

Ayla OEM Dashboard User Guide



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1 Introduction

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

NOTE The Ayla OEM Dashboard is in the process of being updated. The functionality remains the same but the interface is slightly different.

1.1 Audience

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

1.2 Related Documentation

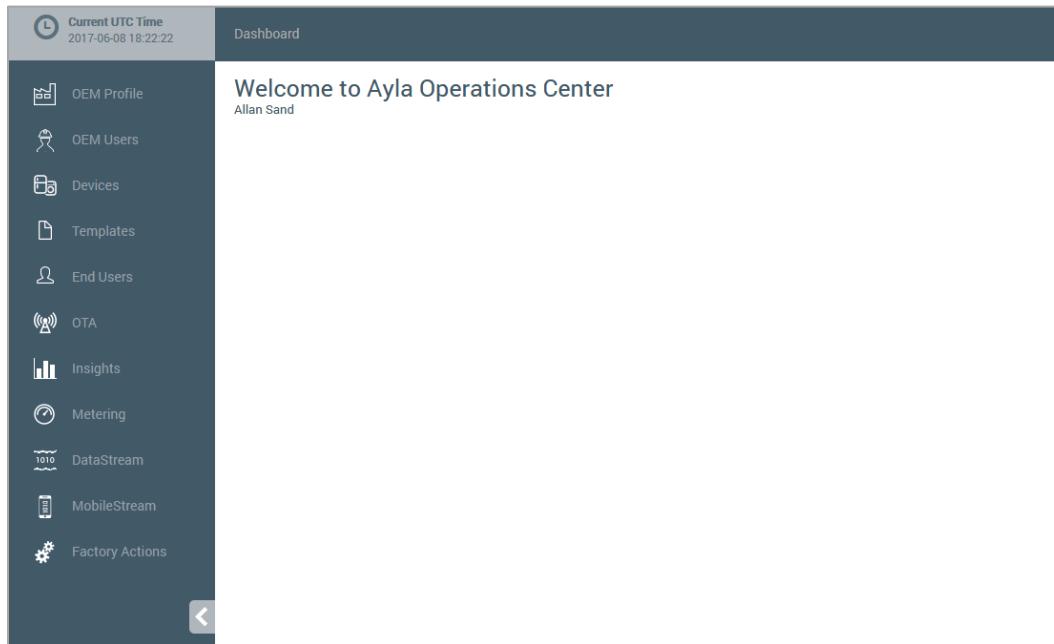
The following documents are referenced in this document; each document has a document name and a number in parenthesis. You can locate these documents at [on help.aylasupport.com](http://help.aylasupport.com) using either the document name or number. If you cannot find a document, contact your Customer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

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

2 Overview of the Ayla OEM Dashboard

The Ayla Networks Dashboard is provided to all OEMs. The dashboard provides a place to view users, devices, templates, and other information for review and updating. The Ayla Networks Dashboard is most often referred to as the OEM Dashboard.

Figure 1 - OEM Dashboard home page



2.1 Access the OEM Dashboard

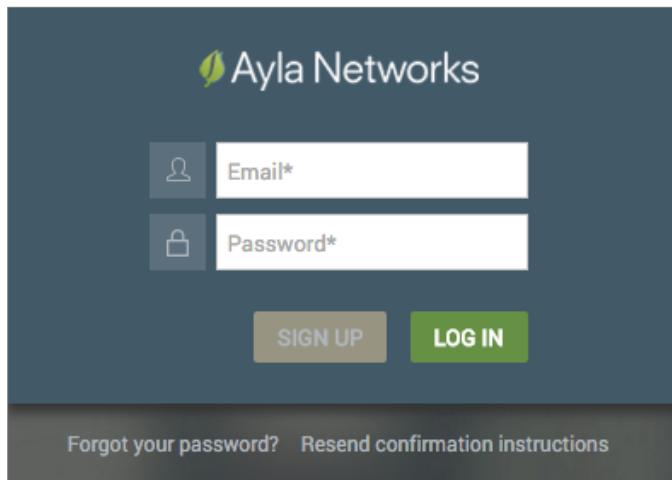
There are several environments available, depending on the region:

- The Development OEM Dashboard (create and test device configurations, functions, and features):
 - US & EU: <https://dashboard-dev.aylanetworks.com/>
 - CN: <https://dashboard-dev.ayla.com.cn/>
- The Field OEM Dashboard (manage devices already in the field):
 - US: <https://dashboard.aylanetworks.com>
 - EU: <https://dashboard-field-eu.aylanetworks.com/>
 - CN: <https://dashboard.ayla.com.cn/>

If the OEM Admin creates a user in one OEM Dashboard environment (i.e., Field), that user does not have access to the other OEM Dashboard environment (i.e., Development).

2.1.1 Log In

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

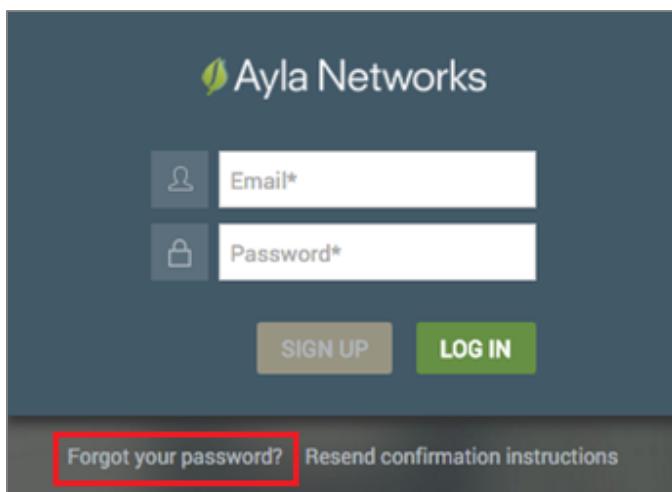


2. Click **LOG IN**.

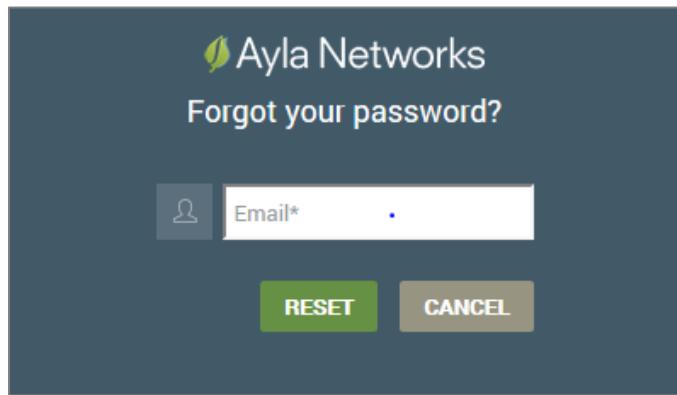
This displays the OEM Dashboard home page.

2.1.2 Forgot Password

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



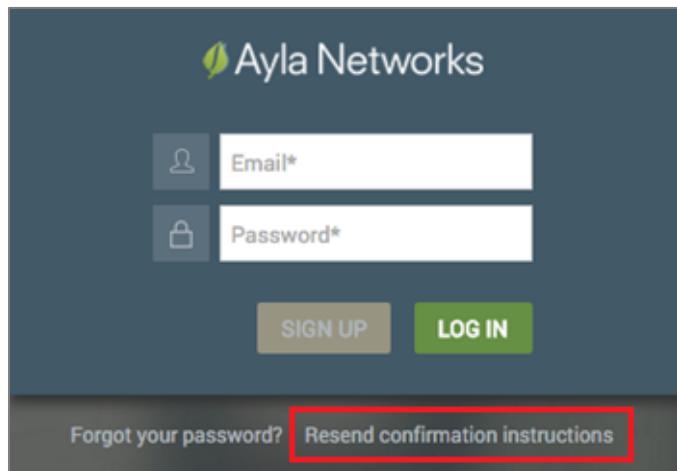
2. On the Forgot your password dialog box, enter your registration email and click **RESET**.



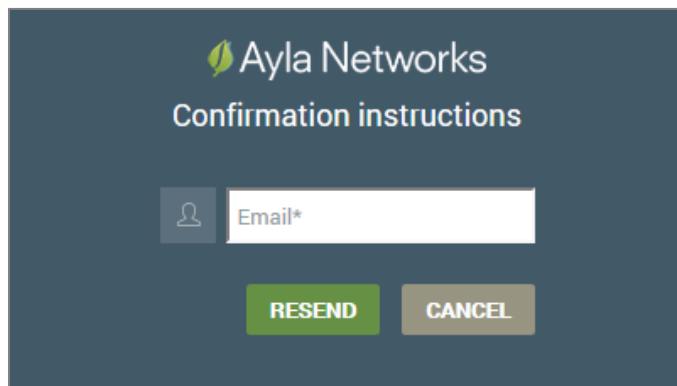
3. Check your email for the new login password.
4. Follow the email instructions.

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 click **RESEND**.

