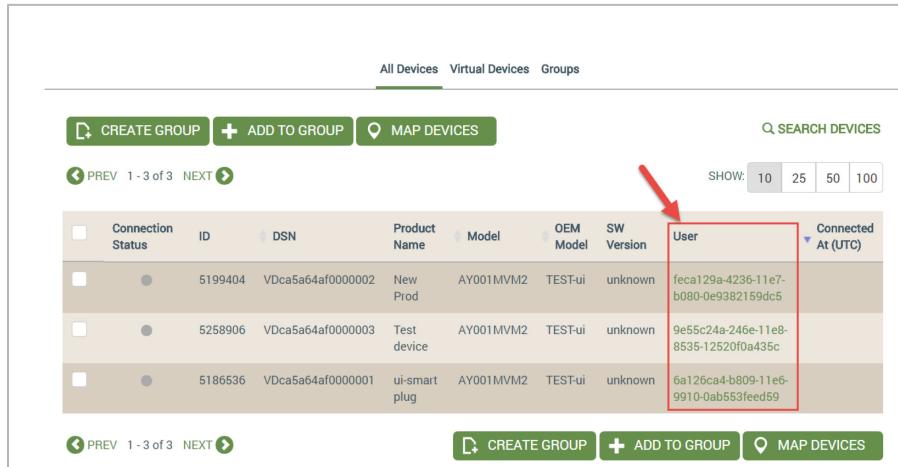
- View/Search for Devices by device or groups
- Create/Edit/Delete Device Groups
- Map Devices
- Edit Device features
- Create and manage virtual devices (Only in the Development environment of the Ayla Customer Dashboard)

Figure 6 – Ayla Customer Dashboard, Devices page

All Devices									
<input type="button" value="CREATE GROUP"/> <input type="button" value="ADD TO GROUP"/> <input type="button" value="MAP DEVICES"/> <input type="text" value="SEARCH DEVICES"/>									
<input type="button" value="PREV"/> 1 - 10 of 16424 <input type="button" value="NEXT"/> SHOW: <input type="button" value="10"/> <input type="button" value="25"/> <input type="button" value="50"/> <input type="button" value="100"/>									
Connection Status	ID	DSN	Product Name	Model	OEM Model	SW Version	User	Connected At (UTC)	
<input type="checkbox"/>	248916	AC000W000282004	doorlock cluster	AY001MRT1	generic	devd 1.4 2016-02-17 14:07:42	Ron	10/03/2017 at 19:20	
<input type="checkbox"/>	340981	VR00ZN000003326	VR00ZN000003326	GenericNode	NexturnSmart_Bulb_Converter	48		10/03/2017 at 19:20	
<input type="checkbox"/>	249485	AC000W000069372	ApiV1Testsuite	AY001MUS1	ledevb	bc 2.5-beta 09/15/16 19:45:04 ID efb9f41	ayla	10/03/2017 at 19:15	
<input type="checkbox"/>	340976	VR00ZN000003325	VR00ZN000003325	GenericNode	NexturnSmartPlug	55	Ron	10/03/2017 at 19:00	
<input type="checkbox"/>	28345	AC000W000001310	Ayla EVB	AY001MUS1	ledevb	bc 1.15.1 02/11/16 16:23:40 ID 5e9db45	Ron	10/03/2017 at 17:59	
<input type="checkbox"/>	11663	AC000W000001305	Ayla EVB	AY001MUS1	ledevb	bc 1.15.1 02/11/16 16:23:40 ID 5e9db45	Ron	10/03/2017 at 17:55	
<input type="checkbox"/>	271006	AC000W000017522	AC000W000017522-1	AY001MTC1	ledevb	bc 2.7-beta 08/30/17 23:41:32 ID 99addfb	Avani	10/03/2017 at 16:51	
<input type="checkbox"/>	11664	UVDTTESTDEVICE	prodUVDTTESTDEVICE	TEST	TEST	unknown		10/03/2017 at 6:32	
<input type="checkbox"/>	11670	NODEALERDEVICE	prodNODEALERDEVICE	TEST	TEST	bc 1.0.1 01/09/13 12:44:31 ID jre/mfg /27ac4ee dev		10/03/2017 at 6:04	
<input type="checkbox"/>	7351	COMMANDSTEST2	prodCOMMANDSTEST2	TEST	TEST	1.7		10/03/2017 at 5:50	

IMPORTANT!

If you are a customer in the EU, the [GDPR \(privacy\) feature](#) should be enabled so that Personal Identifiable Information (PII) is not shown anywhere in the dashboard. When GDPR is enabled, the All Devices tab of the Devices page does not show any PII, as shown below.



The screenshot shows a table with the following data:

	Connection Status	ID	DSN	Product Name	Model	OEM Model	SW Version	User	Connected At (UTC)
<input type="checkbox"/>	●	5199404	VDca5a64af0000002	New Prod	AY001MVM2	TEST-ui	unknown	fec...dc5	
<input type="checkbox"/>	●	5258906	VDca5a64af0000003	Test device	AY001MVM2	TEST-ui	unknown	9e55c24a-246e-11e8-8535-12520f0a435c	
<input type="checkbox"/>	●	5186536	VDca5a64af0000001	ui-smart plug	AY001MVM2	TEST-ui	unknown	6a126ca4-b809-11e6-9910-0ab553feed59	

5.1 Table Column Descriptions

5.1.1 All Devices tab

The checkbox allows selected items to be acted on (Create group, Add to group, Map devices).

- **Buttons:**
 - **CREATE GROUP** (create a group of selected devices)
 - **ADD TO GROUP** (add selected devices to a group)
 - **MAP DEVICES** (shows a map where selected devices are geographically located)
- **Connection Status:**
 - Red icon (device is not connected to Ayla Cloud)
 - Green icon (device is connected to Ayla Cloud)
 - Gray icon (device has not connected to Ayla Cloud – and is not activated)
- **ID** (Ayla-provided ID number when device is registered)
- **DSN** (the customer Device Serial Number)
- **Product Name** (user-friendly device name)
- **Model** (model number of Ayla module)
- **OEM Model** (model number of customer's host application board)
- **SW Version** (software version associated with the device)
- **User** (user name associated with the device – click to [display end user details](#))

NOTE If GDPR is enabled, the user's MAC address is shown, not the user's name. Click [here](#) for information on the GDPR feature, which is enabled by default in the EU.

- **Connected At (UTC)** (time the device connected to Ayla Cloud service)

5.1.2 Virtual Devices tab (Developer environment only)

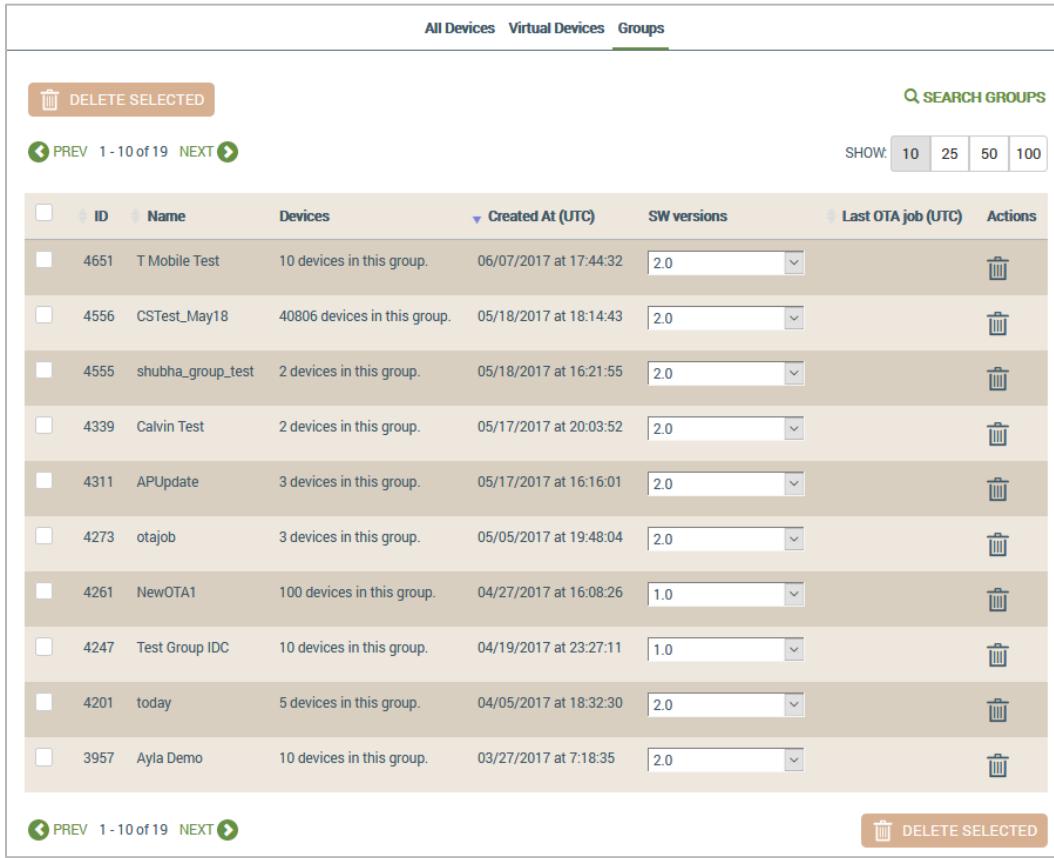
The checkbox allows selected items to be changed in a single instance (i.e., Assign/change user, Reset device instance).

All Devices Virtual Devices Groups									
CREATE VIRTUAL DEVICE ASSIGN/CHANGE USER RESET DEVICE									
PREV 1-10 of 25 NEXT SHOW: 10 25 50 100									
Connection Status	ID	DSN	Product Name	Model	OEM Model	SW Version	User	Connected At (UTC)	
<input checked="" type="checkbox"/>	28520	VDEVICE1	NewName	TEST	jeffttest	unknown			
<input type="checkbox"/>	274768	VD0dfc79000000024	TEST_AUTO1	AY001MVM2	ledevb	unknown	e21568a6-79b1-11e5-94b1-0ea626ed4846		
<input type="checkbox"/>	274767	VD0dfc79000000023	TEST_AUTO1	AY001MVM2	ledevb	unknown	e21568a6-79b1-11e5-94b1-0ea626ed4846		
<input type="checkbox"/>	274766	VD0dfc79000000022	TEST_AUTO1	AY001MVM2	ledevb	unknown	e21568a6-79b1-11e5-94b1-0ea626ed4846		
<input type="checkbox"/>	274765	VD0dfc79000000021	TEST_AUTO1	AY001MVM2	ledevb	unknown	e21568a6-79b1-11e5-94b1-0ea626ed4846		
<input type="checkbox"/>	274764	VD0dfc79000000020	TEST_AUTO1	AY001MVM2	ledevb	unknown	e21568a6-79b1-11e5-94b1-0ea626ed4846		
<input type="checkbox"/>	274763	VD0dfc79000000019	TEST_AUTO1	AY001MVM2	ledevb	unknown	e21568a6-79b1-11e5-94b1-0ea626ed4846		
<input type="checkbox"/>	274762	VD0dfc79000000018	TEST_OEM	AY001MVM2	OEMTEST123	unknown			
<input type="checkbox"/>	274761	VD0dfc79000000017	TEST_AUTO1	AY001MVM2	ledevb	unknown			
<input type="checkbox"/>	274760	VD0dfc79000000016	TEST_AUTO1	AY001MVM2	ledevb	unknown			

- Buttons:
 - **CREATE VIRTUAL DEVICE** (create a new virtual device)
 - **ASSIGN/CHANGE USER** (change or assign user to selected devices)
 - **RESET DEVICE** (option to change product name and OEM model)
- Connection Status:
 - Red icon (device is not connected to Ayla Cloud)
 - Green icon (device is connected to Ayla Cloud)
 - Gray icon (device has not connected to Ayla Cloud – and is not activated)
- ID (Ayla-provided ID number when device is registered)
- DSN (the customer Device Serial Number)
- Product Name (user-friendly device name)
- Model (model number of Ayla module)
- OEM Model (model number of customer's host application board)
- SW Version (software version associated with the device)
- User (the user MAC address associated with the device)
- Connected At (UTC) (time the device connected to Ayla Cloud service)

5.1.3 Groups tab

The checkbox allows selected items to be deleted in one instance.



The screenshot shows the 'Groups' tab in the Ayla Customer Dashboard. The interface includes a header with 'All Devices', 'Virtual Devices', and 'Groups' tabs, and a sub-header with 'DELETE SELECTED' and 'SEARCH GROUPS' buttons. Below the sub-header are navigation buttons for 'PREV', 'NEXT', and a page indicator '1 - 10 of 19'. On the right, there is a 'SHOW' dropdown with options 10, 25, 50, and 100. The main content is a table with the following columns: ID, Name, Devices, Created At (UTC), SW versions, Last OTA job (UTC), and Actions (a delete icon). The table lists ten groups, each with a checkbox in the first column. The groups are: 4651 (T Mobile Test), 4556 (CSTest_May18), 4555 (shubha_group_test), 4339 (Calvin Test), 4311 (APUpdate), 4273 (otajob), 4261 (NewOTA1), 4247 (Test Group IDC), 4201 (today), and 3957 (Ayla Demo). The 'Actions' column contains a delete icon for each group. At the bottom of the table are 'PREV', 'NEXT', and 'DELETE SELECTED' buttons.

	ID	Name	Devices	Created At (UTC)	SW versions	Last OTA job (UTC)	Actions
<input type="checkbox"/>	4651	T Mobile Test	10 devices in this group.	06/07/2017 at 17:44:32	2.0		
<input type="checkbox"/>	4556	CSTest_May18	40806 devices in this group.	05/18/2017 at 18:14:43	2.0		
<input type="checkbox"/>	4555	shubha_group_test	2 devices in this group.	05/18/2017 at 16:21:55	2.0		
<input type="checkbox"/>	4339	Calvin Test	2 devices in this group.	05/17/2017 at 20:03:52	2.0		
<input type="checkbox"/>	4311	APUpdate	3 devices in this group.	05/17/2017 at 16:16:01	2.0		
<input type="checkbox"/>	4273	otajob	3 devices in this group.	05/05/2017 at 19:48:04	2.0		
<input type="checkbox"/>	4261	NewOTA1	100 devices in this group.	04/27/2017 at 16:08:26	1.0		
<input type="checkbox"/>	4247	Test Group IDC	10 devices in this group.	04/19/2017 at 23:27:11	1.0		
<input type="checkbox"/>	4201	today	5 devices in this group.	04/05/2017 at 18:32:30	2.0		
<input type="checkbox"/>	3957	Ayla Demo	10 devices in this group.	03/27/2017 at 7:18:35	2.0		

Options:

- **DELETE SELECTED** button (allows selected table items to be deleted in one instance)
- **SEARCH GROUPS** (search groups for entered criteria)

Table Columns:

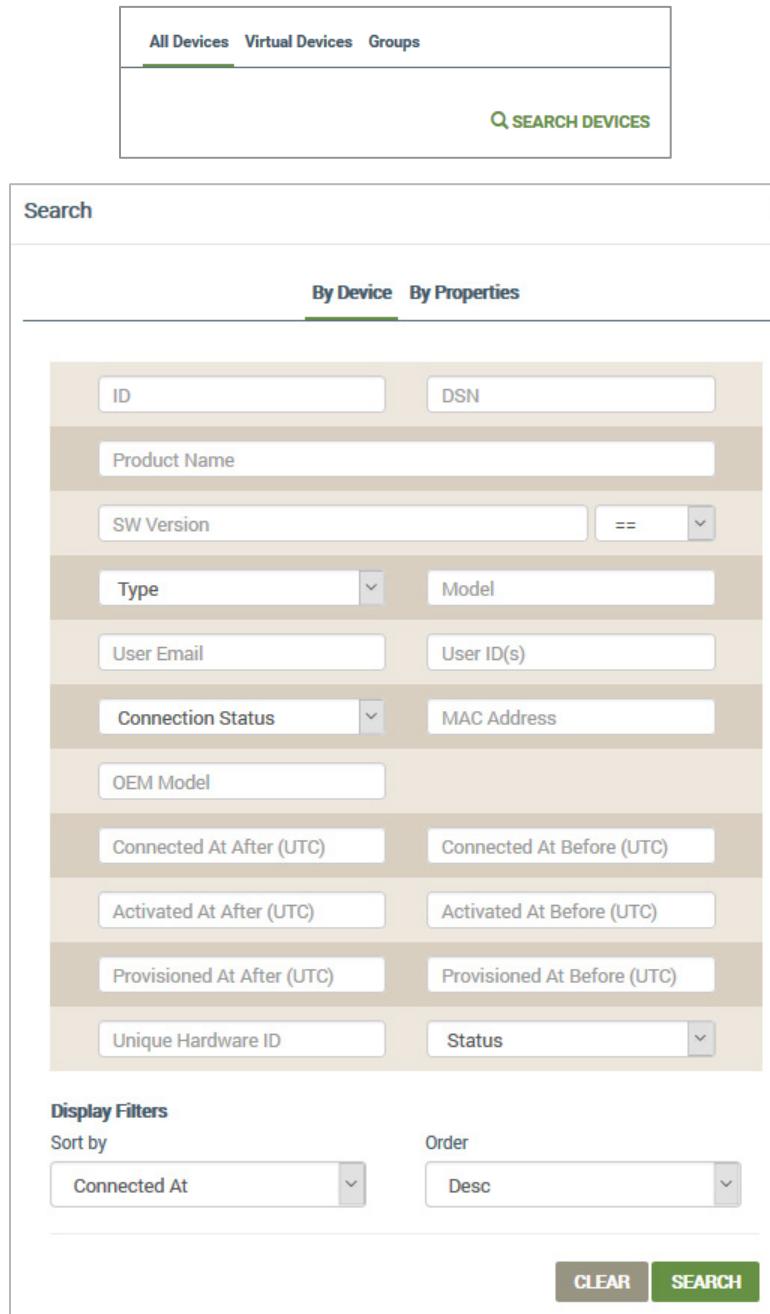
- ID (Ayla-assigned ID number for the group)
- Name (group name assigned when created)
- Devices (name of the devices assigned to this group)
- Create At (UTC) (time/date group was created)
- SW versions (software versions of devices in group)
- Last OTA job (UTC) (time/date last OTA job was pushed)

5.2 Search

5.2.1 All Devices Search Function (By Device)

NOTE To cancel a search, click the "X" icon (upper right corner of Search dialog box. To restore search conditions to blank, click **CLEAR**.

1. On the All Devices tab page, click **SEARCH DEVICES** (upper right) to open the Search dialog box.



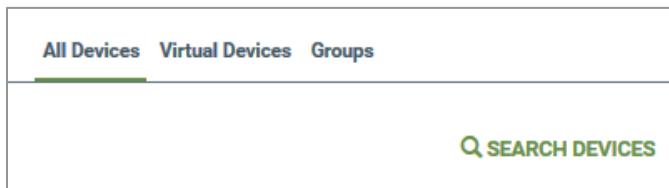
The screenshot shows the 'Search' dialog box. At the top, there are tabs for 'All Devices', 'Virtual Devices', and 'Groups', with 'All Devices' selected. Below the tabs is a search bar with the placeholder 'SEARCH DEVICES'. The main area is titled 'Search' and contains two tabs: 'By Device' (selected) and 'By Properties'. The 'By Device' tab has 12 search fields arranged in a grid. The 'By Properties' tab has 12 search fields arranged in a grid. At the bottom of the dialog box are 'Display Filters' for 'Sort by' (Connected At) and 'Order' (Desc). At the very bottom are 'CLEAR' and 'SEARCH' buttons.

2. In the Search dialog box, enter your search parameters:
 - ID (Ayla-provided ID number)
 - DSN (the customer Device Serial Number)
 - Product Name (user-friendly device name)
 - SW Version (software version associated with the device - drop-down options: (==, !=, like, not like, in)
 - Type drop-down:
 - Wifi (wifi devices only)
 - Gateway (gateway devices only)
 - Node (devices only)
 - Node (local) – (these are local devices, i.e., PaaS)
 - Model (model number of Ayla module)
 - User Email (email to use in search)
 - User ID(s) (user IDs to use in search, comma-separated)
 - Connection Status drop-down:
 - Offline (offline devices only)
 - Initializing (initializing devices only)
 - Online (online devices only)
 - MAC Address (IP Mac address)
 - OEM Model (model number of the customer host application board)
 - Connect At After (UTC) (connected at after date/time)
 - Connected At Before (UTC) (connected at before date/time)
 - Activated At After (UTC) (activated at after date/time)
 - Activated At Before (UTC) (activated at before date/time)
 - Provisioned At After (UTC) (provisioned at after date/time)
 - Provisioned At Before (UTC) (provisioned at before date/time)
 - Unique Hardware ID (IP of PaaS device)
 - Status drop-down:
 - Activated (device is activated)
 - Registered (device is registered)
 - Provisioned (Not Activated) (device is provisioned only and has not been activated)
 - In Display Filters, Sort by:
 - ID
 - OEM
 - OEM model
 - DSN

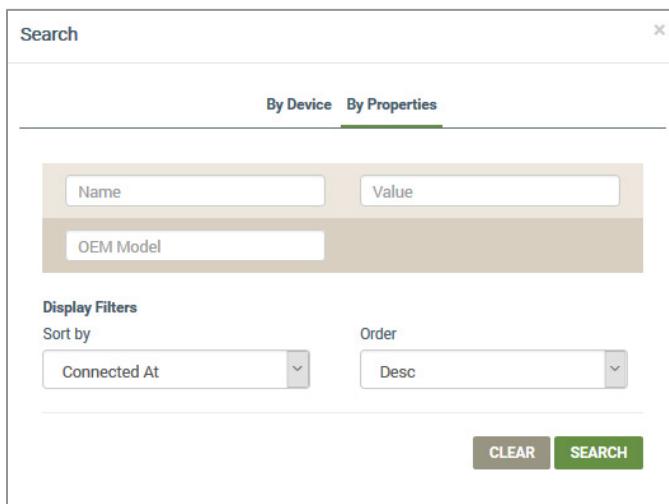
- Connected At
 - In Display Filters, Order:
 - Asc (ascending)
 - Desc (descending)
3. Click **SEARCH**.
4. Review the search results.

5.2.2 All Devices Search Function (By Properties)

1. On the All Devices tab page, click **SEARCH DEVICES**.



2. On the Search dialog box, click the **By Properties** tab to display the dialog box.

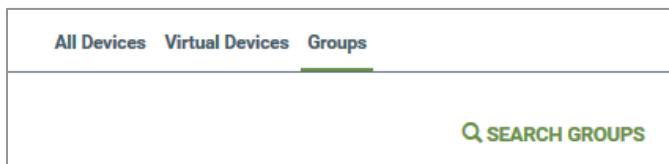


3. Enter the device search details:
- **Name** (property name of host application on device)
 - **Value** (value of property)
 - **OEM Model** (model number of the customer's host application board)
 - In **Display Filters**, Sort by:
 - ID
 - OEM
 - OEM model
 - DSN
 - Connected At

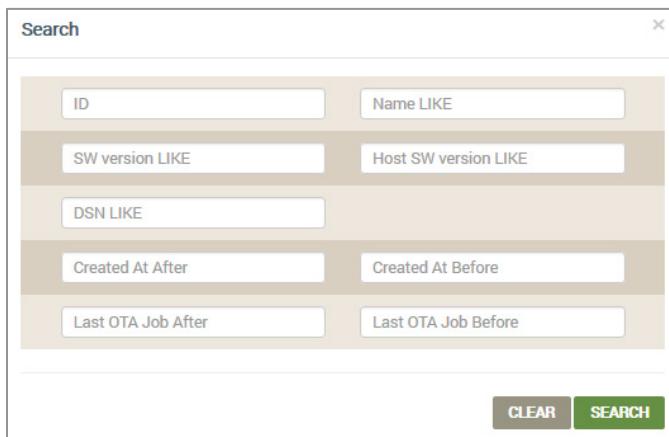
- In **Display Filters**, Order:
 - Asc (ascending)
 - Desc (descending)
4. Click **SEARCH**.
 5. Review the search results.

5.2.3 Search Groups

1. On the Groups tab page, click **SEARCH GROUPS**. (upper right).



2. On the Search dialog box, enter search criteria (can use wildcards):

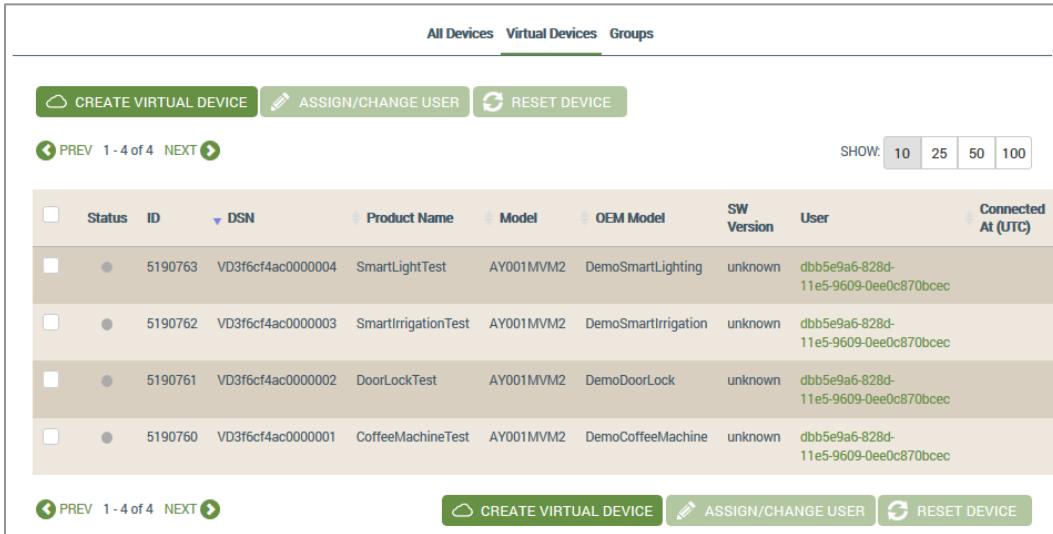


- **ID** (Ayla-assigned Group ID number)
- **Name LIKE** (group name)
- **SW version LIKE** (Ayla software version)
- **Host SW version LIKE** (module software version)
- **DSN LIKE** (the customer Device Serial Number)
- **Created At After** (created at after time/date)
- **Created At Before** created at before(time/date)
- **Last OTA Job After** (last OTA job after time/date)
- **Last OTA Job Before** (last OTA job before time/date)

3. Click **SEARCH**.
4. Review search results.

5.3 Virtual Devices (Developer Dashboard only)

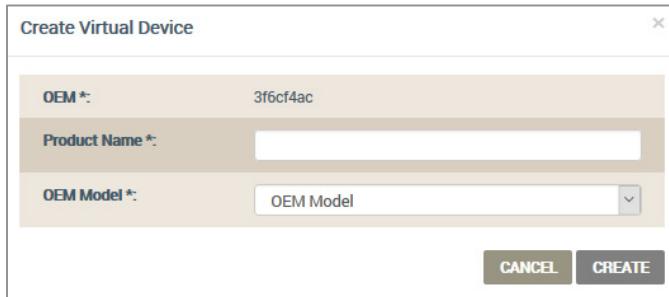
This is ONLY available on the Ayla Customer Dashboard for Developers. It is not available on the Ayla Customer Dashboard for Device Management. This is used to create and test devices before updates are pushed to installed devices. When a virtual device is created, it also appears in the **All Devices** tab.



	Status	ID	DSN	Product Name	Model	OEM Model	SW Version	User	Connected At (UTC)
<input type="checkbox"/>	●	5190763	VD3f6cf4ac0000004	SmartLightTest	AY001MVM2	DemoSmartLighting	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec	
<input type="checkbox"/>	●	5190762	VD3f6cf4ac0000003	SmartIrrigationTest	AY001MVM2	DemoSmartIrrigation	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec	
<input type="checkbox"/>	●	5190761	VD3f6cf4ac0000002	DoorLockTest	AY001MVM2	DemoDoorLock	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec	
<input type="checkbox"/>	●	5190760	VD3f6cf4ac0000001	CoffeeMachineTest	AY001MVM2	DemoCoffeeMachine	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec	

5.3.1 Create Virtual Device

1. On the Virtual Devices tab page, click **CREATE VIRTUAL DEVICE**. This shows the Create Virtual Device dialog box.

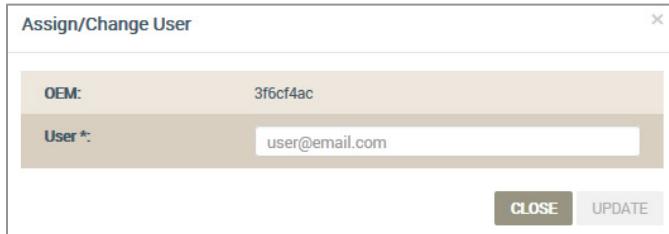


2. Enter the **Product Name** (user-friendly device name).
3. Select on the **OEM Model** drop-down.
4. Click **CREATE**.

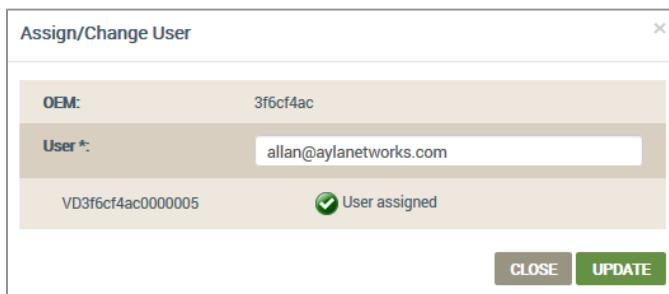
This adds the device to the Virtual Devices tab table listing. To edit device details, locate and click the device in the table listing.

5.3.2 Assign/Change Device User

1. On the Virtual Devices tab table listing, locate and select the device checkbox.
2. Click **ASSIGN/CHANGE USER**. This shows the Assign/Change User dialog box.



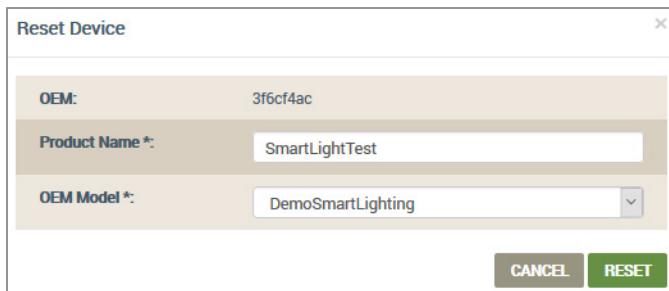
3. Enter the user email.
4. Click **UPDATE**. Confirmation is shown in the dialog box.



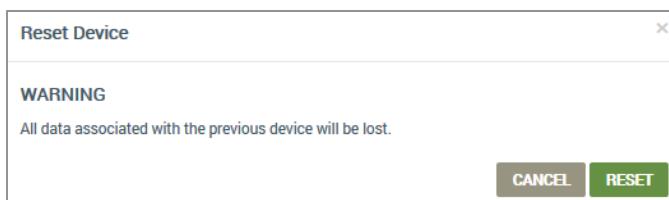
5. Close the dialog box.

5.3.3 Reset Device

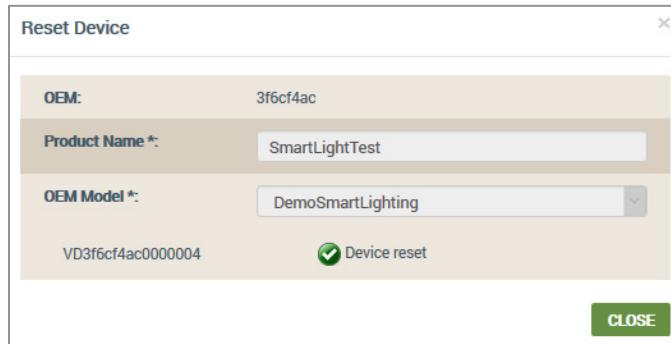
1. On the Virtual Devices tab table listing, locate and select the device checkbox.
2. Click **RESET DEVICE**. This shows the Reset Device dialog box.



3. Click **RESET**. This shows the Reset Device Confirmation dialog box.



4. On the new dialog box, click **RESET**. This shows the final confirmation on the Reset Device dialog box.



5. Close the dialog box.

5.3.4 View/edit Virtual Device - settings and functions

Follow procedures in [Device Navigation Menu - DEVICE](#)

5.4 Groups

Devices can be gathered into groups. This allows a group of devices to be updated at one time.

Groups							
		Devices		Created At (UTC)	SW versions	Last OTA job (UTC)	Actions
<input type="checkbox"/>	3957	Ayla Demo	10 devices in this group.	03/27/2017 at 7:18:35	2.0		
<input type="checkbox"/>	3919	test	2 devices in this group.	03/23/2017 at 20:53:05	2.0		
<input type="checkbox"/>	3822	myupdate	23162 devices in this group.	03/10/2017 at 18:52:20	2.0		
<input type="checkbox"/>	3771	testupload	10 devices in this group.	02/22/2017 at 18:55:14	2.0		
<input type="checkbox"/>	2029	demo_1	1 device in this group.	03/18/2016 at 20:15:56	2.0		
<input type="checkbox"/>	1680	Temp-Group-1221	2 devices in this group.	12/21/2015 at 15:57:11	1.0		
<input type="checkbox"/>	1487	group 1	2 devices in this group.	10/21/2015 at 1:27:51	1.0		
<input type="checkbox"/>	1454	XYThermostat	1 device in this group.	10/12/2015 at 23:50:44	unknown		
<input type="checkbox"/>	1437	Active	3318 devices in this group.	10/02/2015 at 19:38:52	1.0		
<input type="checkbox"/>	1382	testOTA	2950 devices in this group.	09/17/2015 at 20:15:20	2.0		

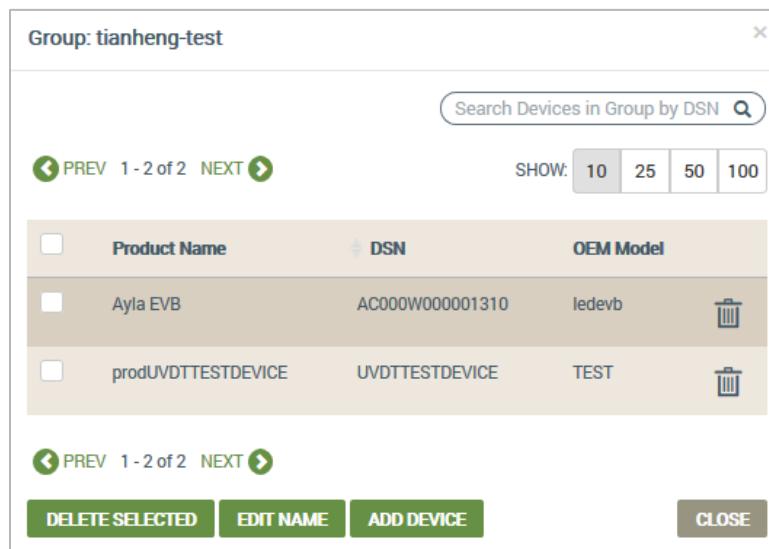
Table columns are:

- **ID** (Ayla-assigned Group ID)

- **Name** (group name)
- **Devices** (number of devices in the group)
- **Created At (UTC)** (when group was created)
- **SW versions** (drop-down list of device software versions in the group)
- **Last OTA job (UTC)** (date/time when the last OTA job was run on the group)
- **Actions** (Trash Can to delete the group)

5.4.1 Review Group Details

1. On the Groups tab, click on a group row. This shows the Group dialog box.

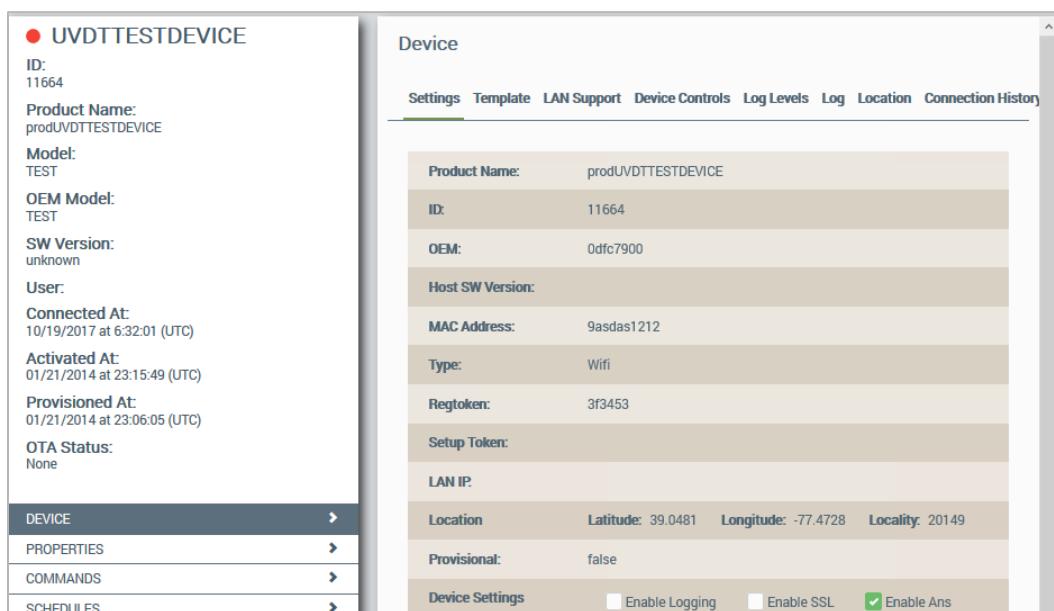


The dialog box is titled "Group: tianheng-test". It contains a search bar "Search Devices in Group by DSN" and a pagination area "PREV 1 - 2 of 2 NEXT" with a "SHOW" dropdown set to 10, 25, 50, 100. The main table lists two devices:

Product Name	DSN	OEM Model
Ayla EVB	AC000W000001310	ledevb
prodUVDTTESTDEVICE	UVDTTESTDEVICE	TEST

At the bottom are buttons: "DELETE SELECTED", "EDIT NAME", "ADD DEVICE", and "CLOSE".

2. Click on a row in the dialog box. This shows the Device details page. (To return to the Groups tab, use the Browser **Back** button.)



The left sidebar shows device details for "UVDTTESTDEVICE" with the following information:

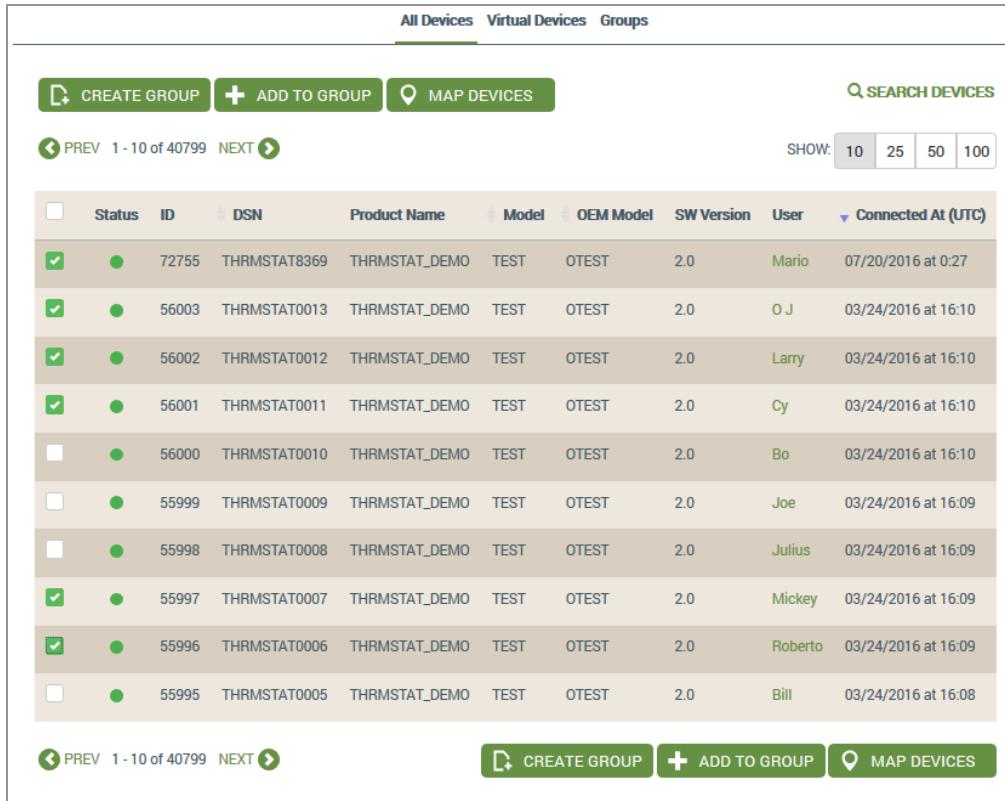
- ID: 11664
- Product Name: prodUVDTTESTDEVICE
- Model: TEST
- OEM Model: TEST
- SW Version: unknown
- User: (empty)
- Connected At: 10/19/2017 at 6:32:01 (UTC)
- Activated At: 01/21/2014 at 23:15:49 (UTC)
- Provisioned At: 01/21/2014 at 23:06:05 (UTC)
- OTA Status: None

The right panel is titled "Device" and shows the following tabs: Settings, Template, LAN Support, Device Controls, Log Levels, Log, Location, Connection History. The "Settings" tab is active, displaying device configuration:

Product Name:	prodUVDTTESTDEVICE
ID:	11664
OEM:	0dfc7900
Host SW Version:	(empty)
MAC Address:	9asdas1212
Type:	Wifi
Regtoken:	3f3453
Setup Token:	(empty)
LAN IP:	(empty)
Location	Latitude: 39.0481 Longitude: -77.4728 Locality: 20149
Provisional:	false
Device Settings	<input type="checkbox"/> Enable Logging <input type="checkbox"/> Enable SSL <input checked="" type="checkbox"/> Enable Ans

5.4.2 Create Groups

1. On the All Devices tab, select the checkbox for each device that will be part of the new Group.



	Status	ID	DSN	Product Name	Model	OEM Model	SW Version	User	Connected At (UTC)
<input checked="" type="checkbox"/>	●	72755	THRMSTAT8369	THRMSTAT_DEMO	TEST	OTEST	2.0	Mario	07/20/2016 at 0:27
<input checked="" type="checkbox"/>	●	56003	THRMSTAT0013	THRMSTAT_DEMO	TEST	OTEST	2.0	O J	03/24/2016 at 16:10
<input checked="" type="checkbox"/>	●	56002	THRMSTAT0012	THRMSTAT_DEMO	TEST	OTEST	2.0	Larry	03/24/2016 at 16:10
<input checked="" type="checkbox"/>	●	56001	THRMSTAT0011	THRMSTAT_DEMO	TEST	OTEST	2.0	Cy	03/24/2016 at 16:10
<input type="checkbox"/>	●	56000	THRMSTAT0010	THRMSTAT_DEMO	TEST	OTEST	2.0	Bo	03/24/2016 at 16:10
<input type="checkbox"/>	●	55999	THRMSTAT0009	THRMSTAT_DEMO	TEST	OTEST	2.0	Joe	03/24/2016 at 16:09
<input type="checkbox"/>	●	55998	THRMSTAT0008	THRMSTAT_DEMO	TEST	OTEST	2.0	Julius	03/24/2016 at 16:09
<input checked="" type="checkbox"/>	●	55997	THRMSTAT0007	THRMSTAT_DEMO	TEST	OTEST	2.0	Mickey	03/24/2016 at 16:09
<input checked="" type="checkbox"/>	●	55996	THRMSTAT0006	THRMSTAT_DEMO	TEST	OTEST	2.0	Roberto	03/24/2016 at 16:09
<input type="checkbox"/>	●	55995	THRMSTAT0005	THRMSTAT_DEMO	TEST	OTEST	2.0	Bill	03/24/2016 at 16:08

2. Click **CREATE GROUP**. This shows the Create Group dialog box.



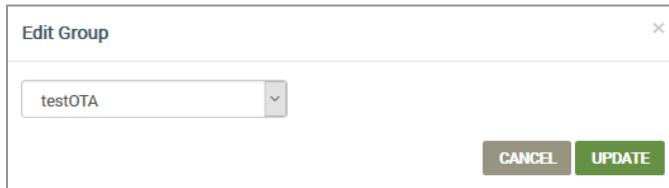
NOTE Valid characters for the group name are A-Za-z0-9_.

3. Enter a **Group name**.
4. Click **CREATE**.
5. To see the new Group, click the **Groups** tab.

5.4.3 Add Devices to a Group (from All Devices tab)

1. On the Device table listing, select devices to be added to an existing Group.
2. Click **ADD TO GROUP**.

3. On the Edit Group dialog box, select the group from the drop-down.

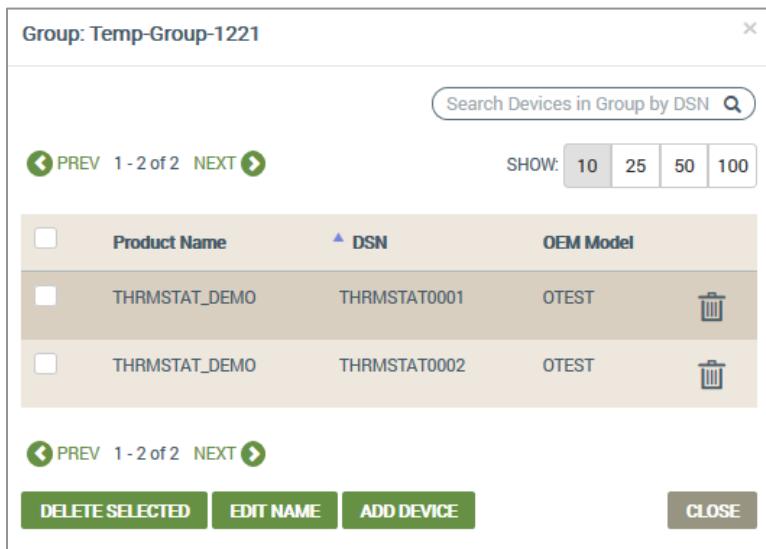


4. Click **UPDATE**.

5.4.4 Add Device to a Group (from Groups tab)

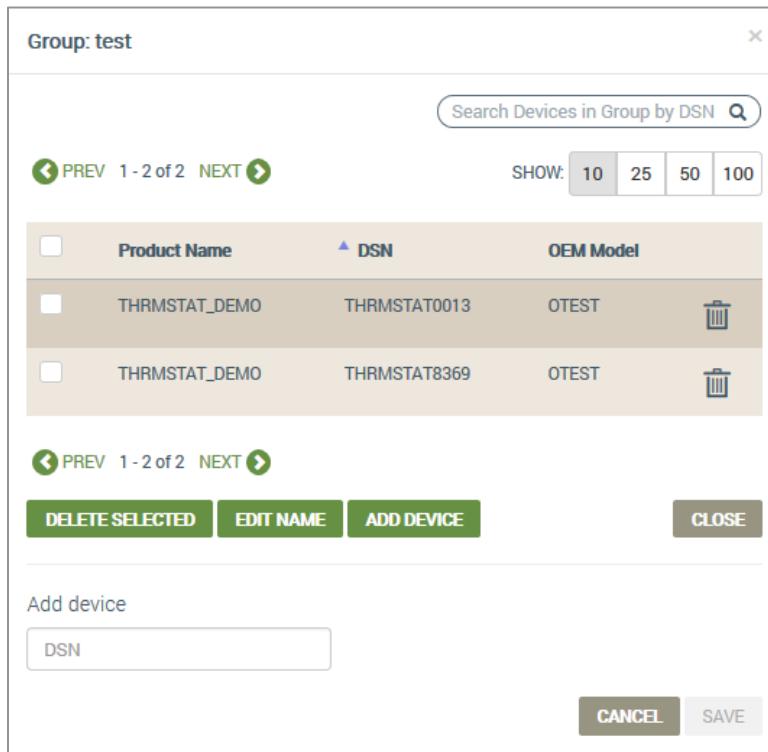
NOTE To add a device to a group on this tab, you must already know the DSN. To locate a DSN, on the All Devices tab, use search to locate the device. Write down the DSN.

1. On the **Groups** tab, locate and click on the Group to show the Group dialog box.



<input type="checkbox"/>	Product Name	▲ DSN	OEM Model	
<input type="checkbox"/>	THRMSTAT_DEMO	THRMSTAT0001	OTEST	
<input type="checkbox"/>	THRMSTAT_DEMO	THRMSTAT0002	OTEST	

2. Click **ADD DEVICE**. This shows the Add device section.



<input type="checkbox"/>	Product Name	▲ DSN	OEM Model	
<input type="checkbox"/>	THRMLSTAT_DEMO	THRMLSTAT0013	OTEST	
<input type="checkbox"/>	THRMLSTAT_DEMO	THRMLSTAT8369	OTEST	

ADD DEVICE

Add device

DSN

CANCEL **SAVE**

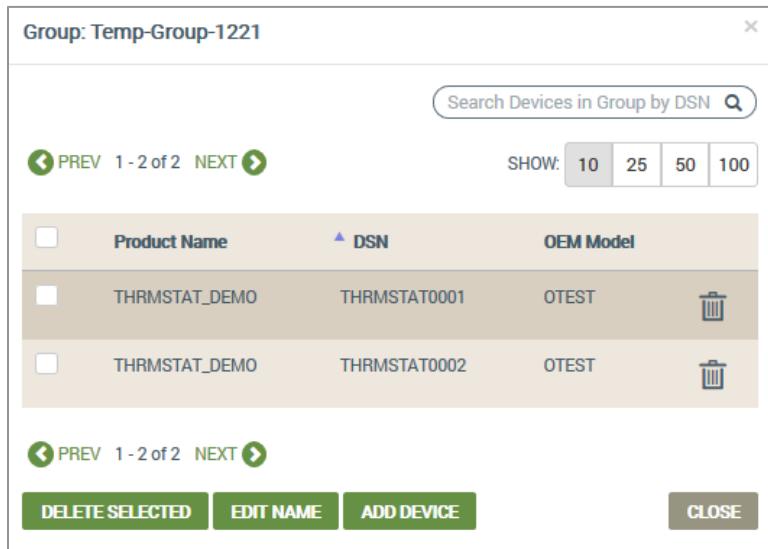
3. In the Add device section, enter the DSN.

4. Click **SAVE**.

This adds the device to the Group. Repeat, as needed.

5.4.5 Edit Group – Delete Devices

1. On the Navigation Panel > Devices page, click **Groups** tab.
2. Locate and click on the Group. This shows the Group dialog box.



<input type="checkbox"/>	Product Name	▲ DSN	OEM Model	
<input type="checkbox"/>	THRMLSTAT_DEMO	THRMLSTAT0001	OTEST	
<input type="checkbox"/>	THRMLSTAT_DEMO	THRMLSTAT0002	OTEST	

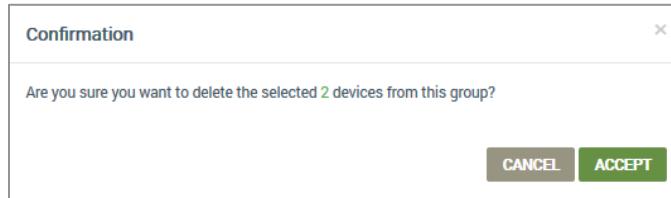
ADD DEVICE

Add device

DSN

DELETE SELECTED **EDIT NAME** **ADD DEVICE** **CLOSE**

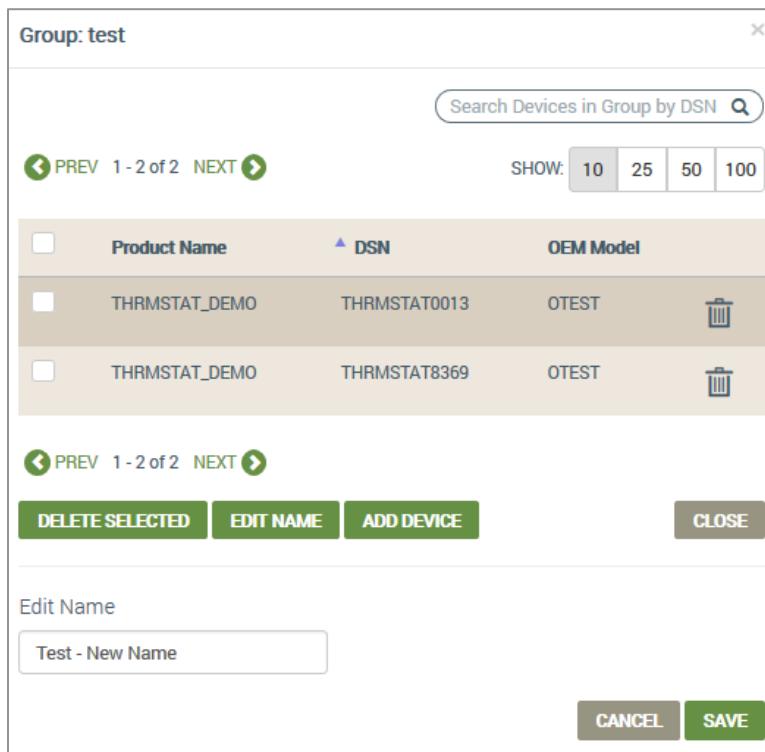
3. To delete selected devices from the group, select checkbox next to the devices to be changed.
4. Click **DELETE SELECTED**. Alternately, to delete devices one-by-one, click the **Trash Can** icon.
5. On the Confirmation dialog box, click **ACCEPT**.



6. When done, Click **CLOSE**.

5.4.6 Edit Group – Edit Name

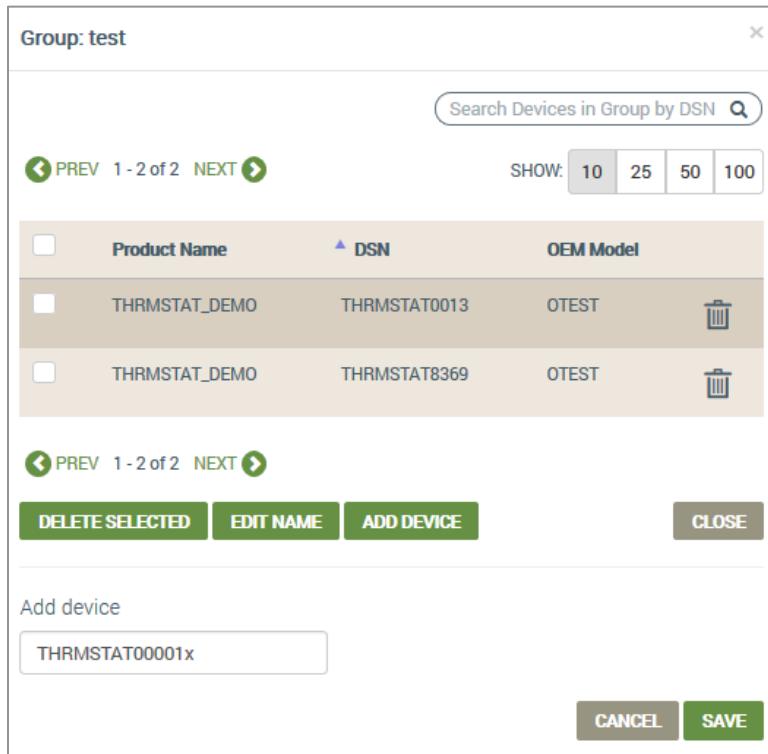
1. On the **Groups** tab, locate and click on the Group.
2. On the Group dialog box, click **EDIT NAME**.



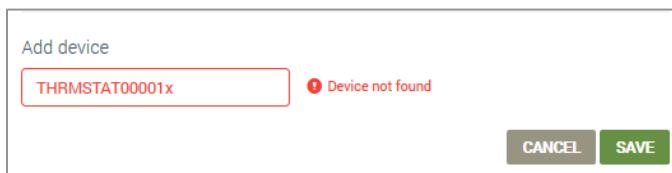
3. In the drop-down section, **Edit Name** text box, enter the new group name.
4. Click **SAVE**.

5.4.7 Edit Group – Add Device

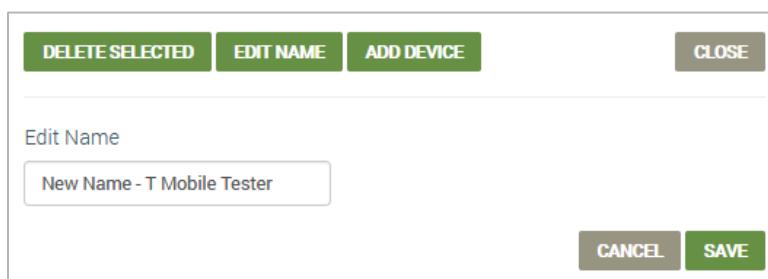
1. On the **Groups** tab, locate and click on the Group. This shows the Group dialog box.
2. Click **ADD DEVICE**.



3. In **Add device** textbox, enter the device DSN and click **SAVE**.
4. If the device does not exist, this is the response. Verify the correct DSN and re-enter.

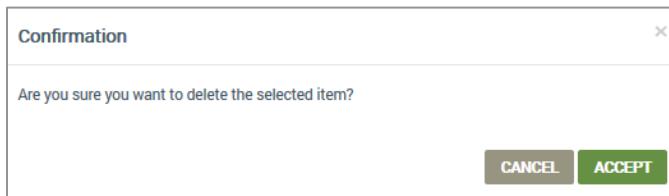


5. To remove a device from the group, select the device and click **DELETE SELECTED**.
6. To change the group name, click **EDIT NAME**. Enter new name and click **SAVE**.



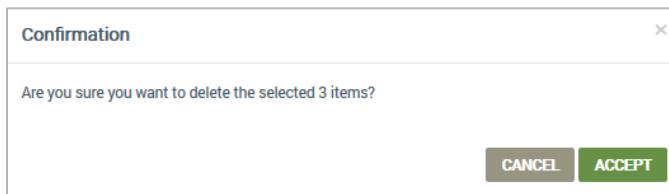
5.4.8 Delete one Group

1. On the Devices page, click **Groups** tab.
2. Locate the Group.
3. Click the **Trash Can**  icon.
4. On the Confirmation dialog box, click **ACCEPT**.



5.4.9 Delete multiple Groups

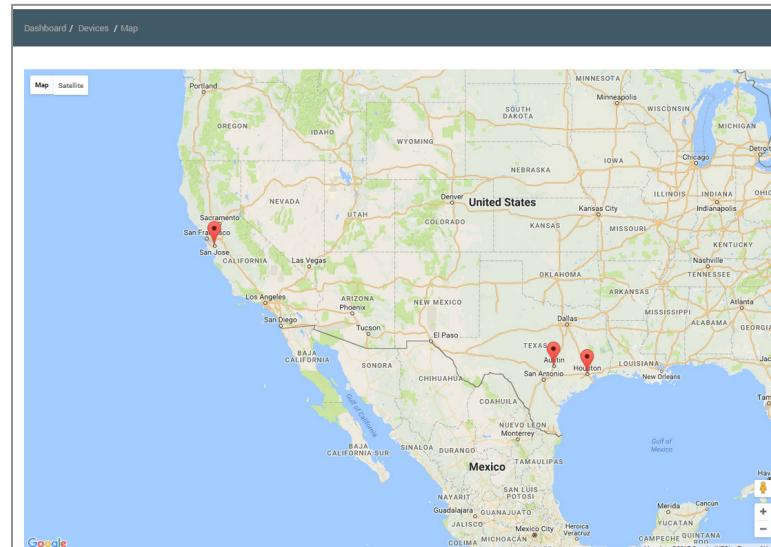
1. On the Devices page, click **Groups** tab.
2. Select checkboxes next to each group to be deleted.
3. Click **DELETE SELECTED**.
4. On the Confirmation dialog box, click **ACCEPT**.



5.5 Map Devices

You can view the geographic locations of selected devices and device details.

1. On Devices page, select checkboxes for one or more devices.
2. Click **MAP DEVICES** to show map of your device location(s). The map can be zoomed in or out.



3. To show details on a mapped device, click the device location pin on the map.

● **THRMSSTAT0009**

ID: 55999

Product Name: THRMSSTAT_DEMO

Model: TEST

OEM Model: OTEST

SW Version: 2.0

User: 9a7cd5d0-828d-11e5-9609-0ee0c870b0ec

Connected At: 03/24/2016 at 16:09:47 (UTC)

Activated At: 08/21/2015 at 8:35:29 (UTC)

Provisioned At: 07/22/2015 at 6:30:56 (UTC)

OTA Status: pending Myupdate

DEVICE ▶

- PROPERTIES** ▶
- COMMANDS** ▶
- SCHEDULES** ▶
- TIMEZONES** ▶
- NOTIFICATIONS** ▶
- METADATA** ▶
- AYLA IMAGES** ▶
- HOST MCU IMAGES** ▶
- ALERT HISTORY** ▶

Device

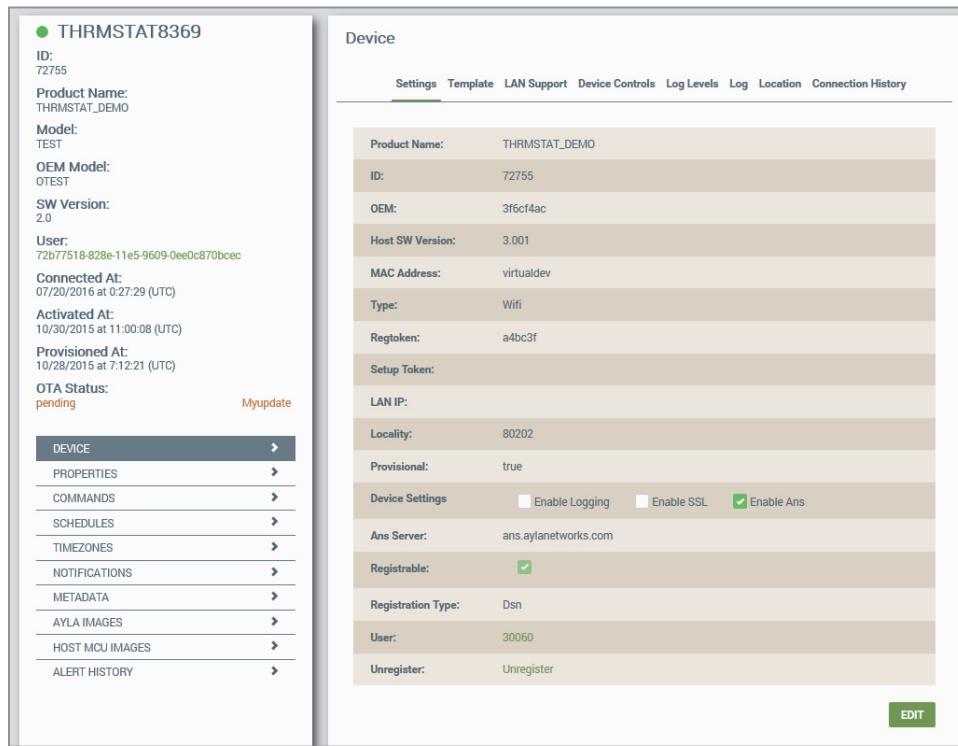
Settings Template LAN Support Device Controls Log Levels Log Location Connection History

Product Name:	THRMSSTAT_DEMO
ID:	55999
OEM:	3f6cf4ac
Host SW Version:	3.001
MAC Address:	virtualdev
Type:	Wifi
Regtoken:	f1d4ea
Setup Token:	
LAN IP:	
Locality:	95112
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:	Dsn
User:	14618
Unregister:	Unregister

EDIT

5.6 Device Navigation Details – view & edit

On the Device table listing, click a device. This shows a double-panel view about the device.



Device Summary (Left Panel):

- Product Name:** THRMSTAT_DEMO
- ID:** 72755
- Model:** TEST
- OEM Model:** OTEST
- SW Version:** 2.0
- User:** 72b77518-828e-11e5-9609-0ee0c870bcce
- Connected At:** 07/20/2016 at 0:27:29 (UTC)
- Activated At:** 10/30/2015 at 11:00:08 (UTC)
- Provisioned At:** 10/28/2015 at 7:12:21 (UTC)
- OTA Status:** pending

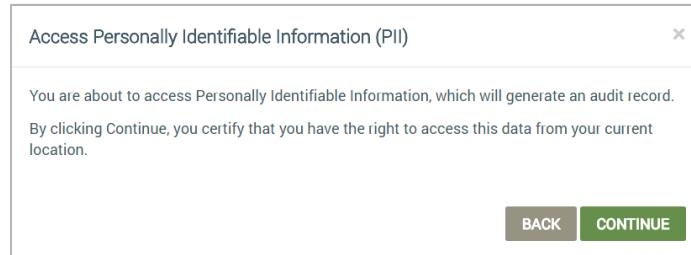
Device Details (Right Panel):

Device	
Setting	Value
Product Name	THRMSTAT_DEMO
ID	72755
OEM	3f6cf4ac
Host SW Version	3.001
MAC Address	virtualdev
Type	Wifi
Regtoken	a4bc3f
Setup Token	
LAN IP	
Locality	80202
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	Dsn
User	30060
Unregister	Unregister

In the Device Summary section (left panel) are general details about the device.

- Status of device:**
 - Red icon (device is not connected to Ayla Cloud)
 - Green icon (device is connected to Ayla Cloud)
 - Gray icon (device has not connected to Ayla Cloud – and is not activated)
- Name of device** (name of the selected device next to status indicator)
- ID** (Ayla-provided ID number when device is registered)
- Product Name** (user-friendly device name)
- Model** (model number of Ayla module)
- SW Version** (software version associated with the device)
- User** (user name associated with the device) You can click on the information in this field to open the Details tab of the User page for this particular user.

IMPORTANT! If you are a customer in the EU, the [GDPR \(privacy\) feature](#) should be enabled so that Personal Identifiable Information (PII) is not shown anywhere in the dashboard. When GDPR is enabled, the following message regarding PII displays when you click on this user information. Click **Continue** if you accept the conditions with regard to showing PII in the Details tab for this user.



- **Connected At** (time the device connected to Ayla Cloud service)
- **Activated At** (when device first connects to Ayla Cloud service – after it is manufactured.)
- **Provisioned At** (when the device was authorized to connect to Ayla Cloud service)
- **OTA Status** (status of the last OTA job)

In the Device Navigation Menu are links to provide granular details.



5.6.1 Device Navigation Menu – DEVICE

This shows device features with some editing capability.

● **THRSTAT8369**

ID: 72755

Product Name: THRSTAT_DEMO

Model: TEST

OEM Model: OTEST

SW Version: 2.0

User: 72b77518-828e-11e5-9609-0ee0c870bcec

Connected At: 07/20/2016 at 0:27:29 (UTC)

Activated At: 10/30/2015 at 11:00:08 (UTC)

Provisioned At: 10/28/2015 at 7:12:21 (UTC)

OTA Status: pending Myupdate

- DEVICE** ▶
- PROPERTIES ▶
- COMMANDS ▶
- SCHEDULES ▶
- TIMEZONES ▶
- NOTIFICATIONS ▶
- METADATA ▶
- AYLA IMAGES ▶
- HOST MCU IMAGES ▶
- ALERT HISTORY ▶

Device

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

Product Name:	THRSTAT_DEMO
ID:	72755
OEM:	3f6cf4ac
Host SW Version:	3.001
MAC Address:	virtualdev
Type:	Wifi
Regtoken:	a4bc3f
Setup Token:	
LAN IP	
Locality:	80202
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:	Dsn
User:	30060
Unregister:	Unregister

EDIT

DEVICE – Settings tab

This includes device settings.

Device

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

Product Name:	Ayla EVB
ID:	28345
OEM:	0dfc7900
Host SW Version:	
MAC Address:	cc52afbe09c1
Type:	Wifi
Regtoken:	92114c
Setup Token:	aRrVOAzP
LAN IP:	192.168.1.8
Location	Latitude: 38.0 Longitude: -97.0 Locality: 67123
Provisional:	false
Device Settings	<input type="checkbox"/> Enable Logging <input type="checkbox"/> Enable SSL <input checked="" type="checkbox"/> Enable Ans
Ans Server:	staging-ans.ayladev.com
Registrable:	<input checked="" type="checkbox"/>
Registration Type:	Same-LAN
User:	dfbfe356-79b1-11e5-94b1-0ea626ed4846
Unregister:	Unregister
Unique Hardware Id:	

[EDIT](#)

NOTE If the device is configured as a local device (i.e., PaaS), the Type will be Node and Unique Hardware Id will be populated.

1. To update details, click **EDIT**.

Device

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

Product Name:	AC000W000101534
ID:	250523
OEM:	0dfc7900
Host SW Version:	
MAC Address:	00aefa08608b
Type:	Wifi
Regtoken:	14f10c
Setup Token:	YMjMGbSP
LAN IP.	172.16.25.61
Location	Latitude: 37.3961 Longitude: -121.9617 Locality: 95054
Provisional:	false
Device Settings	<input checked="" type="checkbox"/> Enable Logging <input checked="" type="checkbox"/> Enable SSL <input checked="" type="checkbox"/> Enable Ans
Ans Server:	staging-ans.ayladev.com
Registrable:	<input checked="" type="checkbox"/>
Registration Type:	Same-LAN
User:	f4d222c4-3cc3-11e6-8e1a-0ed9af4bba3d
Unregister:	Unregister
Unique Hardware Id:	
CANCEL UPDATE	

2. Editable fields are:

- **Product Name** (user-friendly device name)
- **Device Settings** checkboxes:
 - **Enable Logging** (The device sends logs to the Ayla Log Service, and the log details are maintained for 30 days. This is useful for diagnosing field problems.)
 - Select (logging is active)
 - Unselect (no logging)
 - **Enable SSL (obsolete and will be removed in future release)**
 This is no longer used. All Ayla Cloud communications are SSL enabled.
 - **Enable ANS (Apple Notification Service)** (not used)
- **Ans Server** (Application Notification Service) (not used)

- **Registrable** checkbox
Select (device can be registered)
Unselect (device cannot be registered)
- **Registration Type** drop-down:
 - Same-LAN
 - Button-Push
 - AP-Mode
 - Display
 - Dsn
 - None
- **User** (user name associated with the device) Click user ID to review [End User details](#)
- **Unregister** (click **Unregister** to display Confirmation dialog box, then click **ACCEPT** to unregister device)



3. When done, click **UPDATE**.

DEVICE – Template tab

This describes the device template details.

Device

Settings	Template	LAN Support	Device Controls	Log Levels	Log	Location	Connection History
ID: 1438							
Version: *							
Visibility: oem							
OEM: 3f6cf4ac							
User ID: 13966							
Model: Demo							
Name: Demo_smart_thermostat							
Description: Ayla demo smart thermostat							
Product Name:							
Product Class:							
Tags:							
Registration Type: Dsn							

EDIT

1. To update details, click **EDIT**.
2. Editable fields are:
 - **Associate a template** drop-down (select a template from the drop-down listing).
3. When done, click **UPDATE**.

DEVICE – LAN Support tab

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.

Device

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

Keep Alive: 30

Key Lifetime: 15552000

Auto-sync:

DISABLE **EDIT**

1. To update details, click **EDIT**.

Device

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

Keep Alive:

Key Lifetime:

Auto-sync:

CANCEL **UPDATE**

2. Set **Keep Alive** (milliseconds) value.

Keep Alive is the UDP keep alive beacon time which is how often the mobile app sends a heartbeat to the module to keep the session alive; otherwise the device will terminate the session.

3. Set **Key Lifetime** (milliseconds) value.

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 must reconnect to the cloud before given a new set of LAN keys.

4. **Auto-sync** checkbox:

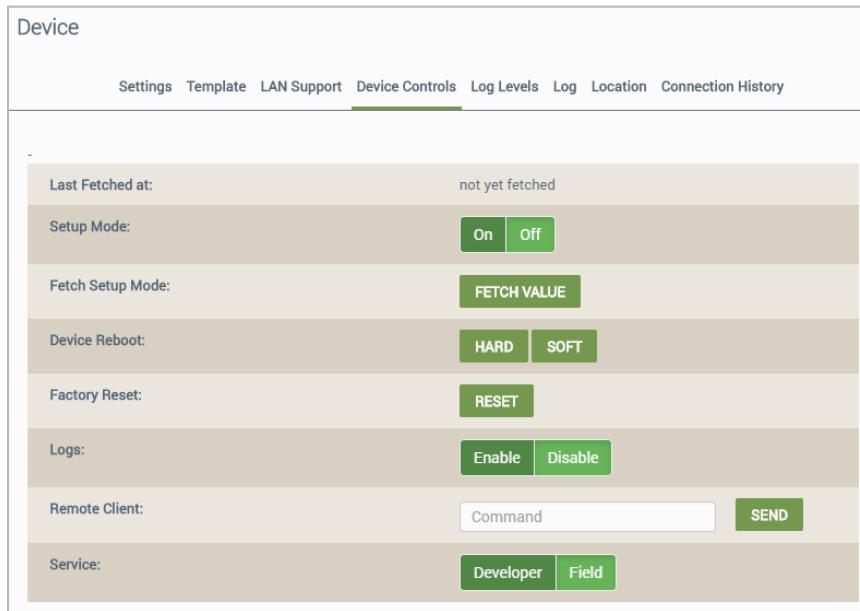
- Select (automatically sync variables on reconnect)
- Unselect (no syncing)

5. When done, click **UPDATE**.

To disable LAN Support, click **DISABLE**.

DEVICE – Device Controls tab

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.



The screenshot shows the 'Device' tab selected in the navigation bar. Below the navigation bar, there is a list of controls with their current status and available actions:

- Last Fetched at: not yet fetched
- Setup Mode: On (button: Off)
- Fetch Setup Mode: button (FETCH VALUE)
- Device Reboot: HARD (button: SOFT)
- Factory Reset: button (RESET)
- Logs: Enable (button: Disable)
- Remote Client: Command (button: SEND)
- Service: Developer (button: Field)

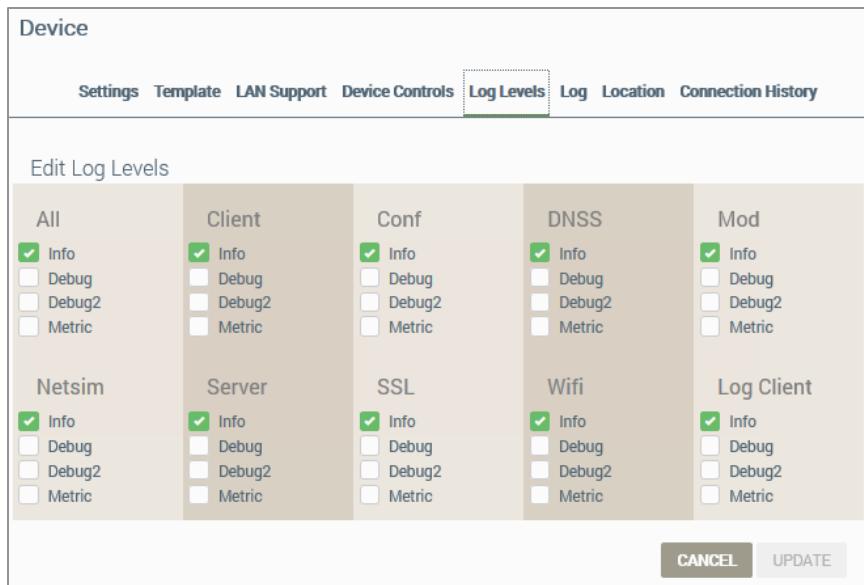
To update details:

1. For **Setup Mode** click:
 - o **On** (if selected and Fetch Setup Mode is clicked, device goes into Setup Mode)
 - o **Off** (excludes Setup Mode)
2. For **Fetch Setup Mode**, click:
 - o **FETCH VALUE** (sends email with the value)
3. For **Device Reboot**, click:
 - o **Hard** (device does a hard reboot)
 - o **Soft** (device does a soft reboot)
4. For **Factory Reset**, click:
 - o **RESET** (returns device to initial factory state)
5. For **Logs**, click:
 - o **Enable** (to capture debugging details defined in Log Levels, and the log details are maintained for 30 days. This uses additional compute resources.)
 - o **Disable** (no logging)
6. For **Remote Cli**, click:
 - o Enter **Command** (enter CLI command)
 - o Click **SEND** (invokes command on device)

7. For **Service**, click either of the following: (Only in Developer environment of the dashboard)
 - o **Developer** (changes device to be on Developer service)
 - o **Field** (changes device to be on Field service)

DEVICE – Log Levels tab

This sets the log levels. (Log details are maintained for 30 days.)

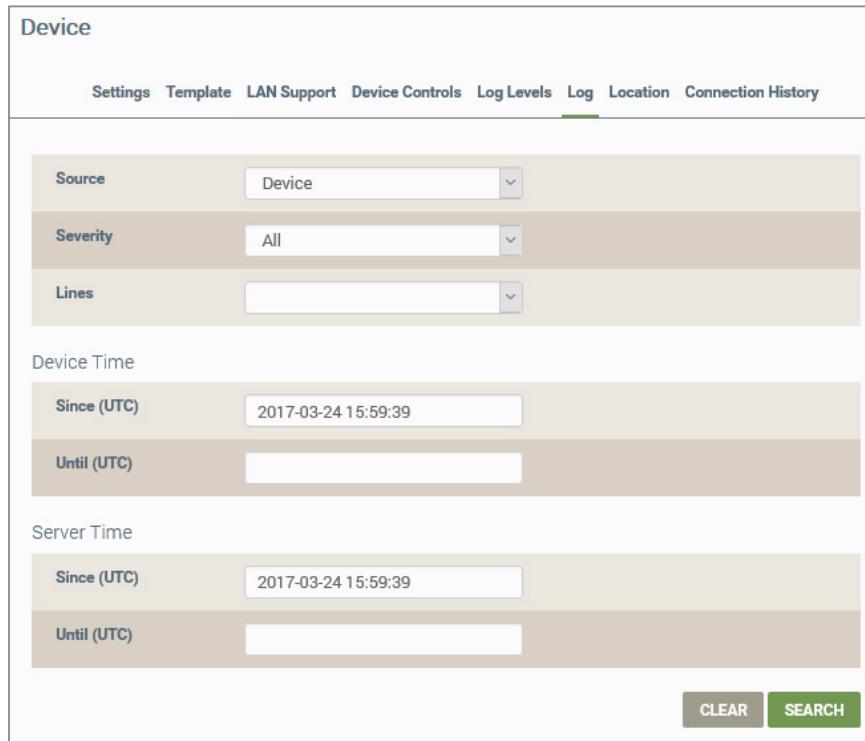


1. To update details, select checkboxes.
2. Individual sections are:
 - o **All** (the selection here applies to all other sections)
 - o **Client** (device to service and mobile LAN Agent logs)
 - o **Conf** (configuration logs)
 - o **DNSS** (DNS and mDNS server logs)
 - o **Mod** (logs not included in other logs)
 - o **Netsim** (no longer supported – any selected setting is ignored)
 - o **Server** (internal web server logs)
 - o **SSL** (SSL or TLS logs)
 - o **Wifi** (Wi-Fi logs)
 - o **Log Client** (logs sent to server)
3. To individually set logging for individual sections, select checkboxes:
 - o **Info** (general messages (not errors or warnings))
 - o **Debug** (more detailed information as well as warnings and errors)
 - o **Debug2** (lower level detailed information as well as warnings and errors)
 - o **Metric** (data on connections and internal performance information)
4. When done, click **UPDATE**.

DEVICE – Log tab

Users can access and download the logs from the Log tab to a local destination. (Log details are maintained for 30 days.)

To search the logs:

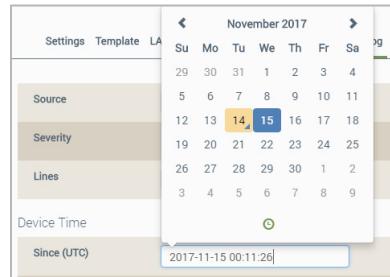


The screenshot shows the 'Log' tab of the Ayla Customer Dashboard. The interface is divided into several sections:

- Source:** A dropdown menu set to 'Device'.
- Severity:** A dropdown menu set to 'All'.
- Lines:** A dropdown menu set to '100'.
- Device Time:**
 - Since (UTC):** A text input field containing '2017-03-24 15:59:39'.
 - Until (UTC):** An empty text input field.
- Server Time:**
 - Since (UTC):** A text input field containing '2017-03-24 15:59:39'.
 - Until (UTC):** An empty text input field.
- Buttons:** 'CLEAR' and 'SEARCH' buttons, with 'SEARCH' being highlighted in green.

1. Select from **Source** drop-down:
 - Device
 - Mobile
2. Select from **Severity** drop-down
 - All
 - Warning
 - Info
 - Debug
 - Error
3. Select from **Lines** drop-down (number of lines to provide from the log request)
 - 100
 - 500
 - 1000
 - 5000

4. On the Device Time section: (click in the text box and choose from the pop-up calendar)

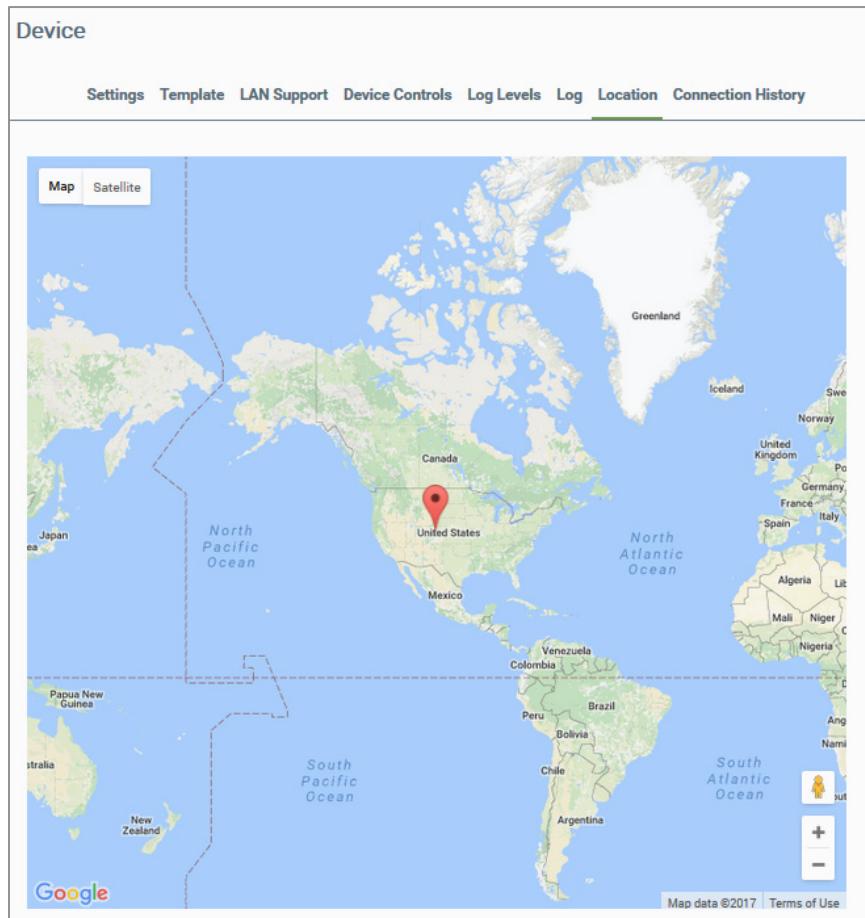


- Select on the **Since (UTC)** calendar.
 - Select on the **Until (UTC)** calendar.
5. On the Server Time section:
- Select on the **Since (UTC)** calendar.
 - Select on the **Until (UTC)** calendar.
6. Click **SEARCH**.
7. On Log Results dialog box, review results.



DEVICE – Location tab

This shows the location of the device on a map.



1. Use the Plus  and Minus  buttons to zoom in and out of the map location.
2. Drag the Person  icon to the map to see a street view.
3. Click Map and select Terrain checkbox. This shows terrain details (mountains, lakes, etc.).
4. Click Satellite and select Labels checkbox. This shows the area with names.

DEVICE – Connection History tab

This shows a list of the connection event time in UTC and the status of the device.

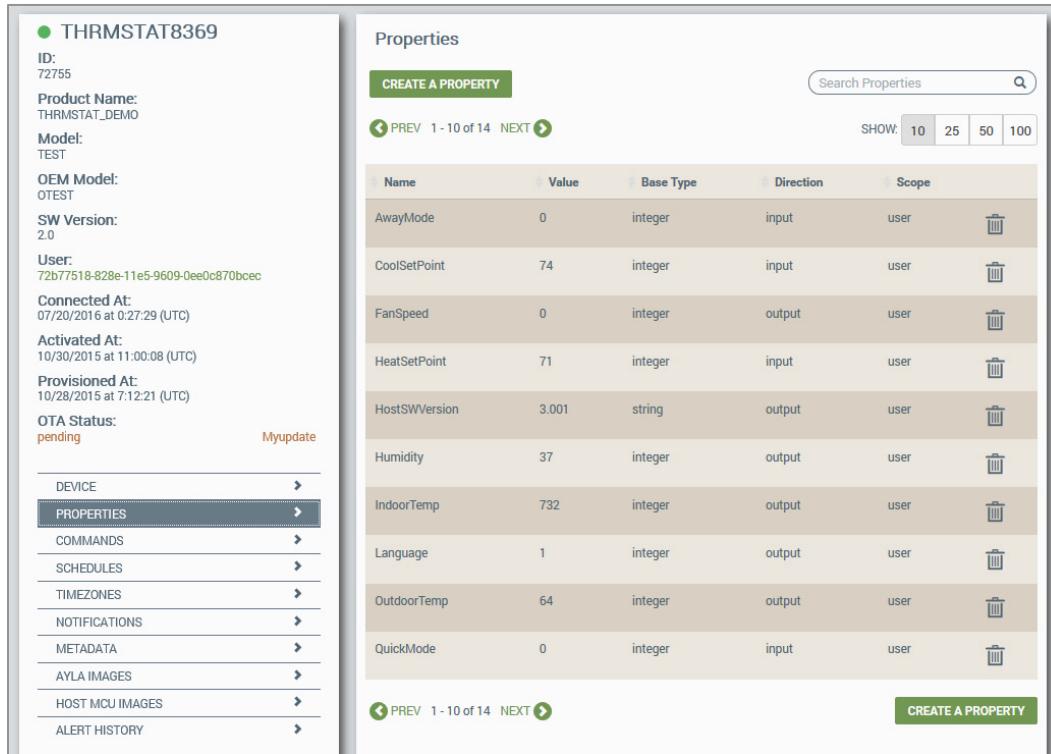
Device	
Settings Template LAN Support Device Controls Log Levels Log Location Connection History	
PREV	1 - 10 of 416 NEXT
SHOW:	10 25 50 100
Event Time (UTC)	Status
10/02/2016 at 2:56:49	Initializing
10/01/2016 at 3:08:36	Initializing
09/30/2016 at 3:03:08	Initializing
09/29/2016 at 3:10:27	Initializing
09/28/2016 at 3:07:50	Initializing
09/27/2016 at 3:13:08	Initializing
09/26/2016 at 3:05:50	Initializing
09/25/2016 at 3:00:09	Initializing
09/24/2016 at 2:59:00	Initializing
09/23/2016 at 3:03:02	Initializing

Table columns are:

- **Event Time (UTC)** (date/time connection event occurred)
- **Status** (status of device when event occurred)

5.6.2 Device Navigation Menu – PROPERTIES

On this page, you can view all device properties. New properties can be created and edited, as needed. Click on a property for more details.