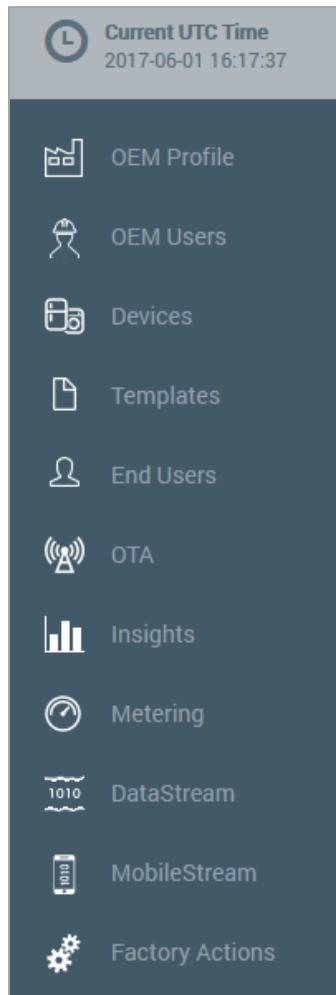


3. When you receive the email, follow the instructions.

2.2 OEM Dashboard Navigation Panel

The OEM Dashboard has a Navigation Menu (left side) linked 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 OEM-related actions that are applied to the devices and used within the OEM Dashboard.
- **OEM Users** – Lists all current OEM 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 OEM 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.
- **Metering** – Use statistics on OEM Models.
- **DataStream** – Lists of subscriptions. Can be created, edited, and deleted.
- **MobileStream** – Mobile subscriptions (optional feature for OEMS who have signed up)
- **Factory Actions** – Available factory activities

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

2.3 Roles in the Ayla OEM Dashboard

OEM Dashboard Roles specify the access levels a user has to various Dashboard views and functions. All users have access to devices registered to their account. The OEM roles and tasks they can perform are outlined below.

OEM Admin

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

OEM Developer

- Access to all public and OEM scope 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

- 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 Module Manufacturer

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

OEM Staff

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

End User

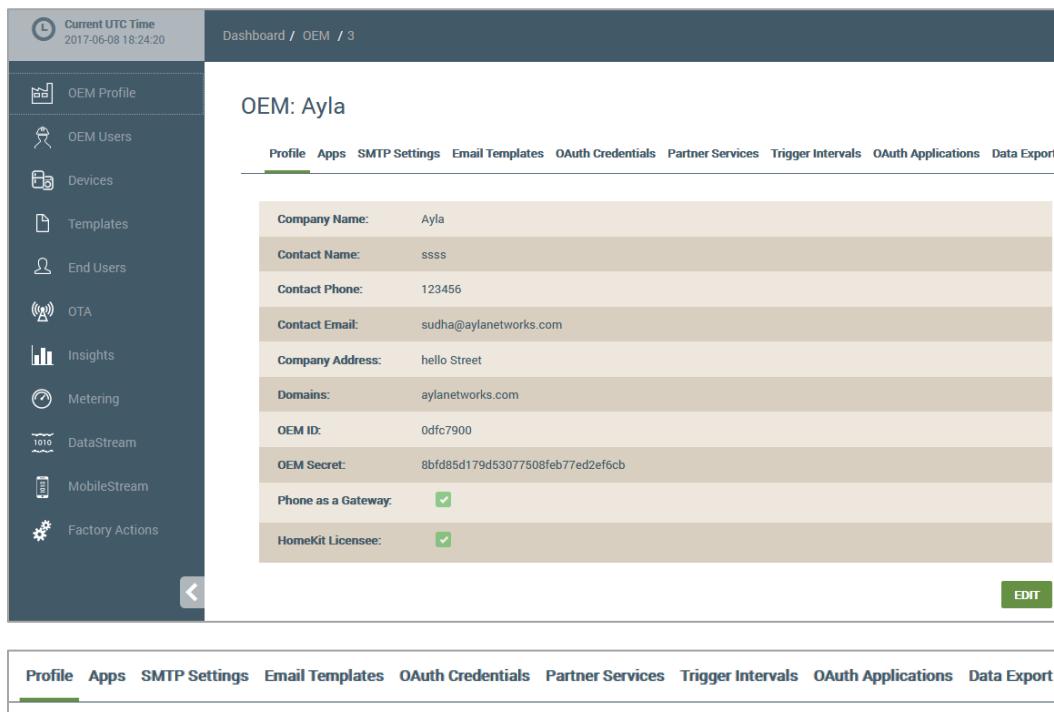
- Create, edit, or delete their registered devices only, devices they own

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 - OEM 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"/>

The page has several tabs:

- **Profile** – basic company information
- **Apps** – available company-configured applications for OEM
- **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 OEM
- **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 displays OEM specific information.

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

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:	<input checked="" type="checkbox"/>
HomeKit Licensee:	<input checked="" type="checkbox"/>

EDIT

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:	<input checked="" type="checkbox"/>
HomeKit Licensee:	<input checked="" type="checkbox"/>

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 be 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 OEM.

- **Phone as a Gateway** checkbox
 - Select (the OEM is enabled for PaaG)
 - Unselect (OEM is not enabled for Phone as a Gateway)

- **HomeKit Licensee** checkbox
 - Select (if OEM 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.

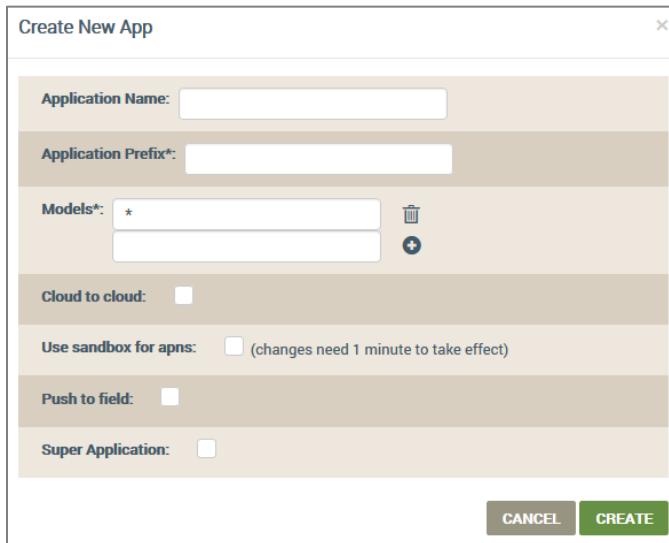
OEM: Ayla Networks Demo			
Profile Apps SMTP Settings Email Templates OAuth Credentials Partner Services Trigger Intervals OAuth Applications Data Export			
+ CREATE NEW		<input style="width: 150px; height: 20px; border: 1px solid #ccc; border-radius: 10px; padding: 5px; margin-right: 10px;" type="text" value="Search OEM Apps"/>	
Application Name	Application ID	Models	Application Secret
Ayla Smart Coffee Machine	aSmartCoffeeMachine-id	["COFE"]	aSmartCoffeeMachine-twfRtNEe3ai9kQTLzqV3eg3HVgI
Ayla Smart Thermostat	aSmartThermostat-id	["TEST"]	aSmartThermostat-6196915
JCI_iOS_test	jci_iOS_test-id	["onyx280"]	jci_iOS_test-p0_yIQKvqOyv31XJE6sHf6UiD38
Light boxes	LBs-id	["LB1", "LB2"]	LBs-LzxclRKJlmmUrdjG0jnoajmSxjk
Prime-test	test_-id	— . !^*	test_-2307249
aylademo	aylademo-id	□	aylademo-4925875

Table column descriptions:

- **Application Name** (name of the application)
- **Application ID** (ID of the application)
- **Models** (models used with the application)
- **Application Secret** (Ayla-assigned secret)
- **Actions** (actions that can be applied to the item in the table)

3.2.1 Create Application

1. On the **Apps** page, click **CREATE NEW**. This shows the Create New App dialog.



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

- Application Name:** Text input field.
- Application Prefix*:** Text input field.
- Models*:** Text input field with a placeholder asterisk (*). To the right are a "Trash Can" icon and a "Plus" icon.
- Cloud to cloud:** A checkbox.
- Use sandbox for apns:** A checkbox with a note: "(changes need 1 minute to take effect)".
- Push to field:** A checkbox.
- Super Application:** A checkbox.

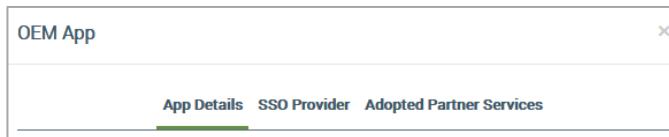
At the bottom are two buttons: **CANCEL** and **CREATE**.

2. On the dialog, enter details:
 - **Application Name** (name of this application)
 - **Application Prefix** (prefix to apply to the application ID and application secret)
 - **Models** (the OEM models to be used with this application. Click **Plus** icon to add a model, **Trash Can** icon to delete a model)
 - **Cloud to cloud** checkbox
 - Select (if this app will communicate with Ayla Cloud)
 - Unselect (to not connect with Ayla Cloud)
 - **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.)
 - **Push to field** checkbox
 - Select (to push application secret to field service)
 - Unselect (to not push)
 - **Super Application** checkbox
 - Select (if true)
 - Unselect (if this does not apply)
3. When done, click **CREATE**.