Name	Value	Base Type	Direction	Scope	Action
AwayMode	0	integer	input	user	
CoolSetPoint	74	integer	input	user	
FanSpeed	0	integer	output	user	
HeatSetPoint	71	integer	input	user	
HostSWVersion	3.001	string	output	user	
Humidity	37	integer	output	user	
IndoorTemp	732	integer	output	user	
Language	1	integer	output	user	
OutdoorTemp	64	integer	output	user	
QuickMode	0	integer	input	user	

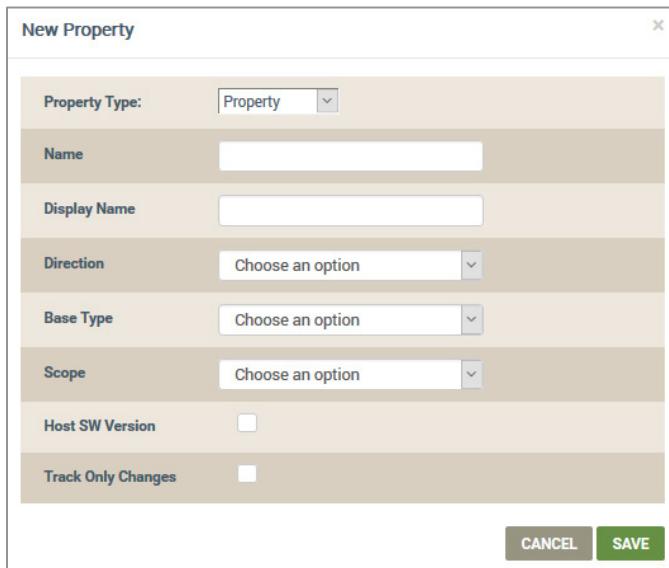
Table columns are:

- **Name** (name of the property)
- **Value** (default value of the property)
- **Base Type** (type of the property – integer, string, boolean, decimal, file)
- **Direction** (direction property value changes - input, output)
- **Scope** (who can see the property - user, customer)
- **Action** (action that can be applied to this property)

Create Device Property

To add another property to the selected device:

1. Click **CREATE A PROPERTY**. This shows the New Property dialog box.



2. Select on **Property Type** drop-down:

- o **Property** (property uses a data type – string, integer, boolean, etc.)
- o **FeedProperty** (information is from an external source) If selected, four additional fields display:

Feed Type & Feed Subtype:

- **Air Quality > Feed Subtype** drop-down

Sulphur Dioxide (SO2)

Nitrogen Dioxide (NO2)

Ozone (O3)

Carbon Monoxide (CO)

PM10

PM2.5

- **Current Weather > Feed Subtype** drop-down:

Relative Humidity

Temperature in Celsius

Temperature in Fahrenheit

Data Feed Update Interval drop-down

30 minutes

1 hour

2 hours

Base Type drop-down

Decimal (only option)

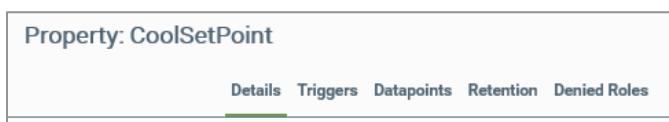
3. Enter **Name** (name of property) (max: 27 characters)

NOTE Property name restrictions: maximum: 27 characters. Upper/lower case letters, numbers, hyphens, underscores. No spaces or special characters allowed. First character must be alphabetic.

4. Enter **Display Name** (user-friendly name)
5. Select on **Direction** drop-down:
 - To Device** (allows both the Ayla Enabled Device and Third Party Application API Client to update a given Device Property)
 - From Device** (only allows the Ayla Enabled Device to update a given Device Property)
6. Select on **Base Type** drop-down:
 - integer** (numeric value)
 - string** (set of alphanumeric characters)
 - boolean** (true or false)
 - decimal** (binary coded decimal)
 - float**
 - file** (file to be attached)
7. Select on **Scope** drop-down:
 - user** (user and Ayla customer sees property)
 - oem** (only the Ayla customer sees property)
8. Select/unselect **Host SW Version** checkbox.
Select (if ADS considers this as the Host MCU software version)
Unselect (ADS ignores version)
9. Select/unselect **Track Only Changes** checkbox.
Select (log should track changes to this property)
Unselect (do not track changes)
10. When done, click **SAVE**.

About Property Details – Available Tabs

When a device property is clicked, another panel shows more information about that property.



View/edit Property Details – Details tab

1. On the Property panel, click the **Details** tab.

Property: CoolSetPoint

Details
Triggers
Datapoints
Retention
Denied Roles

ID	3114598
Name	CoolSetPoint
Display Name	CoolSetPoint
Base Type	integer
Direction	input
Data Updated At	03/04/2017 at 16:18:29 (UTC)
Updated At	
Scope	user
Value	74
Host SW Version	false
Track Only Changes	false
Time Series	false

CLOSE
EDIT

2. To change values, click **EDIT**.
3. Edit these fields:
 - **Name** (property name)
 - **Display Name** (user-friendly property name)
 - **Direction** drop-down:
 - **input** (allows both the Ayla Enabled Device and Third Party Application API Client to update a given Device Property)
 - **output** (only allows the Ayla Enabled Device to update a given Device Property)
 - **Scope** drop-down:
 - **user** (user & the Ayla customer sees property)
 - **oem** (only the Ayla customer sees property)
 - **Host SW Version** checkbox

Select (host software version affects this property)

Unselect (host software version does not apply)
 - **Track Only Changes** checkbox

Select (log only changes in the property state)

- Unselect (do not log property state changes)
- **Time Series** checkbox
- Select (queue datapoints to device if the device disconnects – on reconnection, datapoints are sent)
- Unselect (do not save datapoints if device disconnects)

4. Click **SAVE**.

View/edit Property Details – Triggers tab

1. On the Property panel, click the **Triggers** tab.

Property: CoolSetPoint

Details Triggers Datapoints Retention Denied Roles

Search Triggers

PREV 1 - 10 of 20 NEXT SHOW: 10 25 50 100

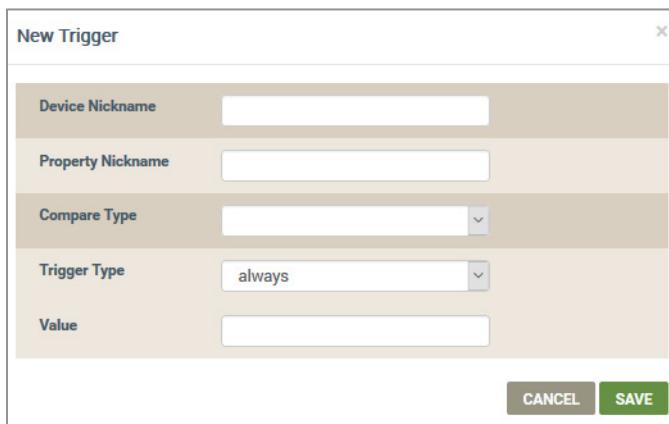
Device Nickname	Property Nickname	Trigger Type	Compare Type	Value	Period	User Id	Active	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	

PREV 1 - 10 of 20 NEXT 

Table columns are:

- **Device Nickname** (user-friendly name of the device)
- **Property Nickname** (user-friendly name of the property)
- **Trigger Type** (type of trigger – always, compare_absolute, on_change)
- **Compare Type** (compare values ==, >, <, >=, <=)

- **Value** (value of the trigger)
 - **Period** (time allowed for the trigger)
 - **User Id** (user name associated with the device)
 - **Active** (status of trigger)
2. To add a new trigger, click **CREATE A TRIGGER**. This shows the New Trigger dialog box.



The dialog box is titled 'New Trigger'. It has five input fields: 'Device Nickname', 'Property Nickname', 'Compare Type', 'Trigger Type', and 'Value'. The 'Trigger Type' field is currently set to 'always'. At the bottom are 'CANCEL' and 'SAVE' buttons.

Enter details:

- **Device Nickname** (user-friendly device name)
- **Property Nickname** (user-friendly property name)
- **Compare Type** drop-down (==, >, <, >=, <=)
- **Trigger Type** drop-down
 - always (trigger is always active)
 - compare_absolute (compare against a set value)
 - compare_service
 - on_change (trigger activated only on a change)
- **Value** (value used to activate the trigger)
- Click **SAVE**.

3. To edit property settings, on the Triggers table listing, click a trigger. This shows another panel about the trigger, with tabs for **Details** and **Trigger Apps**.

- On the **Details** tab, review details.

Trigger: 1390723

Details **Trigger Apps**

Trigger Id	1390723
Device Nickname	THRMSTAT_DEMO
Property Nickname	CoolSetPoint
Compare Type	>=
Period	always
Trigger Type	compare_absolute
Trigger Service	
Params	
Value	78

CLOSE **EDIT**

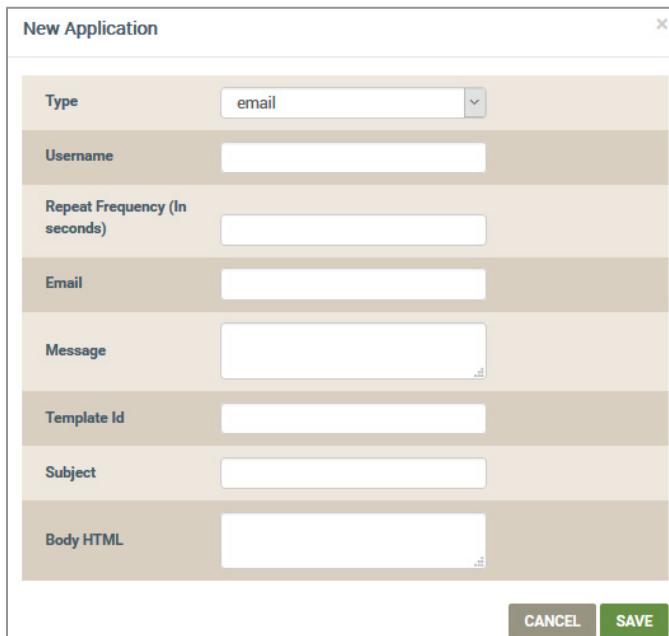
- For changes, click **EDIT**.
- Update fields as needed.
- Click **UPDATE**.

4. On **Trigger Apps** tab, review information.

- To add another trigger app notification, click **CREATE AN APPLICATION**. This shows the New Application dialog box.

Enter details for the selected notification **Type** drop-down. When done, click **SAVE**.

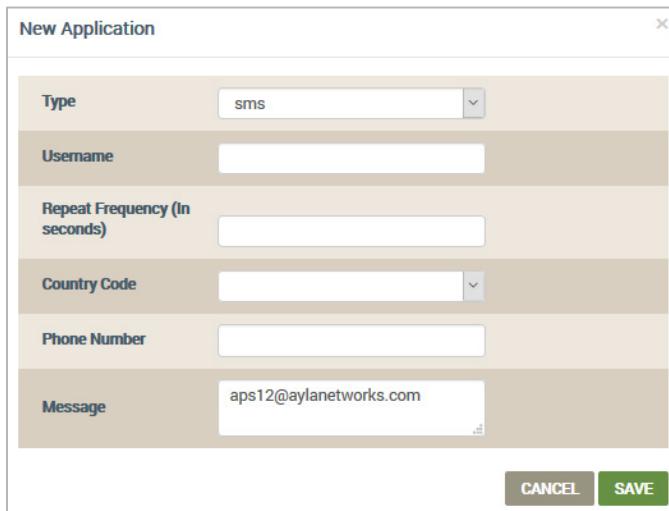
Type = Email:



The screenshot shows the 'New Application' dialog box. It has a header 'New Application' and a close button 'X'. Below the header are eight input fields arranged vertically: 'Type' (set to 'email'), 'Username' (empty), 'Repeat Frequency (in seconds)' (empty), 'Email' (empty), 'Message' (empty), 'Template Id' (empty), 'Subject' (empty), and 'Body HTML' (empty). At the bottom of the dialog are two buttons: 'CANCEL' and 'SAVE'.

- **Username** (greeting in the notification message)
- **Repeat Frequency (in seconds)** (seconds between repeat of this trigger application)
- **Country Code** drop-down (list of country phone codes)
- **Phone Number** (phone number)
- **Message** (message to be sent)
- **Template Id** (ID of the template to use with this application)
- **Subject** (subject line)
- **Body HTML** (additional details – can include HTML code)

Type = sms:



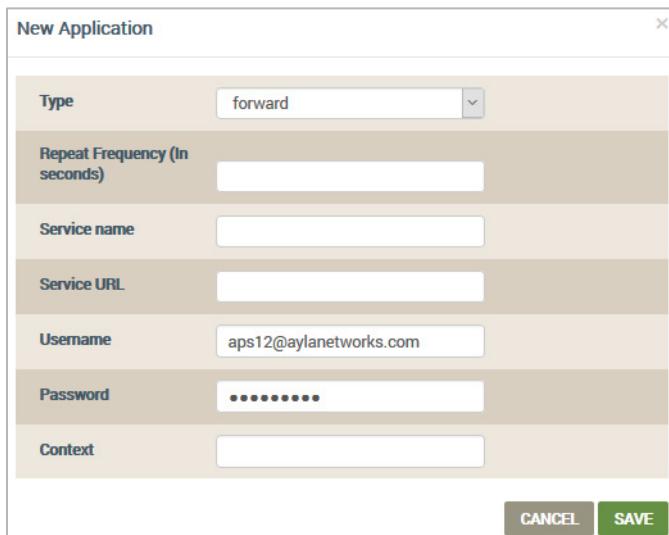
New Application

Type	sms
Username	<input type="text"/>
Repeat Frequency (in seconds)	<input type="text"/>
Country Code	<input type="text"/>
Phone Number	<input type="text"/>
Message	aps12@aylanetworks.com

CANCEL SAVE

- **Username** (greeting in the notification message)
- **Repeat Frequency (in seconds)** (seconds between repeat of this trigger application)
- **Country Code** drop-down (list of country phone codes)
- **Phone Number** (phone number)
- **Message** (message to be sent – up to 255 characters)

Type = forward:



New Application

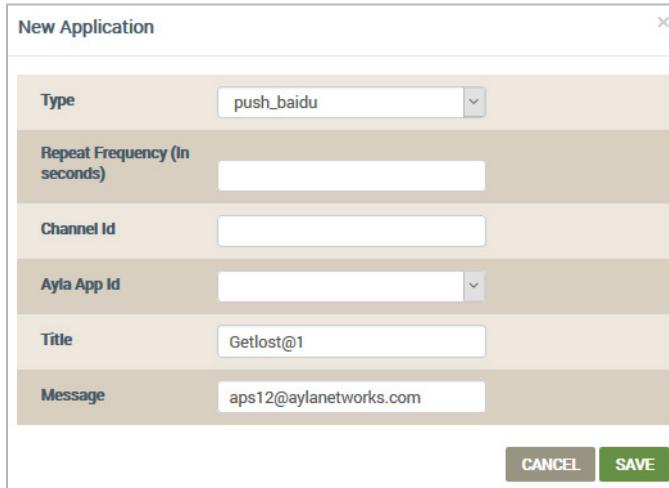
Type	forward
Repeat Frequency (in seconds)	<input type="text"/>
Service name	<input type="text"/>
Service URL	<input type="text"/>
Username	aps12@aylanetworks.com
Password	*****
Context	<input type="text"/>

CANCEL SAVE

- **Repeat Frequency (in seconds)** (seconds between repeat of this trigger application)
- **Service name** (name of the forwarding service)
- **Service URL** (URL to which notification is sent)
- **Username** (user name for application)
- **Password** (password for the username)

- **Context** (message)

Type = **push_baidu**:



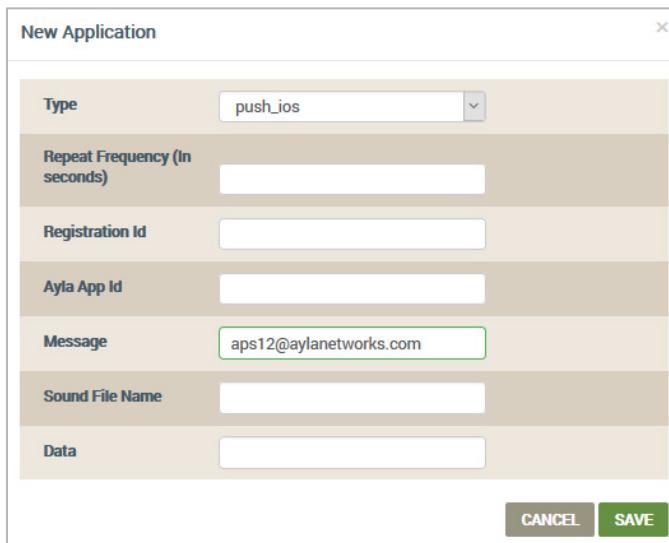
New Application

Type	push_baidu
Repeat Frequency (in seconds)	
Channel Id	
Ayla App Id	
Title	Getlost@1
Message	aps12@aylanetworks.com

CANCEL SAVE

- **Repeat Frequency (in seconds)** (seconds between repeat of this trigger application)
- **Channel Id** (ID of the Baidu channel)
- **Ayla App Id** drop-down (select from the list of Ayla apps)
- **Title** (title name of the notification)
- **Message** (message to be sent)

Type = **push_ios**:



New Application

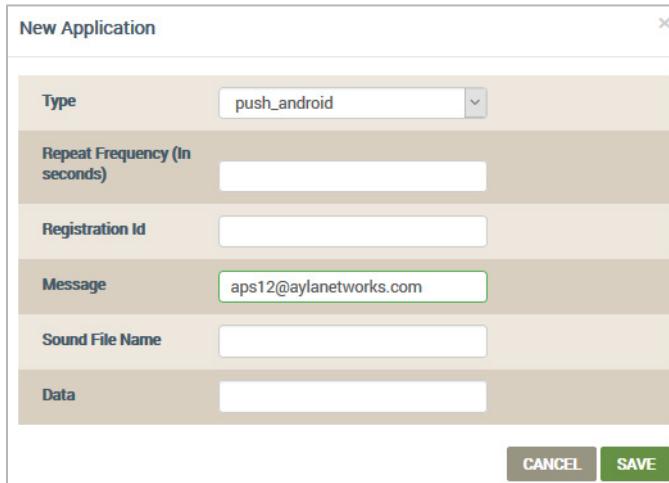
Type	push_ios
Repeat Frequency (in seconds)	
Registration Id	
Ayla App Id	
Message	aps12@aylanetworks.com
Sound File Name	
Data	

CANCEL SAVE

- **Repeat Frequency (in seconds)** (seconds between repeat of this trigger application)
- **Registration Id** (ID of the registration)
- **Ayla App Id** drop-down (select from the list of Ayla apps)

- **Message** (message to be sent)
- **Sound File Name** (the sound to play when the message is received by the iOS device)
- **Data** (data information to include in notification)

Type = push_android:



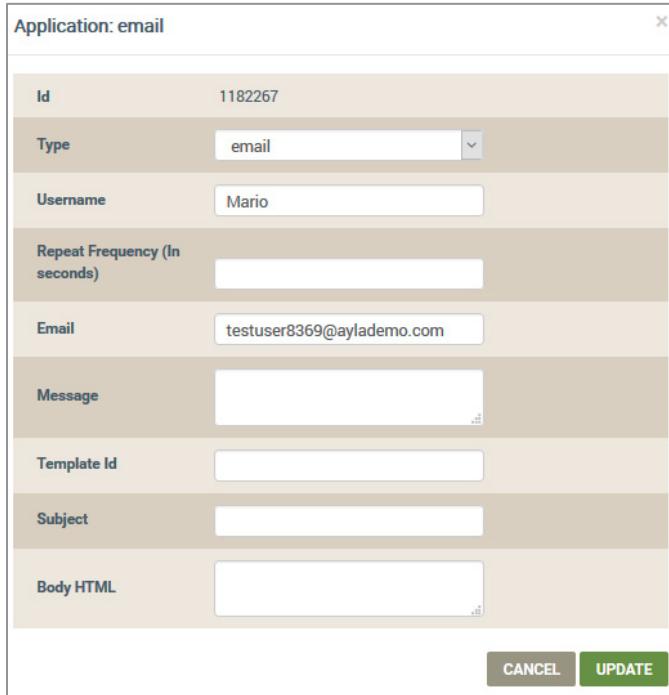
New Application

Type	push_android
Repeat Frequency (In seconds)	<input type="text"/>
Registration Id	<input type="text"/>
Message	aps12@aylanetworks.com
Sound File Name	<input type="text"/>
Data	<input type="text"/>

CANCEL SAVE

- **Repeat Frequency (in seconds)** (seconds between repeat of this trigger application)
- **Registration Id** (ID of the registration)
- **Message** (message to be sent)
- **Sound File Name** (the sound to play when the message is received by the iOS device)
- **Data** (data information to include in notification)

- b. To edit a trigger application in the table listing, click a trigger. This shows the Application dialog box. Make changes as needed and click **UPDATE**.



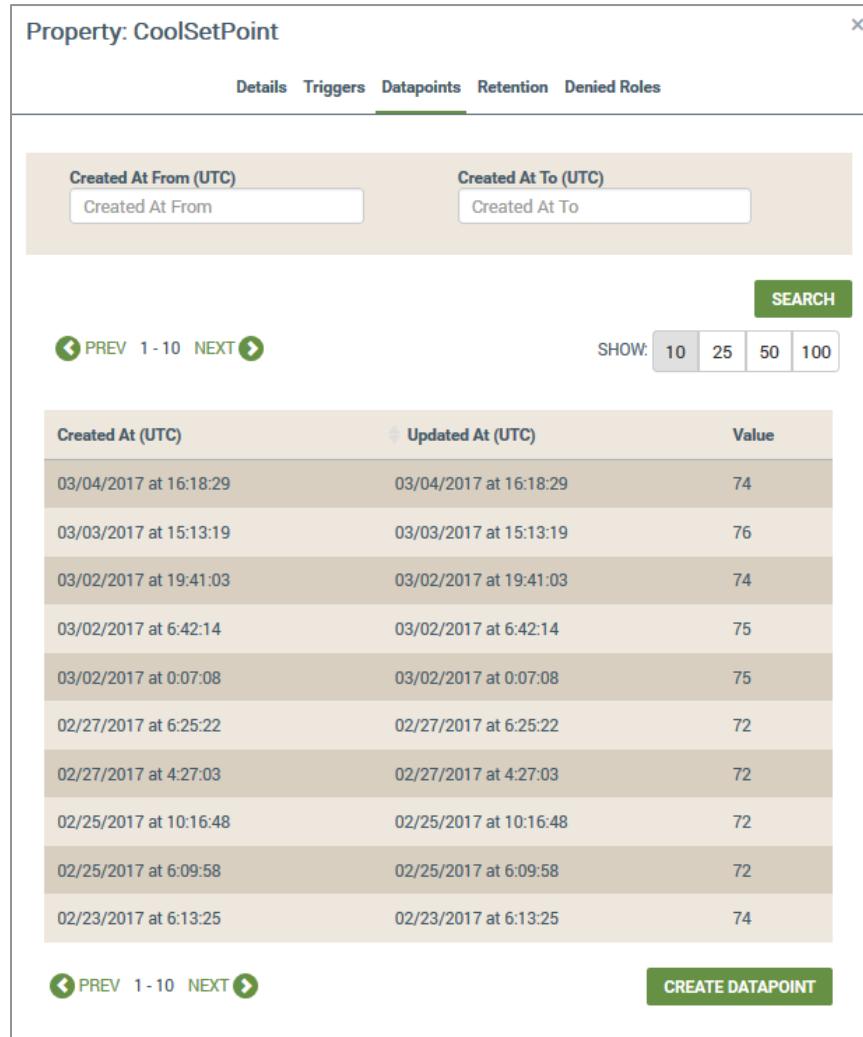
Application: email

Id	1182267
Type	email
Username	Mario
Repeat Frequency (In seconds)	
Email	testuser8369@aylademo.com
Message	
Template Id	
Subject	
Body HTML	

CANCEL **UPDATE**

View/edit Property Details – Datapoints tab

1. On the Property panel, click the **Datapoints** tab.



The screenshot shows the 'CoolSetPoint' property details page. The 'Datapoints' tab is selected. At the top, there are two date/time input fields: 'Created At From (UTC)' and 'Created At To (UTC)', both set to 'Created At From' and 'Created At To' respectively. Below these are 'SEARCH' and 'SHOW: 10 25 50 100' buttons. The main area is a table with the following data:

Created At (UTC)	Updated At (UTC)	Value
03/04/2017 at 16:18:29	03/04/2017 at 16:18:29	74
03/03/2017 at 15:13:19	03/03/2017 at 15:13:19	76
03/02/2017 at 19:41:03	03/02/2017 at 19:41:03	74
03/02/2017 at 6:42:14	03/02/2017 at 6:42:14	75
03/02/2017 at 0:07:08	03/02/2017 at 0:07:08	75
02/27/2017 at 6:25:22	02/27/2017 at 6:25:22	72
02/27/2017 at 4:27:03	02/27/2017 at 4:27:03	72
02/25/2017 at 10:16:48	02/25/2017 at 10:16:48	72
02/25/2017 at 6:09:58	02/25/2017 at 6:09:58	72
02/23/2017 at 6:13:25	02/23/2017 at 6:13:25	74

At the bottom are 'PREV 1 - 10 NEXT' buttons and a 'CREATE DATAPPOINT' button.

Table columns are:

- **Create At (UTC)** (date/time property created)
- **Updated At (UTC)** (date/time property was updated)
- **Value** (value of the property datapoint)

2. To search datapoints:

- Select date/time on **Created At From (UTC)** calendar.
- Select date/time on **Created At To (UTC)** calendar.
- Click **SEARCH**.

3. To review a datapoint:

- In the datapoint table listing, click a datapoint.



- Review the information. When done, click **CLOSE**.

4. To create a datapoint:

- Click **CREATE DATAPPOINT**. This shows the Create Datapoint dialog box.



- Enter **Insert Value (integer)**.
- Click **CREATE**.

View/edit Property Details – Retention tab

1. On the Property panel, click the **Retention** tab.

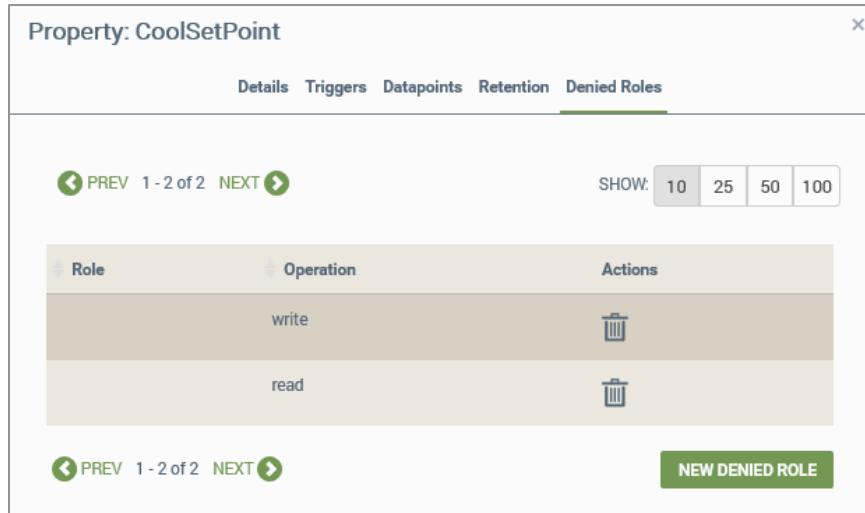


2. As needed, change the **Days** value.

3. Click **SAVE**.

View/edit Property Details – Denied Roles tab

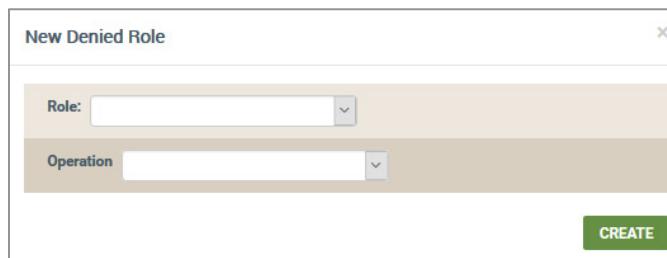
1. On the Property panel, click the **Denied Roles** tab.



Role	Operation	Actions
	write	
	read	

Table columns are:

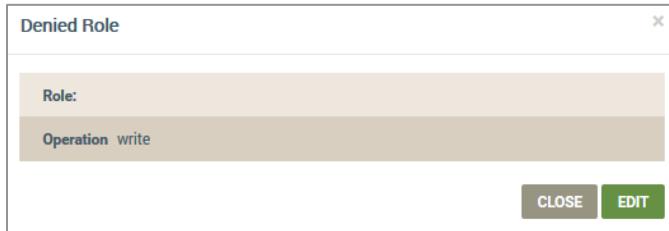
- **Role** (role that was denied)
 - **Operation** (operation that was denied)
 - **Action** (action that can be applied to the table item)
2. To create a new Denied Role, click **NEW DENIED ROLE**. This shows the New Denied Role dialog box.



- Select from **Role** drop-down.
- Select **Operation** to deny
 - write (user with this role cannot edit/change property details)
 - read (user with this role cannot see this property)
- Click **CREATE**.

3. To edit a Denied Role:

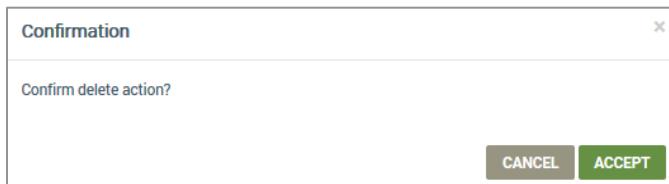
- On the Denied Role table listing, click the role. This shows the Denied Role dialog box.



- Click **EDIT**.
- As needed, change **Role** drop-down.
- As needed, change **Operation** drop-down (write, read).
- Click **UPDATE**.

4. To delete a Denied Role:

- ON the Denied Role table listing, locate the role to be deleted.
- Click the **Trash Can** icon. This shows the Confirmation dialog box.



- Click **ACCEPT**.

5.6.3 Device Navigation Menu – COMMANDS

You can view all commands sent to the device.

● **THRMSTAT8369**
ID: 72755
Product Name: THRMSTAT_DEMO
Model: TEST
OEM Model: OTEST
SW Version: 2.0
User: 72b77518-829e-11e5-9609-0ee0c870bcec
Connected At: 07/20/2016 at 0:27:29 (UTC)
Activated At: 10/30/2015 at 11:00:08 (UTC)
Provisioned At: 10/28/2015 at 7:12:21 (UTC)
OTA Status: pending Myupdate

DEVICE >
PROPERTIES >
COMMANDS >
SCHEDULES >
TIMEZONES >
NOTIFICATIONS >
METADATA >
AYLA IMAGES >
HOST MOU IMAGES >
ALERT HISTORY >

Commands

● **DELETE ALL**
PREV
1 - 10 of 331
NEXT ●

SHOW:
10
25
50
100

Resource	URI	Data	Ack	Acked at (UTC)	Created at (UTC)	
logclient.json	/cmd_post_process.json	{ "enabled": 1, "host": "log.aylanetworks.com", "uri": "/api/v1/device/logs", "protocol": "https" }	false	03/24/2017 at 16:16:06	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -420 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893092000 }] }	false	03/04/2017 at 16:18:36	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -300 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893020000 }] }	false	03/03/2017 at 15:12:22	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -480 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893128000 }] }	false	03/02/2017 at 19:41:12	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -300 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893020000 }] }	false	03/02/2017 at 6:42:19	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -420 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893020000 }] }	false	03/02/2017 at 0:07:16	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -300 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893020000 }] }	false	02/27/2017 at 4:27:08	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -480 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893128000 }] }	false	02/25/2017 at 10:16:50	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -300 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893020000 }] }	false	02/25/2017 at 6:10:06	●	●
config.json	/cmd_post_process.json	{ "config": [{ "name": "sys/timezone", "val": -300 }, { "name": "sys/dst_valid", "val": 1 }, { "name": "sys/dst_active", "val": 0 }, { "name": "sys/dst_change", "val": 14893020000 }] }	false	02/23/2017 at 6:13:27	●	●

● **PREV** 1 - 10 of 331 **NEXT ●**
DELETE ALL

Table columns are:

- **Resource** (type of command request)
- **URI** (command call)
- **Data** (data provided with the command)
- **Ack** (send an acknowledgement – Boolean: true, false)
- **Acked at (UTC)** (date/time acknowledgement was sent)
- **Created at (UC)** (date/time command was created)
- **Action** (action for the command)

Delete/Remove Command

1. To delete individual commands:
 - Locate the command on the table listing.
 - Click the **Trash Can** ● icon (no confirmation dialog)
2. To remove all commands in the table listing:
 - At the top or bottom of the page, click **DELETE ALL** (no confirmation dialog)

© 2018 Ayla Networks, Inc.
AY006UDB3-6.0/19-Dec-2018

Proprietary

108

5.6.4 Device Navigation Menu – SCHEDULES

Schedules are used to manage your device activity. Schedules can be created and managed on the [Ayla Developer Portal](#).

● THRMSTAT8369

ID: 72755

Product Name: THRMSTAT_DEMO

Model: TEST

OEM Model: OTEST

SW Version: 2.0

User: 72b77518-828e-11e5-9609-0ee0c870bcec

Connected At: 07/20/2016 at 0:27:29 (UTC)

Activated At: 10/30/2015 at 11:00:08 (UTC)

Provisioned At: 10/28/2015 at 7:12:21 (UTC)

OTA Status: pending Myupdate

- [DEVICE](#)
- [PROPERTIES](#)
- [COMMANDS](#)
- [SCHEDULES](#) ▶
- [TIMEZONES](#)
- [NOTIFICATIONS](#)
- [METADATA](#)
- [AYLA IMAGES](#)
- [HOST MCU IMAGES](#)
- [ALERT HISTORY](#)

Schedules

◀ PREV
1 - 6 of 6
NEXT ▶

SHOW: 10 25 50 100

Name	Start Date (UTC)	End Date (UTC)	Start Time Each Day (UTC)	End Time Each Day (UTC)	Active
IndoorTemp	2016-12-12	2018-12-12	10:30:00		true
OutdoorTemp	2016-12-12	2018-12-12	10:30:00		true
Humidity	2016-12-12	2018-12-12	10:30:00		true
CoolSetPoint	2016-12-12	2018-12-12	10:30:00		true
HeatSetPoint	2016-12-12	2018-12-12	10:30:00		true
TempOverride	2016-12-12	2018-12-12	10:30:00		true

◀ PREV
1 - 6 of 6
NEXT ▶

Table columns are:

- **Name** (name of the schedule – must match schedule name on device host applicationn)
- **Start Date (UTC)** (date/time to start schedule)
- **End Date (UTC)** (date/time to stop schedule)
- **Start Time Each Day (UTC)** (for a daily schedule, time to start)
- **End Time Each Day (UTC)** (for a daily schedule, time to end)
- **Active** (state of schedule - active, inactive)

Edit Schedule – Details tab

1. On the Schedules table listing, click a schedule. This shows the Edit Schedule, Details tab.

Details
Advanced
Actions

Name:	OutdoorTemp
Display Name:	OutdoorTemp
Direction:	To Device
Start Date (UTC):	2016-12-12
End Date (UTC):	2018-12-12
Start Time Each Day (UTC):	10:30:00
End Time Each Day (UTC):	
Duration (in seconds):	
Interval (in seconds):	

CLOSE
EDIT

2. Click **EDIT**.

3. As needed, make changes to:

- **Name** (name of schedule)
- **Display Name** (user-friendly name)
- **Direction** drop-down:

To Device (allows both the Ayla Enabled Device and Third Party Application API Client to update a given Device Property)

From Device (only allows the Ayla Enabled Device to update a given Device Property)

- **Start Date (UTC)** (date/time to start schedule)
- **End Date (UTC)** (date/time to stop schedule)
- **Start Time Each Day (UTC)** (start time each day)
- **End Time Each Day (UTC)** (end time each day)
- **Duration (in seconds)** (seconds schedule is active)
- **Interval (in seconds)** (time in seconds between consecutive schedule events)

4. Click **SAVE**.

Edit Schedule – Advanced tab

1. On the Schedules table listing, click a schedule.
2. Click the **Advanced** tab.

Edit Schedule

Details **Advanced** Actions

Days of Week

<input checked="" type="checkbox"/> Sunday	<input checked="" type="checkbox"/> Monday	<input checked="" type="checkbox"/> Tuesday
<input checked="" type="checkbox"/> Wednesday	<input checked="" type="checkbox"/> Thursday	<input checked="" type="checkbox"/> Friday
<input checked="" type="checkbox"/> Saturday		

Months of Year

<input checked="" type="checkbox"/> January	<input checked="" type="checkbox"/> February	<input checked="" type="checkbox"/> March
<input checked="" type="checkbox"/> April	<input checked="" type="checkbox"/> May	<input checked="" type="checkbox"/> June
<input checked="" type="checkbox"/> July	<input checked="" type="checkbox"/> August	<input checked="" type="checkbox"/> September
<input checked="" type="checkbox"/> October	<input checked="" type="checkbox"/> November	<input checked="" type="checkbox"/> December

Days of Month

<input checked="" type="checkbox"/> 1	<input checked="" type="checkbox"/> 2	<input checked="" type="checkbox"/> 3	<input checked="" type="checkbox"/> 4
<input checked="" type="checkbox"/> 5	<input checked="" type="checkbox"/> 6	<input checked="" type="checkbox"/> 7	<input checked="" type="checkbox"/> 8
<input checked="" type="checkbox"/> 9	<input checked="" type="checkbox"/> 10	<input checked="" type="checkbox"/> 11	<input checked="" type="checkbox"/> 12
<input checked="" type="checkbox"/> 13	<input checked="" type="checkbox"/> 14	<input checked="" type="checkbox"/> 15	<input checked="" type="checkbox"/> 16
<input checked="" type="checkbox"/> 17	<input checked="" type="checkbox"/> 18	<input checked="" type="checkbox"/> 19	<input checked="" type="checkbox"/> 20
<input checked="" type="checkbox"/> 21	<input checked="" type="checkbox"/> 22	<input checked="" type="checkbox"/> 23	<input checked="" type="checkbox"/> 24
<input checked="" type="checkbox"/> 25	<input checked="" type="checkbox"/> 26	<input checked="" type="checkbox"/> 27	<input checked="" type="checkbox"/> 28
<input checked="" type="checkbox"/> 29	<input checked="" type="checkbox"/> 30	<input checked="" type="checkbox"/> 31	<input type="checkbox"/> Last day of the month

Occurrence in Month

First Second Third Fourth Fifth Last

UTC Fixed Actions Active

EDIT

3. Click **EDIT**.
4. As needed, select/unselect:
 - **Days of Week** items
 - **Months of Year** items
 - **Days of Month** items
 - **Occurrence in Month** items
 - **UTC** checkbox (select to use UTC time)
 - **Fixed Actions** checkbox
 - **Active** checkbox

5. Click **SAVE**.

Edit Schedule – Actions tab

1. On the Schedules table listing, click a schedule.
2. Click the **Actions** tab.

Edit Schedule				
Details Advanced Actions				
PREV 1 - 1 of 1 NEXT				SHOW: 10 25 50 100
Name	Base Type	Value	When Runs	Active
	integer	65	in_range	true
PREV 1 - 1 of 1 NEXT				

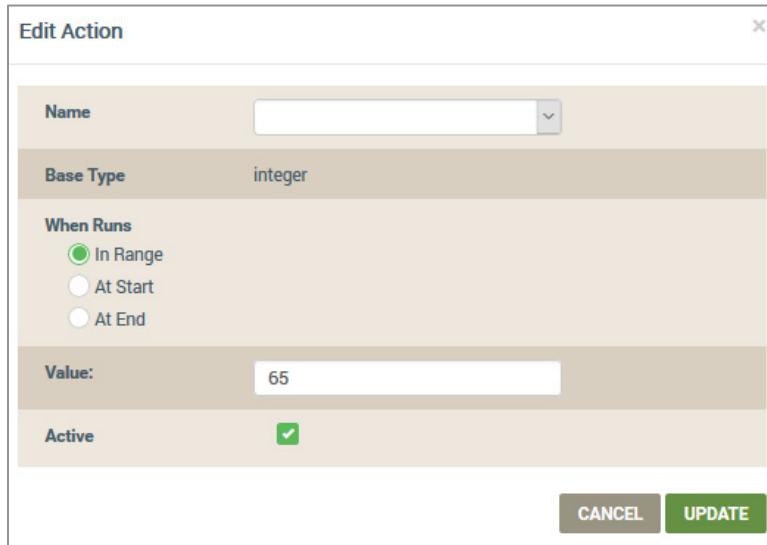
Table columns are:

- **Name** (name of the action)
- **Base Type** (data type – integer, string, boolean, decimal, file)
- **Value** (assigned action to take)
- **When Runs** (date/time)
- **Active** (status - active or inactive)

1. To review details on the Action table listing, click an item. This shows the Edit Action dialog box.

Edit Action	
Name	
Base Type	integer
When Runs	
In Range	true
At Start	false
At End	false
Value:	65
Active	true
CLOSE EDIT	

2. To edit details, click **EDIT**.

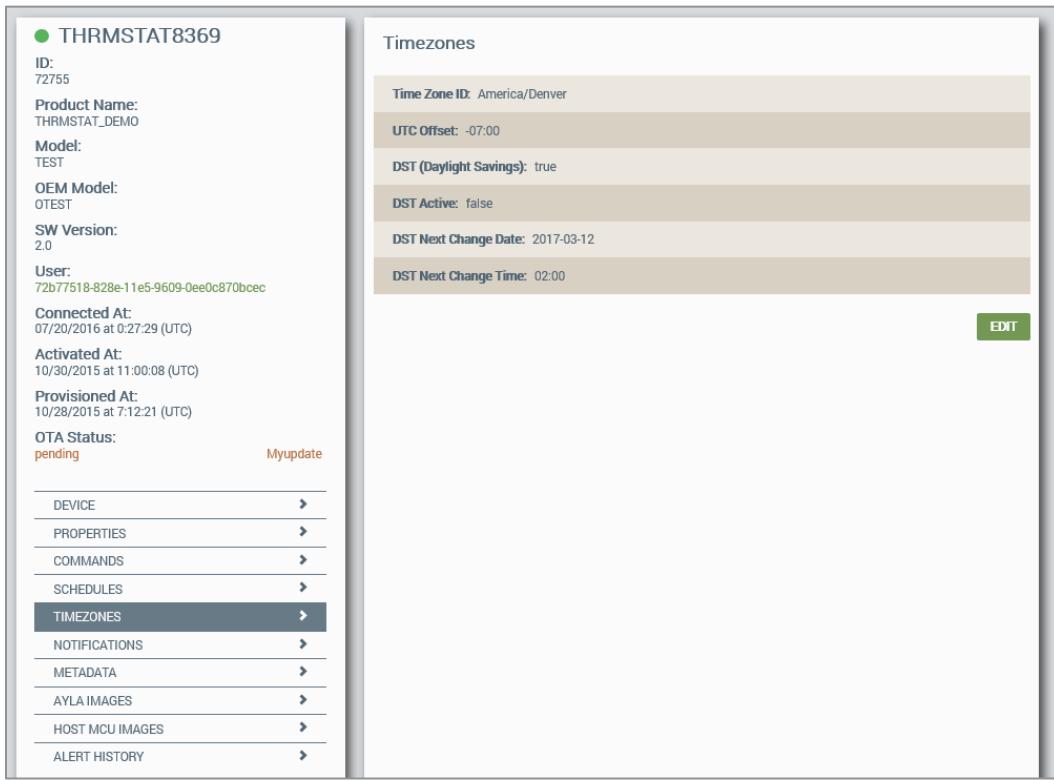


The dialog box is titled "Edit Action". It has a "Name" field with a dropdown arrow. The "Base Type" is set to "integer". The "When Runs" section contains three radio buttons: "In Range" (selected), "At Start", and "At End". The "Value:" field contains the number "65". The "Active" checkbox is checked. At the bottom are "CANCEL" and "UPDATE" buttons.

3. Select **Name** drop-down.
4. In **When Runs** section, select one:
 - **In Range**
 - **At Start**
 - **At End**
5. Adjust **Value**.
6. **Active** checkbox.
 - Select (Action is active)
 - Unselect (Action is inactive)
7. When done, click **UPDATE**.

5.6.5 Device Navigation Menu – TIMEZONES

These are time zones assigned to the device.



The screenshot shows the Ayla Customer Dashboard interface. On the left, a sidebar displays device details for 'THRMSTAT8369' (ID: 72755) including Product Name, Model, OEM Model, SW Version, User, and various timestamps for connection, activation, and provisioning. Below this is a list of navigation options: DEVICE, PROPERTIES, COMMANDS, SCHEDULES, TIMEZONES (which is selected and highlighted in blue), NOTIFICATIONS, METADATA, AYLA IMAGES, HOST MCU IMAGES, and ALERT HISTORY. On the right, the main content area is titled 'Timezones' and shows configuration settings for the selected time zone: Time Zone ID (America/Denver), UTC Offset (-07:00), DST (Daylight Savings) (true), DST Active (false), DST Next Change Date (2017-03-12), and DST Next Change Time (02:00). A green 'EDIT' button is located in the bottom right corner of this panel.

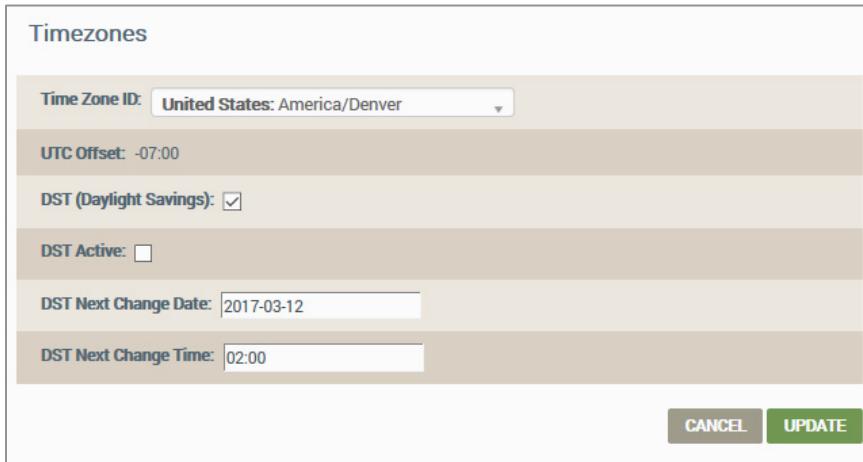
Edit TimeZones

Daylight Saving Time (DST) is period of the year during the summer that time is advanced one hour. During the summer period, the one-hour time period is moved forward. During the winter period, the time period jumps back the one hour.

If the device is in a DST region, the dates when the hour is added and reversed can be entered as part of the device configuration. Whether the device is connected to the Ayla Cloud or not. This ensures device time changes are done automatically.

To ensure the device changes the time, the Ayla Cloud automatically pushes the changeover time to the device twice a year, usually a month or more after the previous change.

1. Click **EDIT**.



Timezones

Time Zone ID:

UTC Offset: -07:00

DST (Daylight Savings):

DST Active:

DST Next Change Date:

DST Next Change Time:

CANCEL **UPDATE**

2. Select the **Time Zone ID** drop-down for the device location.

3. **DST (Daylight Savings)** checkbox.

Select (location uses annual Daylight Savings Time schedules)

Unselect (location does not use Daylight Savings Time).

4. Select **DST Active** checkbox

Select (DST is active until the next change_time)

Unselect (if DST is not used in the time zone.)

5. Set the **DST Next Change Date**.

6. Set the **DST Next Change Time**.

7. Click **UPDATE**.

5.6.6 Device Navigation Menu – NOTIFICATIONS

Notifications help monitor device activity. This page shows NOTIFICATIONS (all types) assigned to the device. Ayla allows proactive customer and user-defined alerts (email, sms, push, forward) with dynamic data into notifications

● THRSTAT0013

ID: 56003

Product Name: THRSTAT_DEMO

Model: TEST

OEM Model: OTEST

SW Version: 2.0

User: 9a89f0e4-828d-11e5-9609-0ee0c870bcec

Connected At: 03/24/2016 at 16:10:38 (UTC)

Activated At: 08/21/2015 at 8:35:44 (UTC)

Provisioned At: 07/22/2015 at 6:40:25 (UTC)

OTA Status: Pending Myupdate

[DEVICE](#)

[PROPERTIES](#)

[COMMANDS](#)

[SCHEDULES](#)

[TIMEZONES](#)

[NOTIFICATIONS](#)

[METADATA](#)

[AYLA IMAGES](#)

[HOST MCU IMAGES](#)

[ALERT HISTORY](#)

Notifications

Search Notifications


PREV
1 - 10 of 100
NEXT 

SHOW:
10
25
50
100

Type	Threshold	URL	User Name
ip_change	N/A	http://www.aylanetworks.com	

PREV
1 - 10 of 100
NEXT 

Table columns are:

- **Type** (type of notification)
- **Threshold** (duration device must be in alert state before notification is sent)
- **URL** (web address)
- **User Name** (name of the user)

Search Notifications

1. In the **Search** field, enter the search parameters.

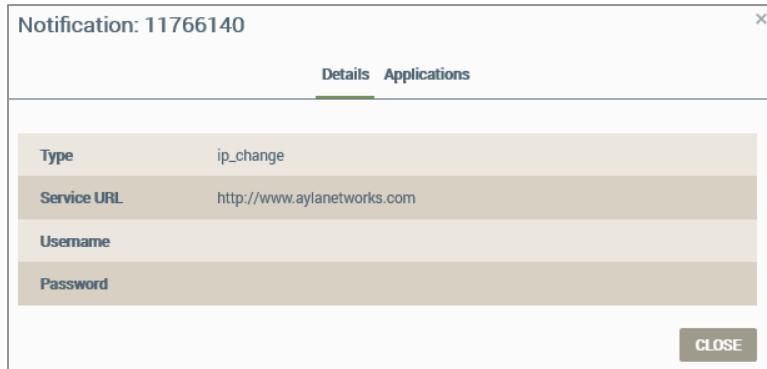
Notifications

Search Notifications

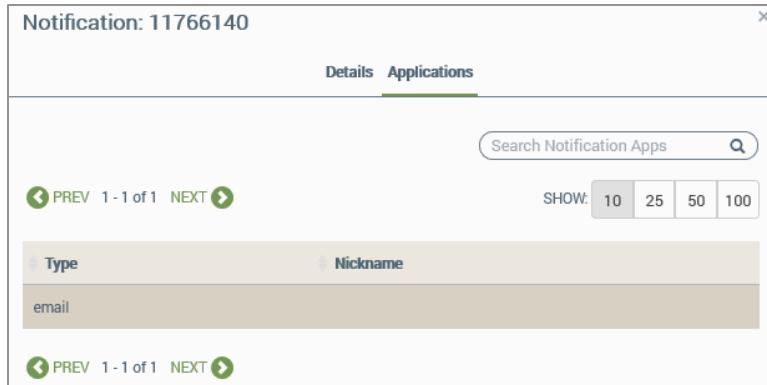

2. Click the **Search** icon.
3. Review results.

View Notification Details

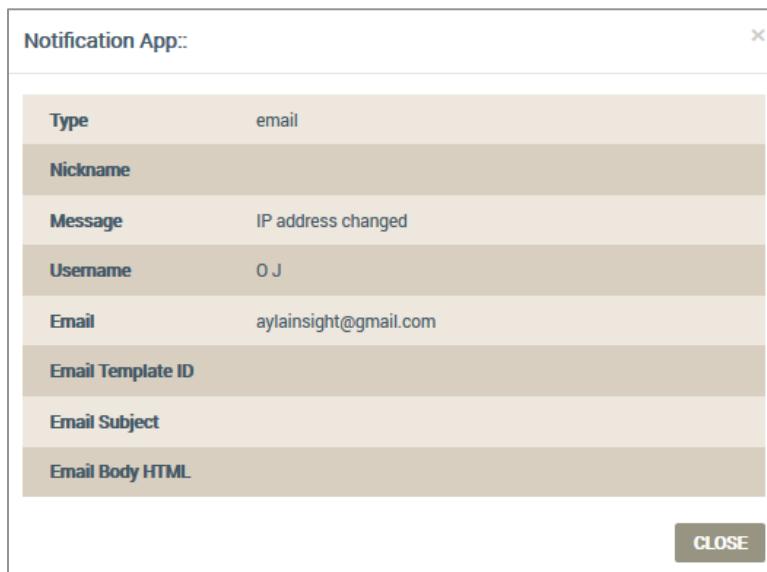
1. In the Notifications table listing, click the notification. This opens a Notification panel.



2. Review the **Details** tab. When done, click **CLOSE**.
3. Click the **Applications** tab.



4. To review additional details, in the Application table listing, click the item. This shows the Notification App dialog box.

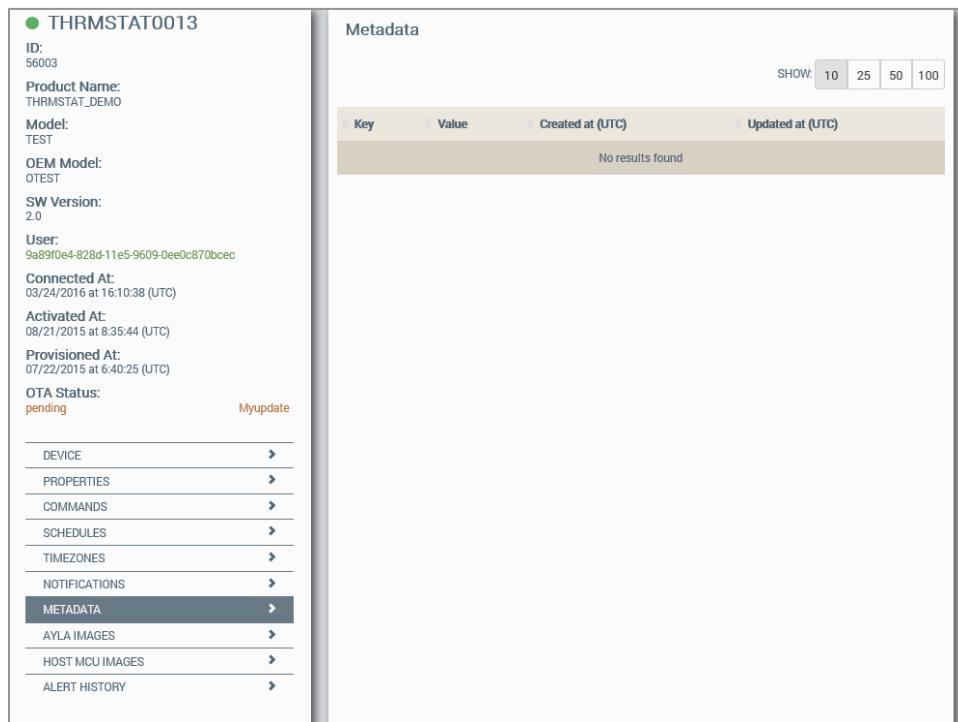


5. Review the details and click **CLOSE**.

5.6.7 Device Navigation Menu – METADATA

Metadata (key/value pairs) can be used by the Host MCU to provide more granular details about the device (i.e., key=Color, value=blue; key=MfgLoc, value=NY; key=Language, value=German; key=MfgDt, value=1706; etc.).

Metadata (create, update, delete) can be managed with APIs and on the Developer Portal, Device property datapoints.



The screenshot shows the Ayla Customer Dashboard interface. On the left, a sidebar displays device details for 'THRSTAT0013' (ID: 56003). The sidebar includes sections for Product Name (THRSTAT_DEMO), Model (TEST), OEM Model (OTEST), SW Version (2.0), User (9ab9f0e4-828d-11e5-9609-0ee0c870b0ec), Connected At (03/24/2016 at 16:10:38 (UTC)), Activated At (08/21/2015 at 8:35:44 (UTC)), Provisioned At (07/22/2015 at 6:40:25 (UTC)), and OTA Status (pending). Below these are links for DEVICE, PROPERTIES, COMMANDS, SCHEDULES, TIMEZONES, NOTIFICATIONS, METADATA (which is selected and highlighted in dark grey), AYLA IMAGES, HOST MCU IMAGES, and ALERT HISTORY.

The main content area is titled 'Metadata' and shows a table with four columns: Key, Value, Created at (UTC), and Updated at (UTC). The table has a single row with the message 'No results found'. At the top of this area, there is a 'SHOW' button followed by buttons for 10, 25, 50, and 100 results.

Table columns are:

- **Key** (metadata key, i.e., Color)
- **Value** (value of the key, i.e., blue)
- **Created at (UTC)** (date/time created)
- **Updated at (UTC)** (last date/time updated)

5.6.8 Device Navigation Menu – AYLA IMAGES

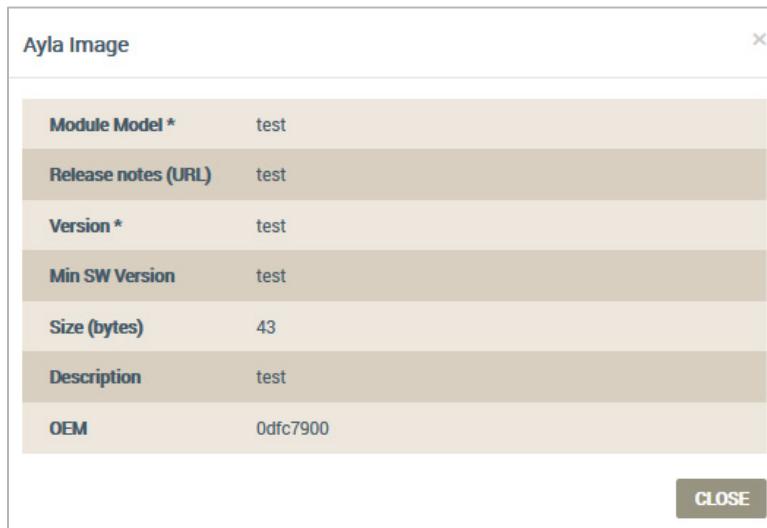
An Ayla image is the firmware loaded on Ayla modules.

Ayla Images						
						SEARCH AYLA IMAGES
						SHOW: 10 25 50 100
Description	Module Model	Version	Uploaded Date (UTC)	Size (bytes)	Min SW Version	Jobs
2.5-beta from 2.4.3-beta (LAN-OTA)	AY001MUS1	2.5-beta	07/05/2017 at 23:24	107940	2.4.3-beta	<input type="checkbox"/> 
2.4.3-beta from 2.5-beta (Test-homekit-OTA)	AY001MUS1	2.4.3-beta	06/06/2017 at 0:07	102192	2.5-beta	<input checked="" type="checkbox"/> 
2.5-beta from 2.4.3-beta (Test-OTA)	AY001MUS1	2.5-beta	04/04/2017 at 0:00	107940	2.4.3-beta	<input type="checkbox"/> 
2.4.3-beta from 2.5-beta (Test-OTA)	AY001MUS1	2.4.3-beta	04/03/2017 at 23:55	102192	2.5-beta	<input type="checkbox"/> 
ron test1d	AY001MUS1	1.15.2	09/02/2016 at 23:33	59260	1.15.1	<input type="checkbox"/>  1182 1184 1187 (MORE)
Ayla Image Test - shared 0829	AY001MUS1	1.5	08/29/2016 at 22:31	80808	1.3	<input type="checkbox"/> 
1.4.2	AY001MUS1	1.4.2	08/25/2016 at 23:49	76072	1.4	<input type="checkbox"/> 
large file	AY001MUS1	1.3	08/03/2016 at 21:47	12539459	1.15.1	<input type="checkbox"/> 
1.2	AY001MUS1	1.2	08/01/2016 at 21:32	15734	bc 1.15.1 02/11/16 16:23:40 ID 5e9db45	<input type="checkbox"/> 
TestJuly5	AY001MUS1	1.1	07/05/2016 at 20:39	15734	bc 2.4.5-eng 05/03/16 15:41:27 ID prithigandhi/effe1a4 dev	<input type="checkbox"/> 

Table columns are:

- **Description** (description of the MCU image)
- **Module Model** (device module number associated with OTA image)
- **Version** (version of the uploaded image)
- **Uploaded Date (UTC)** (date uploaded to Dashboard)
- **Size (bytes)** (size of the image)
- **Min SW version** (minimum version of image that can be upgraded)
- **Jobs** (the number of jobs this image has been applied)
If a job is listed, clicking it will open OTA > Jobs page.
- **HomeKit** (checkbox – if selected, a HomeKit is associated with the Image)
- **Actions** (actions available for the image)

1. Click on a row in the table listing. The Ayla Image dialog box shows.



The dialog box is titled "Ayla Image". It contains a table with the following data:

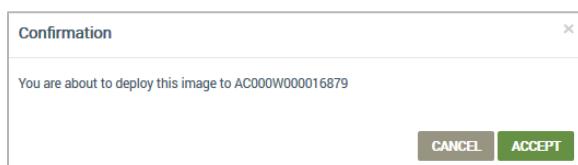
Module Model *	test
Release notes (URL)	test
Version *	test
Min SW Version	test
Size (bytes)	43
Description	test
OEM	0dfc7900

At the bottom right is a "CLOSE" button.

2. Review the details and click **CLOSE**.

3. To deploy the Ayla Image:

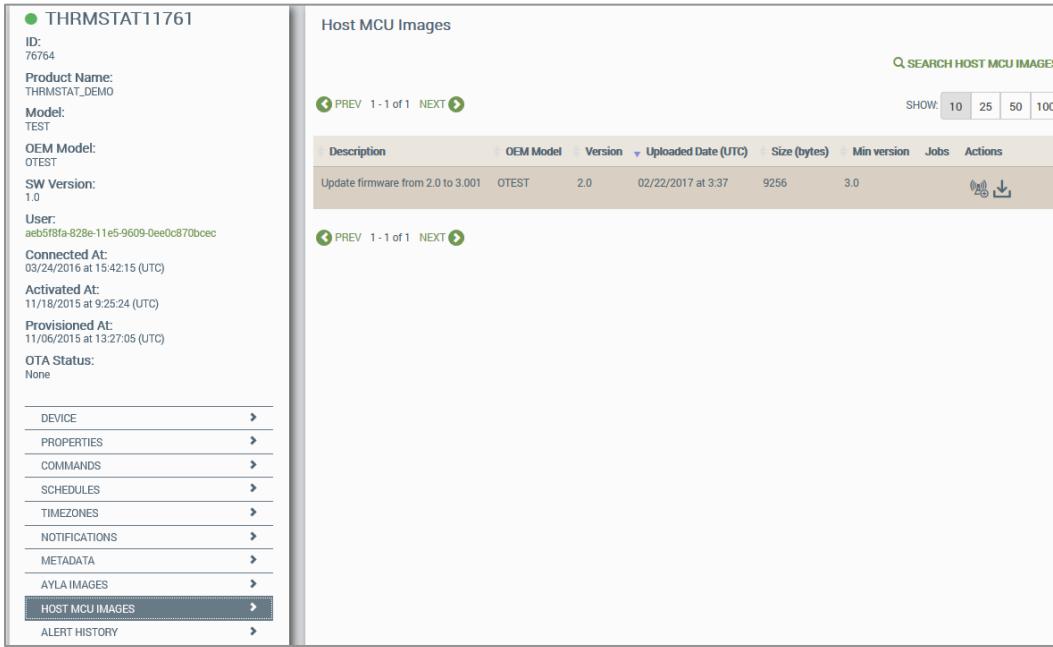
- a. In the Actions column, click the **Deploy Image**  icon.
- b. On the Confirmation dialog, click **ACCEPT**.



The dialog box is titled "Confirmation". It contains the message: "You are about to deploy this image to AC000W000016879". At the bottom are "CANCEL" and "ACCEPT" buttons.

5.6.9 Device Navigation Menu – HOST MCU IMAGES

Host MCU images are deployed and communicate directly with Ayla-enabled Wi-Fi modules.



The screenshot shows the Ayla Customer Dashboard interface. On the left, a sidebar for device 'THRSTAT11761' displays various device details and navigation links. The 'HOST MCU IMAGES' link is highlighted. The main content area is titled 'Host MCU Images' and shows a table with one row of data. The table columns are: Description, OEM Model, Version, Uploaded Date (UTC), Size (bytes), Min version, Jobs, and Actions. The data row shows: 'Update firmware from 2.0 to 3.001', 'OTEST', '2.0', '02/22/2017 at 3:37', '9256', '3.0', '0', and a row of icons for 'Local Device' (checkbox), 'Deploy', and 'Download Image'.

Table columns are:

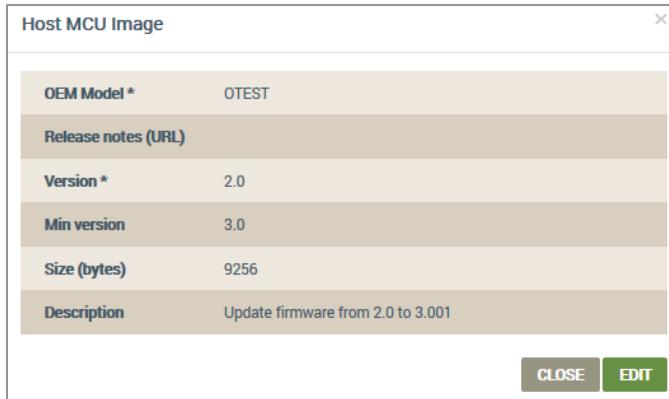
- **Description** (description of the MCU image)
- **OEM Model** (model number of the customer's host application board)
- **Version** (version of Host MCU image associated with this device)
- **Uploaded Date** (date uploaded to Dashboard)
- **Size (bytes)** (size of the image)
- **Min version** (the lowest version this image will update)
- **Jobs** (the number of jobs this image has been applied)
- **Local Device** checkbox:
Select (image will only be used for a local device, i.e., Phone as a Gateway device)
Unselect (for other devices, do not select checkbox)
- **Actions** (available actions for the item)
Deploy
Download Image

Search

1. Enter search details in Search field.
2. Click **Search** icon.
3. Review results.

View/Edit Host MCU Image

1. On the table listing, click the row. This shows the Host MCU Image dialog box.

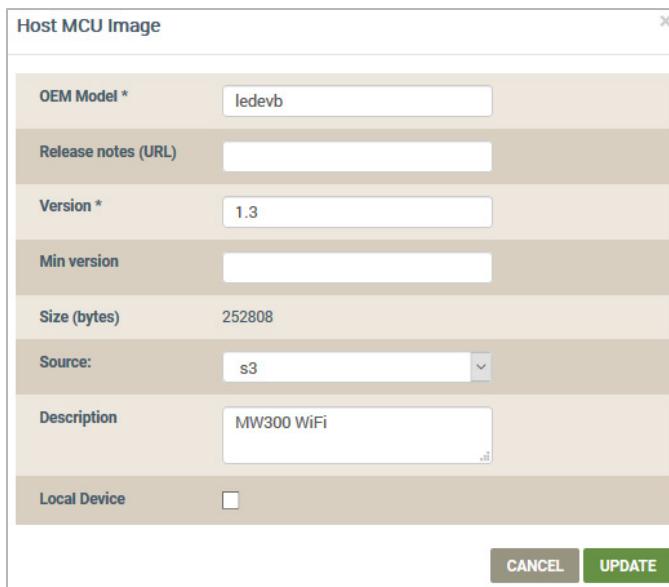


The dialog box displays the following information:

OEM Model *	OTEST
Release notes (URL)	
Version *	2.0
Min version	3.0
Size (bytes)	9256
Description	
Update firmware from 2.0 to 3.001	

Buttons: CLOSE, EDIT

2. Click EDIT. This shows the Host MCU Image dialog box.



The dialog box displays the following fields:

OEM Model *	ledevb
Release notes (URL)	
Version *	1.3
Min version	
Size (bytes)	252808
Source:	s3
Description	
MW300 WiFi	
Local Device	
<input type="checkbox"/>	

Buttons: CANCEL, UPDATE

3. Change or modify details:

- **OEM Model** (model number of the customer's host application board)
- **Release notes (URL)** (URL address of the release notes)
- **Version** (current version of Host MCU Image)
- **Min version** (minimum version of this Host MCU Image can update)
- **Source** drop-down (location where host image is stored – determined by Ayla and OEM Admin)
 - **Local** (to MySQL)
 - **s3** (bucket in AWS) (not supported at this time)
- **Description** (description of the Host MCU Image)
- **Local Device** checkbox

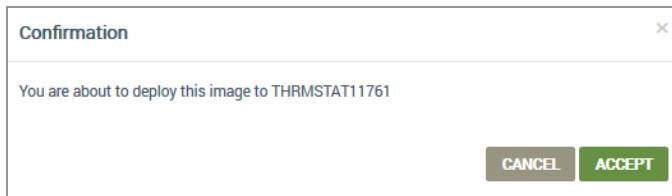
- Select (if this is a local device – i.e., Phone as a Gateway)
 - Unselect (not a local device)
4. Click **UPDATE**.

Deploy Host MCU Image

1. On the table listing, locate the image and click the **Deploy** icon.



2. On the Confirmation dialog, click **ACCEPT**.



Download Host MCU Image

1. On the table listing, locate the image and click the **Download** icon.



2. On the Save dialog, select the location to save the download.

5.6.10 Device Navigation Menu – ALERT HISTORY

This shows all the alerts.

● THRMSTAT11761

ID: 76764

Product Name: THRMSTAT_DEMO

Model: TEST

OEM Model: OTEST

SW Version: 1.0

User: aeb5f8fa-828e-11e5-9609-0ee0c870bcec

Connected At: 03/24/2016 at 15:42:15 (UTC)

Activated At: 11/18/2015 at 9:25:24 (UTC)

Provisioned At: 11/06/2015 at 13:27:05 (UTC)

OTA Status: None

DEVICE >

PROPERTIES >

COMMANDS >

SCHEDULES >

TIMEZONES >

NOTIFICATIONS >

METADATA >

AYLA IMAGES >

HOST MCU IMAGES >

ALERT HISTORY >

Alert History

PREV
1 - 10 of 4182
NEXT

10
25
50
100

Timestamp (UTC)	User	Producer	Destination	Property	Content
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRMSTAT_DEMO

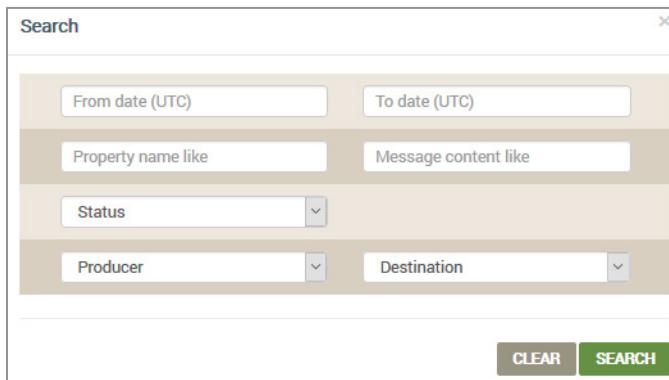
PREV
1 - 10 of 4182
NEXT

Table columns are:

- **Timestamp (UTC)** (date/time of the alert)
- **User** (user MAC address associated with the device that receives the alert)
- **Producer** (creator of alert)
- **Destination** (how alert is sent, i.e., email, sms, etc.)
- **Property** (property on which the alert occurred)
- **Content** (details about the alert)

Search Alerts

1. Click **Search Notifications**. This shows the Search dialog box.



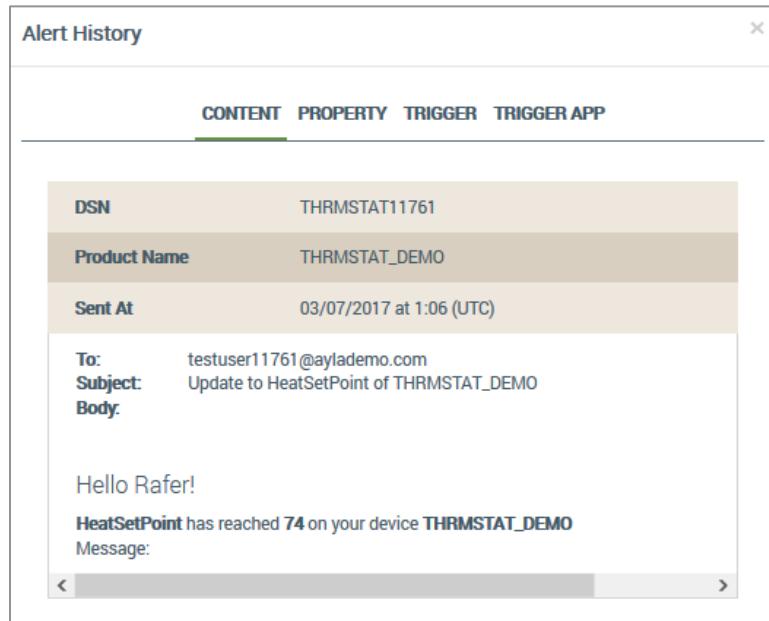
The image shows a 'Search' dialog box with the following layout:

- From date (UTC)** and **To date (UTC)** input fields.
- Property name like** and **Message content like** text input fields.
- Status**, **Producer**, and **Destination** dropdown menus.
- CLEAR** and **SEARCH** buttons at the bottom.

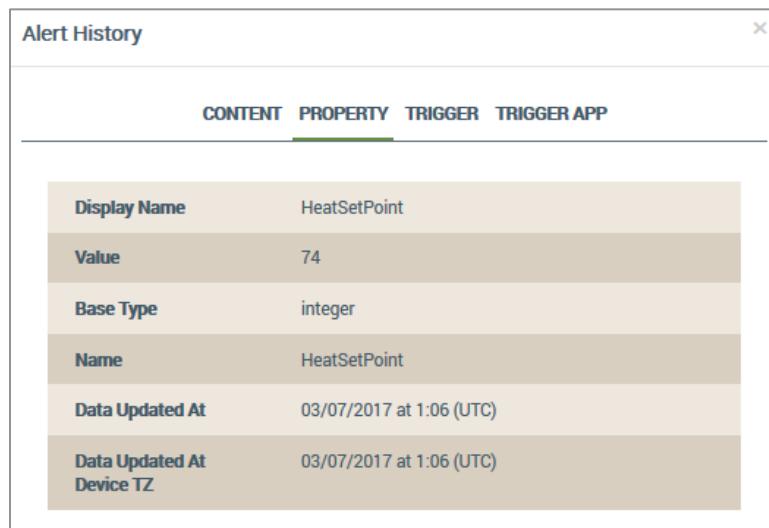
2. Select **From date (UTC)**. (from date/time)
3. Select **To date (UTC)** (to date/time)
4. Enter **Property name like** (property name similar to)
5. Enter **Message content like** (message content similar to)
6. Select **Status** drop-down:
 - **delivered**
 - **error**
7. Select **Producer** drop-down
 - **property**
 - **connectivity**
8. Select **Destination** drop-down
 - **email**
 - **sms**
 - **Android**
 - **iOS**
 - **Baidu**
9. Click **SEARCH**.

View Alert Details

1. On the table listing, click an alert to open the Alert History dialog box.
2. Review details on the **CONTENT** tab.



3. Review details on the **PROPERTY** tab.



4. Review details on the **TRIGGER** tab.

Alert History	
CONTENT PROPERTY TRIGGER TRIGGER APP	
Property Nickname	HeatSetPoint
Compare Type	>=
Triggered At	03/06/2017 at 15:14 (UTC)
Value	68
Base Type	integer
Period	always
Device Nickname	THRMSTAT_DEMO
Type	integer

5. Review details on the **TRIGGER APP** tab.

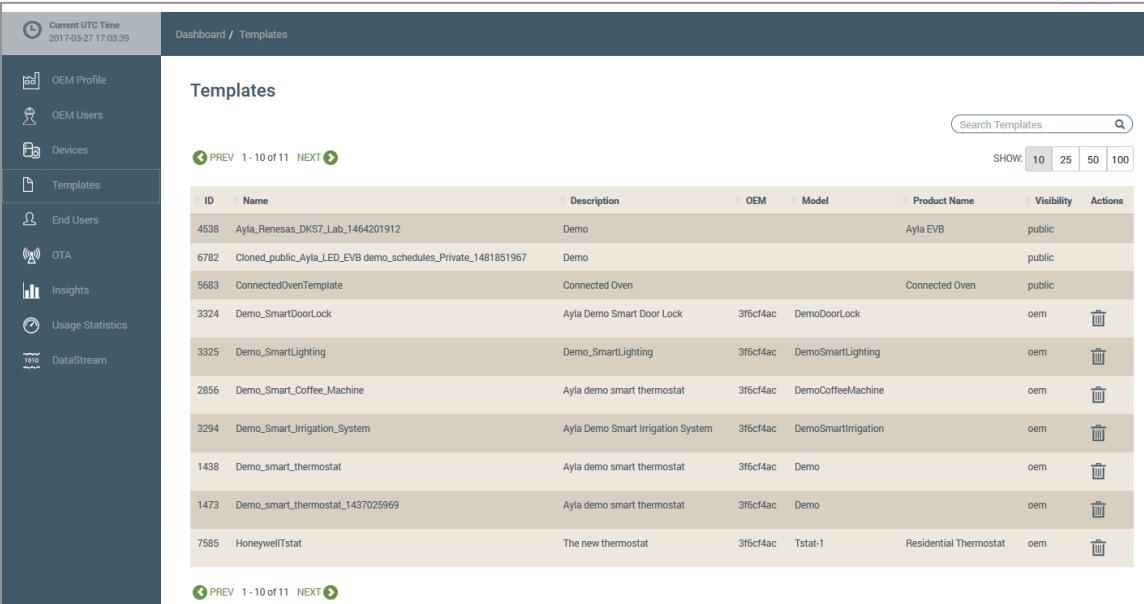
Alert History	
CONTENT PROPERTY TRIGGER TRIGGER APP	
Username	Rafer
Name	email
Nickname	
Param 1	testuser11761@aylademo.com
Param 2	
Param 3	
Param 4	
Param 5	
Repeat Frequency	

6 Templates

A template is a group of properties applied to a device in the Ayla cloud. Essentially, the template is an abstraction of a device in the Ayla cloud. The template properties define the device functionality and consequently, how the end-user experiences product features. Customers can create schedules and triggers with notifications for template properties, and enable LAN mode in the template for a device.

The Templates section shows all available device templates. There are no editable fields in this section except a property retention setting. When a template is assigned to a device, common settings are applied, which saves the time required for manual configuration.

Figure 7 – Ayla Customer Dashboard, Templates page



ID	Name	Description	OEM	Model	Product Name	Visibility	Actions
4538	Ayla_Renesas_DKS7_Lab_1464201912	Demo			Ayla EVB	public	
6782	Cloned_public_Ayla_LED_EVB_demo_schedules_Private_1481851967	Demo				public	
5683	ConnectedOvenTemplate	Connected Oven			Connected Oven	public	
3324	Demo_SmartDoorLock	Ayla Demo Smart Door Lock	3f6cf4ac	DemoDoorLock		oem	
3325	Demo_SmartLighting	Demo_SmartLighting	3f6cf4ac	DemoSmartLighting		oem	
2856	Demo_Smart_Coffee_Machine	Ayla demo smart thermostat	3f6cf4ac	DemoCoffeeMachine		oem	
3294	Demo_Smart_Irrigation_System	Ayla Demo Smart Irrigation System	3f6cf4ac	DemoSmartIrrigation		oem	
1438	Demo_smart_thermostat	Ayla demo smart thermostat	3f6cf4ac	Demo		oem	
1473	Demo_smart_thermostat_1437025969	Ayla demo smart thermostat	3f6cf4ac	Demo		oem	
7585	HoneywellTstat	The new thermostat	3f6cf4ac	Tstat-1	Residential Thermostat	oem	

Table columns are:

- **ID** (Ayla-assigned template identification)
- **Name** (name of the template)
- **Description** (information about the template)
- **OEM** (Customer identification)
- **Model** (model number of Ayla module for the template)
- **Product Name** (user-friendly device name to use with the template)
- **Visibility** (who can see the template - public, Ayla customer)
- **Actions** (action that can be applied to the template)

6.1 Search Templates

6.1.1 Search by Device

1. On the Templates page, click in the Search Templates field.



A screenshot of a search interface. At the top, the word 'Templates' is displayed in a light blue font. Below it is a search input field containing the placeholder text 'Search Templates'. To the right of the input field is a magnifying glass icon.

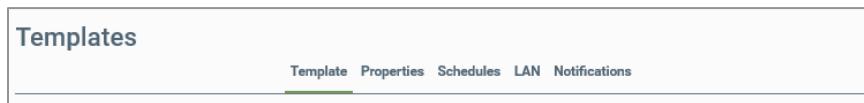
2. Enter search values.

3. Click the **Search** icon.

Review the search results.

6.2 View Template Details

When a template in the table listing is clicked, several sub-tabs are available. Unless indicated, details are read-only. When done reviewing sub-tab details, click **CLOSE**.



A screenshot of a sub-tab interface. At the top, the word 'Templates' is displayed in a light blue font. Below it is a navigation bar with five tabs: 'Template', 'Properties', 'Schedules', 'LAN', and 'Notifications'. The 'Template' tab is underlined, indicating it is the active tab.

6.3 Templates > Template tab

On the **Template** sub-tab view summary details. Details are view-only. Click **CLOSE** when done.

Templates

Template
Properties
Schedules
LAN
Notifications

ID:	3294
Name:	Demo_Smart_Irrigation_System
Description:	Ayla Demo Smart Irrigation System
Model:	DemoSmartIrrigation
Version:	*
Visibility:	oem
OEM:	3f6cf4ac
User ID:	19320
Home Kit:	
Product Name:	
Product Class:	
Tags:	
Registration Type:	Dsn
Type:	Wifi
Gateway Type:	
Cluster ID:	
Key:	

CLOSE

- **ID** (template ID)
- **Name** (name of the template)
- **Description** (information about the template)
- **Model** (device model for this template)
- **Version** (template version)
- **Visibility** (who can see the template: public, the Ayla customer)
- **OEM** (ID of the Ayla customer)
- **User ID** (Ayla-assigned end user ID)
- **Product Name** (name of the product)
- **Product Class** (type of product, defined by the Ayla customer)
- **Tags** (metatags assigned to this template)
- **Registration Type** (type of registration)
 - Same-LAN
 - Button-Push

- AP-Mode
- Display
- Dsn
- None
- **Type** (type of device, i.e., wifi, gateway, node)
- **Gateway Type** (i.e., Zigbee)
- **Cluster ID**
- **Key** (for virtual node devices)

6.4 Templates > Properties tab

Click **Properties** sub-tab to view details. Details are view-only.

Templates																													
Template Properties Schedules LAN Notifications																													
PREV 1 - 4 of 4 NEXT SHOW: 10 25 50 100																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Name</th><th>Base Type</th><th>Direction</th><th>Scope</th><th></th></tr> </thead> <tbody> <tr> <td>AAB</td><td>integer</td><td>input</td><td>user</td><td></td></tr> <tr> <td>ert</td><td>integer</td><td>input</td><td>user</td><td></td></tr> <tr> <td>qqq</td><td>string</td><td>input</td><td>user</td><td></td></tr> <tr> <td>testpro</td><td>integer</td><td>input</td><td>user</td><td></td></tr> </tbody> </table>					Name	Base Type	Direction	Scope		AAB	integer	input	user		ert	integer	input	user		qqq	string	input	user		testpro	integer	input	user	
Name	Base Type	Direction	Scope																										
AAB	integer	input	user																										
ert	integer	input	user																										
qqq	string	input	user																										
testpro	integer	input	user																										
PREV 1 - 4 of 4 NEXT CLOSE																													

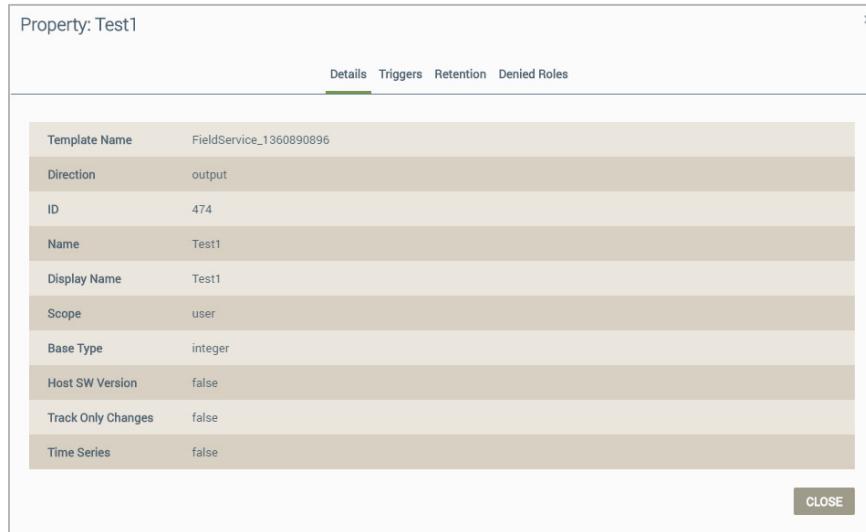
Table columns are:

- Name (name of the property)
- Base type (data type - integer, string, boolean, decimal, file)
- Direction (direction of the property: input, output)
- Scope (how is the property used - user, the Ayla customer)

6.4.1 Property > Details subtab

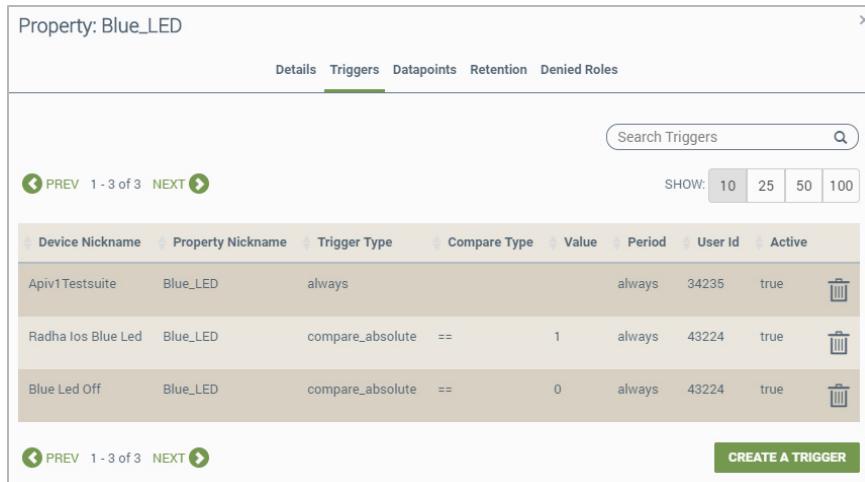
Click a property to review additional details. The first tab is the Details sub-tab.

NOTE If the property is a FeedProperty (details come from an outside service) these fields are displayed: Feed Type, Feed Subtype, and Data Feed Update Interval.



- **Template Name** (name of template for property)
- **Direction** (direction of property: input, output)
- **ID** (Ayla-assigned property ID)
- **Name** (name of property)
- **Display Name** (user-friendly name for property)
- **Scope** (oem - the Ayla customer can see property; public - the Ayla customer and user can see property)
- If selected property is a FeedProperty:
 - **Feed Type** (type of feed, i.e., weather, air quality)
 - **Feed Subtype** (factor of selected FeedProperty, i.e., Air Quality – NO2, O3, CO, etc.)
 - **Data Feed Update Interval** (time when update is requested – 30 minutes, 1 hour, 2 hours)
- **Base Type** (data type of property)
- **Host SW version** (true – if ADS considers this as the Host MCU software version; false – ADS ignores version device SW version applies to property)
- **Track Only Changes** (boolean: true – log should track changes to this property, false - do not track changes track changes)
- **Time Series** (boolean: true - queue datapoints to device if the device disconnects – on reconnection, datapoints are sent; false - do not save datapoints if device disconnects)

6.4.2 Property > Triggers subtab



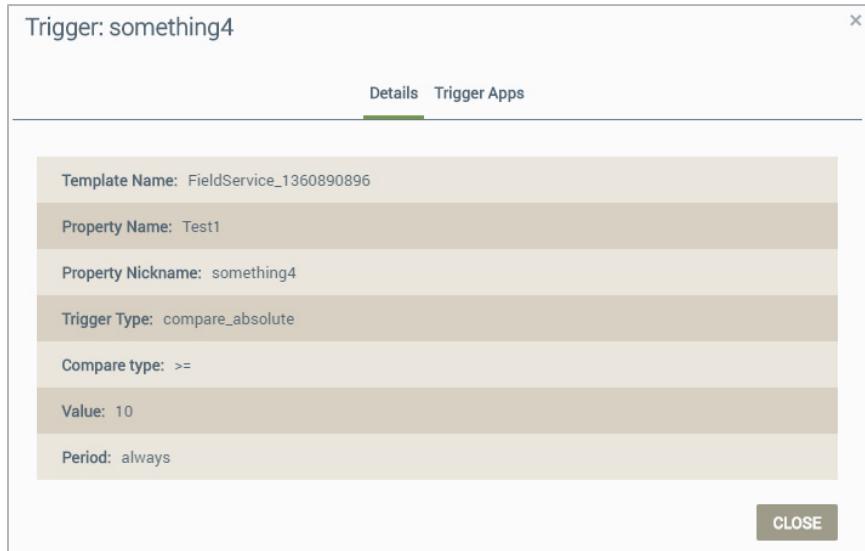
Device Nickname	Property Nickname	Trigger Type	Compare Type	Value	Period	User Id	Active	
Apiv1Testsuite	Blue_LED	always		always	34235	true		
Radha Ios Blue Led	Blue_LED	compare_absolute	==	1	always	43224	true	
Blue Led Off	Blue_LED	compare_absolute	==	0	always	43224	true	

Table columns are:

- **Device Nickname** (user-friendly name for device)
- **Property Nickname** (user-friendly name for property)
- **Trigger Type:**
 - always (trigger is always active)
 - compare_absolute (compare against a set value)
 - compare_service
 - on_change (trigger activated only on a change)
- **Compare Type** (type of comparison for trigger type: ==, >, <, >=, <=)
- **Value** (trigger value used for the trigger)
- **Period** (when period is active, i.e., always)
 - compare_absolute (compare against a set value)
 - compare_service
 - on_change (trigger activated only on a change)
- **User ID** (Ayla-assigned user identification)
- **Active** (boolean: true – trigger is active; false – trigger is not active)

Review Triggers > Details subtab

Click on a trigger to display the Details subtab.