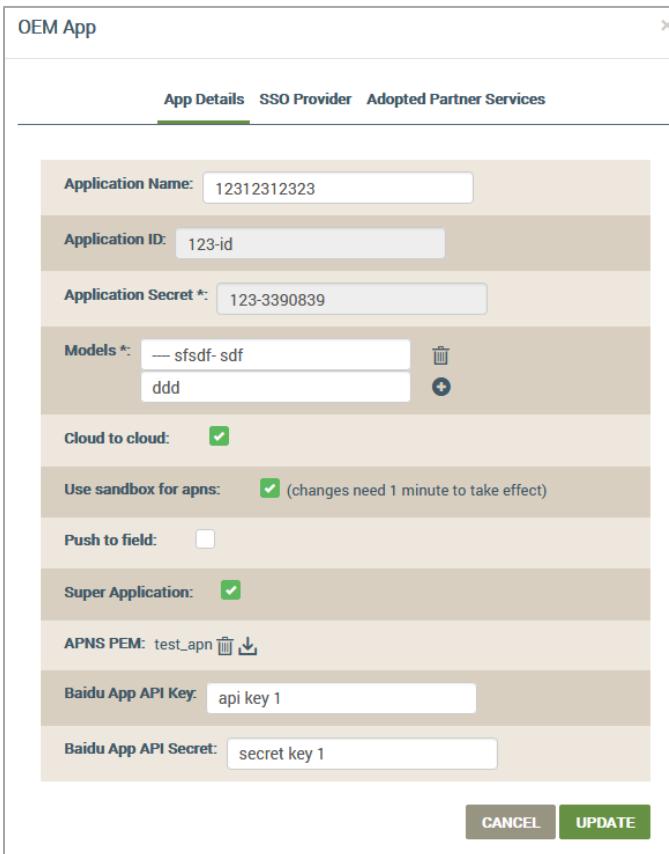
The new app is added to the table listing.

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 contains the following fields:

- Application Name:** 12312312323
- Application ID:** 123-id
- Application Secret *:** 123-3390839
- Models *:**
 ddd
- Cloud to cloud:**
- Use sandbox for apns:** (changes need 1 minute to take effect)
- Push to field:**
- Super Application:**
- APNS PEM:** test_apn
- Baidu App API Key:** api key 1
- Baidu App API Secret:** secret key 1

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

- a. Edit details:
 - **Application Name** (name of application)
 - **Application ID & Application Secret** (cannot be edited)
 - **Models** (edit, add, or remove models as needed)
 - **Cloud to cloud** checkbox
 - Select (for cloud to cloud connectivity)
 - Unselect (for all other connectivity)
 - **Use sandbox for apns** (Apple Push Notification Service) checkbox:
 - Select (to connect to Apple's sandbox environment)

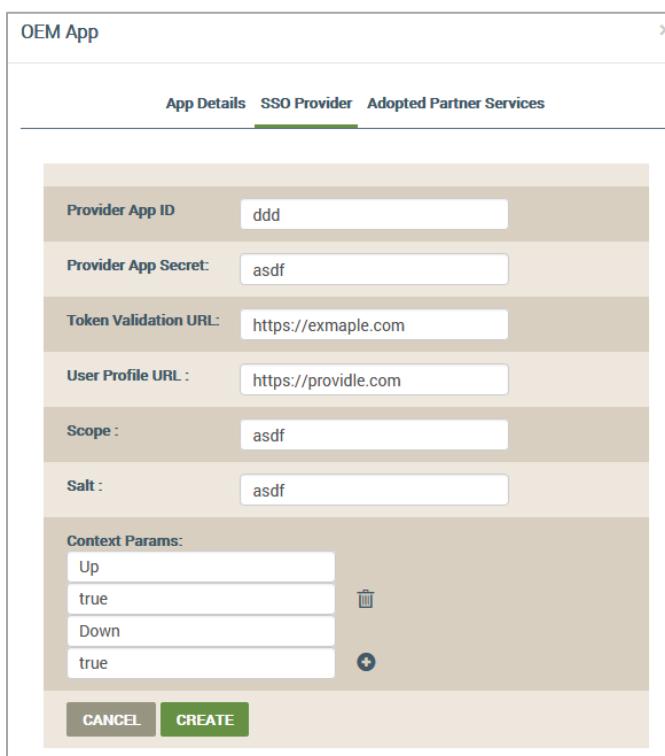
Unselect (to not use Apple's production service - when this is changed, the result will require at least one minute to take effect.)

- **Push to field** checkbox
 - Select (to push application secret to field service)
 - Unselect (to not push to field)
- **Super Application** checkbox
 - Select (if true)
 - Unselect (if does not apply)
- **APNS PEM** (Apple Push Notification Service) – click **Plus**  icon to add Name, PEM File, passphrase and click **CREATE**. If uploaded, click Trash Can to delete. Click Download
- **Baidu App API Key** (China only)
- **Baidu App API Secret** (China only)

b. Click **UPDATE**.

3. On the SSO Provider sub-tab dialog box:

- o For a new SSO Provider (not previously entered for this app):



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

Provider App ID	ddd
Provider App Secret	asdf
Token Validation URL	https://exmaple.com
User Profile URL	https://provide.com
Scope	asdf
Salt	asdf

Below these fields is a section for 'Context Params' with the following entries:

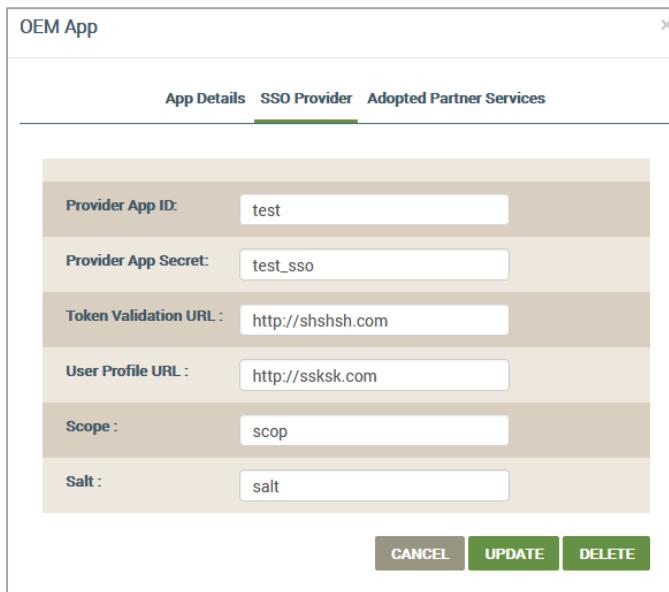
- Up
- true
- Down
- true

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

Enter details:

- **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, oem - 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 is click **EDIT**.



The screenshot shows the 'SSO Provider' tab of the OEM App configuration. The form contains the following fields:

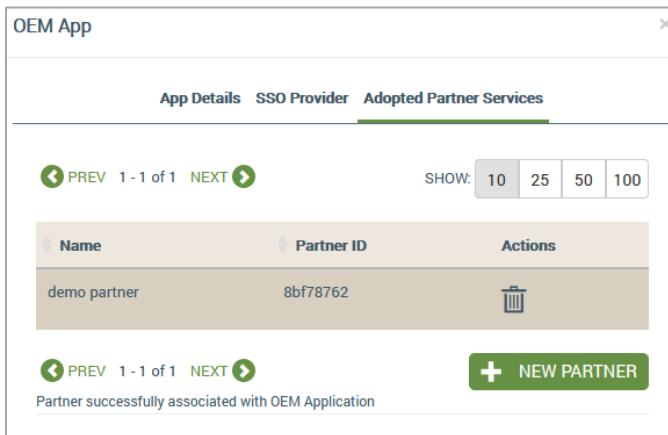
Provider App ID:	test
Provider App Secret:	test_sso
Token Validation URL:	http://shshsh.com
User Profile URL:	http://ssksk.com
Scope:	scop
Salt:	salt

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

Edit details:

- **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, oem - same as used to calculate auth on Provider side)
- **Salt** (same as used to calculate auth on Provider side)
- Click **UPDATE**.

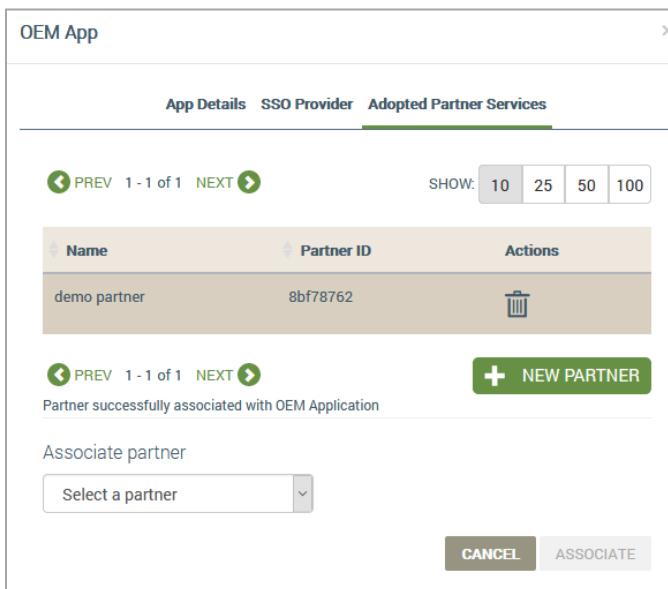
4. On the Adopted Partner Services sub-tab dialog box:



Name	Partner ID	Actions
demo partner	8bf78762	

NEW PARTNER

To add a partner, click **NEW PARTNER**.