Trigger: something4

Details Trigger Apps

Template Name: FieldService_1360890896

Property Name: Test1

Property Nickname: something4

Trigger Type: compare_absolute

Compare type: >=

Value: 10

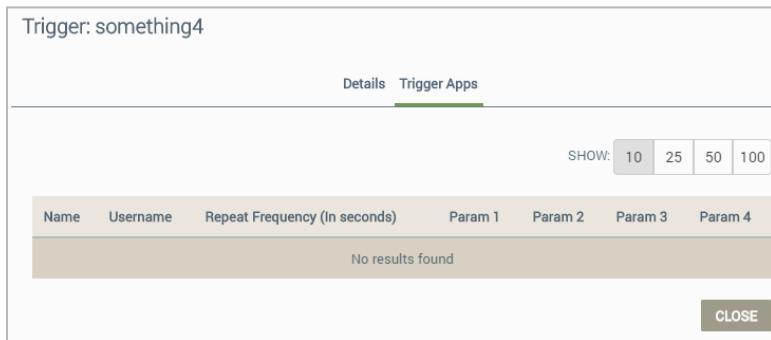
Period: always

CLOSE

- **Template Name** (name of the template)
- **Property Name** (name of the property)
- **Property Nickname** (user-friendly name of the property)
- **Trigger Type** (type of trigger – always, compare_absolute, on_change)
- **Compare Type** (compare values ==, >, <, >=, <=)
- **Value** (value of the trigger)
- **Period** (time allowed for the trigger to be active)

Review Triggers > Trigger Apps subtab

Click the Trigger Apps subtab.



Trigger: something4

Details Trigger Apps

SHOW: 10 25 50 100

Name	Username	Repeat Frequency (In seconds)	Param 1	Param 2	Param 3	Param 4
No results found						

CLOSE

Table columns are:

- **Name** (name type of trigger app: email, sms, forward, push_baidu, push_ios, push_android)
- **Username** (user name for application)
- **Repeat Frequency (in seconds)** (seconds between repeat of this trigger application)

- **Param 1** (first param of app, depending on type of trigger app)
- **Param 2** (second param of app, depending on type of trigger app)
- **Param 3** (third param of app, depending on type of trigger app)
- **Param 4** (fourth param of app, depending on type of trigger app)

6.4.3 Property > Retention subtab

On the **Retention** subtab, the **Days** value can be changed and saved. This is the number of days that property datapoints are saved.



6.4.4 Property > Denied Roles subtab

Click **Denied Roles** sub-tab. Denied Roles can be created, edited, and deleted.



Create Denied Role

1. To create a denied role, click **NEW DENIED ROLE**.

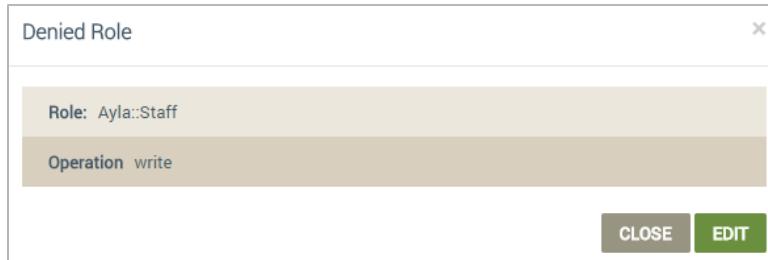


2. On the Role drop-down, select the role that will be denied read or write access.
3. On the Operation drop-down, select the access to be denied (read, write).

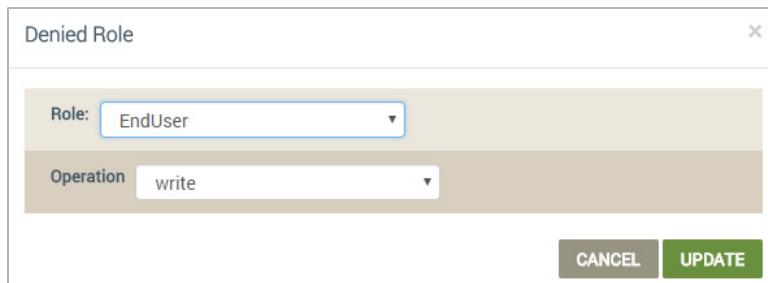
4. Click **CREATE**.

Edit Denied Role

1. In the Denied Roles table listing, click on a row. This displays the Denied Role dialog.



2. To modify the details, click **EDIT**.



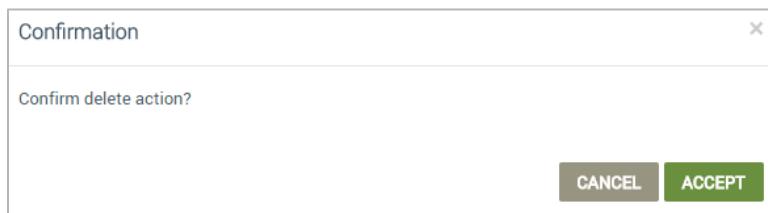
3. From the **Role** and **Operation** drop-down, make any needed changes.

4. When done, click **UPDATE**.

Delete a Denied Role

1. On the Denied Role table listing, locate the item to be deleted.

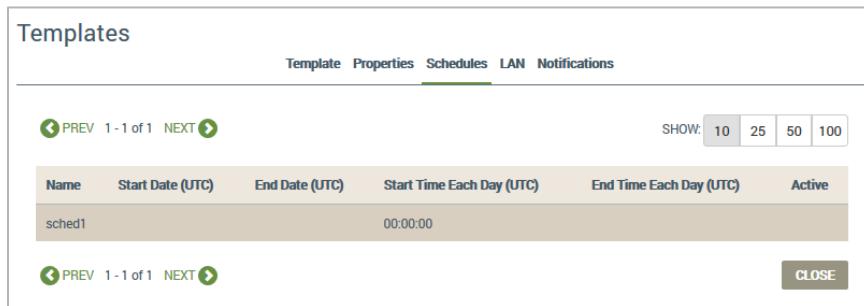
2. Click the **Trash Can**  icon. This shows the Confirmation dialog box.



3. On the Confirmation dialog, click **ACCEPT**.

6.5 Templates > Schedules tab

Click **Schedules** sub-tab to view details. Details are view-only.



Templates

Template Properties Schedules LAN Notifications

SHOW: 10 25 50 100

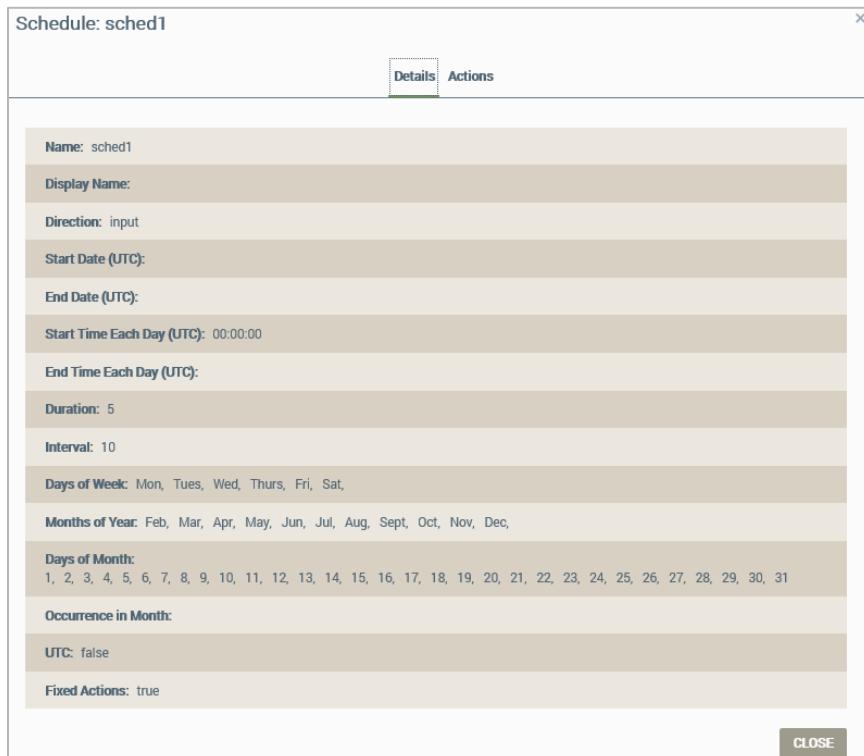
Name	Start Date (UTC)	End Date (UTC)	Start Time Each Day (UTC)	End Time Each Day (UTC)	Active
sched1			00:00:00		

CLOSE

- **Name** (name of schedule)
- **Start Date (UTC)** (start date of schedule)
- **End Date (UTC)** (end date of schedule)
- **Start Time Each Day (UTC)** (daily start time)
- **End Time Each Day (UTC)** (daily end time)
- **Active** (whether schedule is active or inactive)

6.5.1 Review Schedule > Details subtab

Click a schedule to display schedule details (details sub-tab are view only).



Schedule: sched1

Details Actions

Name: sched1

Display Name:

Direction: input

Start Date (UTC):

End Date (UTC):

Start Time Each Day (UTC): 00:00:00

End Time Each Day (UTC):

Duration: 5

Interval: 10

Days of Week: Mon, Tues, Wed, Thurs, Fri, Sat,

Months of Year: Feb, Mar, Apr, May, Jun, Jul, Aug, Sept, Oct, Nov, Dec,

Days of Month: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31

Occurrence in Month:

UTC: false

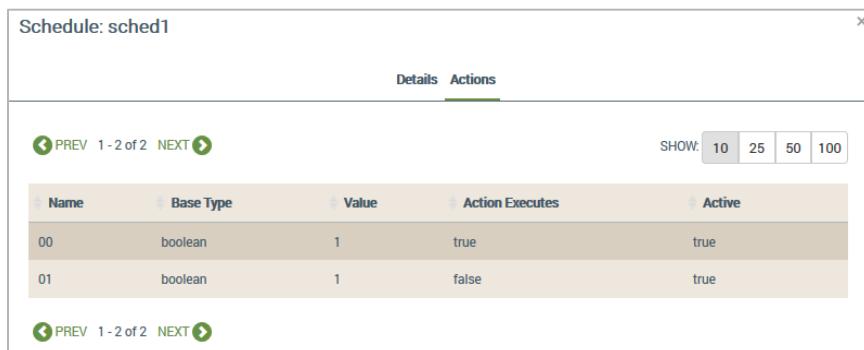
Fixed Actions: true

CLOSE

- **Name** (name of the schedule)
- **Display Name** (user-friendly name)
- **Direction** (input, output)
- **Start Date (UTC)** (start date of schedule)
- **End Date (UTC)** (end date of schedule)
- **Start Time Each Day (UTC)** (daily start time)
- **End Time Each Day (UTC)** (daily end time)
- **Duration** (amount of time the schedule will continue)
- **Interval** (interval time)
- **Days of Week** (days the schedule is applied)
- **Months of Year** (months the schedule is applied)
- **Days of Month** (individual days schedule is applied)
- **Occurrence in Month** (when in month the schedule is applied)
- **UTC** (true = UTC time applied; false = UTC time is not used)
- **Fixed Actions** (any actions tied to the schedule)

6.5.2 Review Schedule > Actions subtab

On the Actions sub-tab, review the table listing.

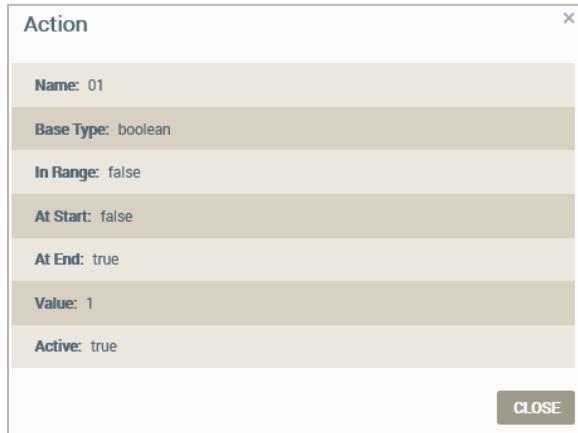


Name	Base Type	Value	Action Executes	Active
00	boolean	1	true	true
01	boolean	1	false	true

- Name (name of the action)
- Base Type (data type of action: boolean, string, etc.)
- Value (value of action)
- Action Executes (true = action is initiated on occurrence; false = no action is taken)
- Active (true = action is active; false = action is inactive)

Review Schedule > Actions subtab > table item

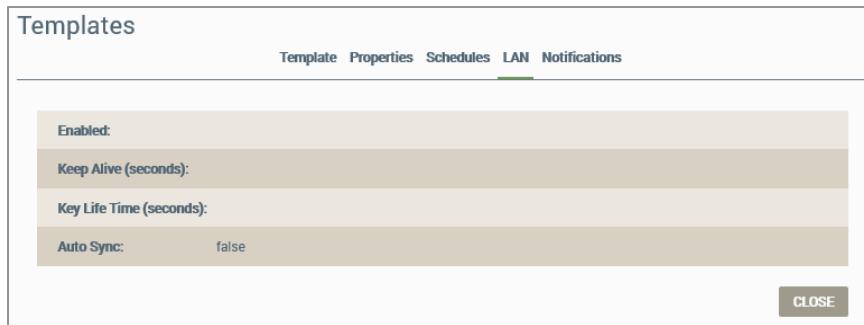
Click a table item to display Action details.



- **Name** (name of property for action)
- **Base Type** (data type of action: boolean, string, etc.)
- **In Range** (true = action is in range of value; false = action in range does not apply)
- **At Start** (true = check at start for in range condition; false = do not check)
- **At End** (true = check at end for in range condition; false = do not check)
- **Value** (value of action)
- **Active** (true = action is active; false = action is inactive)

6.6 Templates > LAN tab

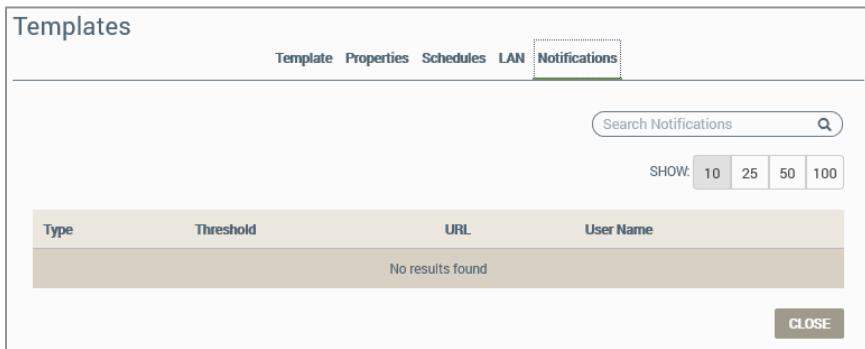
Click **LAN** sub-tab to view details. Details are view-only.



- **Enabled** (LAN is enabled)
- **Keep Alive (seconds)** (amount of time to keep LAN alive in seconds)
- **Key Life Time (seconds)** (total time in seconds that LAN is alive)
- **Auto Sync** (true = auto sync the LAN; false = auto sync not enforced)

6.7 Templates > Notifications tab

Click **Notifications** sub-tab to view details. Details are view-only.



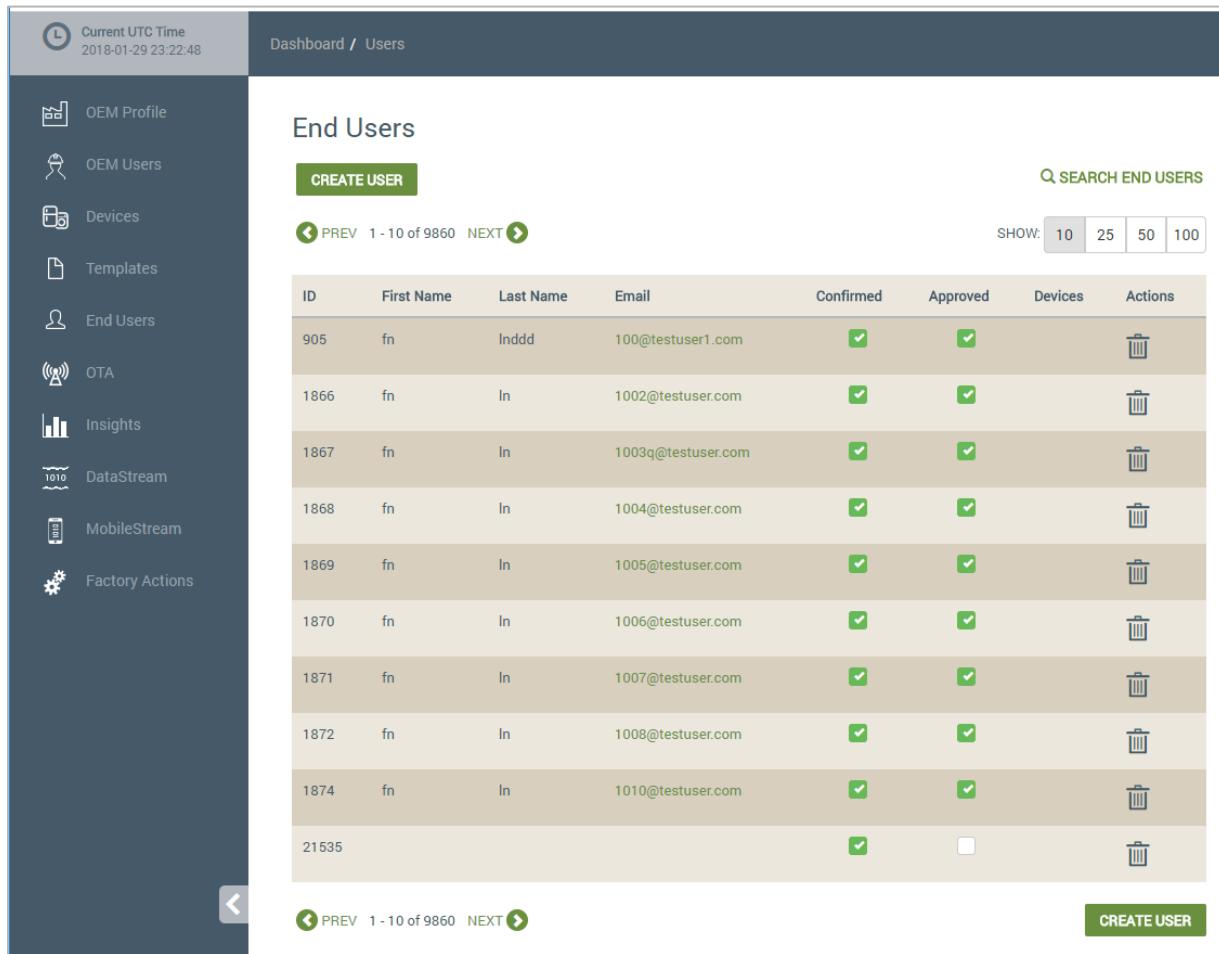
The screenshot shows a modal window titled 'Templates' with a sub-tab bar at the top: 'Template', 'Properties', 'Schedules', 'LAN', and 'Notifications'. The 'Notifications' tab is selected and highlighted with a green border. Below the sub-tabs is a search bar labeled 'Search Notifications' with a magnifying glass icon. Underneath the search bar is a 'SHOW' dropdown menu with options 10, 25, 50, and 100. The main content area is a table with four columns: 'Type', 'Threshold', 'URL', and 'User Name'. A single row in the table contains the text 'No results found'. At the bottom right of the modal is a 'CLOSE' button.

- **Type** (type of notification)
- **Threshold** (threshold when notification is initiated)
- **URL** (URL for the notification)
- **User Name** (user name associated with the notification)

7 End Users

The **End Users** section includes all registered device users. With the Search function, you can find, and sort registered users based on various criteria. Users can be created, edited, and deleted.

Figure 8 – Ayla Customer Dashboard, End Users page



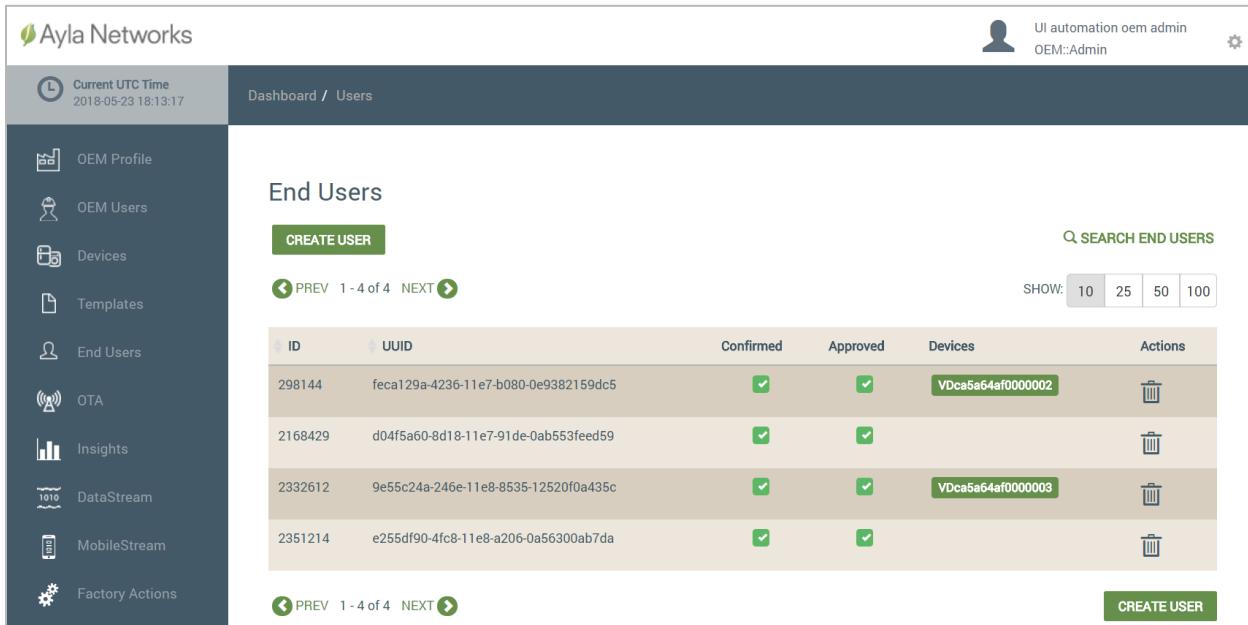
ID	First Name	Last Name	Email	Confirmed	Approved	Devices	Actions
905	fn	lnddd	100@testuser1.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1866	fn	ln	1002@testuser.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1867	fn	ln	1003q@testuser.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1868	fn	ln	1004@testuser.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1869	fn	ln	1005@testuser.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1870	fn	ln	1006@testuser.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1871	fn	ln	1007@testuser.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1872	fn	ln	1008@testuser.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
1874	fn	ln	1010@testuser.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		
21535				<input checked="" type="checkbox"/>	<input type="checkbox"/>		

Table column descriptions:

- **ID** (Ayla-assigned end user ID)
- **First Name/Last Name** (user's name)
- **Email** (user's email – click to display user details page)
- **Confirmed** (selected – confirmed; unselected – not confirmed) User email has been confirmed.
- **Approved** (selected – approved; unselected – not approved) user has permissions to sign-in, reset password, or request confirmation token.
- **Actions** (user actions for the individual row)

IMPORTANT!

If you are a customer in the EU, the [GDPR \(privacy\) feature](#) should be enabled so that Personal Identifiable Information (PII) is not shown anywhere in the dashboard. When GDPR is enabled, the End Users page does not show any PII, as shown below.



ID	UUID	Confirmed	Approved	Devices	Actions
298144	feca129a-4236-11e7-b080-0e9382159dc5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VDca5a64af0000002	
2168429	d04f5a60-8d18-11e7-91de-0ab553feed59	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VDca5a64af0000003	
2332612	9e55c24a-246e-11e8-8535-12520f0a435c	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	VDca5a64af0000003	
2351214	e255df90-4fc8-11e8-a206-0a56300ab7da	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

7.1 Search End Users

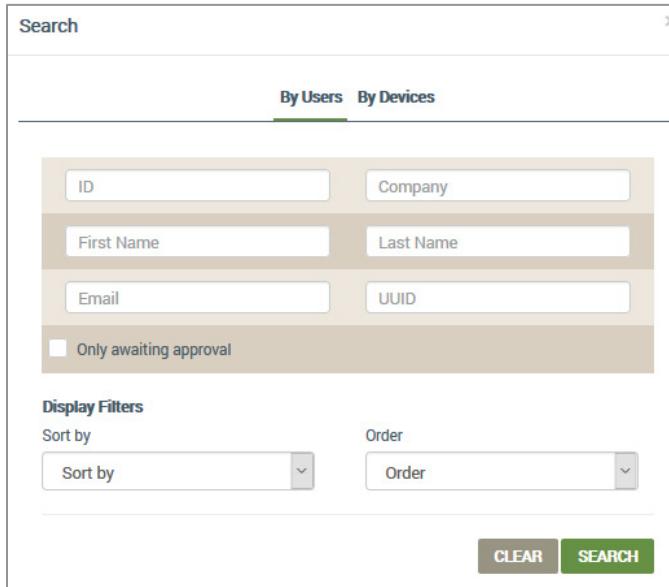
You can search for end users based on their name or registered device.

7.1.1 Search "By Users" tab

1. Click **End Users** in the Navigation Panel, and then **SEARCH END USERS**.



2. On the Search dialog box, **By Users** tab, enter search parameters:

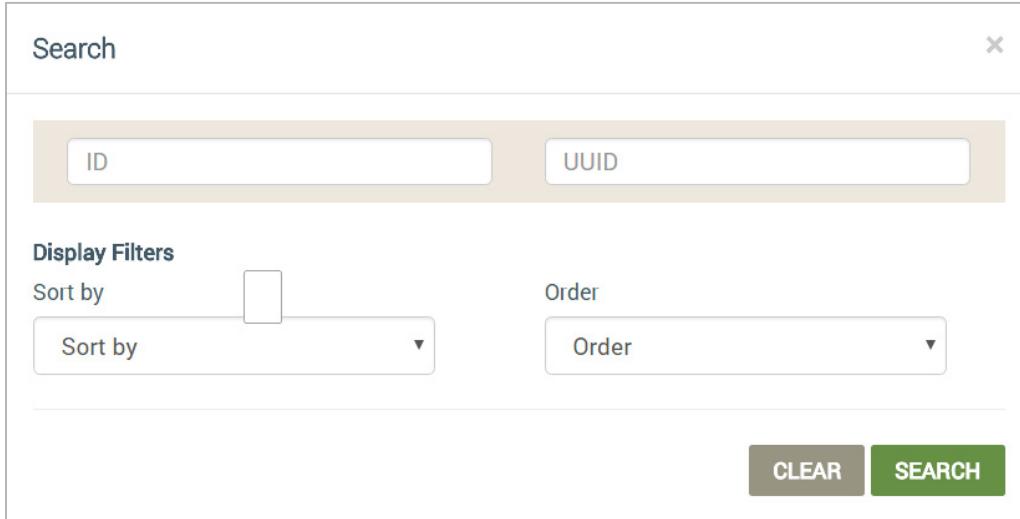


- **ID** (Ayla-assigned ID of registered user)
- **Company** (company of the user)
- **First Name** (first name of user)
- **Last Name** (last name of user)
- **Email** (email address of user)
- **UUID** (universal unique identifier)
- (filter) **Only awaiting approval** checkbox
- In **Display Filters**, Sort by:
 - First Name
 - Last Name
 - Email
- In **Display Filters**, Order:
 - Asc (ascending)
 - Desc (descending)

3. Click the **SEARCH**.

IMPORTANT!

If you are a customer in the EU, the [GDPR \(privacy\) feature](#) should be enabled so that Personal Identifiable Information (PII) is not shown anywhere in the dashboard. When GDPR is enabled, the By Users tab in the Search dialog box does not contain any PII, as shown below.



Search

ID UUID

Display Filters

Sort by Order

Sort by Order

CLEAR SEARCH

7.1.2 Search "By Devices" tab

1. Click **SEARCH END USERS**.

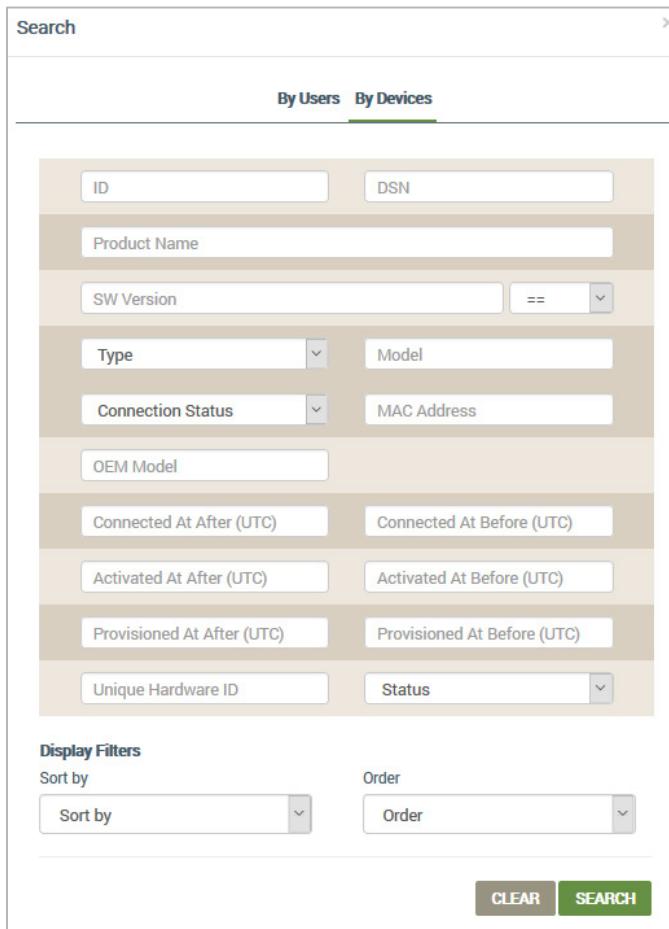


End Users

CREATE USER

SEARCH END USERS

2. On the Search dialog box, **By Devices** tab, enter search parameters:



The screenshot shows the 'Search' dialog box with the 'By Devices' tab selected. The interface is organized into several sections of input fields:

- Top Row:** ID, DSN
- Second Row:** Product Name
- Third Row:** SW Version (with a dropdown operator like ==), Type, Model
- Fourth Row:** Connection Status (with a dropdown operator like ==), MAC Address
- Fifth Row:** OEM Model
- Sixth Row:** Connected At After (UTC), Connected At Before (UTC)
- Seventh Row:** Activated At After (UTC), Activated At Before (UTC)
- Eighth Row:** Provisioned At After (UTC), Provisioned At Before (UTC)
- Ninth Row:** Unique Hardware ID, Status

Below these rows are 'Display Filters' for 'Sort by' and 'Order', each with dropdown menus. At the bottom are 'CLEAR' and 'SEARCH' buttons.

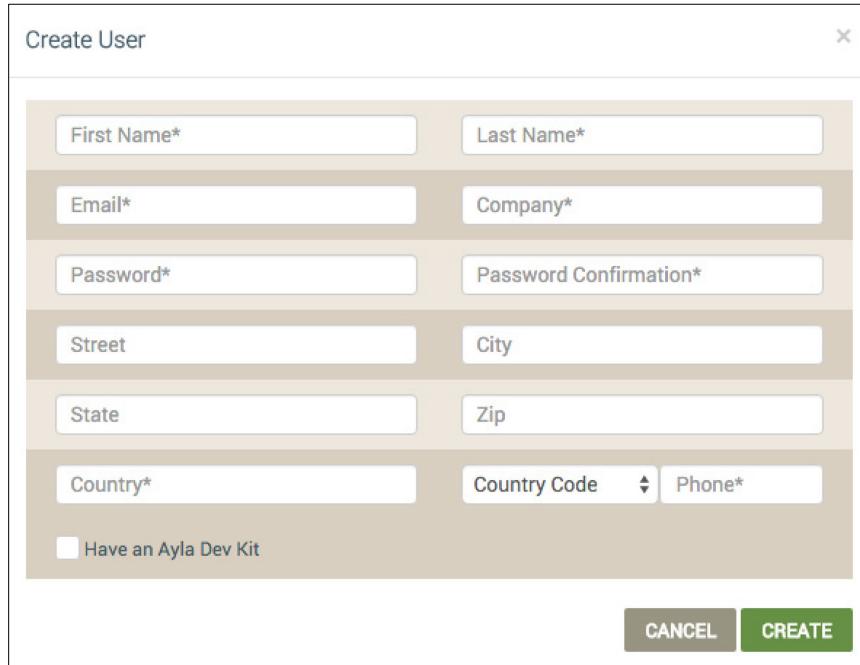
- **ID** (Ayla-assigned ID number when device is registered)
- **DSN** (the Ayla customer Device Serial Number)
- **Product Name** (user-friendly device name)
- **SW Version** (software version – enter value and include filters on drop-down):
 - ==
 - !=
 - like
 - not like
 - in
- **Type** (drop-down)
 - Wifi (wifi devices only)
 - Gateway (gateway devices only)
 - Node (devices only)
 - Node (local) – (these are local, i.e., PaaS, devices)
- **Model** (model number of Ayla module)

- **Connection Status** (drop-down – current status of device)
 - Offline
 - Initializing
 - Online
 - **MAC Address** (IP MAC address)
 - **OEM Model** (model number of the customer's host application board)
 - **Connected At After (UTC)** (connect at after date/time - select from calendar)
 - **Connected At Before (UTC)** (connect at before date/time - select from calendar)
 - **Activated At After (UTC)** (activated at after date/time - select from calendar)
 - **Activated At Before (UTC)** (activated at before date/time - select from calendar)
 - **Provisioned At After (UTC)** (provisioned at after date/time - select from calendar)
 - **Provisioned At Before (UTC)** (provisioned at before date/time - select from calendar)
 - **Unique Hardware ID** (IP of PaaG device)
 - **Status** (status of the device)
 - **In Display Filters, Sort by:**
 - ID
 - OEM
 - OEM Model
 - DSN
 - Connected At
 - **In Display Filters, Order:**
 - Asc (ascending)
 - Desc (descending)
3. Click **SEARCH**.
4. On the results, click any device listed to view details.

7.2 Manage End Users

7.2.1 Create End User

1. On the End Users table listing, click **CREATE USER**. This shows the Create User dialog box.



The dialog box is titled 'Create User' and contains the following fields arranged in a grid:

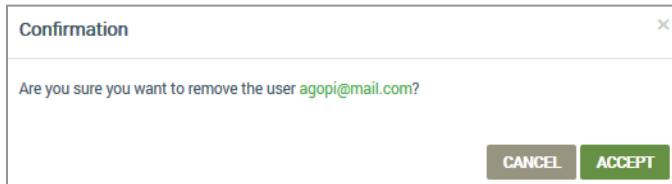
First Name*	Last Name*
Email*	Company*
Password*	Password Confirmation*
Street	City
State	Zip
Country*	Country Code <input type="button" value="▼"/> Phone*
<input type="checkbox"/> Have an Ayla Dev Kit	
<input type="button" value="CANCEL"/> <input type="button" value="CREATE"/>	

2. Enter the following details:
 - **First Name** (first name of user)
 - **Last Name** (last name of user)
 - **Email** (user's email address)
 - **Company** (company name)
 - **Password** (user's initial password and can be changed by the user)
 - **Password Confirmation** (re-enter password)
 - **Street** (street address of user's location)
 - **City** (city of user's location)
 - **State** (state/province of user's location)
 - **Zip** (zip code of user's location)
 - **Country** (country of user's location - enter initial character to narrow selection)
 - **Country Code** drop-down (list of country phone codes)
 - **Phone** (phone contact of user)
3. Review details to confirm accuracy.
4. Click **CREATE**.

7.2.2 Delete End User

On the End Users table listing:

1. Locate the End User to delete.
2. Click the **Trash Can**  icon. This shows the Confirmation dialog box.

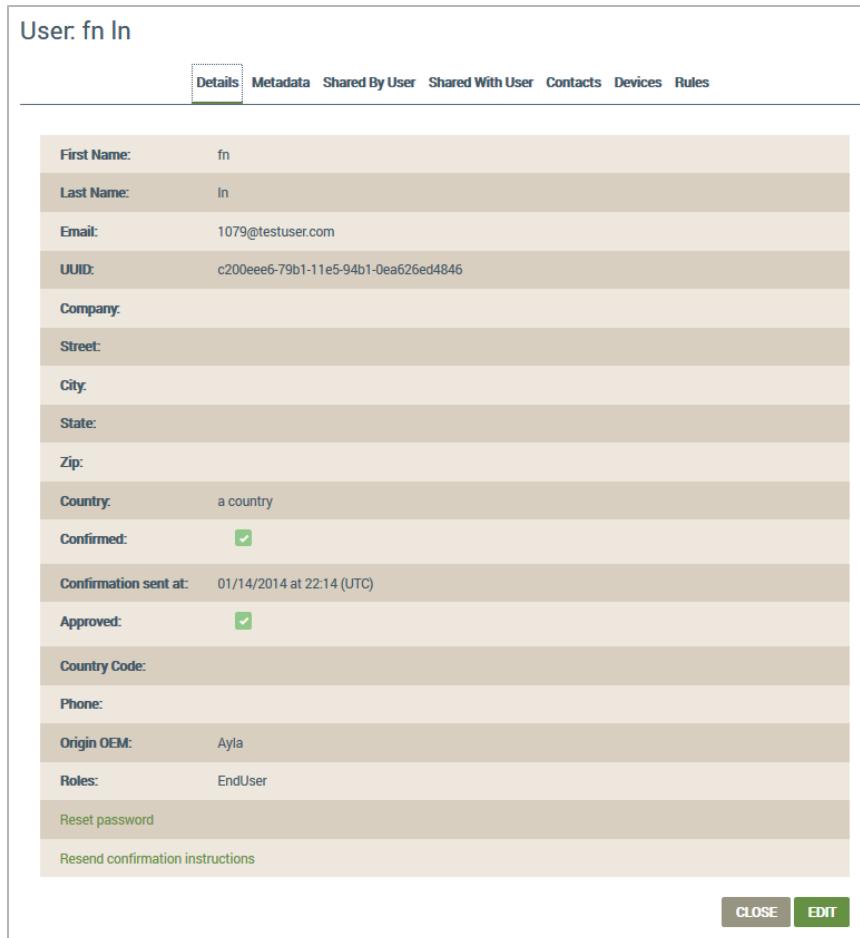


3. Click **ACCEPT**.

7.2.3 View/Edit End User Details

You can view details about individual end users and edit details, as needed.

1. On the End Users table listing, locate and click the End User.
2. This shows the User details with a series of tabs that contain additional information.



A screenshot of the User details view/edit screen. The title bar says "User: fn ln". Below it is a navigation bar with tabs: **Details** (selected, highlighted in green), **Metadata**, **Shared By User**, **Shared With User**, **Contacts**, **Devices**, and **Rules**.

The main area displays user information in a table format:

First Name:	fn
Last Name:	ln
Email:	1079@testuser.com
UUID:	c200eee6-79b1-11e5-94b1-0ea626ed4846
Company:	
Street:	
City:	
State:	
Zip:	
Country:	a country
Confirmed:	<input checked="" type="checkbox"/>
Confirmation sent at:	01/14/2014 at 22:14 (UTC)
Approved:	<input checked="" type="checkbox"/>
Country Code:	
Phone:	
Origin OEM:	Ayla
Roles:	EndUser
Reset password	
Resend confirmation instructions	

At the bottom are two buttons: "CLOSE" (gray) and "EDIT" (green).

End User – Details tab

This contains the End User's summary.

1. Review details on the Details tab.
2. To edit information, click **EDIT**. These details can be edited:

- **First Name / Last Name** (end user first name and last name)
- **Email** (user's email)
- **Company** (user's company)
- **Street** (user's street location)
- **City** (user's city location)
- **State** (user's state location)
- **Zip** (user's zip code)
- **Country** (user's country)
- **Confirmed** checkbox

Select (user accepted email credentials)

Unselect (email credentials not yet accepted)

- **Confirmation sent at** (date/time confirmation sent to user)
- **Approved** checkbox

Select

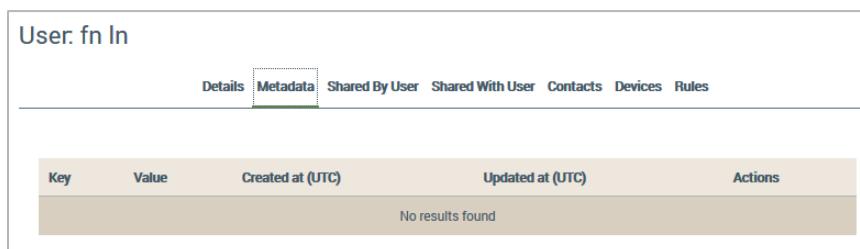
Unselect

- **Country Code** drop-down (list of country phone codes)
- **Phone**
- **Reset Password** (if clicked shows a Confirmation dialog, then sends an email to reset the password)
- **Resend Confirmation Instructions** (if clicked, shows a Confirmation dialog, then sends the confirmation instructions to the email address)
- **Add New Role** drop-down (list of User Roles)

3. When done click **UPDATE**.

End User – Metadata tab

Metadata (key/value pairs) are associated with the End User (i.e., key=Gender, value=male; key=Age, value=20-30; key=Location, value=SD, etc.)



Key	Value	Created at (UTC)	Updated at (UTC)	Actions
No results found				

End User – Shared by User tab

This shows details shared by the End User to others.

User: fn ln									
Details	Metadata	Shared By User	Shared With User	Contacts	Devices	Rules			
Share ID	Grant ID	User ID	Resource ID	Resource Name	Created at (UTC)	Start (UTC)	End (UTC)	Operation	
No results found									

Table columns description:

- **Share ID** (Ayla-assigned ID of the device being shared)
- **Grant ID** (ID of the customer granting use of the shared device)
- **User ID** (Ayla-assigned ID of the registered user authorized to share this device)
- **Resource ID** (property ID of the device)
- **Resource Name** (name for the resource that is shared)
- **Created at (UTC)** (date the share process was created)
- **Start (UTC)** (start date the device being shared)
- **End (UTC)** (end date of the device being
- **Operation** (level of privilege given for the operation on this row)

End User – Shared with User tab

This shows details shared to the End User by other End Users.

User: fn ln									
Details	Metadata	Shared By User	Shared With User	Contacts	Devices	Rules			
Share ID	Grant ID	User ID	Resource ID	Resource Name	Created at (UTC)	Start (UTC)	End (UTC)	Operation	
No results found									

End User – Contacts tab

This shows the End User's contacts.



User: fn ln

Details Metadata Shared By User Shared With User **Contacts** Devices Rules

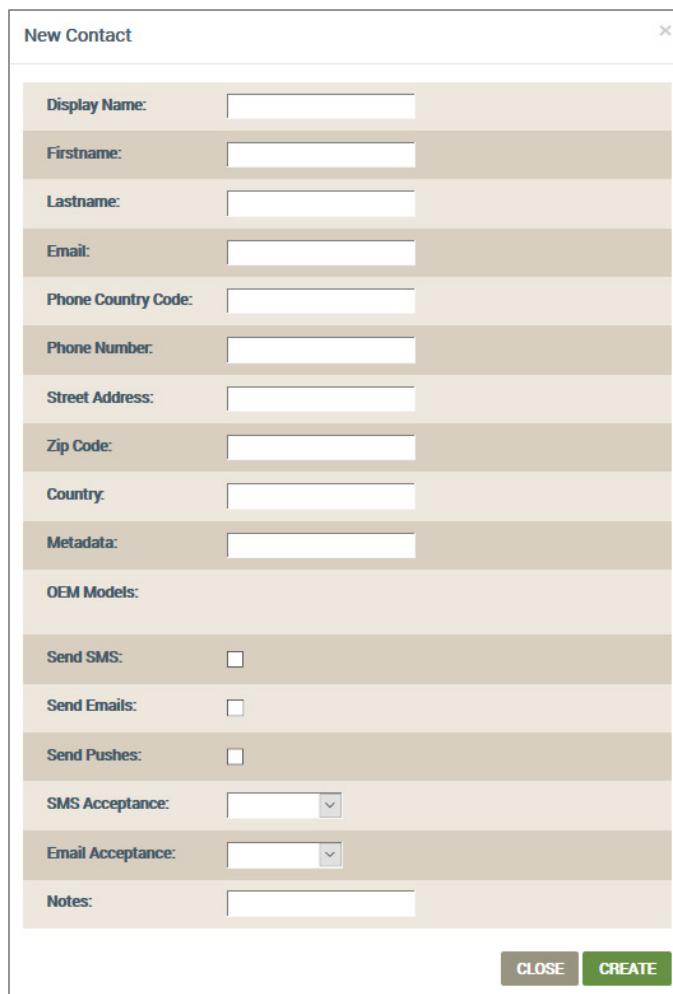
PREV 1-1 of 1 NEXT SHOW: 10 25 50 100

Display Name	Firstname	Lastname	Actions
asd	asd	fds	

PREV 1-1 of 1 NEXT

NEW CONTACT

1. To add a contact, click **NEW CONTACT**. On the New Contact dialog box:



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:

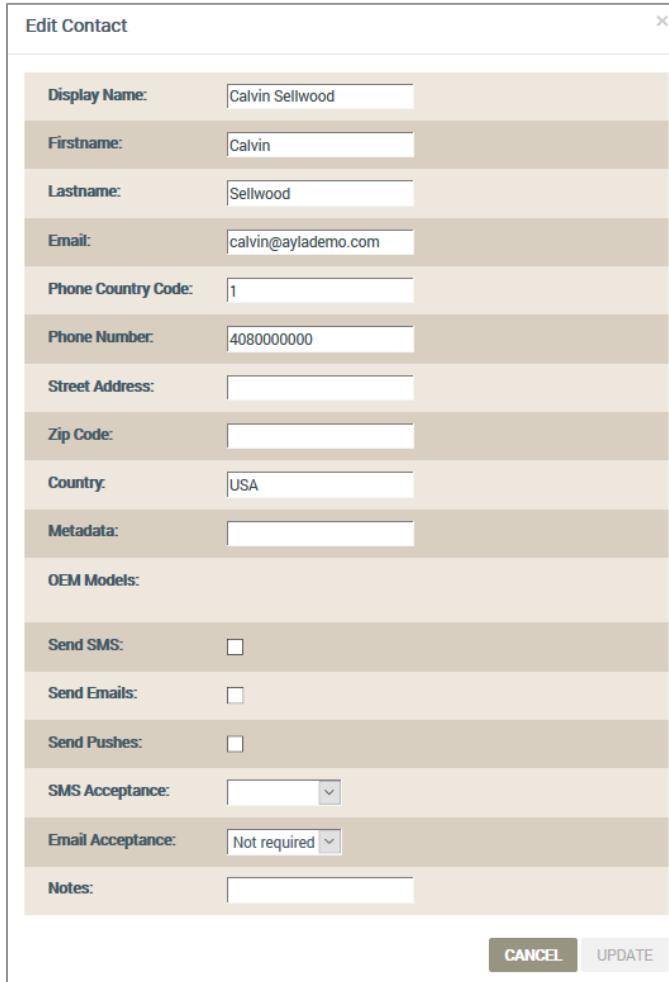
CLOSE **CREATE**

Enter details:

- **Display Name** (user-friendly name for this contact)
- **Firstname** (first name of contact)

- **Lastname** (last name of contact)
- **Email** (email of contact)
- **Phone Country Code** (select contact's country phone code)
- **Phone Number** (contact's phone number)
- **Street Address** (contact's street location)
- **Zip Code** (contact's postal zip code)
- **Country** (contact's country)
- **Metadata** (metadata about the contact)
- **OEM Models** (information only, model number of the customer's host application board assigned to this contact)
- **Send SMS** checkbox
 - Select (to send SMS notifications)
 - Unselect (to not send SMS notifications)
 - **Send Emails** (select to send Email notifications)
 - Select (to send email notifications)
 - Unselect (to not send email notifications)
 - **Send Pushes** (select to send push notifications)
 - Select (to send notifications)
 - Unselect (to not send notifications)
 - **SMS Acceptance** drop-down
 - Not Required (contact receives all SMS notification, regardless of wanted/unwanted)
 - Required (contact must take action to accept SMS notification)
 - **Email Acceptance** drop-down
 - Not Required (contact receives all email notification, regardless of wanted/unwanted)
 - Required (contact must take action to accept email notification)
 - **Notes** (any additional information about this contact)
 - Click **CREATE**.

2. Click the individual contact to view details. If needed, click **EDIT**. This shows the Edit Contact dialog box:



The dialog box is titled "Edit Contact". It contains the following fields:

- Display Name:** Calvin Sellwood
- Firstname:** Calvin
- Lastname:** Sellwood
- Email:** calvin@aylademo.com
- Phone Country Code:** 1
- Phone Number:** 4080000000
- Street Address:** (empty)
- Zip Code:** (empty)
- Country:** USA
- Metadata:** (empty)
- OEM Models:** (empty)
- Send SMS:**
- Send Emails:**
- Send Pushes:**
- SMS Acceptance:** (dropdown menu)
- Email Acceptance:** Not required
- Notes:** (empty)

At the bottom are two buttons: **CANCEL** and **UPDATE**.

- c. Change details as needed.
d. Click **UPDATE**.
3. If needed, click **Trash Can** icon to delete contact.

End User – Devices

This shows the End User's assigned devices.



The table is titled "User: fn ln". It has the following structure:

User: fn ln		Details	Metadata	Shared By User	Shared With User	Contacts	Devices	Rules
SHOW: 10 25 50 100								
ID	DSN	No results found						

Click the device to review all details (settings, template, LAN Support, etc.) If needed, device details can be edited.

End User – Rules

Rules Engine is a configurable framework of rules that include inputs, conditions, and outputs. Customers can configure and manage rules on the Developer Portal UI. Rules can be configured by the Ayla customer or consumer-managed (via mobile app).

This shows the End User's assigned rules.

User: shqa end user			
Details	Metadata	Shared By User	Shared With User
Contacts	Devices	Rules	
PREV	1 - 5 of 5	NEXT	
			SHOW: 10 25 50 100
▲ Rule Name	>Description	>Status	actions
Rule 1	Test Rule	disabled	Enable
Rule 2	Test Rule	enabled	Disable
Rule 3	Test Rule	disabled	Enable
av1	1av	disabled	Enable
integer	integer	disabled	Enable

[PREV](#) 1 - 5 of 5 [NEXT](#)

NOTE This shows rules created by the End User. The Ayla customer cannot create an End User Rule. If needed (for diagnostics), a rule can be disabled.

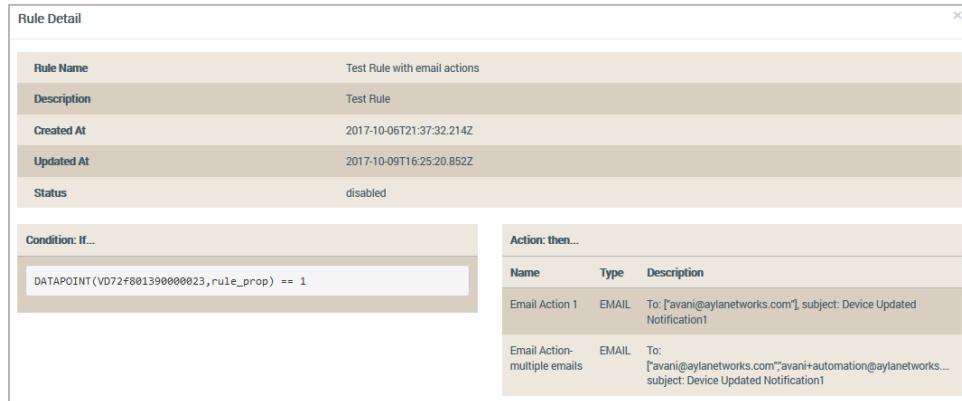
Table columns:

- **Rule Name** (name of the End User rule)
- **Description** (description of the rule, entered by the End User)
- **Status** (current status of the rule – enabled, disabled)
- **Action** (click to apply)

If Status is disabled, action is Enable. Click to enable rule.

If Status is enabled, action is Disable. Click to disable rule.

Click a Rule to display Rule Details dialog box.



The screenshot shows the 'Rule Detail' dialog box. It has two main sections: 'Condition: If...' and 'Action: then...'. The 'Condition: If...' section contains the condition: `DATAPOINT(VD72f801390000023,rule_prop) == 1`. The 'Action: then...' section lists two actions:

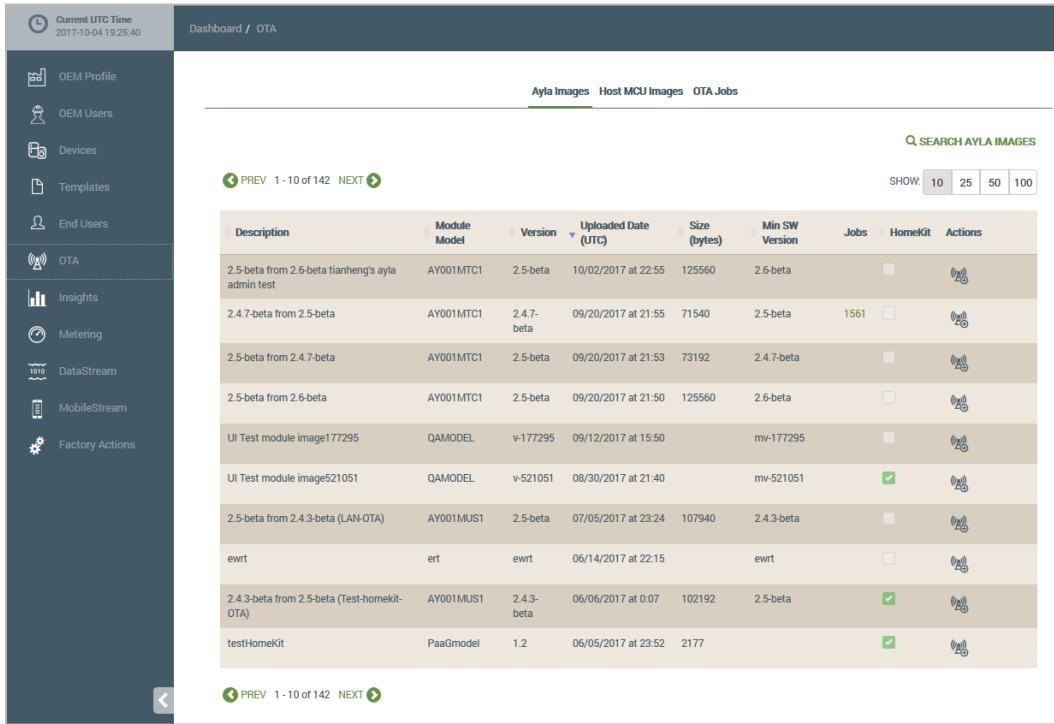
Name	Type	Description
Email Action 1	EMAIL	To: ["avani@aylanetworks.com"], subject: Device Updated Notification1
Email Action- multiple emails	EMAIL	To: ["avani@aylanetworks.com","avani+automation@aylanetworks..."], subject: Device Updated Notification1

- **Rule Name** (name of the End User rule)
- **Description** (description of the rule, entered by the End User)
- **Created At** (date/time rule was created)
- **Updated At** (date/time rule was updated)
- **Status** (current status of the rule – enabled, disabled)
- **Condition If...** (list of conditions that must be valid before the "Action Then" is executed)
- **Action then...** (Name, Type, Description - list of actions to take place when "Conditions If..." are valid)

8 OTA

OTA (over the air) updates remote device images in both the Wi-Fi module and the product solution. (For additional information on OTA, see *Host OTA Instructions User Manual_AY006UOT3*.)

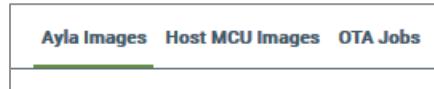
Figure 9 – Ayla Customer Dashboard, OTA page



Description	Module Model	Version	Uploaded Date (UTC)	Size (bytes)	Min SW Version	Jobs	HomeKit	Actions
2.5-beta from 2.6-beta tianheng's ayla admin test	AY001MTC1	2.5-beta	10/02/2017 at 22:55	125560	2.6-beta	<input type="checkbox"/>		
2.4.7-beta from 2.5-beta	AY001MTC1	2.4.7-beta	09/20/2017 at 21:55	71540	2.5-beta	1561 <input checked="" type="checkbox"/>		
2.5-beta from 2.4.7-beta	AY001MTC1	2.5-beta	09/20/2017 at 21:53	73192	2.4.7-beta	<input type="checkbox"/>		
2.5-beta from 2.6-beta	AY001MTC1	2.5-beta	09/20/2017 at 21:50	125560	2.6-beta	<input type="checkbox"/>		
UI Test module image177295	QAMODEL	v-177295	09/12/2017 at 15:50		mv-177295	<input type="checkbox"/>		
UI Test module image521051	QAMODEL	v-521051	08/30/2017 at 21:40		mv-521051	<input checked="" type="checkbox"/>		
2.5-beta from 2.4.3-beta (LAN-OTA)	AY001MJS1	2.5-beta	07/05/2017 at 23:24	107940	2.4.3-beta	<input type="checkbox"/>		
ewrt	ert	ewrt	06/14/2017 at 22:15		ewrt	<input type="checkbox"/>		
2.4.3-beta from 2.5-beta (Test-homekit-OTA)	AY001MJS1	2.4.3-beta	06/06/2017 at 0:07	102192	2.5-beta	<input checked="" type="checkbox"/>		
testHomeKit	PaaModel	1.2	06/05/2017 at 23:52	2177		<input checked="" type="checkbox"/>		

In the Ayla Customer Dashboard, you can manage OTA tasks (create, update and track all OTA images (firmware updates) in the developer and field environments. OTA can handle module software, application MCU, and Linux firmware updates.

There are three tabs on the OTA page:



- Ayla Images
- Host MCU Images
- OTA Jobs

NOTE Your company should have a formal testing and implementation plan for all OTA jobs.

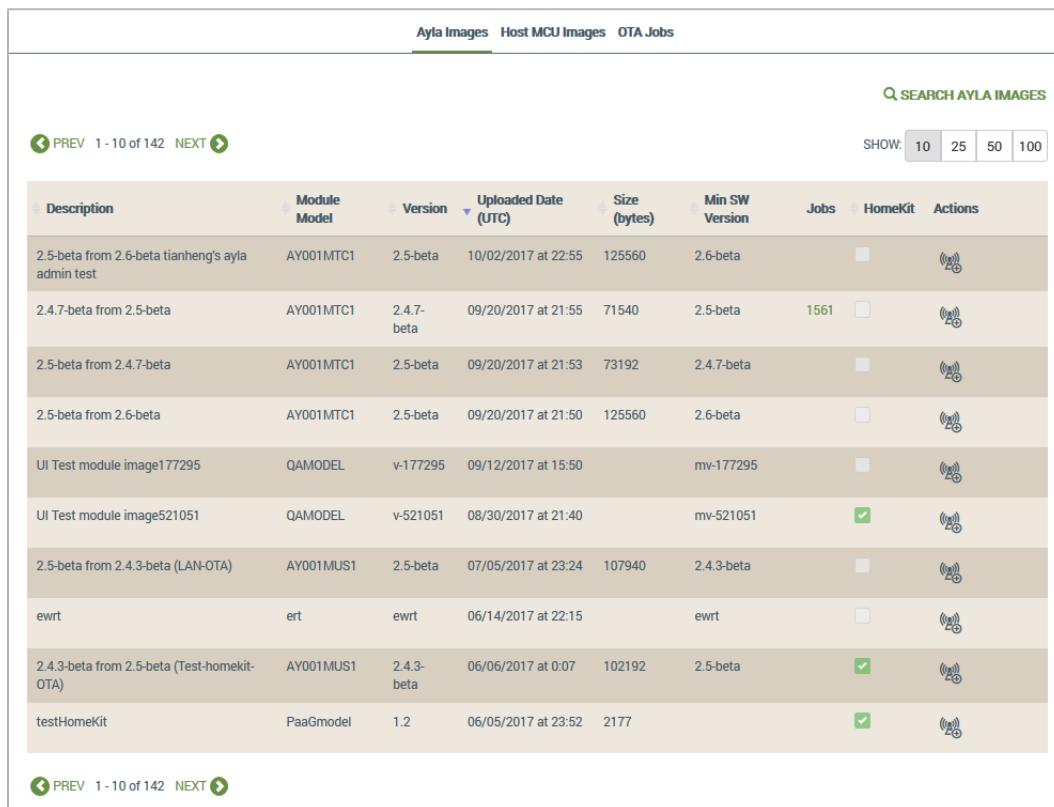
Ayla Networks recommends the following best methods be used before distributing OTA updates to devices in the field.

- **ALWAYS** test on the Developer Environment. Apply repeated tests to confirm that firmware updates are installed properly, run initialization scenarios, and do final testing after OTA deployment.
- Ramp up on field deployment to not overwhelm current environment. Rather than a single massive update to every field device, start with 5-10% of field devices. Test verify individual devices in each group.
- When the OTA job is complete, make sure that all online devices have successfully updated to the new firmware version.
- Following a complete deployment, do random testing over a defined time period.

8.1 Ayla Images tab

NOTE Ayla Images are read-only. No changes can be made to these images from the Ayla Customer Dashboard.

This OTA tab provides a listing of Ayla Images available for deployment.



AYLA IMAGES

SEARCH AYLA IMAGES

SHOW: 10 25 50 100

PREV 1 - 10 of 142 NEXT

Description	Module Model	Version	Uploaded Date (UTC)	Size (bytes)	Min SW Version	Jobs	HomeKit	Actions
2.5-beta from 2.6-beta tianheng's ayla admin test	AY001MTC1	2.5-beta	10/02/2017 at 22:55	125560	2.6-beta	<input type="checkbox"/>		
2.4.7-beta from 2.5-beta	AY001MTC1	2.4.7-beta	09/20/2017 at 21:55	71540	2.5-beta	1561	<input type="checkbox"/>	
2.5-beta from 2.4.7-beta	AY001MTC1	2.5-beta	09/20/2017 at 21:53	73192	2.4.7-beta	<input type="checkbox"/>		
2.5-beta from 2.6-beta	AY001MTC1	2.5-beta	09/20/2017 at 21:50	125560	2.6-beta	<input type="checkbox"/>		
UI Test module image177295	QAMODEL	v-177295	09/12/2017 at 15:50		mv-177295	<input type="checkbox"/>		
UI Test module image521051	QAMODEL	v-521051	08/30/2017 at 21:40		mv-521051	<input checked="" type="checkbox"/>		
2.5-beta from 2.4.3-beta (LAN-OTA)	AY001MUS1	2.5-beta	07/05/2017 at 23:24	107940	2.4.3-beta	<input type="checkbox"/>		
ewrt	ert	ewrt	06/14/2017 at 22:15		ewrt	<input type="checkbox"/>		
2.4.3-beta from 2.5-beta (Test-homekit-OTA)	AY001MUS1	2.4.3-beta	06/06/2017 at 0:07	102192	2.5-beta	<input checked="" type="checkbox"/>		
testHomeKit	PaaGmodel	1.2	06/05/2017 at 23:52	2177		<input checked="" type="checkbox"/>		

PREV 1 - 10 of 142 NEXT

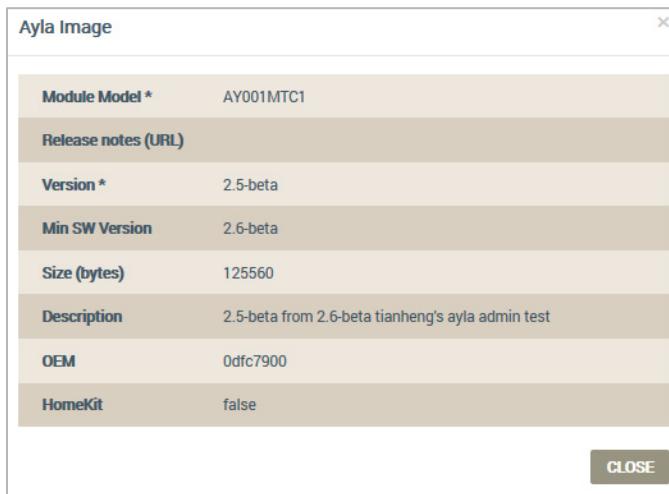
Table column descriptions:

- **Description** (name of the Ayla Image)
- **Module Model** (model number of Ayla module associated with the Ayla Image)
- **Version** (Ayla Image version number)

- **Uploaded Date (UTC)** (date/time the Host MCU image was uploaded)
- **Size (Bytes)** (size of the image file)
- **Min SW Version** (minimum version number of Host MCU Image)
- **Jobs** (jobs that are running or have run on this device)
- **HomeKit** (checkbox – if selected, a HomeKit is associated with the Image)
- **Actions** (create OTA job on this image)

8.1.1 View Ayla Image details

To view individual image details, click on an row in the table listing. This shows the Ayla Image dialog box.



- **Module Model** (model name of the module)
- **Release notes (URL)** (URL location of the release notes for this image)
- **Version** (version number of the image)
- **Min SW Version** (minimum version of image that can be updated with this image)
- **Size (bytes)** (size of the Ayla image file)
- **Description** (additional details about the image)
- **OEM** (Ayla-assigned OEM ID)
- **HomeKit** (true = image is associated with a HomeKit; false = no associated HomeKit)
- **CLOSE** (button to close dialog box)

8.1.2 View Ayla Image jobs

1. If the item in the table listing has a number (1 or more) in the Jobs column, click the individual job number for more details.

2.4.7-rc2 LAN-OTA test image- test DP	AY001MTS1	2.4.7-rc2	09/21/2016 at 0:33	832420	2.4.7-rc2	1216	<input type="checkbox"/>	
ron test1d	AY001MUS1	1.15.2	09/02/2016 at 23:33	59260	1.15.1	1182 1184 1187 (MORE)	<input type="checkbox"/>	
1.15.2	ledevb	1.15.2	09/02/2016 at 23:31	59260	1.15.1	1157	<input type="checkbox"/>	

2. This shows the OTA Job page.

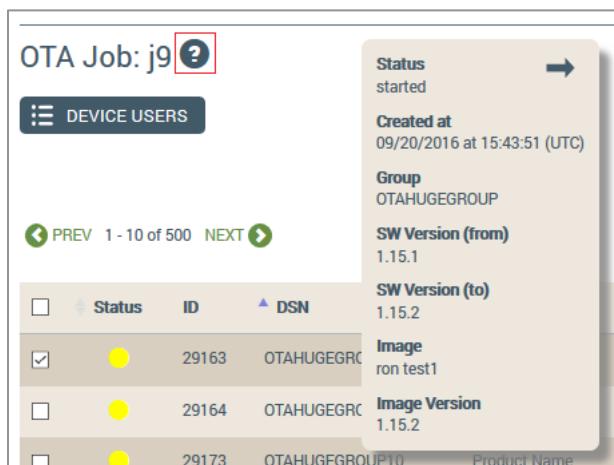
Targeted Devices (500) Pending (500) Failed (0) Completed (0)												
OTA Job: j4												
DEVICE USERS		ABORT JOB										
Search OTA Jobs Devices									SHOW: 10 25 50 100			
PREV 1 - 10 of 500 NEXT												
<input type="checkbox"/> Status ID DSN Product Model OEM Model Host SW Version Image User Connected At (UTC)												
<input type="checkbox"/> 30206 OTAHUGEGROUP2DEV0 Product Name TEST OTEST bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev 12/03/2015 at 6:01:48												
<input type="checkbox"/> 30207 OTAHUGEGROUP2DEV1 Product Name TEST OTEST bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev 12/03/2015 at 6:01:48												
<input type="checkbox"/> 30216 OTAHUGEGROUP2DEV10 Product Name TEST OTEST bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev 12/03/2015 at 6:01:53												
<input type="checkbox"/> 30306 OTAHUGEGROUP2DEV100 Product Name TEST OTEST bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev 12/03/2015 at 6:02:37												
<input type="checkbox"/> 30307 OTAHUGEGROUP2DEV101 Product Name TEST OTEST bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev 12/03/2015 at 6:02:38												
<input type="checkbox"/> 30308 OTAHUGEGROUP2DEV102 Product Name TEST OTEST bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev 12/03/2015 at 6:02:38												
<input type="checkbox"/> 30309 OTAHUGEGROUP2DEV103 Product Name TEST OTEST bc 1.0.1 01/09/13 12:44:31 ID jre/mfg/27ac4ee dev 12/03/2015 at 6:02:39												

- o **Selection** checkbox (to select individual job IDs for an abort action)
- o **Status** (status of OTA job)
- o **ID** (job ID)
- o **DSN** (DSN of the device for OTA job)
- o **Product** (name of the device)
- o **Model** (model of the device)
- o **OEM Model** (model number of the customer's host application board)
- o **Host SW Version** (software version of device)
- o **Image** (name of the image)

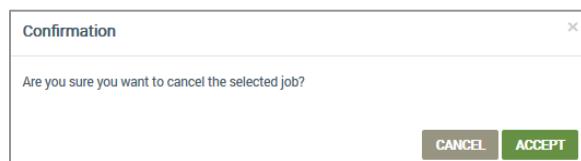
- **User** (device user)
 - **Connected At (UTC)** (when device was connected for OTA)
3. To review available devices, click tabs to display details in table listing:



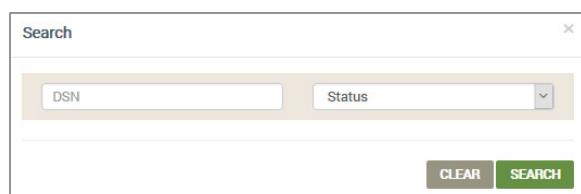
- **Target Devices** tab (lists all targeted devices)
 - **Pending** tab (lists all pending devices)
 - **Failed** tab (lists all failed devices)
 - **Completed** (lists all completed/updated devices)
4. Hover over the **Question** icon for job summary details.



5. To cancel a job, click **ABORT JOB**. This shows the Confirmation dialog box. Click **ACCEPT** to abort.



6. To search, click **OTA jobs Devices**. On the Search dialog box, enter **DSN**, select **Status** drop-down, and click **SEARCH**.

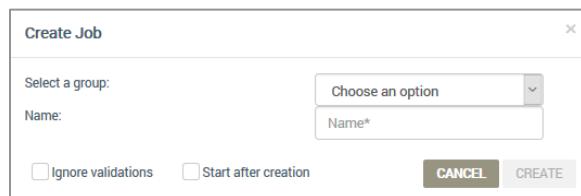


8.1.3 Create OTA Job

1. On the OTA page, Actions column, click the **Create OTA Job** icon.

Size (bytes)	Min SW Version	Jobs	Actions
107940	2.4.3-beta		
102192	2.5-beta		

2. On the Create Job dialog box:



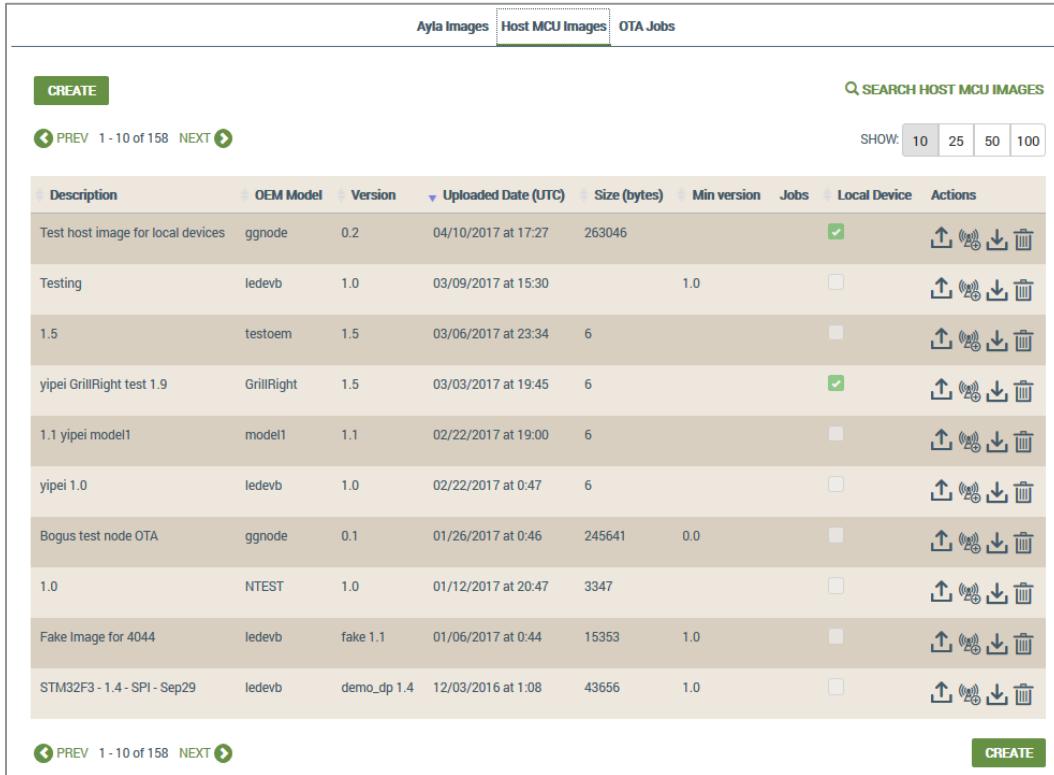
The dialog box is titled "Create Job". It contains the following fields and buttons:

- Select a group: A dropdown menu labeled "Choose an option".
- Name: A text input field labeled "Name*".
- Ignore validations: A checkbox.
- Start after creation: A checkbox.
- CANCEL button.
- CREATE button.

- In **Select a group** drop-down, select from the list.
- Enter **Name** (name of the job)
- **Ignore validations** checkbox:
 - Select (to not validate on version number of device to be updated)
 - Unselect (to verify based on version number)
- **Start after creation** checkbox:
 - Select (to immediately start OTA after it is created)
 - Unselect (to wait for an intentional start)
3. Click **CREATE**.

8.2 Host MCU Images tab

The Host MCU image sends and receives name (property)/value (datapoint) pairs between the MCU and the Ayla Device Service (ADS).



Host MCU Images								
Actions		Host MCU Images						
Actions		Host MCU Images						
Actions		Host MCU Images						
Description	OEM Model	Version	Uploaded Date (UTC)	Size (bytes)	Min version	Jobs	Local Device	Actions
Test host image for local devices	ggnode	0.2	04/10/2017 at 17:27	263046			<input checked="" type="checkbox"/>	   
Testing	ledevb	1.0	03/09/2017 at 15:30		1.0		<input type="checkbox"/>	   
1.5	testoem	1.5	03/06/2017 at 23:34	6			<input type="checkbox"/>	   
yipei GrillRight test 1.9	GrillRight	1.5	03/03/2017 at 19:45	6			<input checked="" type="checkbox"/>	   
1.1 yipei model1	model1	1.1	02/22/2017 at 19:00	6			<input type="checkbox"/>	   
yipei 1.0	ledevb	1.0	02/22/2017 at 0:47	6			<input type="checkbox"/>	   
Bogus test node OTA	ggnode	0.1	01/26/2017 at 0:46	245641	0.0		<input type="checkbox"/>	   
1.0	NTEST	1.0	01/12/2017 at 20:47	3347			<input type="checkbox"/>	   
Fake Image for 4044	ledevb	fake 1.1	01/06/2017 at 0:44	15353	1.0		<input type="checkbox"/>	   
STM32F3 - 1.4 - SPI - Sep29	ledevb	demo_dp 1.4	12/03/2016 at 1:08	43656	1.0		<input type="checkbox"/>	   

Table column descriptions:

- **Description** (description of the image)
- **OEM Model** (model number of the Ayla customer host application board)
- **Version** (image version number)
- **Uploaded Date (UTC)** (date/time the image was uploaded)
- **Size (Bytes)** (size of the image file)
- **Min version** (minimum version number of Host MCU Image that can be updated)
- **Jobs** (Jobs identifier for the OTA process)
- **Local Device** checkbox:
Select (device image can be used on local device, i.e., PaaG - Phone as a Gateway device)
Unselect (device is not accessible as a local device).
- **Actions** (types of actions that can be performed with the image)
 - **Upload Image** (upload a replacement image)
 - **Create OTA Job** (create OTA job on this image)
 - **Download Image** (download file)

- **Trash can** (delete image with confirmation)

8.2.1 Host MCU Images – Upload Image

1. Locate the image.
2. Click **Upload** icon.



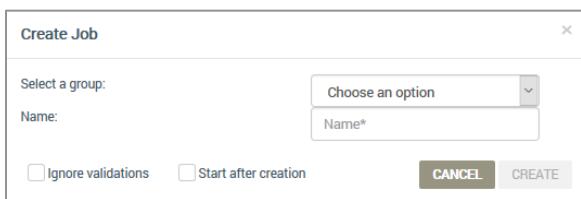
3. In the file upload dialog, locate and select the file.
4. Click **Open**.

8.2.2 Host MCU Images – Create OTA job

1. Locate the image.
2. Click **Create OTA job** icon.

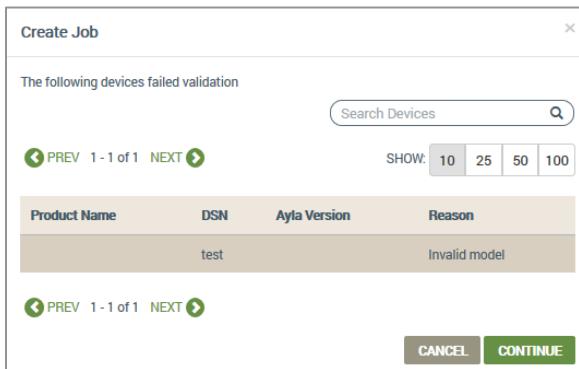


3. On the Create Job dialog box:



- In **Select a group** drop-down, select from the list.
 - Enter **Name** (name of OTA job)
 - As needed, select/unselect checkboxes:
 - **Ignore validations** checkbox:
Select (to not validate on version number of device to be updated)
Unselect (to verify based on version number)
 - **Start after creation** checkbox:
Select (to immediately start OTA after it is created)
Unselect (to wait for an intentional start)
4. Click **CREATE**.

5. Any checks/validations will provide success/failure details. Click **CONTINUE**.



The following devices failed validation

Product Name	DSN	Ayla Version	Reason
test			Invalid model

SHOW: 10 25 50 100

PREV 1-1 of 1 NEXT

CANCEL CONTINUE

6. The green page message headline will indicate success (red for failure).

8.2.3 Host MCU Images – Download Image

1. Locate the image in the table listing.
2. Click **Download** icon.



In the file download dialog are options to open or save the file.

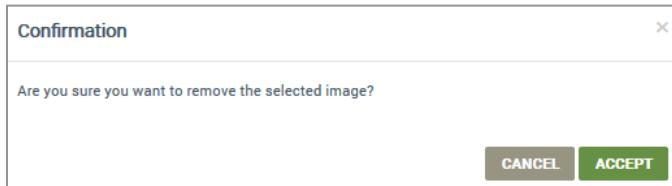
3. Select **Save File**.
4. Click **OK**.

8.2.4 Host MCU Images – Delete Image

1. Locate the image in the table listing.
2. Click **Trash Can** icon.



3. On the Confirmation dialog, click **ACCEPT**.



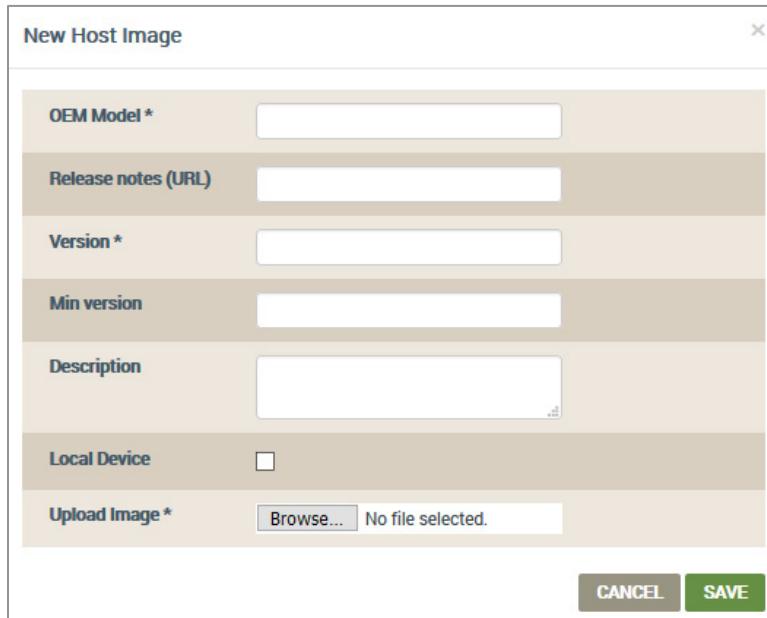
Are you sure you want to remove the selected image?

CANCEL ACCEPT

8.3 Manage Host MCU Images

8.3.1 Create Host MCU Image

1. On the Host MCU Images table listing, click **CREATE**. This opens a New Host Image dialog box.



The dialog box is titled "New Host Image". It contains the following fields:

- OEM Model ***: Text input field.
- Release notes (URL)**: Text input field.
- Version ***: Text input field.
- Min version**: Text input field.
- Description**: Text input field with a height of 100px.
- Local Device**: A checkbox.
- Upload Image ***: A "Browse..." button and a text field showing "No file selected.".

At the bottom are "CANCEL" and "SAVE" buttons.

2. Enter details:
 - **OEM Model** (model number of the customer's host application board)
 - **Release notes (URL)** (URL of version release notes)
 - **Version** (version of this image)
 - **Min version** (minimum version this image can update)
 - **Description** (description of the host image)
 - **Local Device** checkbox
Select (image will only be used for a local device, i.e., Phone as a Gateway device)
Unselect (for other devices, do not select checkbox)
 - **Upload image** (click **Browse** to locate and select image file)
3. Click **SAVE**.

The new MCU image is added to the table listing.

8.3.2 View/Edit Host MCU Image

1. On the **Host MCU Images** tab table listing, click the image. This shows Host MCU Image dialog box.



The dialog box is titled "Host MCU Image". It contains the following fields and values:

OEM Model *	ggnode
Release notes (URL)	
Version *	0.2
Min version	
Size (bytes)	263046
Description	Test host image for local devices
Local Device	true

At the bottom are two buttons: **CLOSE** and **EDIT**.

2. Review the details. To change values, click **EDIT**.
3. Modify details as needed.
 - **OEM Model** (model number of the customer's host application board)
 - **Release notes (URL)** (location of release notes)
 - **Version** (current version of image)
 - **Min version** (minimum version this image updates)
 - **Size (bytes)** (size of the image)
 - **Description** (description information about image)
 - **Local Device** checkbox

Select (image will only be used for a local device, i.e., Phone as a Gateway device)

Unselect (for other devices, do not select checkbox)
4. When done, click **UPDATE**.

8.3.3 Prepare 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 -

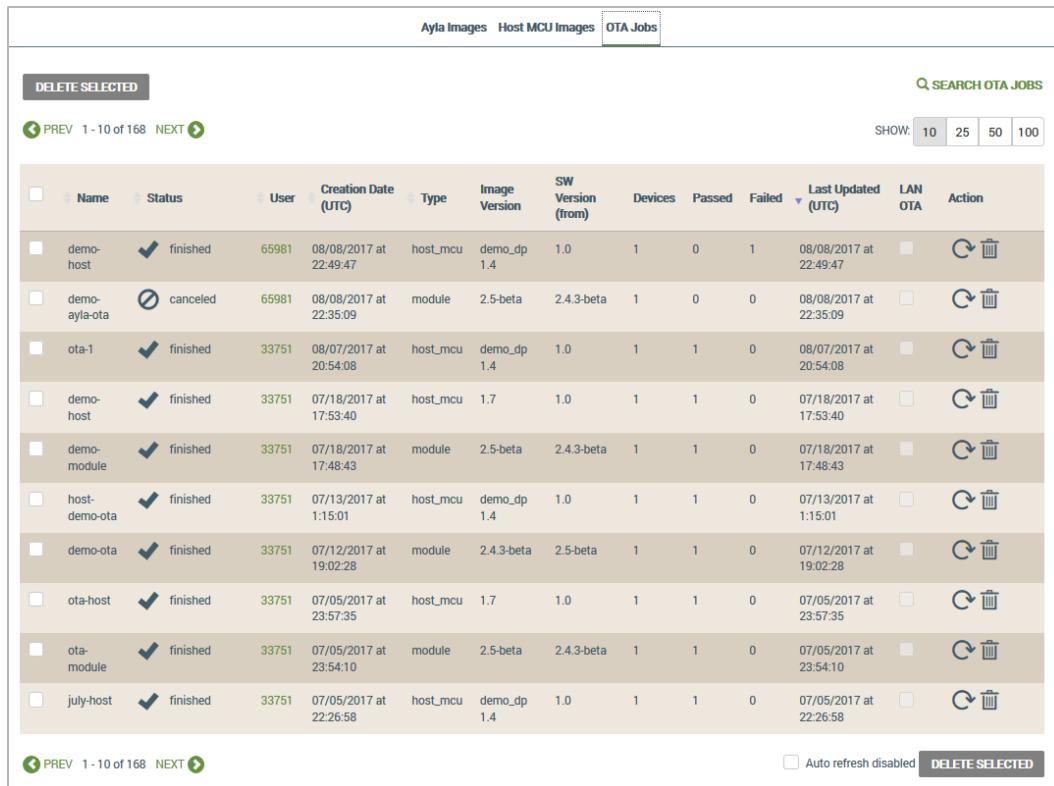
 - Define a new template for your device
2. In the new/updated template, define a template property that tracks the **Host SW Version** of the device.
3. Check the flag **Host SW Version** for the property. Make sure that the property Scope is **OEM**.

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.

8.4 OTA Jobs tab

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.