Name	Partner ID	Actions
demo partner	8bf78762	

NEW PARTNER

Associate partner

Select a partner

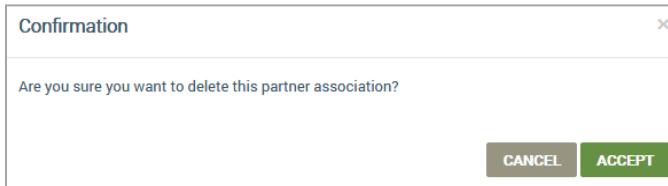
CANCEL **ASSOCIATE**

- On the Associate partner drop-down, select one.
- Click **ASSOCIATE**.

This adds the selection to the table listing.

To delete a partner:

- In the table listing, on the partner to delete, click the Trash Can.
- On the Confirmation dialog box, click **ACCEPT**.



Are you sure you want to delete this partner association?

CANCEL **ACCEPT**

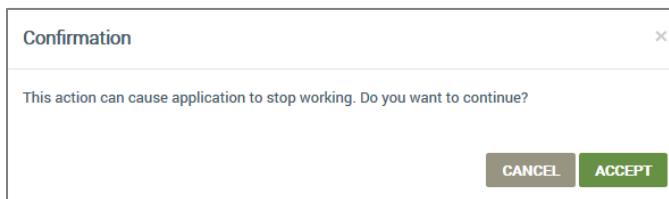
This removes the partner from the table listing.

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 ID	Models	Application Secret	
tCoffeeMachine-id	["COFE"]	aSmartCoffeeMachine-twfrtNEe3ai9kQTLzqV3eg3HVgl	
tThermostat-id	["TEST"]	aSmartThermostat-6196915	

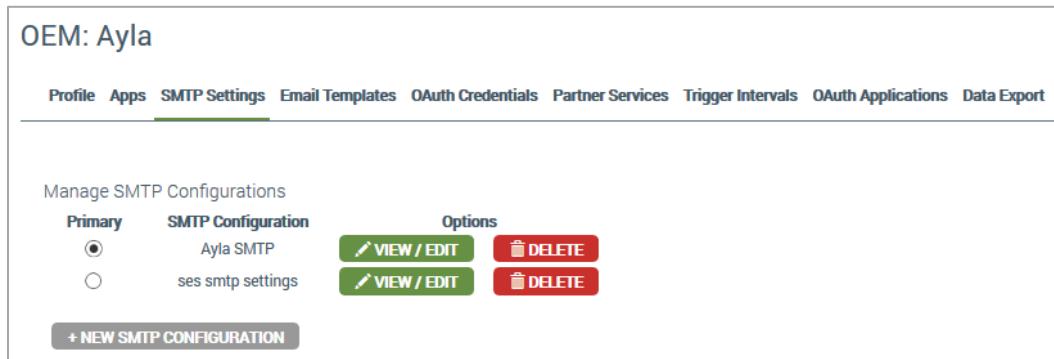
3. On the Confirmation dialog box, click **ACCEPT**.



3.3 SMTP Settings

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

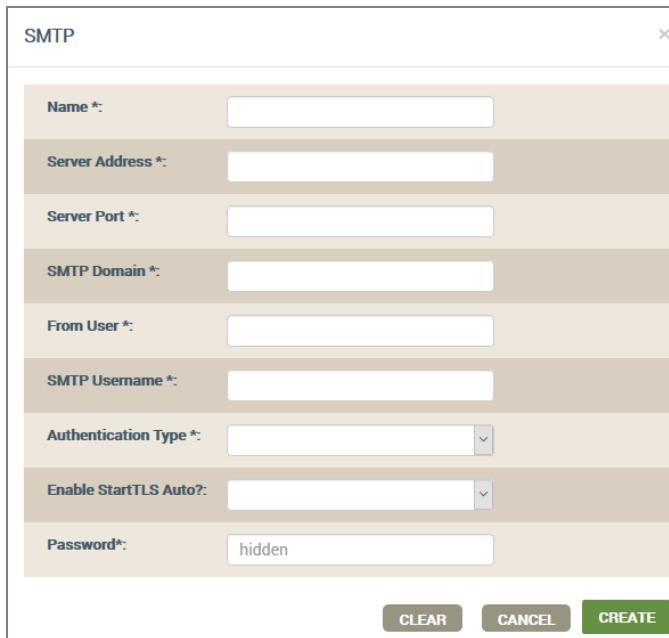
On the Navigation Panel, click **OEM Profile**, then click the **SMTP Settings** tab.



The screenshot shows the 'OEM: Ayla' dashboard with the 'SMTP Settings' tab selected. The page title is 'OEM: Ayla'. The navigation bar includes: Profile, Apps, **SMTP Settings**, Email Templates, OAuth Credentials, Partner Services, Trigger Intervals, OAuth Applications, and Data Export. The main content area is titled 'Manage SMTP Configurations'. It shows two configurations: 'Primary' (radio button selected) with the value 'Ayla SMTP' and 'ses smtp settings' (radio button unselected). Below each configuration are 'VIEW / EDIT' and 'DELETE' buttons. A 'Options' section is also present. At the bottom, there is a '+ NEW SMTP CONFIGURATION' button.

3.3.1 Create SMTP Settings

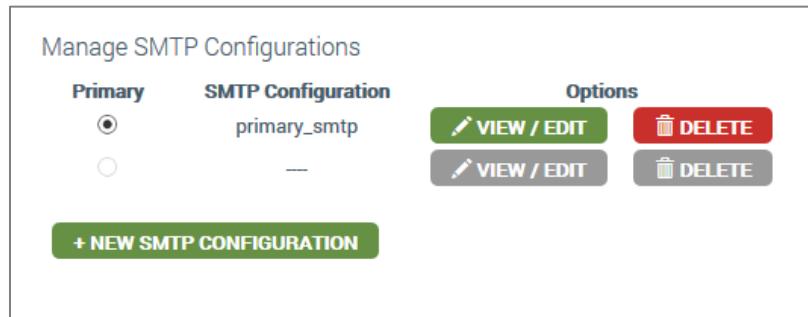
1. On the **SMTP Settings** tab, click **NEW SMTP CONFIGURATION**. (If option is not available, the button will be grayed out.) This displays the SMTP dialog box.



2. Enter details:
 - **Name** (name for this SMTP configuration)
 - **Server Address** (address location of the server)
 - **Server Port** (port used on the server)
 - **SMTP Domain** (domain address)
 - **From User** (user name)
 - **SMTP Username** (SMTP user)
 - **Authentication Type** drop-down
 - 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**
3. Click **CREATE**.

3.3.2 View/Edit SMTP Settings

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

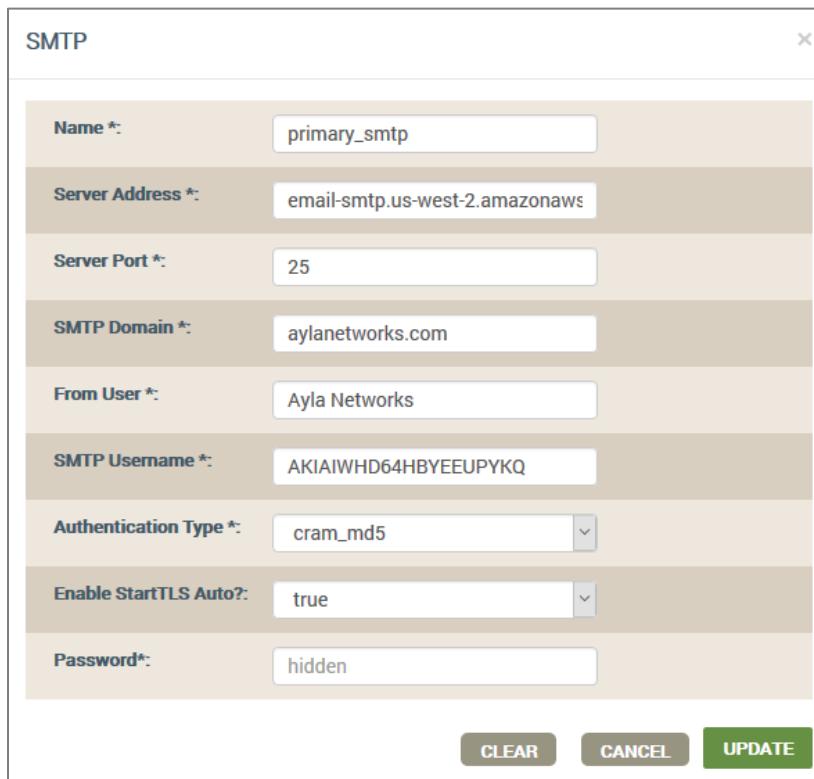


Manage SMTP Configurations

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

+ NEW SMTP CONFIGURATION

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



SMTP

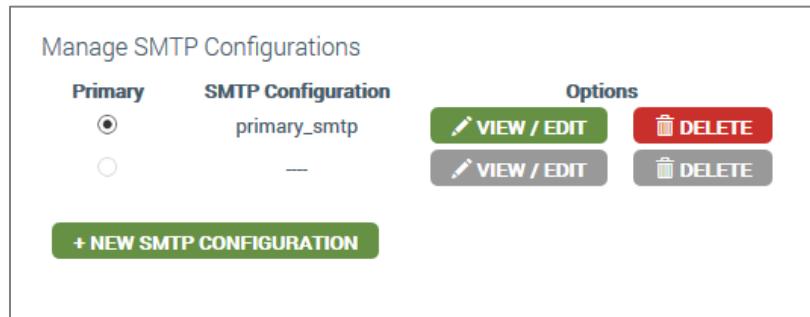
Name *:	primary_smtp
Server Address *:	email-smtp.us-west-2.amazonaws
Server Port *:	25
SMTP Domain *:	aylanetworks.com
From User *:	Ayla Networks
SMTP Username *:	AKIAIWHD64HBYEEUPYKQ
Authentication Type *:	cram_md5
Enable StartTLS Auto?:	true
Password*:	hidden

CLEAR **CANCEL** **UPDATE**

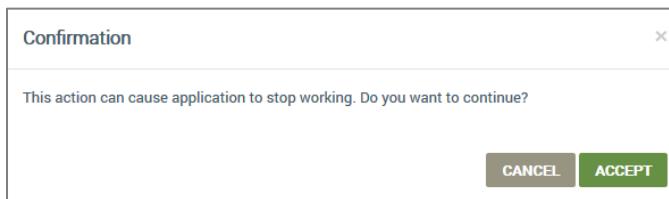
4. Make changes, as needed.
5. Click **UPDATE**.

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

OEMs can customize end-user emails sent to end-users by the Ayla Cloud on behalf of the OEM.

The OEM 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 displays 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.

Click **DOWNLOAD SAMPLE** for examples of icons and message templates.

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
PREV 1 - 4 of 4 NEXT
SHOW: 10 25 50 100

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

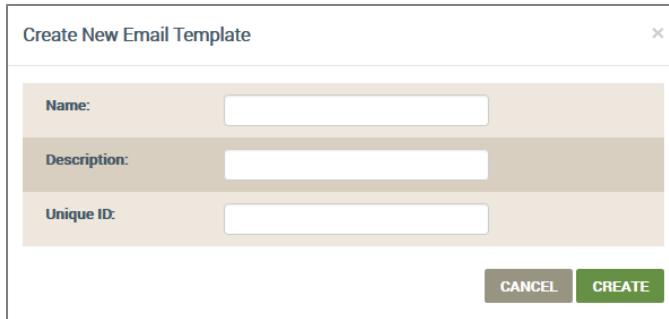
PREV 1 - 4 of 4 NEXT
+ ADD NEW
Download Sample

Table column descriptions:

- **Template ID** (Ayla-assigned template ID)
- **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)

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.

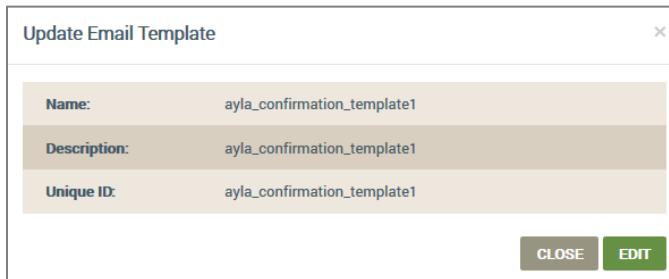


2. Enter template information:
 - o **Name** (name for the email template)
 - o **Description** (clear description about the email template)
 - o **Unique ID** (a unique identification for the email template)
3. Click **CREATE**.

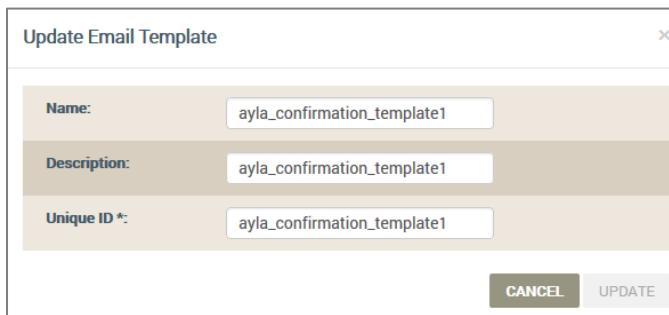
NOTE There is a delay after a new template is created. Allow 10 minutes before using the new email template.

3.4.2 View/Edit Template

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



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



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 OEM'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]]` - S/N of the device.
 - `[[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 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.

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 OEM-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.

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



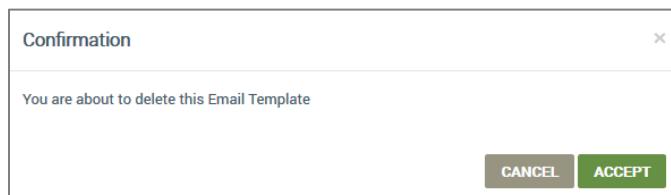
2. The file will download. Locate the file and move it to the preferred file location for viewing/editing, as needed.

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



The screenshot shows the 'OAuth Credentials' tab selected in the navigation bar. The table has the following data:

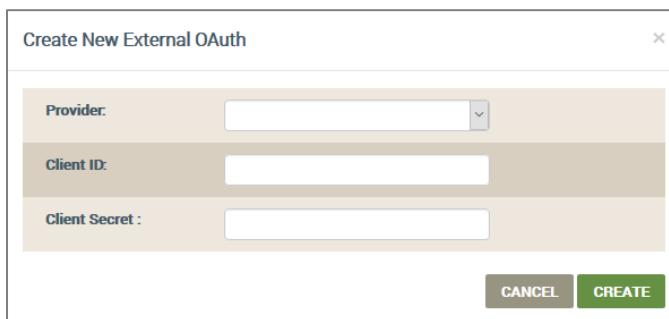
Provider	Client ID	Client Secret	Actions
facebook	123	456	
google	123	7171	
wechat	2q134	asdfasdf	

Table column description:

- **Provider** (name of the OAuth provider)
- **Client ID** (user-assigned name of the client)
- **Client Secret** (user-assigned secret code for OAuth)
- **Actions** (user options for the OAuth credential)

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.



The dialog box has the following fields:

- Provider:
- Client ID:
- Client Secret:

Buttons at the bottom: **CANCEL** and **CREATE**

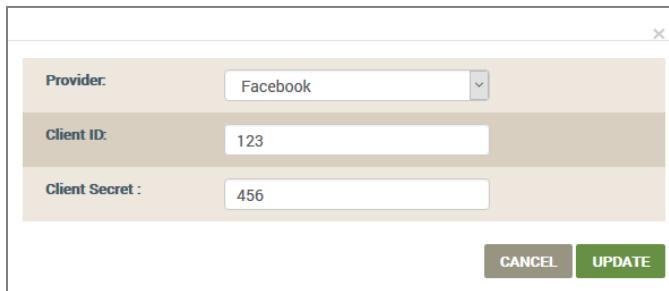
2. Enter details:

- **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**.

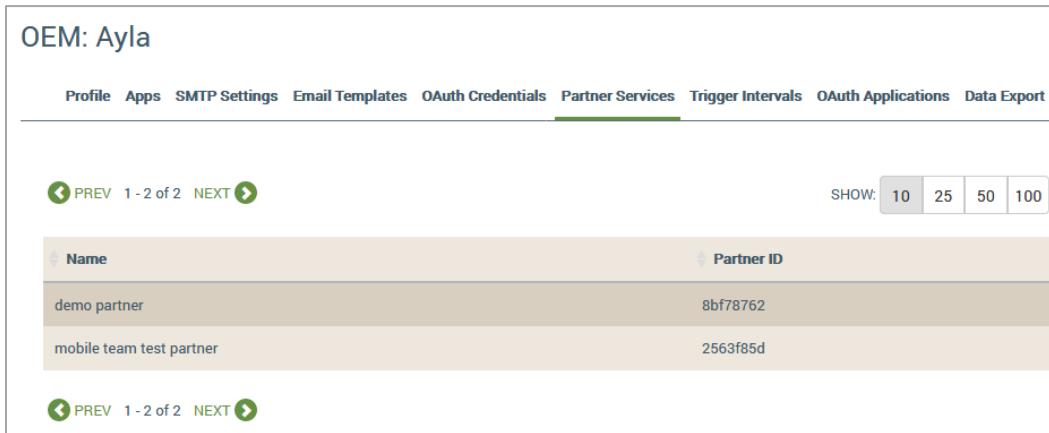
3.5.3 Delete OAuth Credentials

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



3.6 Partner Services

This lists partners that are working with the OEM. To add a partner to this list, contact Ayla Support. Partner details cannot be edited by the OEM. This is only available on the OEM Developer Dashboard.



The screenshot shows a table with two columns: 'Name' and 'Partner ID'. The 'Name' column contains 'demo partner' and 'mobile team test partner'. The 'Partner ID' column contains '8bf78762' and '2563f85d'. Navigation buttons 'PREV' and 'NEXT' are at the top and bottom of the table, along with a 'SHOW' dropdown set to 10, 25, 50, or 100.