<input type="checkbox"/>	Name	Status	User	Creation Date (UTC)	Type	Image Version	SW Version (from)	Devices	Passed	Failed	Last Updated (UTC)	LAN OTA	Action	
<input type="checkbox"/>	demo-host	✓ finished	65981	08/08/2017 at 22:49:47	host_mcu	demo_dp 1.4	1.0	1	0	1	08/08/2017 at 22:49:47	<input type="checkbox"/>		
<input type="checkbox"/>	demo-ayla-ota	✗ canceled	65981	08/08/2017 at 22:35:09	module	2.5-beta	2.4.3-beta	1	0	0	08/08/2017 at 22:35:09	<input type="checkbox"/>		
<input type="checkbox"/>	ota-1	✓ finished	33751	08/07/2017 at 20:54:08	host_mcu	demo_dp 1.4	1.0	1	1	0	08/07/2017 at 20:54:08	<input type="checkbox"/>		
<input type="checkbox"/>	demo-host	✓ finished	33751	07/18/2017 at 17:53:40	host_mcu	1.7	1.0	1	1	0	07/18/2017 at 17:53:40	<input type="checkbox"/>		
<input type="checkbox"/>	demo-module	✓ finished	33751	07/18/2017 at 17:48:43	module	2.5-beta	2.4.3-beta	1	1	0	07/18/2017 at 17:48:43	<input type="checkbox"/>		
<input type="checkbox"/>	host-demo-ota	✓ finished	33751	07/13/2017 at 1:15:01	host_mcu	demo_dp 1.4	1.0	1	1	0	07/13/2017 at 1:15:01	<input type="checkbox"/>		
<input type="checkbox"/>	demo-ota	✓ finished	33751	07/12/2017 at 19:02:28	module	2.4.3-beta	2.5-beta	1	1	0	07/12/2017 at 19:02:28	<input type="checkbox"/>		
<input type="checkbox"/>	ota-host	✓ finished	33751	07/05/2017 at 23:57:35	host_mcu	1.7	1.0	1	1	0	07/05/2017 at 23:57:35	<input type="checkbox"/>		
<input type="checkbox"/>	ota-module	✓ finished	33751	07/05/2017 at 23:54:10	module	2.4.3-beta	2.4.3-beta	1	1	0	07/05/2017 at 23:54:10	<input type="checkbox"/>		
<input type="checkbox"/>	july-host	✓ finished	33751	07/05/2017 at 22:26:58	host_mcu	demo_dp 1.4	1.0	1	1	0	07/05/2017 at 22:26:58	<input type="checkbox"/>		

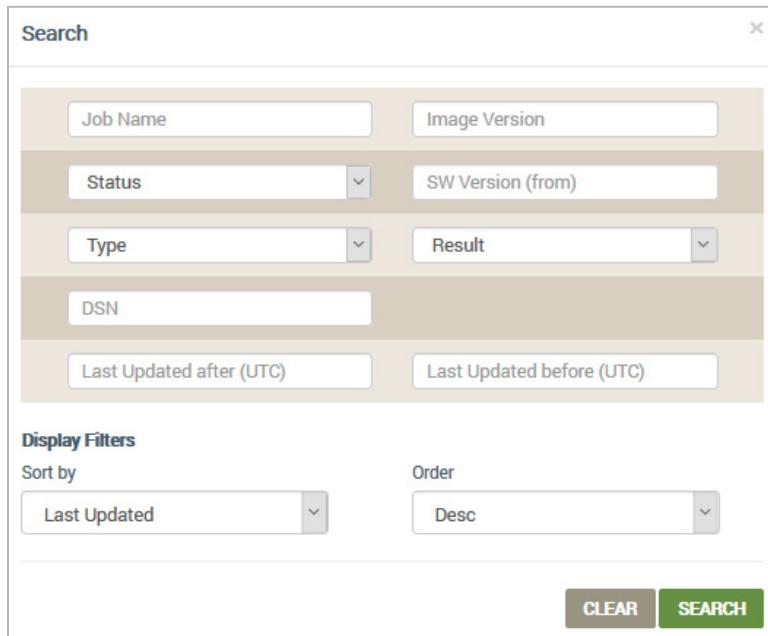
Table column description:

- **Name** (device group name)
- **Status** (status of the OTA job)
- **User** (name of device user registered owner)
- **Creation Date (UTC)** (date/time OTA job created)
- **Type** (type of OTA job scheduled to run)
- **Image Version** (version of the image associated with a specific OTA job)
- **SW Version (from)** (version image upgrading from)
- **Devices** (number of devices associated with the OTA job)
- **Passed** (number of OTA Jobs that passed)

- **Failed** (number of OTA Jobs that failed)
- **Last Updated** (date/time of last OTA job)
- **LAN OTA checkbox**
Select (if OTA job was on a LAN)
Unselect (if not on LAN)
- **Actions** (user actions that can be performed on the OTA job)
 -  Refresh OTA Job
 -  Start OTA Job (if started, changes to  Cancel OTA Job)
 -  Delete OTA Job

8.4.1 OTA Jobs - Search

1. On the OTA Jobs tab, click **SEARCH OTA JOBS**. This shows the Search dialog box.



The screenshot shows the 'Search' dialog box for OTA Jobs. It contains the following fields:

- Job Name
- Image Version
- Status (dropdown)
- SW Version (from)
- Type (dropdown)
- Result (dropdown)
- DSN
- Last Updated after (UTC)
- Last Updated before (UTC)

Below these fields is a 'Display Filters' section with 'Sort by' (Last Updated) and 'Order' (Desc) dropdowns. At the bottom are 'CLEAR' and 'SEARCH' buttons.

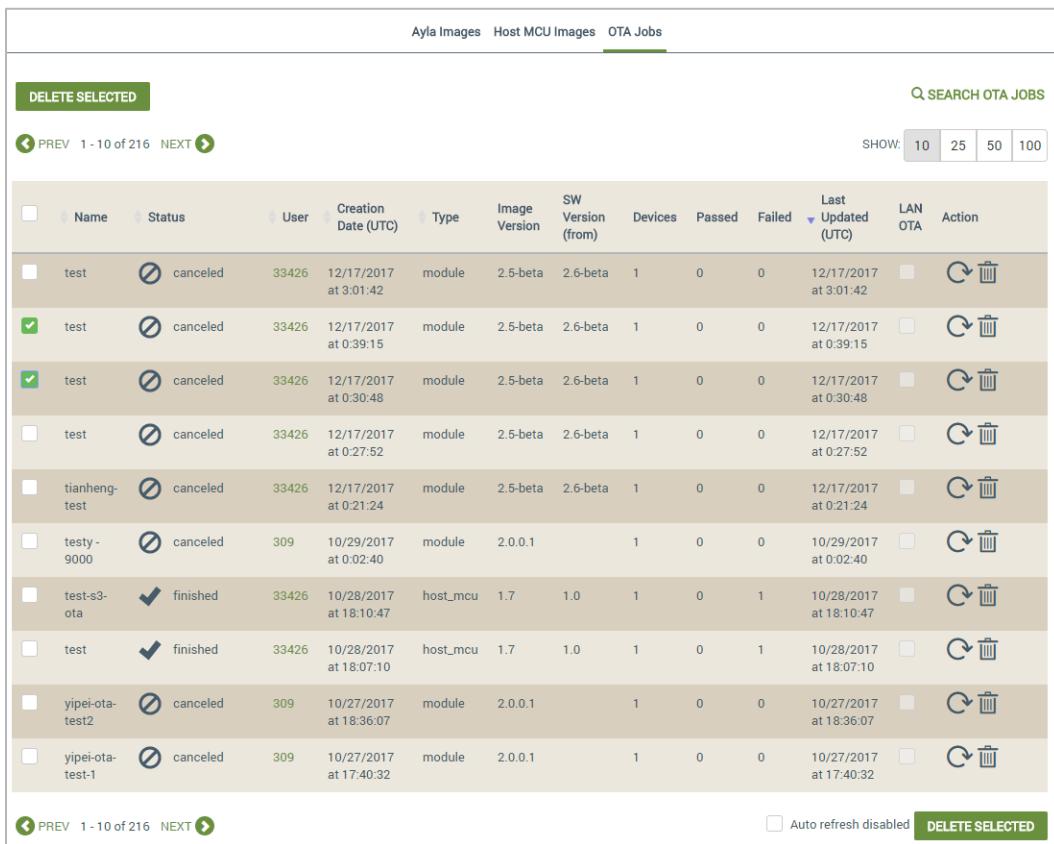
2. Enter details:
 - **Job Name** (name of the job)
 - **Image Version** (device image version)
 - **Status** drop-down: (only jobs that fit the selected status)
 - Initialized
 - Started
 - Finished
 - Canceled
 - **Result** drop-down

- Complete
- Incomplete
- **DSN** (the customer's Device Serial Number)
- **Last Updated after (UTC)** (last updated after date/time - select from calendar)
- **Last Updated before (UTC)** (last updated before date/time - select from calendar)
- **In Display Filters, Sort by:**
 - Name
 - Status
 - Last Updated
- **In Display Filters, Order:**
 - Asc (ascending)
 - Desc (descending)

3. Click **SEARCH**.

8.4.2 Delete OTA Job

1. On the OTA Jobs table listing, select checkbox(es) for the OTA Job(s) to be deleted.

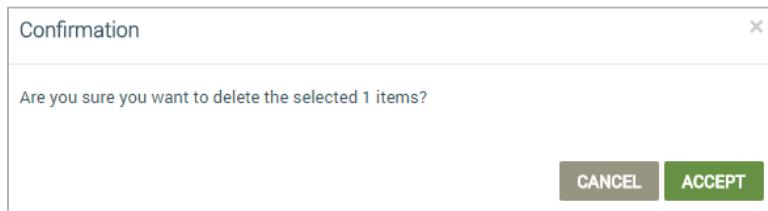


The screenshot shows the 'OTA Jobs' tab selected in the navigation bar. The table has the following data:

Name	Status	User	Creation Date (UTC)	Type	Image Version	SW Version (from)	Devices	Passed	Failed	Last Updated (UTC)	LAN OTA	Action	
test	cancelled	33426	12/17/2017 at 3:01:42	module	2.5-beta	2.6-beta	1	0	0	12/17/2017 at 3:01:42	<input type="checkbox"/>		
test	cancelled	33426	12/17/2017 at 0:39:15	module	2.5-beta	2.6-beta	1	0	0	12/17/2017 at 0:39:15	<input checked="" type="checkbox"/>		
test	cancelled	33426	12/17/2017 at 0:30:48	module	2.5-beta	2.6-beta	1	0	0	12/17/2017 at 0:30:48	<input checked="" type="checkbox"/>		
test	cancelled	33426	12/17/2017 at 0:27:52	module	2.5-beta	2.6-beta	1	0	0	12/17/2017 at 0:27:52	<input type="checkbox"/>		
tianheng-test	cancelled	33426	12/17/2017 at 0:21:24	module	2.5-beta	2.6-beta	1	0	0	12/17/2017 at 0:21:24	<input type="checkbox"/>		
testy - 9000	cancelled	309	10/29/2017 at 0:02:40	module	2.0.0.1		1	0	0	10/29/2017 at 0:02:40	<input type="checkbox"/>		
test-s3-ota	finished	33426	10/28/2017 at 18:10:47	host_mcu	1.7	1.0	1	0	1	10/28/2017 at 18:10:47	<input checked="" type="checkbox"/>		
test	finished	33426	10/28/2017 at 18:07:10	host_mcu	1.7	1.0	1	0	1	10/28/2017 at 18:07:10	<input checked="" type="checkbox"/>		
yipei-ota-test2	cancelled	309	10/27/2017 at 18:36:07	module	2.0.0.1		1	0	0	10/27/2017 at 18:36:07	<input type="checkbox"/>		
yipei-ota-test-1	cancelled	309	10/27/2017 at 17:40:32	module	2.0.0.1		1	0	0	10/27/2017 at 17:40:32	<input type="checkbox"/>		

2. Click **DELETE SELECTED**.

3. On the confirmation dialog, click **ACCEPT**.



8.5 Run OTA Job

This describes the general process to run an OTA job on a Host MCU Image.

1. On the Navigation Panel, click **Devices**.
2. Use Search to identify devices for the MCU OTA job.
3. Select a set of devices and save as a group.
4. On Host MCU Images tab, identify the image and click the **Create OTA Job** icon.
5. On the dialog box, select the group of devices.
6. Save the OTA job.

IMPORTANT! If you want to go to version 3 and the devices are at version 1, first apply version 2 to version 1. When done, apply version 3 to version 2 (1.0 is upgraded to 2.0 is upgraded to 3.0).

7. On the OTA Jobs tab, locate the new OTA job. Click **Start OTA Job** icon.

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

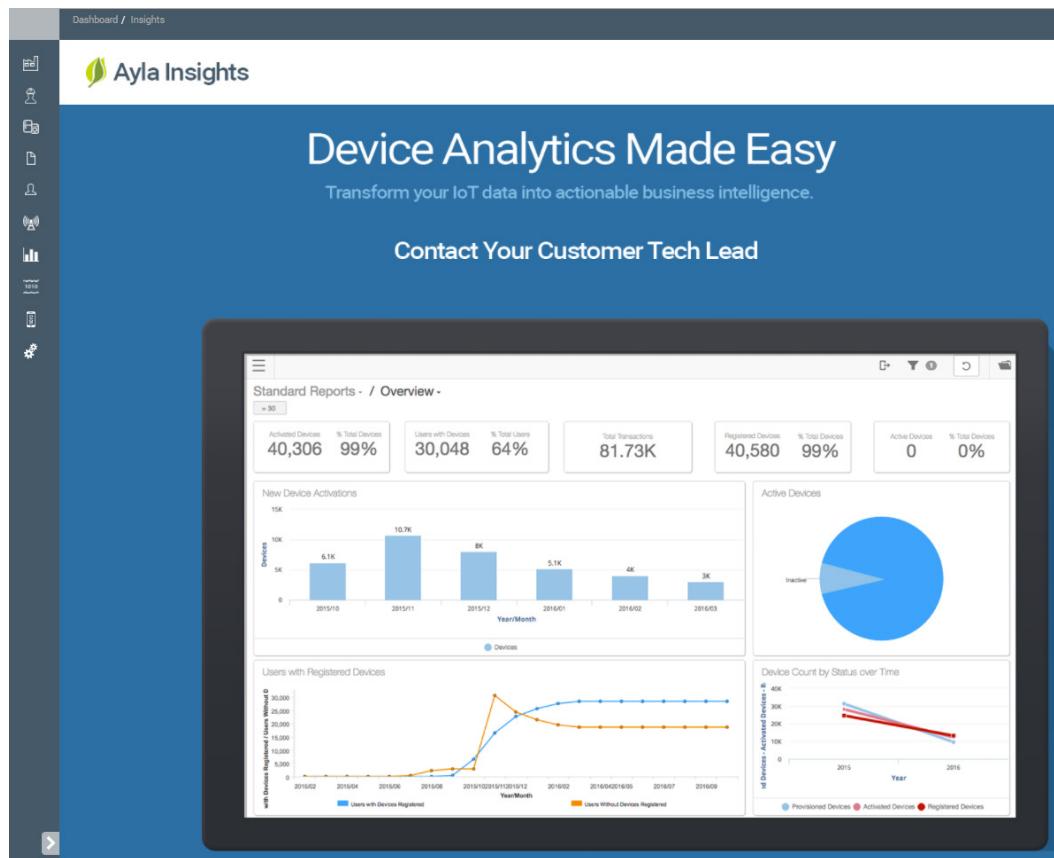
9 Insights

Ayla Insights is a fully-integrated business intelligence and analytics platform that provides customers with real-world insights into how their connected products are being used. Customers can use Insights is a descriptive analytics solution that describes the current state of customers' connected devices. It displays what is currently happening, current values and trends over time.

This 360-degree view of product usage enables customers to understand and promote continued product improvements and innovation.

To access Ayla Insights on the Ayla Customer Dashboard, click **Insights** in the Navigation Panel (left side).

Figure 10 – Ayla Customer Dashboard, Insights page



This section describes the main features of Ayla Insights. For information on how to use the Insights feature, refer to the *Ayla Insights User's Guide* and also contact Technical Support: <http://help.aylasupport.com>

9.1 Icons on the Insights Page

The icons on the upper left side of the Insights page enable you to maximize your use of the reports to focus on the data needed to improve product development, customer satisfaction, and revenues.



The following table provides basic descriptions of these icons.

Table 1 – Icons on the Insights page

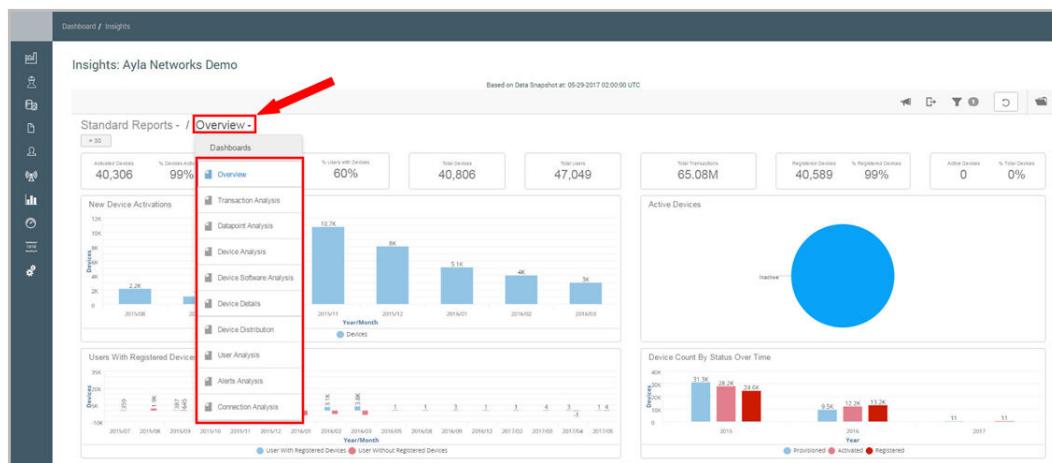
Icon	Description
	Opens the Notification Center sidebar that enables you to create email notifications of a set of reports to be sent on a scheduled time (daily, weekly, or monthly). When clicked, a searchable list of the notifications is shown. You can do the following for any listed notifications: <ul style="list-style-type: none"> Change the notification name. Open and edit the contents. Run the report specified in the notification. Add the notification to the dashboard.
	Creates and exports a PDF of the set of reports displayed on the Insights page.
	Opens the following searchable list of filters, that can drill down the selected set of reports to view and capture specific data: <ul style="list-style-type: none"> Ayla SW Version Date Host SW Version Last Active Date (default = 30) OEM Model The "1" displayed with the Filters icons is the number of selected filters for the set of reports currently shown on the Insights page. When a filter is applied, the details display across the middle of the Insights page between the Standard Reports title information (e.g. Standard Reports / Overview) and the set of reports.
	Resets the selected set of reports to the default view on the Insights page.
	Provides an alternative way to open any of the 10 available sets of Insights reports.

9.2 Standard Reports for Ayla Insights

Ayla Insights has 10 sets of reports that provide data pertaining to the components of your connected devices. Each set of reports has its own view on the Insights page, and you can maximize the individual reports within the set to view as its own Insights page. Simply click Overview in Standard Reports / Overview to display the 10 sets of reports, and then click the set of reports you wish to view.

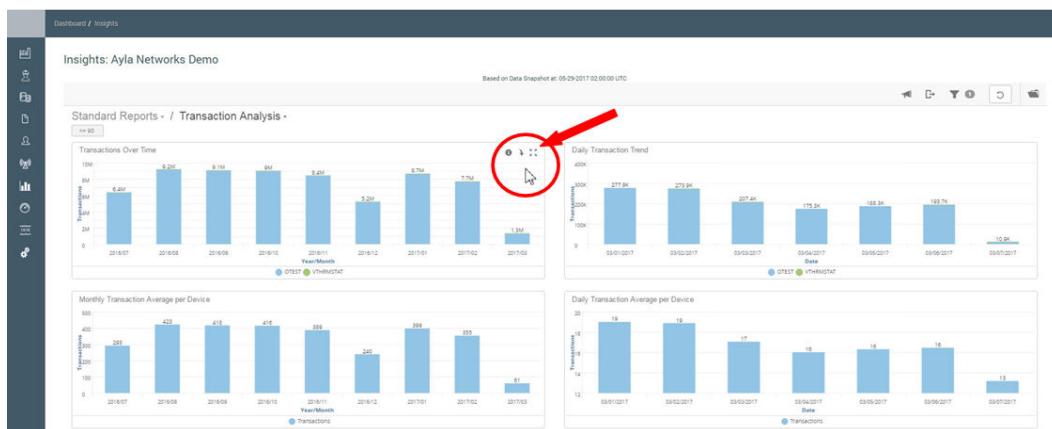
NOTE *Overview* in Standard / Overview changes to the report is selected. For example, if you select *Device Analysis*, the text changes to Standard / Device Analysis.

Figure 11 - Open a Set of Reports in Ayla Insights



Alternatively, click the Folder icon to open any of the 10 sets of reports. If you place your cursor over an individual report, the option to maximize that report is shown.

Figure 12 - Maximize an Individual Report in the Set



9.2.1 The Standard Sets of Reports

The 10 sets of reports in Ayla Insights are as follows.

NOTE For a complete description of each report, including potential use cases, refer to the *Ayla Insights User's Guide* on Contact Technical Support:
<http://help.aylasupport.com>

- Overview – These reports provide a high-level synopsis of device and user metrics. Key Performance Indicators (KPIs) for devices and users display across the top of the set. The set includes the following reports:
 - New Device Activations, which shows the number of activated devices over time.
 - Active Devices, which shows the percentage of active devices versus inactive devices over the past 30 days.
 - Users with Registered Devices, which shows the total number of accounts created with a registered device versus the number of accounts created without a device over time.
 - Device Count by Status over Time, which provides the number of devices by status over time.
- Transaction Analysis – These reports provide a variety of data that pertains to device transactions (activity). The set includes the following reports:
 - Transactions over Time, which shows the cumulative number of transactions for all activated and registered devices within a specific period of time.
 - Daily Transaction Trend, which provides the cumulative number of transactions per day for all activated and registered devices over the past 45 days.
 - Monthly Transaction Average per Device, which provides the average number of transactions for all activated or registered devices within a given month.
 - Daily Transaction Average per Device, which shows the average daily transactions averaged over a month for all activated and registered devices.
- Datapoint Analysis – These reports provide a granular analysis of device datapoints derived from property usage. The set includes the following reports:
 - Datapoint Count by Value, which provides the total number of datapoints attributed to the selected device property or properties.
 - Datapoint Count by Value over Time, which provides the total number of datapoints attributed to each value of an individual device property or properties shown over a time period.
 - Datapoint Count over Time, which provides the total number of datapoints attributed to the selected device property or properties over a period of time.
- Device Analysis – These reports pertain to the device statuses. The set includes the following reports:
 - Registered Devices with Transaction Activity, which provides the total number of registered versus unregistered devices.
 - Device Lifecycle: Average Days in Each State, which shows the number of days a device remains in a certain state.
 - Inactive Devices over Time, which provides you with the total number of devices without any transaction activity for the specified number of months.

- Device Software Analysis – These reports provide detailed reports on Module and Host software versions. The set includes the following reports:
 - Ayla Module Software Version Updated Over Time, which provides the number of devices that were updated with a specific software version of an Ayla module over time.
 - User Count by Ayla Module Software Version, which shows the number of users with registered devices that are running a particular Ayla module software version.
 - Device Count by Ayla Module Software Version, which provides the number of devices running a particular Ayla module software version.
 - Host Software Version Updated Over Time, which provides the number of devices that were updated with a given the customer's host software version over time.
 - User Count by OEM Host SW Version, which provides the number of users with registered devices that are running a particular customer's host software version.
 - Device Count by Host SW Version, which provides the number of devices running a particular customer's host software version.
- Device Details – These reports give customers the ability to view individual device usage and behavior history. The set includes the following reports:
 - Device List, which provides a list of all customer devices and their associated details.
 - Device Connectivity Events by Time, which shows the cumulative number of connectivity events for devices over time.
 - Alerts Sent Over Time, which provide the total number of alerts sent for devices over a period of time.
 - Device Transactions Created by Time, which provides the cumulative number of transactions for devices over a period of time.
 - Daily Transaction Trend, which shows the cumulative number of transactions per day for all activated and registered devices over the past 14 days.
 - Device Location, which pinpoints the last known geographical location for all online and offline devices; and provides details on the location.
- Device Distribution – This is an individual report that shows the distribution of all online and offline devices within each state of the US.
- User Analysis - These reports provide the customers with data on the consumers' device usage. The set includes the following reports:
 - Users Created Over Time, which provides the total number of user accounts created per month over a specific time period.
 - User Activity, which provides the number of active and inactive users. An active user is one who has generated a transaction in the last 30 days.
 - Last Sign-In Trend, which shows every time end-users enter their log-in credentials on their mobile app.
- Alerts Analysis – These reports provide metrics on alert subscriptions for all end-users. The set includes the following reports:

- Alert Subscriptions by Model, which provides the total number of alert subscriptions that have been created per model.
- Alerts Sent by Model, which shows the total number of alert subscriptions sent per model.
- Alert Subscriptions by Property Name, which provides the total number of alert subscriptions created for individual device properties.
- Alerts Sent by Property Name, which shows the total number of alert subscriptions sent per individual device property.
- Connection Analysis - provide details on device connectivity and device status. The set includes the following reports:
 - Average Number of Connectivity Events per Device, which shows the average number of connectivity events a device has within a given time period.
 - Offline Devices, which provides the number of devices that have remained in an offline state for an extended period of time.
 - Offline Event Analysis, which shows how often devices are disconnected from the Ayla cloud over period of time.

9.2.2 Icons for Individual Reports

All individual reports include three icons to provide information on the report or enable you to perform specific actions with the report data. If you place your mouse cursor over any individual report these icons display in the right corner of the report.



Table 2 – Action Icons for Individual Ayla Insights Reports

Icon	Description
	Provides a description of the individual report.
	Opens a menu of Dashlet Actions, which enable you to change the format, export report data to several different file types (i.e., Excel, PDF, etc.), and create notifications for the individual report.
	Maximizes the individual report, so that it is the only report displayed on the Insights page of the Ayla Customer Dashboard.

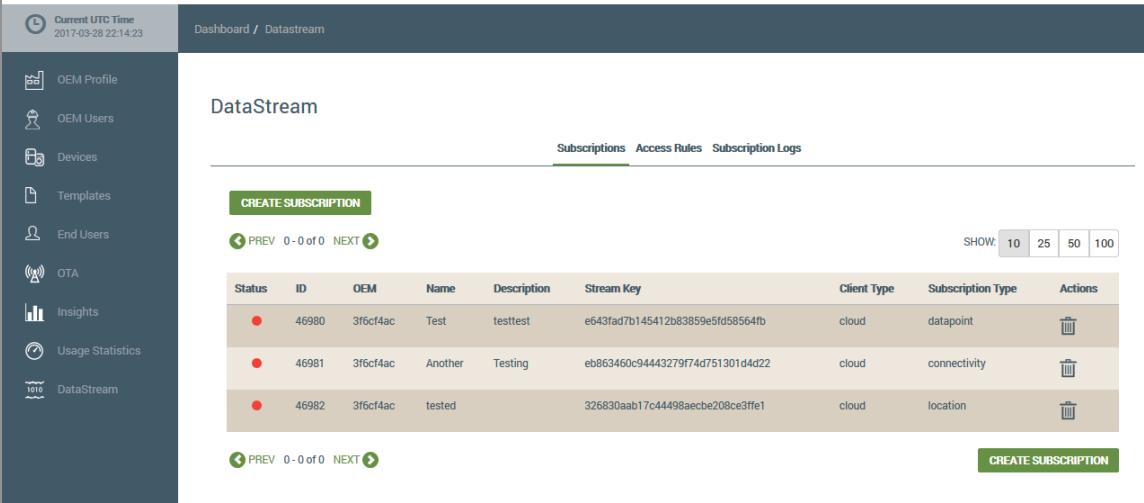
10 DataStream

DataStream (DSS) enables the customer to create, update, or delete subscriptions for data that occurs in the Ayla Platform with a REST API.

NOTE The customer 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.

On the Navigation Panel, click **DataStream**. This shows the DataStream home page.

Figure 13 – Ayla Customer Dashboard, DataStream page



Status	ID	OEM	Name	Description	Stream Key	Client Type	Subscription Type	Actions
●	46980	3f6cf4ac	Test	testtest	e643fad7b145412b83859e5fd58564fb	cloud	datapoint	
●	46981	3f6cf4ac	Another	Testing	eb863460c94443279f74d751301d4d22	cloud	connectivity	
●	46982	3f6cf4ac	tested		326830aab17c44498aecbe208ce3ffe1	cloud	location	

There are three tabs on the DataStream page:

- Subscriptions
- Access Rules
- Subscription Logs.

10.1 DataStream – Subscriptions tab

The **Subscriptions** tab is a table listing of all subscriptions.

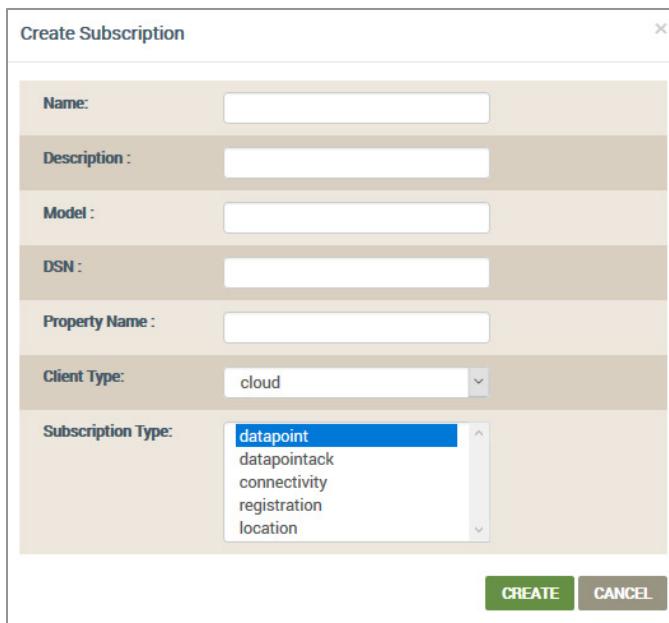
DataStream									
Subscriptions Access Rules Subscription Logs									
CREATE SUBSCRIPTION									
PREV 0 - 0 of 0 NEXT									SHOW: 10 25 50 100
Status	ID	OEM	Name	Description	Stream Key	Client Type	Subscription Type	Actions	
●	46980	3f6cf4ac	Test	testtest	e643fad7b145412b83859e5fd58564fb	cloud	datapoint		
●	46981	3f6cf4ac	Another	Testing	eb863460c94443279f74d751301d4d22	cloud	connectivity		
●	46982	3f6cf4ac	tested		326830aab17c44498aecbe208ce3ffe1	cloud	location		
●	46983	3f6cf4ac	another	another	704556174cc4c20a4ca4963499f9077	cloud	datapointack		
PREV 0 - 0 of 0 NEXT									CREATE SUBSCRIPTION

Table column descriptions:

- **Status**
 - red (subscription is stopped)
 - green (subscription is active and running)
 - grey (subscription is created but not started)
- **ID** (Ayla-assigned ID for the Access Rule)
- **OEM** (Ayla-assigned OEM ID name)
- **Name** (name of the subscription)
- **Description** (description of the subscription)
- **Stream Key** (the connection key for a stream to connect with the external servers)
- **Client Type** (type of client)
 - cloud
 - user_opt_in
- **Subscription Type** (type of subscription)
 - datapoint
 - datapointack (available for generic gateway and Linux Whitebox)
 - connectivity
 - registration
 - location (provides LAT(latitude), LONG (longitude) during display-mode registration events)
- **Actions** (user actions that can be applied to the subscription)

10.1.1 Create Subscription

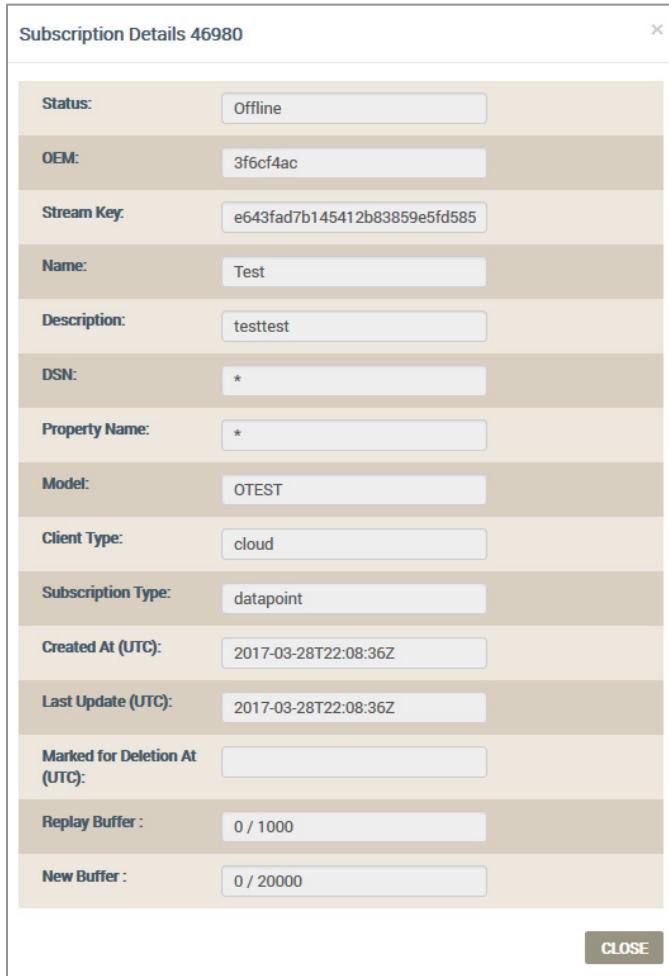
1. On the **Subscriptions** tab, click **CREATE SUBSCRIPTION**. This shows the Create Subscription dialog box.



2. Enter details:
 - **Name** (name of the subscription)
 - **Description** (details about the subscription)
 - **OEM Model** (model number of the customer's host application board)
 - **DSN** (the customer Device Serial Number - can use wild card)
 - **Property Name** (name of property - can use wild card)
 - **Client Type** drop-down
 - cloud
 - user_opt_in
 - **Subscription Type** drop-down (select one or more) - events are transmitted by DSS to clients only when the client subscribes to DSS
 - datapoint
 - datapointack (available for generic gateway and Linux Whitebox)
 - connectivity
 - registration
 - location (provides LAT, LONG during display mode registration events)
3. Click **CREATE**.

10.1.2 Review Subscription Details

1. On the **Subscriptions** tab, click a subscription. This shows the Subscription Details dialog box.



The dialog box is titled "Subscription Details 46980". It contains the following fields:

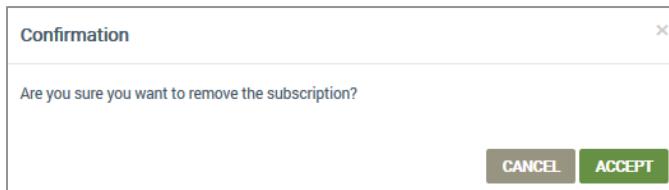
Status:	Offline
OEM:	3f6cf4ac
Stream Key:	e643fad7b145412b83859e5fd585
Name:	Test
Description:	testtest
DSN:	*
Property Name:	*
Model:	OTEST
Client Type:	cloud
Subscription Type:	datapoint
Created At (UTC):	2017-03-28T22:08:36Z
Last Update (UTC):	2017-03-28T22:08:36Z
Marked for Deletion At (UTC):	
Replay Buffer :	0 / 1000
New Buffer :	0 / 20000

At the bottom right is a "CLOSE" button.

2. Review the details.
3. When done, click **CLOSE**.

10.1.3 Delete Subscription

1. On the **Subscriptions** tab, locate the Subscription to delete.
2. Click the **Trash Can** icon. This shows the Confirmation dialog box.



The dialog box is titled "Confirmation". It contains the following message:

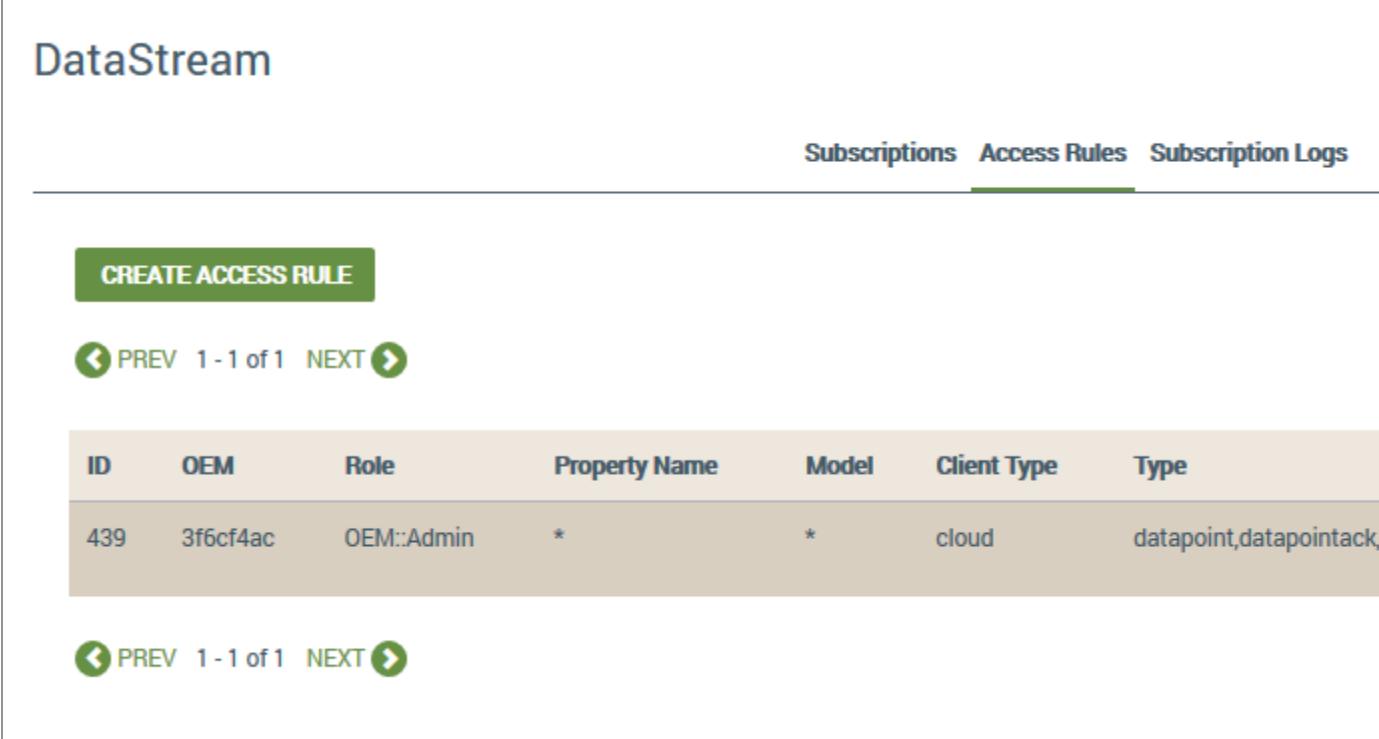
Are you sure you want to remove the subscription?

At the bottom are two buttons: "CANCEL" and "ACCEPT".

3. Click **ACCEPT**.

10.2 DataStream - Access Rules tab

Access rules specify which users can receive and review DataStream subscriptions. Access rules can be created for specific user roles and subscription types.



The screenshot shows the 'DataStream' interface with the 'Access Rules' tab selected. A green button labeled 'CREATE ACCESS RULE' is visible. Below it, a table displays one access rule. The table has columns: ID, OEM, Role, Property Name, Model, Client Type, and Type. The data in the table is as follows:

ID	OEM	Role	Property Name	Model	Client Type	Type
439	3f6cf4ac	OEM::Admin	*	*	cloud	datapoint,datapointack,...

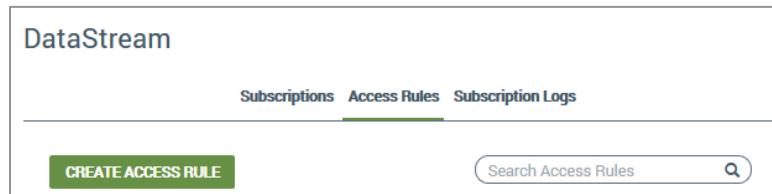
Navigation buttons 'PREV' and 'NEXT' are shown above and below the table.

Table columns description:

- **ID** (Ayla-assigned ID for the Access Rule)
- **OEM** (Ayla-assigned OEM ID)
- **Role** (user role associated with the Access Rule)
- **Property Name** (user-assigned property name)
- **Model** (model number of Ayla module)
- **Client Type** (type of client for this Access Rule – cloud, mobile)
- **Type** (the selected event types)
- **Actions** (available actions for the Access Rule)

10.2.1 Search Access Rules

1. On the **Access Rules** tab, click in the Search Access Rules field.

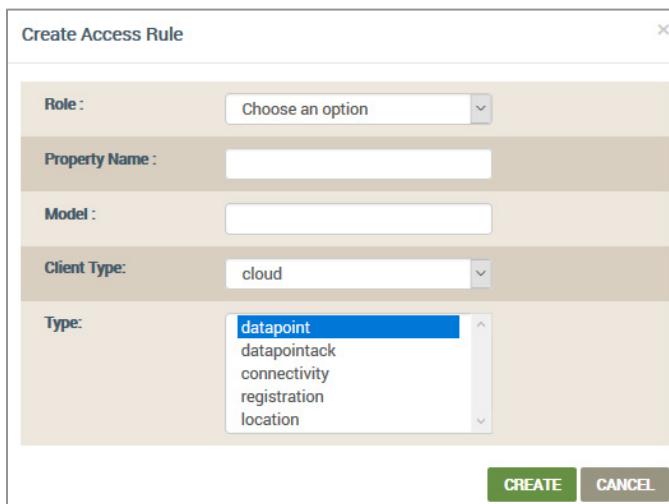


2. Click the **Search** icon.

Review the search results.

10.2.2 Create Access Rule

1. On the Access Rules tab, click **CREATE ACCESS RULE**. This shows the Create Access Rule dialog box.



2. Enter details:

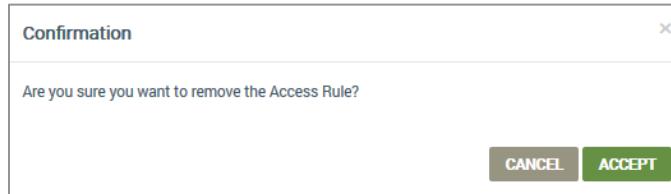
- **Role** drop-down: (select a defined role)
- **Property Name** (name of the property)
- **Model** (model number of Ayla module)
- **Client Type** drop-down:
 - cloud
 - user_opt_in
- **Type** (select one or more)
 - datapoint
 - datapointack (for generic gateway and Linux Whitebox)
 - connectivity
 - registration
 - location

3. Click **CREATE**.

The Access Rule is added to the table listing.

10.2.3 Delete Access Rule

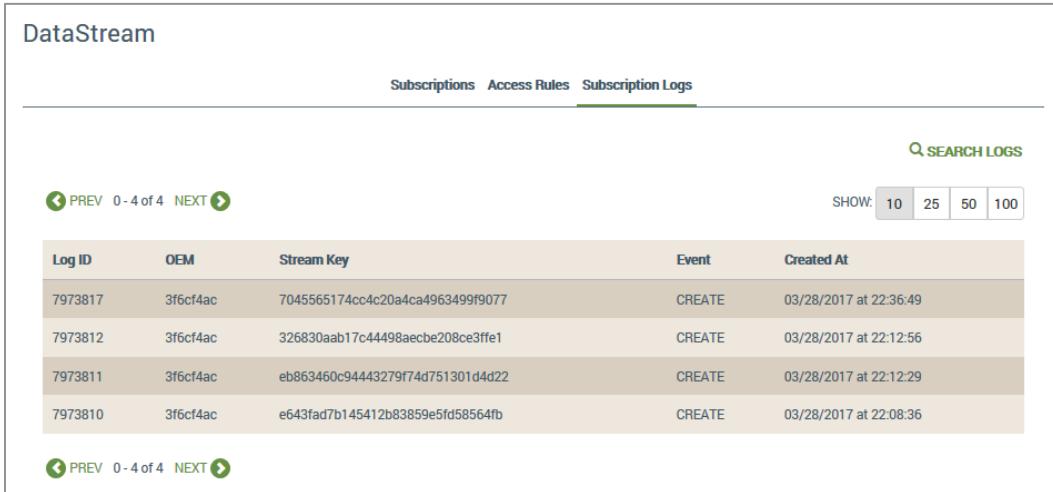
1. On the Access Rules tab, locate the Access Rule to delete.
2. Click the **Trash Can** icon. This shows the Confirmation dialog box.



3. Click **ACCEPT**.

10.3 Subscription Logs

Subscription logs track activities.