Name	Partner ID
demo partner	8bf78762
mobile team test partner	2563f85d

Table column description:

- **Name** (name of the partner)
- **Partner ID** (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 Navigation Panel, click **OEM Profile**, then click the **Trigger Intervals** tab.



The screenshot shows a table with two columns: 'Trigger Intervals:' and 'In Seconds'. The 'Trigger Intervals:' column lists 'Email', 'Sms', 'Forward', 'iOS Push', 'Android Push', and 'Baidu Push'. The 'In Seconds' column lists '30', '30', '0', '30', '30', and '30'. A green 'EDIT' button is at the bottom right.

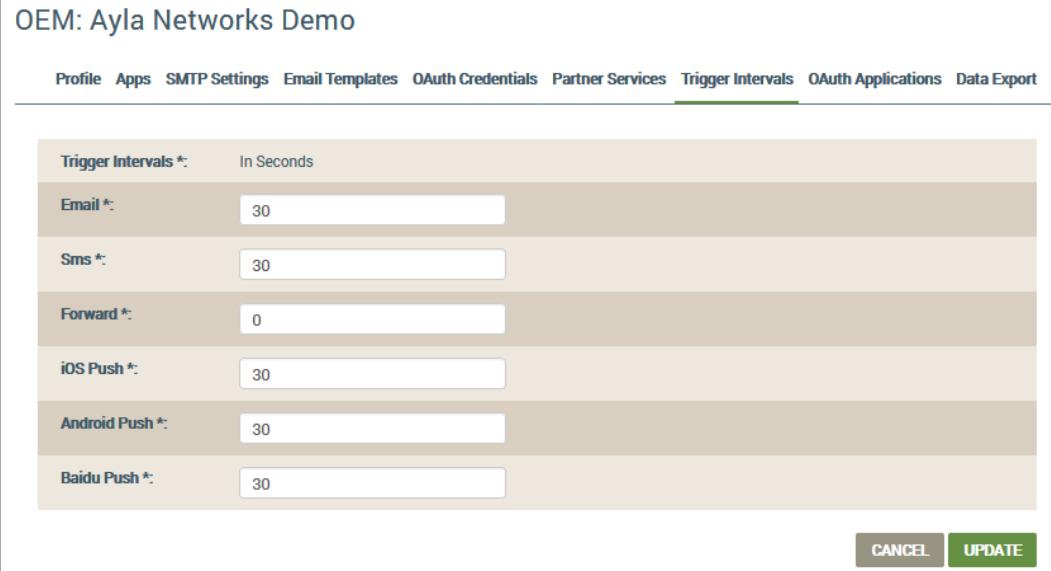
Trigger Intervals:	In Seconds
Email:	30
Sms:	30
Forward:	0
iOS Push:	30
Android Push:	30
Baidu Push:	30

Table column description:

- **Trigger Intervals** (type of trigger action)
- **In Seconds** (time before trigger is activated)

3.7.1 Edit Trigger Levels

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



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

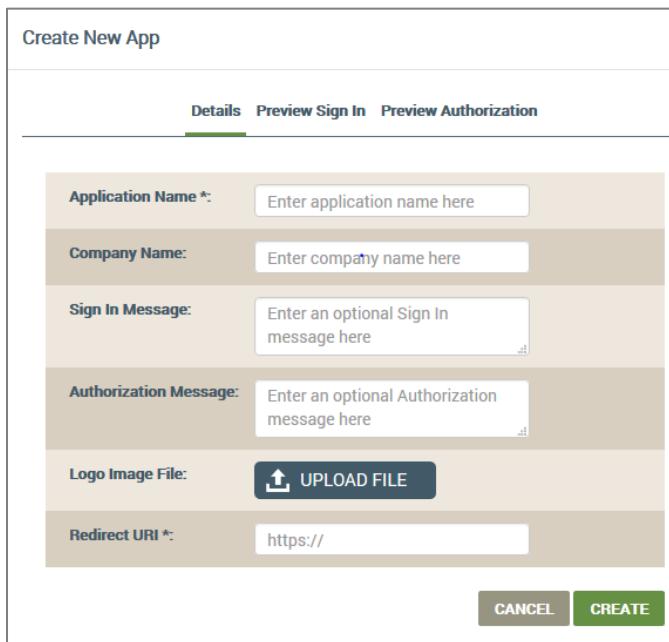
PREV 1 - 3 of 3 NEXT
+ NEW OAUTH APP

Table column description:

- **Application Name** (name of the OAuth application)
- **Redirect URL** (on redirect, go to this URL)
- **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:

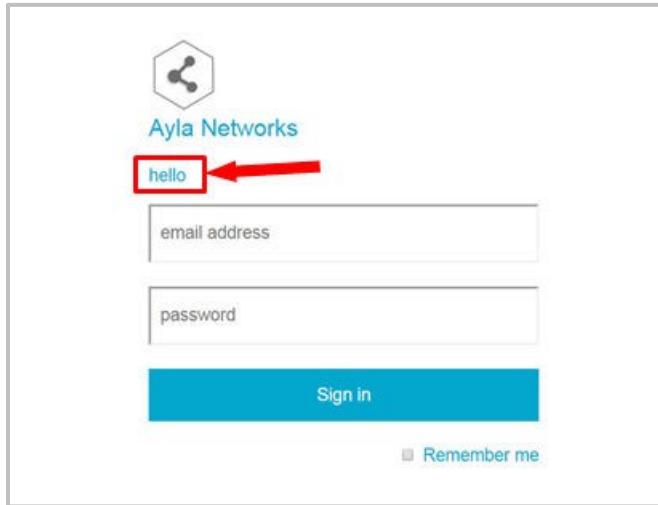
- Application Name ***: Enter application name here
- Company Name**: Enter company name here
- Sign In Message**: Enter an optional Sign In message here
- Authorization Message**: Enter an optional Authorization message here
- Logo Image File**: Click **UPLOAD FILE** to select an image
- Redirect URI ***: https://

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

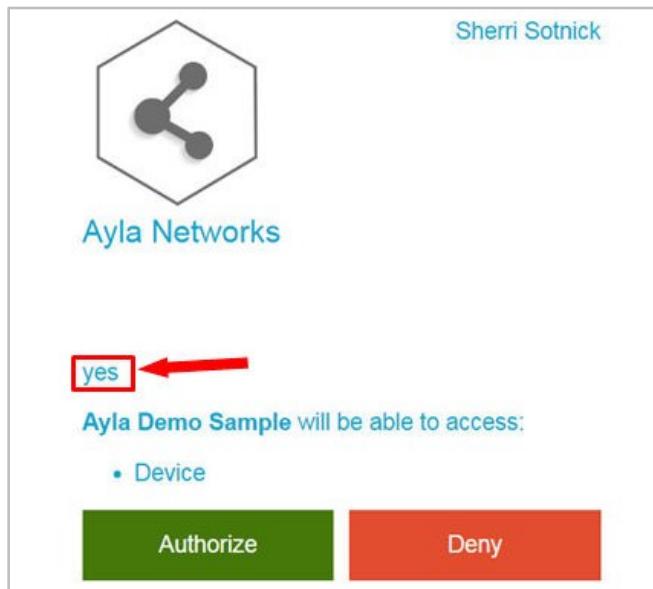
2. On **Details** tab, enter:
 - o **Application Name** (name of the application)
 - o **Company Name** (company name)
 - o **Sign In Message** (optional) (displays message that informs user of any details about the authorization request)
 - o **Authorization Message** (optional) (displays when the user is authorized and logged in)
 - o **Logo Image File** – click **UPLOAD FILE** to locate and select an image
On the File Upload dialog, locate and select the image file, then click **Open**.
 - o **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 it from the Amazon Developer Console.
 - o 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.

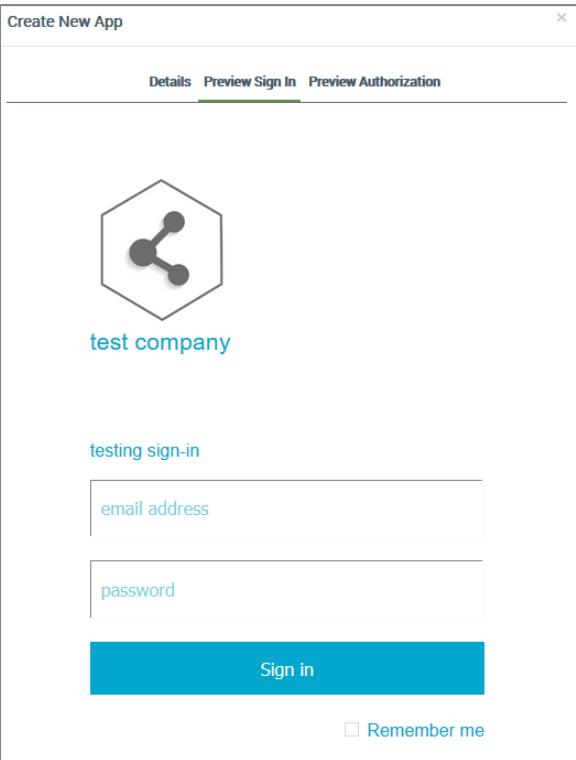


- o **email address** - When prompted in the company's console (linked to the OEM Dashboard account), enter the same email address as your log-in credentials to the OEM Dashboard.
 - o **Password** - When prompted in the company's console (linked to the OEM Dashboard account), enter the same password as your log-in credentials for the OEM Dashboard.
 - o **Remember me** - select so credentials are remembered in future.
 - o **Sign In** - Click when prompted in the company's console (linked to the OEM Dashboard account), such as Amazon for Alexa.
4. Click the Preview Authorization tab to review your settings from the Details tab. The figure below shows the authorization message entered on the Details tab.