The screenshot shows a table titled "DataStream" with a "Subscription Logs" tab selected. The table has columns: Log ID, OEM, Stream Key, Event, and Created At. The data is as follows:

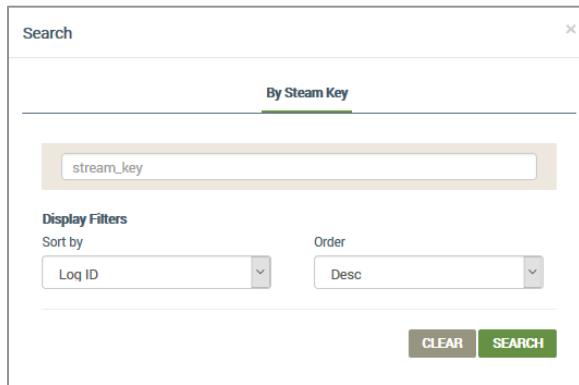
Log ID	OEM	Stream Key	Event	Created At
7973817	3f6cf4ac	7045565174cc4c20a4ca4963499f9077	CREATE	03/28/2017 at 22:36:49
7973812	3f6cf4ac	326830aab17c44498aecbe208ce3ffe1	CREATE	03/28/2017 at 22:12:56
7973811	3f6cf4ac	eb863460c94443279f74d751301d4d22	CREATE	03/28/2017 at 22:12:29
7973810	3f6cf4ac	e643fad7b145412b83859e5fd58564fb	CREATE	03/28/2017 at 22:08:36

Table listing column descriptions:

- **Log ID** (Ayla-assigned ID of the log)
- **OEM** (Ayla-assigned OEM ID)
- **Stream Key** (the connection key for a stream to connect with the external servers)
- **Event** (event type)
- **Created At** (date/time log created)

10.3.1 Search Subscription Logs

1. On the **Subscription Logs** tab, click **SEARCH LOGS**. This shows the Search dialog box.



The search dialog box has a header 'Search' with a close button 'x'. Below it is a section 'By Steam Key' with a search input field containing 'stream_key'. Underneath is a 'Display Filters' section with 'Sort by' dropdowns for 'Log ID' (set to 'Log ID') and 'Order' (set to 'Desc'). At the bottom are 'CLEAR' and 'SEARCH' buttons.

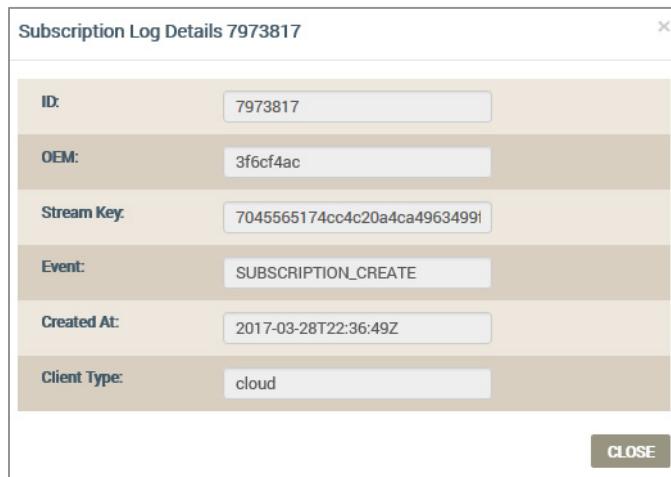
2. Enter details:

- **Stream_key** value (can include wild cards)
- In **Display Filters**, Sort by:
 - Log_ID
 - OEM_ID
- In **Display Filters**, Order:
 - Asc (ascending)
 - Desc (descending)

3. Click **SEARCH**.
4. Review the search results.

10.3.2 Review Subscription Log Details

1. In the table listing, click on a log entry. This shows the Subscription Log Details dialog box.



The dialog box is titled 'Subscription Log Details 7973817'. It contains the following data in a table:

ID:	7973817
OEM:	3f6cf4ac
Stream Key:	7045565174cc4c20a4ca49634991
Event:	SUBSCRIPTION_CREATE
Created At:	2017-03-28T22:36:49Z
Client Type:	cloud

At the bottom is a 'CLOSE' button.

NOTE

CONNECT and DISCONNECT Events logs include more detail.

Subscription Log Details 298413

ID:	298413
OEM:	0dfc7900
Stream Key:	153e42e24569469ca3bb821daf1e
Event:	STREAM_DISCONNECT
Created At:	2017-05-19T23:30:09Z
Client Type:	mobile
Subscription Type:	datapoint
Transport:	WEBSOCKET
Seconds Connected:	93
Remote Host:	73.162.34.155
Local Host:	
Connect Date:	2017-05-19T23:28:36Z
Disconnect Date:	2017-05-19T23:30:09Z
Messages TX:	0
Bytes TX:	0
Correlation ID:	40a0f66cdd4d42c6abf3f2b03183l
Disconnect Reason:	CLIENT_CLOSE

CLOSE

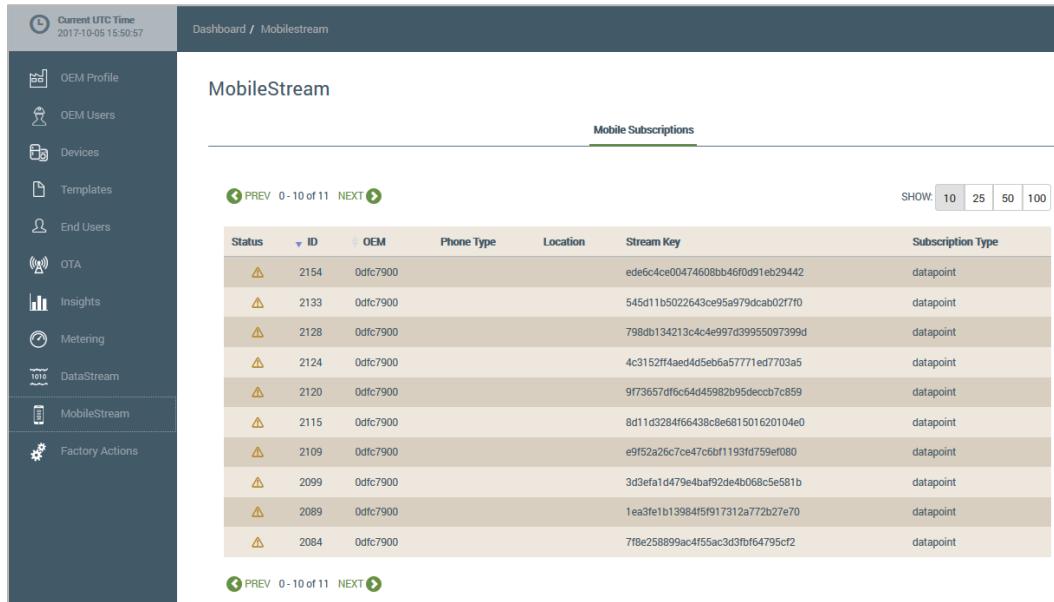
2. After review, click **CLOSE**.

11 MobileStream

The MobileStream page tracks mobile subscriptions.

On the Navigation Panel, click **MobileStream**. This shows the MobileStream home page. This lists all the currently active mobile subscriptions.

Figure 14 – Ayla Customer Dashboard, MobileStream page



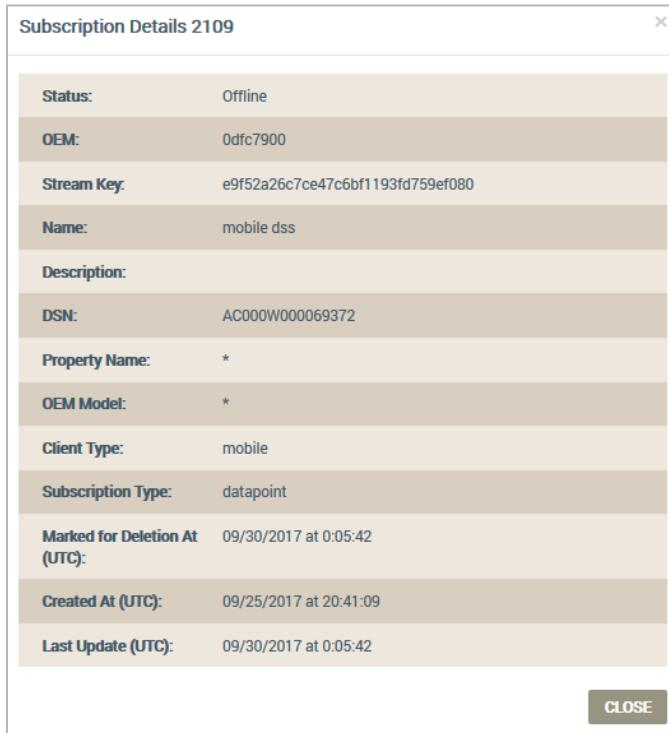
Status	ID	OEM	Phone Type	Location	Stream Key	Subscription Type
⚠	2154	0dfc7900			ede6c4ce00474608bb46f0d91eb29442	datapoint
⚠	2133	0dfc7900		545d11b5022643ce95a979dcab02770	datapoint	
⚠	2128	0dfc7900		79db134213c4c4e997d39955097399d	datapoint	
⚠	2124	0dfc7900		4c3152ff4aed4d5eb6a57771ed7703a5	datapoint	
⚠	2120	0dfc7900		9f73657df6c64d45982b95decab7c859	datapoint	
⚠	2115	0dfc7900		8d11d3284f66438c8e681501620104e0	datapoint	
⚠	2109	0dfc7900		e9f52a26c7ce47c6bf1193fd759ef080	datapoint	
⚠	2099	0dfc7900		3d3efa1d479e4ba92de4b068c5e581b	datapoint	
⚠	2089	0dfc7900		1ea3fe1b13984f5f917312a772b27e70	datapoint	
⚠	2084	0dfc7900		7f0e258899ac4f55ac3d3fb64795cf2	datapoint	

Table columns are:

- Status (status of the device associated with this DSN)
- ID (Ayla-assigned subscription ID)
- OEM (name of the Ayla customer)
- Phone Type (type of phone for the subscription)
- Location (location of the phone)
- Stream Key (the subscription stream key for the phone)
- Subscription Type (type of subscription)
 - datapoint
 - datapointack (available for generic gateway and Linux Whitebox)
 - connectivity
 - registration
 - location (provides LAT, LONG during display mode registration events)

11.1 Review Mobile Subscription Details

1. In the table listing, click on an entry. This shows the Subscription Details dialog box.



2. After review, click CLOSE.

12 Factory Actions

The Factory Actions page enables the interface between Ayla platform and the OEM manufacturing process.

The customer can use this UI to request a block of DSNs to initiate the manufacturing process. This will be written into OEM devices and other device data will be extracted from the OEM devices during the manufacturing and provisioning process based upon scripts provided by Ayla Professional services.

12.1 Description

For general understanding, these acronyms are used:

- AFS (Ayla Factory Service)
- DSN (OEM Device Serial Number)
- OEM (Original Equipment Manufacturer)
- ODM (Original Device Manufacturer)

12.1.1 Ayla Platform Module Categories

Ayla Wi-Fi Production Module (formerly called Black box) is fully-managed, Ayla-enabled module to be used as-is by the manufacturer. Some primary characteristics include:

- Available for embedded solutions.
- Fastest time to market for Ayla customers
- No custom gateway or other forms of communication agent software (including QA required regardless of the type of end-device).
- Enabled with any microcontroller-based system with cloud connectivity

Ayla Integrated Agent (formerly called White box) is a type of Ayla-enabled module that gives the customer control of the device function design compared to the Black-Box. However, this leads to a development effort that is significantly longer for customers – and results in longer time to market. Some primary characteristics include:

- Available for embedded or LINUX solutions.
- Ayla Cloud Agent is available as a library or source.
- Well-equipped for applications with existing RTOS and networking.
- Cloud Agent's modular design allows code for additional functions.
- In certain situations, allows a reduced bill of material (BOM) cost.

12.1.2 Ayla Platform OEM Types

Access to operations and module availability in Factory Actions is controlled by the Ayla platform OEM Type. The OEM Types are set by Ayla Professional Services for each Ayla customer. The table provides descriptions of the Ayla platform user types.

- Module Manufacturer - A manufacturing organization producing Ayla-enabled, fully managed modules (also referred to as Black Box modules) for use by the Managed Module Device Manufacturer.
- Managed Module Device Manufacturer - An organization (typically manufacturing) with end-user devices or embedded gateways that are based on Ayla-enabled, fully managed modules (also referred to as Black Box modules).
- Linux Gateway Manufacturer - An organization (typically manufacturing) with Linux-based gateways that are based on Ayla's open gateway agent software framework.

12.1.3 Ayla Platform User Roles

Access to operations in factory actions is controlled by user roles. The user roles are set by the OEM admin for each OEM user. The following table provides a breakdown of roles based on the type of OEM.

OEM User Role	OEM set to Module Mfr	Reserve	Upload Mfr	Upload Provision	Module List Displayed
Module Manufacturer OEM					
OEM::Admin	Yes	Yes	Yes	No	Only Modules specific to this manufacturer
OEM::Developer	Yes	No	No	No	None
OEM::Module Manufacturer	Yes	Yes	Yes	No	Only Modules specific to this manufacturer
OEM::Partner (not recommended)					
OEM::Staff	Yes	No	No	No	None
White Box OEM					
OEM::Admin	No	Yes	No	Yes	White box list only
OEM::Developer	No	No	No	No	None
OEM::ModuleOEMManufacturer	No	n/a	n/a	n/a	Role not permitted for White Box OEM. If assigned to a user, behaves like BB OEM::ModuleOEMManufacturer.
OEM::Partner (not recommended)					
OEM::SoftwareOEMManufacturer	No	Yes	No	Yes	White box list only
OEM::Staff	No	No	No	No	None
OEM::SupportEngineer	No	No	No	No	No
OEM::SupportManager	No	No	No	No	No

OEM User Role	OEM set to Module Mftr	Reserve	Upload Mftr	Upload Provision	Module List Displayed
Black Box OEM					
OEM::Admin	No	Yes	No	Yes	White box list only. BB OEM should not reserve (but can).
OEM::Developer	No	No	No	No	None
OEM::ModuleOEMManufacturer	No	No	No	Yes	None
OEM::Partner (not recommended)					
OEM::SoftwareOEMManufacturer	No	n/a	n/a	n/a	Role not permitted for BB OEM. If assigned to a user, behaves like a WB OEM::SoftwareOEMManufacturer.
OEM::Staff	No	No	No	No	None
OEM::SupportEngineer	No	No	No	No	No
OEM::SupportManager	No	No	No	No	No

12.1.4 Role Namespace:

Roles can be hierarchical, as determined by a namespace attached to the role name. The namespace "OEM::" indicates this user belongs to an Ayla customer, as an employee of the customer, or an employee of a partner of the customer.

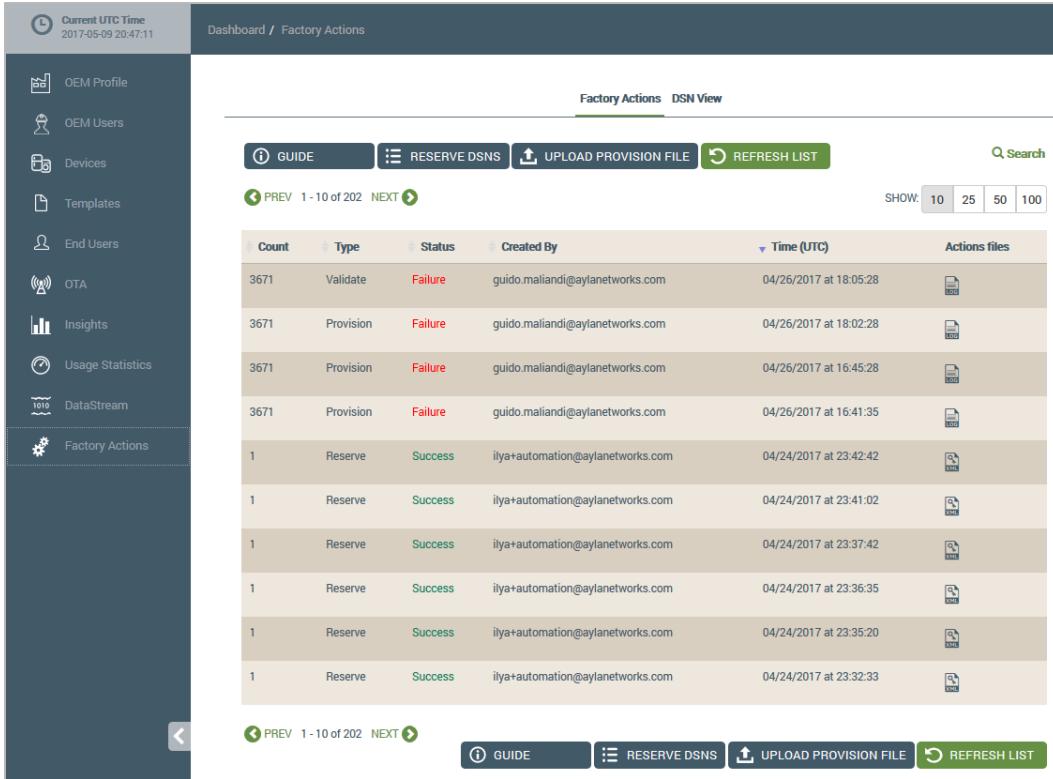
Namespaces allow further extensions to roles. the Ayla customer can define groups to introduce a level of hierarchy. For example, OEM::ENG::Staff, OEM::SUPPORT::Staff.

12.2 Factory Actions Tab

After any updates, click **REFRESH LIST**.

On the Navigation Panel, click **Factory Actions**. This shows the Factory Actions home page.

Figure 15 – Ayla Customer Dashboard, Factory Actions page



Count	Type	Status	Created By	Time (UTC)	Actions files
3671	Validate	Failure	guido.maliandi@aylanetworks.com	04/26/2017 at 18:05:28	
3671	Provision	Failure	guido.maliandi@aylanetworks.com	04/26/2017 at 18:02:28	
3671	Provision	Failure	guido.maliandi@aylanetworks.com	04/26/2017 at 16:45:28	
3671	Provision	Failure	guido.maliandi@aylanetworks.com	04/26/2017 at 16:41:35	
1	Reserve	Success	ilya+automation@aylanetworks.com	04/24/2017 at 23:42:42	
1	Reserve	Success	ilya+automation@aylanetworks.com	04/24/2017 at 23:41:02	
1	Reserve	Success	ilya+automation@aylanetworks.com	04/24/2017 at 23:37:42	
1	Reserve	Success	ilya+automation@aylanetworks.com	04/24/2017 at 23:36:35	
1	Reserve	Success	ilya+automation@aylanetworks.com	04/24/2017 at 23:35:20	
1	Reserve	Success	ilya+automation@aylanetworks.com	04/24/2017 at 23:32:33	

Table column description:

- **Count** (count of how many devices were included in the action)
- **Type** (type of action)
- **Status** (result of action)
- **Created By** (email of the individual that initiated this factory action)
- **Time (UTC)** (date/time the factory action was started)
- **Actions files** (user action for this factory action)

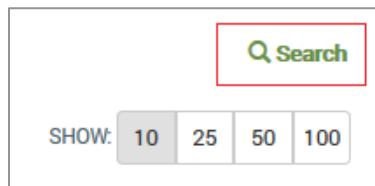
Button descriptions:

- **GUIDE** (shows Factory Actions Guide dialog box with button descriptions)
- **RESERVE DSNS** (reserve a set of DSNS for manufacturing)
- Context (based on user role), one of these buttons will display:
 - **UPLOAD PROVISION FILE** (upload the device details set during the Manufacturing process at a Module Manufacturer customer's site)

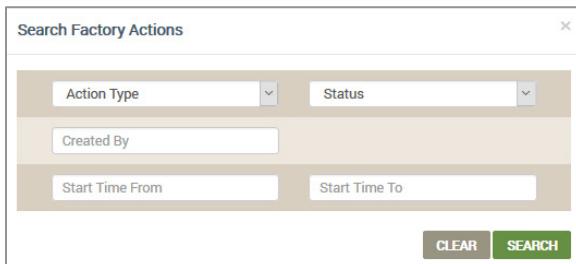
- UPLOAD MANUFACTURING FILE (upload device details set during the Provisioning process at a customer's Manufacturer's site)
- REFRESH LIST – refreshes table listing with the latest details

12.2.1 Search Factory Actions

1. On the Factory Actions page, click the **Search** icon.



2. On the Search Factory Actions dialog box:



- Select **Action Type** drop-down:
 - Reserve
 - Manufacture (or Provision – depends on User Role)
 - Validate
- Select **Status** drop-down:
 - Success
 - Failure
- In **Created By**, enter email
- Click in **Start Time From** and select the begin date range.
- Click in **Start Time To** and select the end date range.

3. Click **SEARCH**.

12.2.2 View Action Details

1. On the Factory Actions tab table listing, click on a Factory Action item.

All devices process as part of the clicked Factory Action are shown in the DSN View tab.



Viewing devices by factory action: Reserve 05/23/2017 at 19:53 X					
DSN	Mac Address	Status	Manufacturer Model	OEM Model	Ayla Model
AC000W002494658		Reserved			AY001MRT1
AC000W002494659		Reserved			AY001MRT1
AC000W002494660		Reserved			AY001MRT1

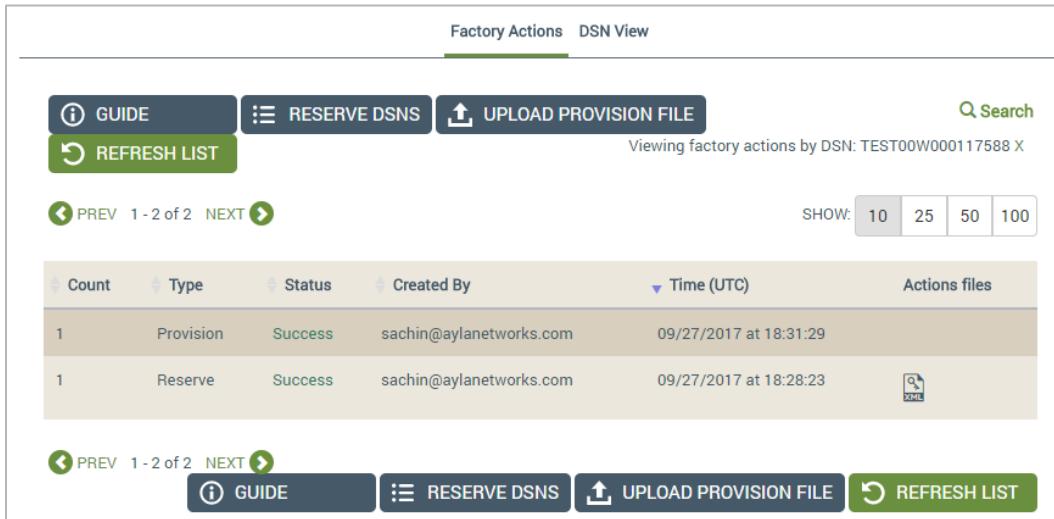
2. In the table listing, click the item to display Device dialog box.

Includes latest Factory Action data for that DSN/device.

Device: X

DSN	TEST00W000572601																						
Status	Provisioned																						
Mac Address	1dee6ea206aC																						
Manufacturer Model	mfg_model_HdsbL																						
ODM	2016/10/03 18:33:36 UTC																						
Manufacturer SN	74728506865381515485658631																						
Hardware Signature	hwsig_5NU41																						
Model SW Version	mfg_sw_version_1468																						
OEM Model	zigbee1	OEM Host Version	2.0																				
Reserved																							
Manufactured																							
Provisioned																							
Actions																							
Date	Name	Status	Message																				
Factory Reset Steps <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Date</th> <th>Name</th> <th>Status</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td></td> <td>Reset Template</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Reset Device</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Unregister Device</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Reset Datapoint</td> <td></td> <td></td> </tr> </tbody> </table>				Date	Name	Status	Message		Reset Template				Reset Device				Unregister Device				Reset Datapoint		
Date	Name	Status	Message																				
	Reset Template																						
	Reset Device																						
	Unregister Device																						
	Reset Datapoint																						
VIEW JOBS FACTORY RESET CLOSE																							

- Click **VIEW JOBS** to display the Factory Actions jobs.



Count	Type	Status	Created By	Time (UTC)	Actions files
1	Provision	Success	sachin@aylanetworks.com	09/27/2017 at 18:31:29	
1	Reserve	Success	sachin@aylanetworks.com	09/27/2017 at 18:28:23	

- On the Factory Actions tab, the results of the jobs are displayed. Click a job and the DSN tab displays the DSN view of the job.

12.2.3 Reserve Set of DSNs

The reservation process depends on the type of device being manufactured: Black Box or White Box. The Black Box uses an Ayla Module chosen by the manufacturing customer. The White Box uses a Linux distribution of the customer's choice.

The steps for DSN reservations are listed below.

- Click **RESERVE DSNS**. This shows Reserve Devices dialog box.



- Select from the **Model** drop-down list.
- Directly enter (or use up-down arrows to select) the quantity.
- Click **SUBMIT**.
- For each device, this generates:
 - Device serial number (DSN)
 - Private/public private key pair (authenticates device with cloud service).
- When the job is completed, the Success banner is displayed on the user interface.
- The completed job results in an encrypted XML file available for download from the Factory Action tab under the Factory Action column for the corresponding.

12.2.4 Action Files Type

On the Factory Actions tab, there is a column called Action files. There are 3 types of files that can be clicked to download and view.

Count	Type	Status	Created By	Time (UTC)	Actions files
2000	Reserve	Success	myron@aylanetworks.com	05/09/2017 at 22:24:50	 
5	Manufacture	Failure	myron@aylanetworks.com	05/03/2017 at 23:22:44	  

The download file format is XML (zipped). This file is created during "Reserve"

1. In the table listings, Actions column, click the Download icon.
2. On the File Download dialog box, save the file.

The zipped XML file contains the encrypted XML details of a reserved set of DSNs.

```
<?xml version="1.0" encoding="UTF-8"?>
<f-device>
  <dsn>AC000W002463634</dsn>
  <public-key>----BEGIN RSA PUBLIC KEY----
MIIBCgKCAQEAhBpN90+W00vloo72pbG0tv1/QNOieiUddeNAA5b1S0zizsq/Khoe5N
Yp1+zGDNDm
nBzQHYQUMRISaSXQivE14/krs9h+PCvP6bETgaYLFxWhgpz0ZzjVxaz15HmKsiqwcn
4Us1cJLdQh
00UyPaQD20D8hsHqZNPjFA7e4fyze1sK7/1oa026uStySaU9+j8mN+
77HTZLn0ddpNLSLBr8RYe9
DRTTQle75pOzNygCsiVhUQDbWbmB13UpHxeeP6MuM8ZQiLiwfmD5UYxjpxAG9G3Oy0
5mtM9n6B3a
1Wls+kJ/Vlu0ZUcQYqDAF+A1HIA4MgnQW/FdXsBv2q9/8rz+UwIDAQAB
----END RSA PUBLIC KEY----
</public-key>
</f-device>
```

The CSV file is imported during the "Upload Manufacture" or "Upload Provision" function. It will contain a list of the DSN's just uploaded.

The LOG file contains errors that occurred during the "Upload Manufacture" or "Upload Provision" function.

12.2.5 Upload Manufacture File

These are manufacture attributes:

- Version (version of the log message format)
- Time (UTC time in seconds since 1 Jan, 1970)
- Timestamp (human-readable form of the time)
- Status (status of action performed)
- Err_code (indicates whether configuration successfully loaded onto gateway)
- Model (model number of Ayla module))
- DSN (the customer's Device Serial Number)
- mac (unique hardware ID for device (usually set by manufacturer))
- mfg_model (hardware manufacturer's model ID)

- mfg_sn (hardware manufacturer's serial number)
- Hwsig (globally unique hardware identifier)
- Comment (descriptive comment - must not contain commas)

The upload process for manufacturing file is:

1. Click **UPLOAD MANUFACTURE FILE**  **UPLOAD MANUFACTURE FILE**. This shows the Upload Manufacture File dialog box.



2. Click **Browse** to locate and select the file.
3. Click **VALIDATE** (this checks the file to ensure correct information and formatting).
4. If there are errors found, review the log file (under Actions column) and correct the upload file.
5. When validated, click **SUBMIT**.

NOTE SUBMIT can also be selected without validation. Any DSNs with errors will not be uploaded into the Ayla platform. Any errors will be shown in the log file found under the Actions column. The DSN entries in the upload file that caused the error can be corrected and uploaded. Any successful DSN entry should be removed or they will receive errors as duplicates.

12.2.6 Upload Provision File

This is available to all customers, except module manufacturers.

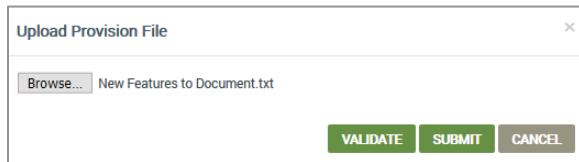
These are provisioning attributes:

- Version (version of the log message format)
- Time (UTC time in seconds since 1 Jan, 1970)
- Timestamp (human-readable form of the time)
- Status (describes action performed)
- Err_code (indicates whether configuration successfully loaded onto gateway)
- Model (model number of Ayla module)
- DSN (the customer's Device Serial Number)
- mac (unique hardware ID for device (usually set by manufacturer))
- mfg_model (hardware manufacturer's model ID)
- mfg_sn (hardware manufacturer's serial number)
- Hwsig (globally unique hardware identifier)
- Comment (descriptive comment - must not contain commas)
- Oem-id (Ayla's ID for the Ayla customer)

- Oem-model (Ayla's ID for Product Model)
- ADS Connect Flag (whether device has connected to Ayla Device Service)
- Odm (original device manufacturer of complete device)
- module_sw_version (module software version)
- oem_host_version (oem image version)

The upload process for the provisioning file is:

1. Click **UPLOAD PROVISION FILE** . This shows Upload Provision File dialog box.

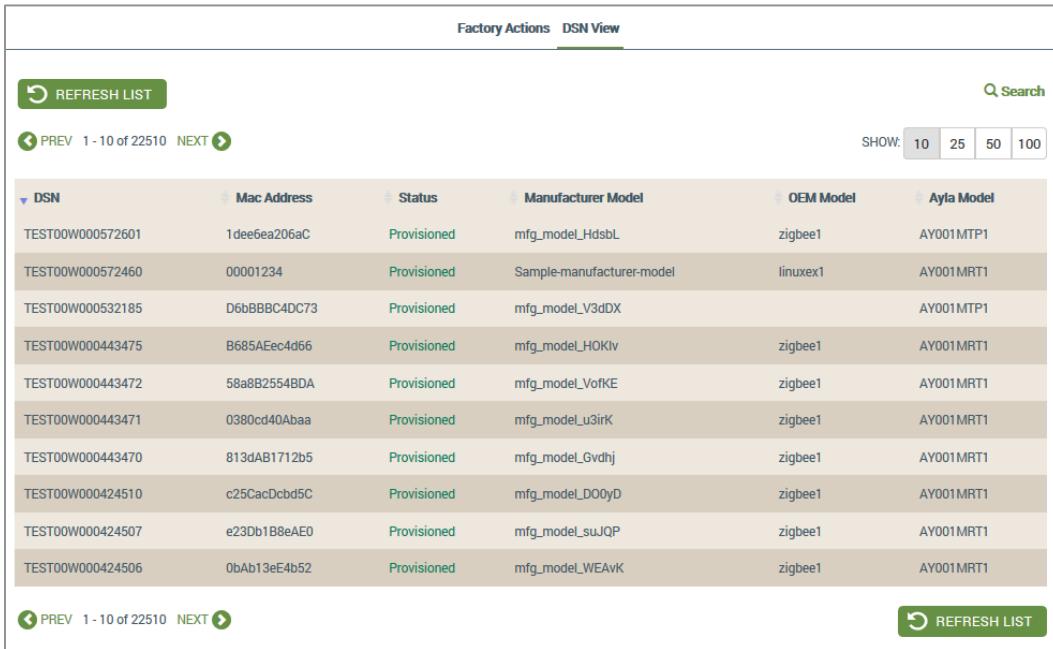


2. Click **Browse** to locate and select the file.
3. Click **VALIDATE** (this checks the file to ensure correct information and formatting).
4. If there are errors found, collect the upload file.
5. When validated, click **SUBMIT**.

NOTE SUBMIT can also be selected without validation. Any DSNs with errors will not be uploaded into the Ayla platform. Any errors will be shown in the log file found under the Actions column. The DSN entries in the upload file that caused the error can be corrected and uploaded. Any successful DSN entry should be removed or they will receive errors as duplicates.

12.3 DSN View tab

On the DSN View tab, the status of the displayed DSNs can be viewed.



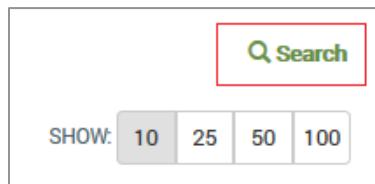
DSN	Mac Address	Status	Manufacturer Model	OEM Model	Ayla Model
TEST00W000572601	1dee6ea206aC	Provisioned	mfg_model_HdsbL	zigbee1	AY001MTP1
TEST00W000572460	00001234	Provisioned	Sample-manufacturer-model	linuxex1	AY001MRT1
TEST00W000532185	D6bBBC4DC73	Provisioned	mfg_model_V3dDX		AY001MTP1
TEST00W000443475	B685AEec4d66	Provisioned	mfg_model_HOKlv	zigbee1	AY001MRT1
TEST00W000443472	58a8B2554BDA	Provisioned	mfg_model_VofKE	zigbee1	AY001MRT1
TEST00W000443471	0380cd40Abaa	Provisioned	mfg_model_u3irK	zigbee1	AY001MRT1
TEST00W000443470	813dAB1712b5	Provisioned	mfg_model_Gvdhj	zigbee1	AY001MRT1
TEST00W000424510	c25CacDcb5C	Provisioned	mfg_model_D00yD	zigbee1	AY001MRT1
TEST00W000424507	e23Db1B8eAE0	Provisioned	mfg_model_suJQP	zigbee1	AY001MRT1
TEST00W000424506	0bAb13eE4b52	Provisioned	mfg_model_WEAvk	zigbee1	AY001MRT1

Table columns are:

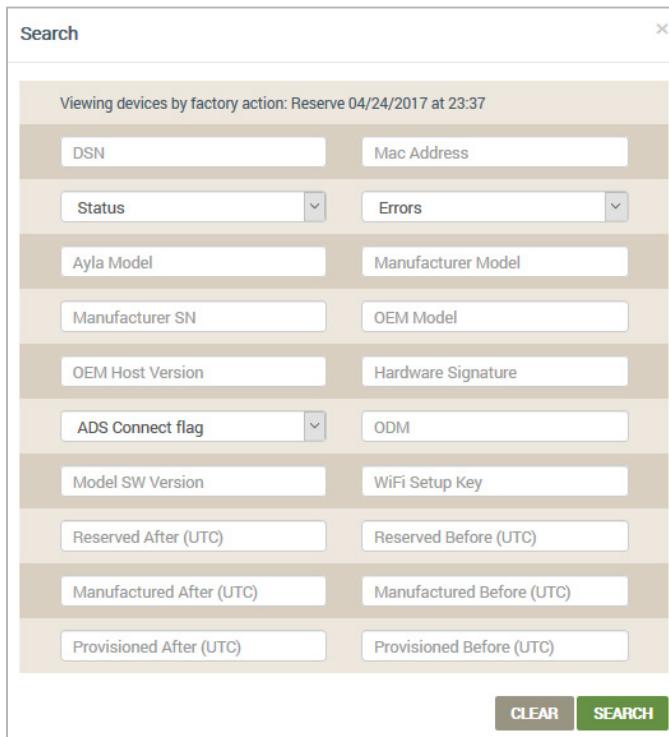
- **DSN** (The customer's Device Serial Number)
- **Mac Address** (IP MAC address of the device, associated with this DSN)
- **Status** (status of the device associated with this DSN)
- **Manufacturer Model** (Manufacturer's model of the device, associated with this DSN)
- **OEM Model** (model number of the customer's host application board, associated with this DSN)
- **Ayla Model** (model number of Ayla module for this device associated with the DSN)

12.3.1 Search DSNs

1. On the DSN View tab, click the **Search** icon.



2. On the Search dialog box, enter appropriate details:



- **DSN** (the customer's Device Serial Number – can use wildcards)
- **Mac Address** (IP MAC address)
- **Status** drop-down (DSN status)
 - **Reserved**
 - **Manufactured**
 - **Provisioned**
- **Errors** drop-down (type of response)
 - **Success**
 - **Failure**
- **Ayla Model** (model number of Ayla module)
- **Manufacturer Model** (manufacturer model name)
- **Manufacturer SN** (manufacturer serial number)
- **OEM Model** (model number of the customer's host application board)
- **OEM Host Version** (the customer's host version number)
- **Hardware Signature** (hardware identification)
- **ADS Connect flag** drop-down (connection with Ayla Cloud)
 - **Yes** (connected to ADS)
 - **No** (not connected to ADS)
- **ODM** (original device manufacturer)

- **Model SW Version** (software version of the model)
 - **WiFi Setup Key** (setup key for wifi – can use wildcards)
 - **Reserved After (UTC)** (reserved after date/time)
 - **Reserved Before (UTC)** (reserved before date/time)
 - **Manufactured After (UTC)** (manufactured after date/time)
 - **Manufactured Before (UTC)** (manufactured before date/time)
 - **Provisioned After (UTC)** (provisioned after date/time)
 - **Provisioned Before (UTC)** (provisioned before date/time)
3. When done, click **SEARCH**.
 4. Review the results.

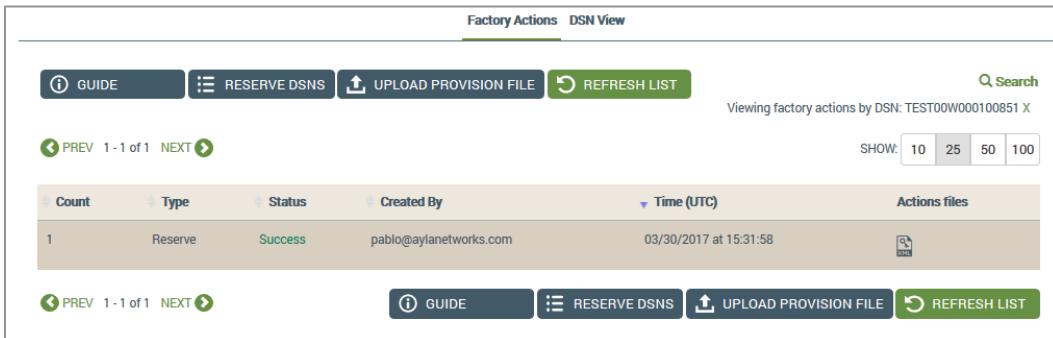
12.3.2 View Device Details

1. In the **DNS View** tab, table listing, click on an item. This shows the Device dialog box.

Device: X

DSN	TEST00W000117588																						
Status	Provisioned																						
Mac Address	b51B1E3B70d5																						
Manufacturer Model	mfg_model_xwm6G																						
ODM	ODM_hPfCX																						
Manufacturer SN	84756628212836155860576131																						
Hardware Signature	hwsig_AuBbv	Model SW Version	mfg_sw_version_alaDc																				
OEM Model	OEM_MODEL_NH1tC	OEM Host Version																					
Reserved	09/27/2017 at 18:28:27 (UTC)																						
Manufactured																							
Provisioned	09/27/2017 at 18:31:41 (UTC)																						
Action Status <table border="1"> <thead> <tr> <th>Date</th> <th>Name</th> <th>Status</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td>09/27/17 18:28:27</td> <td>Reserve</td> <td>Success</td> <td></td> </tr> <tr> <td>09/27/17 18:31:41</td> <td>Provision</td> <td>Success</td> <td></td> </tr> <tr> <td>09/27/17 18:34:32</td> <td>Push</td> <td>Success</td> <td></td> </tr> </tbody> </table>				Date	Name	Status	Message	09/27/17 18:28:27	Reserve	Success		09/27/17 18:31:41	Provision	Success		09/27/17 18:34:32	Push	Success					
Date	Name	Status	Message																				
09/27/17 18:28:27	Reserve	Success																					
09/27/17 18:31:41	Provision	Success																					
09/27/17 18:34:32	Push	Success																					
Factory Reset Steps <table border="1"> <thead> <tr> <th>Date</th> <th>Name</th> <th>Status</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td></td> <td>Reset Template</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Reset Device</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Unregister Device</td> <td></td> <td></td> </tr> <tr> <td></td> <td>Reset Datapoint</td> <td></td> <td></td> </tr> </tbody> </table>				Date	Name	Status	Message		Reset Template				Reset Device				Unregister Device				Reset Datapoint		
Date	Name	Status	Message																				
	Reset Template																						
	Reset Device																						
	Unregister Device																						
	Reset Datapoint																						
VIEW JOBS FACTORY RESET CLOSE																							

2. To see the Jobs on this device, click **VIEW JOBS**.
 - o Factory Actions tab shows a list of jobs for the device.



Count	Type	Status	Created By	Time (UTC)	Actions files
1	Reserve	Success	pablo@aylanetworks.com	03/30/2017 at 15:31:58	 TEST00W000100851

- o DSN View tab shows related DSNs. DSNs can be clicked to show Device dialog box.

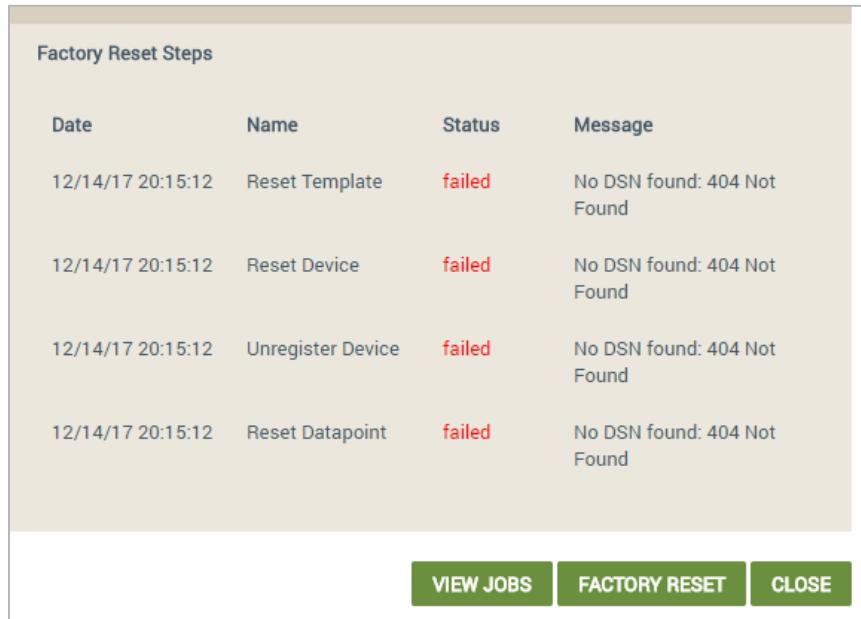


DSN	Mac Address	Status	Manufacturer Model	OEM Model	Ayla Model
TEST00W000111769		Reserved			AylaTest

12.3.3 Factory Reset

1. On the Device dialog box, click **FACTORY RESET**.

2. On the Device dialog, the Factory Reset Steps section displays the result of the Device Factory Reset action.



Factory Reset Steps			
Date	Name	Status	Message
12/14/17 20:15:12	Reset Template	failed	No DSN found: 404 Not Found
12/14/17 20:15:12	Reset Device	failed	No DSN found: 404 Not Found
12/14/17 20:15:12	Unregister Device	failed	No DSN found: 404 Not Found
12/14/17 20:15:12	Reset Datapoint	failed	No DSN found: 404 Not Found

VIEW JOBS **FACTORY RESET** **CLOSE**

3. Four actions take place on the Factory Reset action.

- o Reset Template
- o Reset Device
- o Unregister Device
- o Reset Datapoint.

4. When done, click **CLOSE**.

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

DSS

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

Host MCU

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

Ayla Customer Dashboard for Developers

This is the environment for customers to develop the interface between the Ayla Platform and their products.

Ayla Customer Dashboard for Field

This is the environment for customers to configure and monitor their production products on the Ayla platform

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.