- **Authorize** - Click to enable the process to link your OEM 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 OEM Dashboard account.

5. On **Preview Sign In** tab (inactive at this time):



Create New App

Details Preview Sign In Preview Authorization

test company

testing sign-in

email address

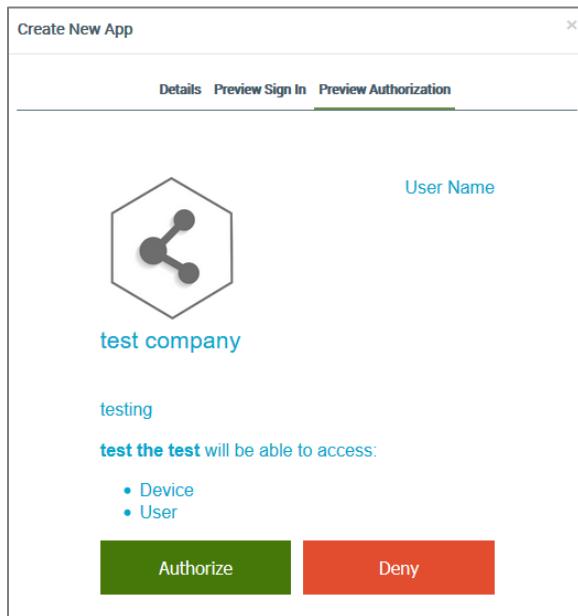
password

Sign in

Remember me

- Enter **email address**
- Enter **password**
- (optional) select **Remember me** checkbox.
- Click **Sign In**

6. On Preview Authorization tab (inactive at this time):



- o To set user access, click:
 - **Authorize** (user can log in to the app)
 - **Deny** (user is denied access to the app)
7. On **Details** tab, click **CREATE**.
 8. 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

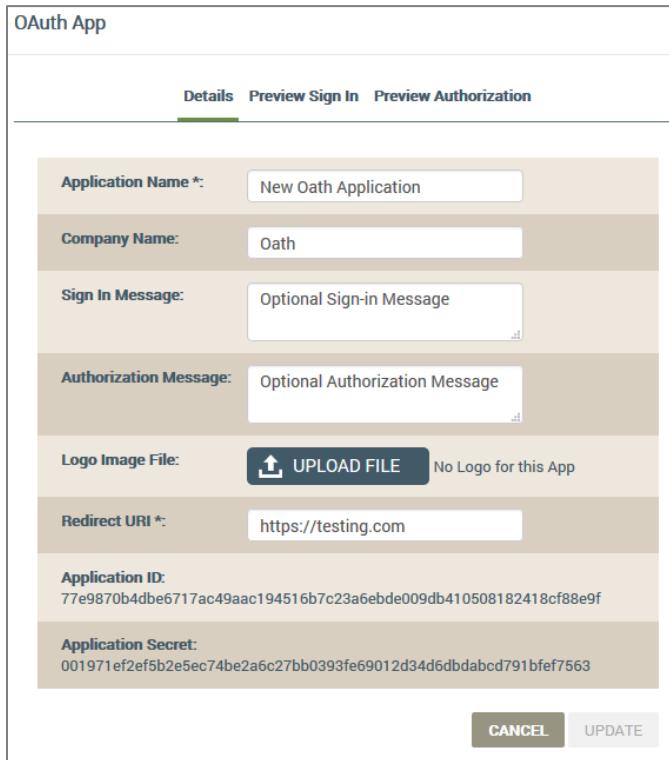
Application Name * :	New Test Oauth
Company Name:	test
Sign In Message:	Optional Test message
Authorization Message:	Optional Authorization message.
Logo Image File:	No Logo for this App
Redirect URI *:	https://www.newoauth.com
Application ID:	cdb40620183896c829a8c59e8133a7d34fdea5202e7bf5355407fd6e7669e3e1
Application Secret:	4556c13a92f73bbf707ee522526a9d8ef8935f0b106ea90da0057b6ddf192994

CLOSE **EDIT**

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

3.8.3 Edit OAuth Application

1. In the table listing, you can:
 - o Click the application and, on the dialog box, click **EDIT**.
 - o Click the **Edit OAuth Application**  icon.



OAuth App

Details Preview Sign In Preview Authorization

Application Name *: New OAuth Application

Company Name: Oath

Sign In Message: Optional Sign-in Message

Authorization Message: Optional Authorization Message

Logo Image File: No Logo for this App

Redirect URI *: https://testing.com

Application ID:
77e9870b4dbe6717ac49aac194516b7c23a6ebde009db410508182418cf88e9f

Application Secret:
001971ef2ef5b2e5ec74be2a6c27bb0393fe69012d34d6dbabcd791bfef7563

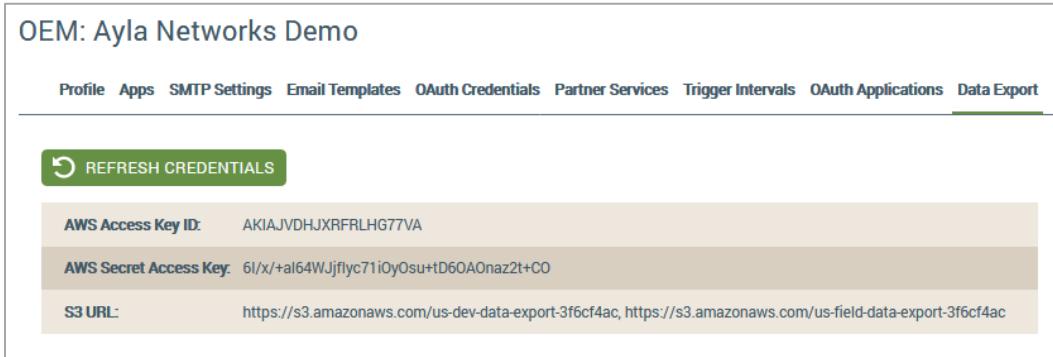
CANCEL UPDATE

2. Make changes, as needed.
3. When done, click **UPDATE**.

3.9 Data Export

The Data Export tab page provides S3 (AWS) credentials.

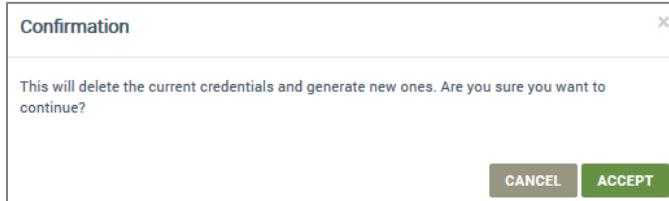
As needed, click **REFRESH CREDENTIALS**. This cancels the current credentials and creates a new set of credentials.



The screenshot shows the 'Data Export' tab selected in the top navigation bar. Below the navigation bar, there is a green button labeled 'REFRESH CREDENTIALS' with a circular arrow icon. To the right of the button, there are three text fields: 'AWS Access Key ID' (AKIAJVVDHJXRFRLG77VA), 'AWS Secret Access Key' (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), and 'S3 URL' (https://s3.amazonaws.com/us-dev-data-export-3f6cf4ac, https://s3.amazonaws.com/us-field-data-export-3f6cf4ac).

3.9.1 Refresh Credentials

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

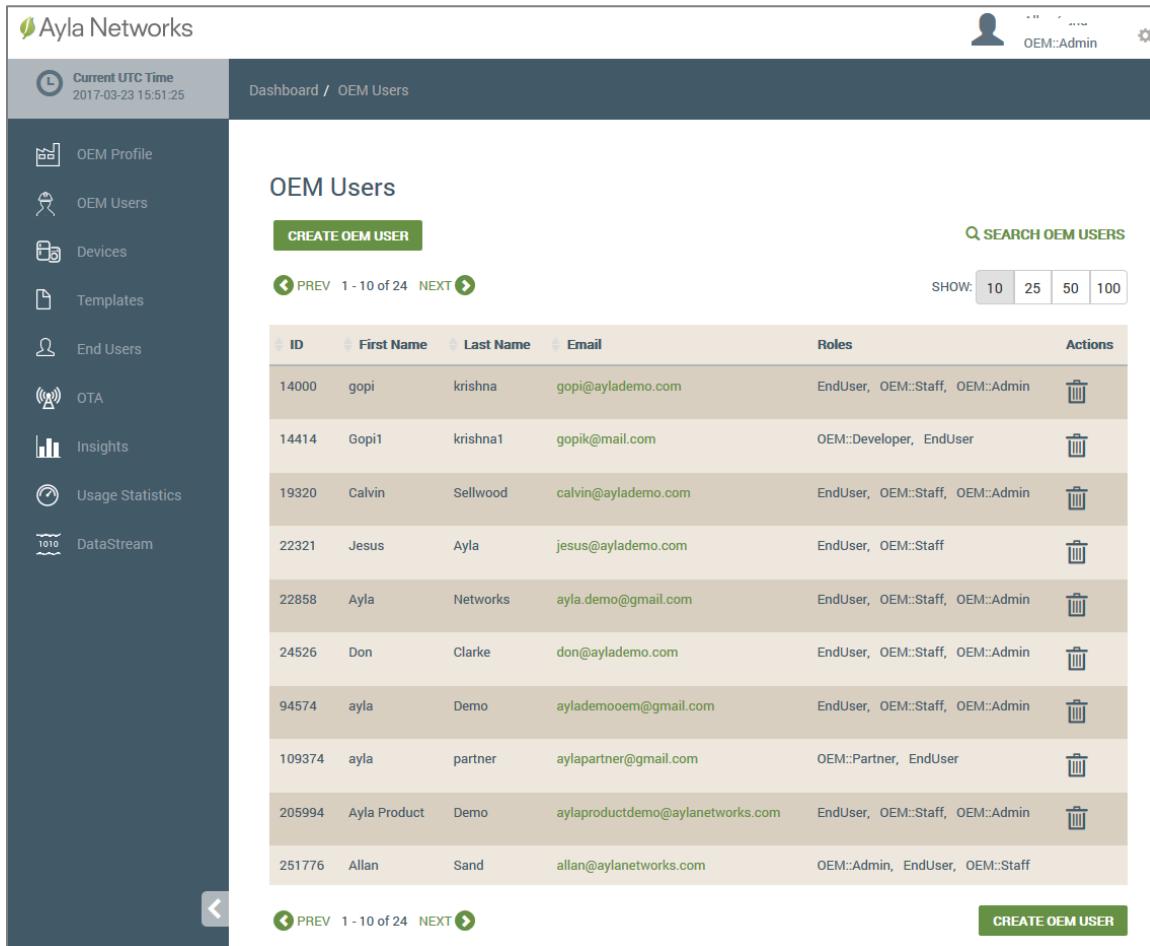


2. Click **ACCEPT**.

4 OEM Users

OEM Users window is a list of all OEM Users and their role(s). For information about roles, see the section on [2.3 Roles in the Ayla OEM Dashboard](#).

Figure 4 - OEM Dashboard, OEM Users page



ID	First Name	Last Name	Email	Roles	Actions
14000	gopi	krishna	gopi@aylademo.com	EndUser, OEM:Staff, OEM:Admin	
14414	Gopi1	krishna1	gopik@mail.com	OEM:Developer, EndUser	
19320	Calvin	Sellwood	calvin@aylademo.com	EndUser, OEM:Staff, OEM:Admin	
22321	Jesus	Ayla	jesus@aylademo.com	EndUser, OEM:Staff	
22858	Ayla	Networks	ayla.demo@gmail.com	EndUser, OEM:Staff, OEM:Admin	
24526	Don	Clarke	don@aylademo.com	EndUser, OEM:Staff, OEM:Admin	
94574	ayla	Demo	aylademooem@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	
251776	Allan	Sand	allan@aylanetworks.com	OEM:Admin, EndUser, OEM:Staff	

Table column description:

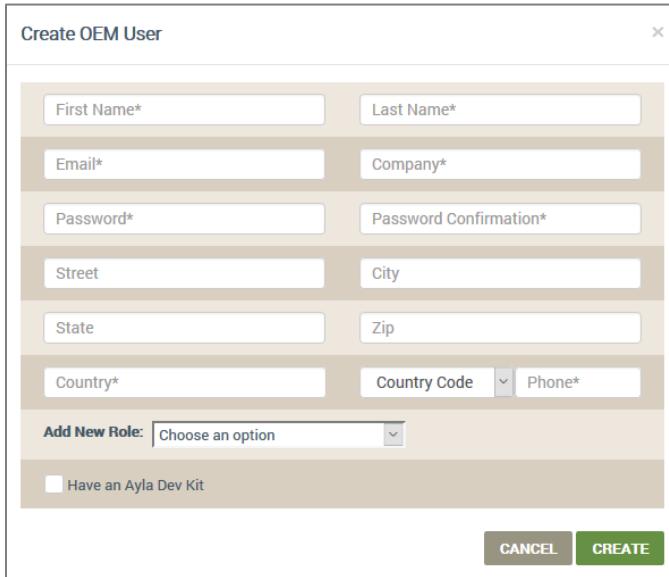
- **ID** (Ayla-assigned ID)
- **First Name / Last Name** (name of the OEM user)
- **Email** (email of the OEM user)
- **Roles** (OEM user assigned roles)
- **Actions** (user action for the OEM user)

4.1 Manage OEM User

4.1.1 Create OEM User

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

1. Click **CREATE OEM USER**. This shows the Create OEM User dialog box.



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

First Name*	Last Name*	
Email*	Company*	
Password*	Password Confirmation*	
Street	City	
State	Zip	
Country*	Country Code	Phone*
Add New Role: Choose an option		
<input type="checkbox"/> Have an Ayla Dev Kit		

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

2. Enter details:

- o **First Name** (first name of user)
- o **Last Name** (last name of user)
- o **Email** (user's email address)
- o **Company** (company name)
- o **Password** (user's initial password and can be changed by the user)
- o **Password Confirmation** (re-enter password)
- o **Street** (street address of user's location)
- o **City** (city of user's location)
- o **State** (state/province of user's location)
- o **Zip** (zip code of user's location)
- o **Country** (country of user's location - enter initial character to narrow selection)
- o **Country Code** drop-down (list of country phone codes)
- o **Phone** (phone contact of user)
- o **Add New Role** drop-down (select):
 - EndUser (manage owned and registered devices)
 - OEM::Admin (manage users, templates, OTAs, and devices)
 - OEM::Developer (access their devices and templates)

- OEM::ModuleOEMManufacturer (black box device manufacturer)
 - OEM::Partner (manage partner devices and access dealer-tagged devices)
 - OEM::SoftwareOEMManufacturer (white box device or gateway manufacturer)
 - OEM::Staff (view users & devices and access templates)
 - **Have an Ayla Dev Kit** checkbox (If user has an Ayla Dev Kit, select checkbox and enter the Kit number)

3. Click **CREATE**.

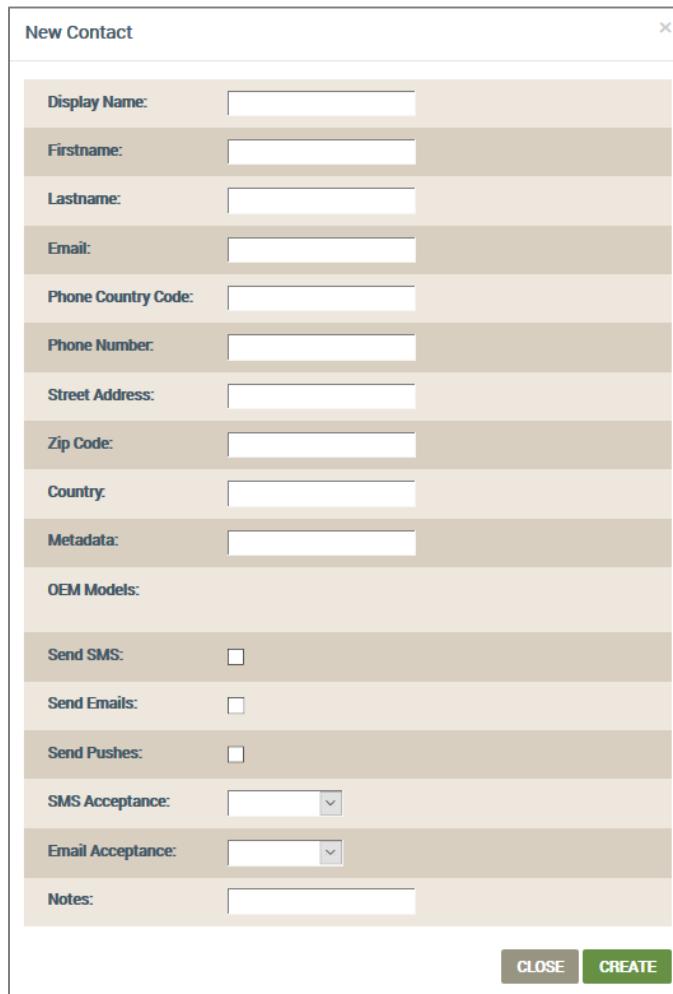
3. Click **CREATE**.

4.1.2 Create OEM User Contact

These are contacts available to the OEM User.

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

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



The image shows a 'New Contact' dialog box with 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:** [Section header]
- Send SMS: [checkbox]
- Send Emails: [checkbox]
- Send Pushes: [checkbox]
- SMS Acceptance: [dropdown menu]
- Email Acceptance: [dropdown menu]
- Notes: [Text input]

At the bottom right 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** (contact's postal zip code)
- **Country** (contact's country)
- **Metadata** (metadata about the contact)
- **OEM Models** (information only, models 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 wanted/unwanted)
 - **Email Acceptance** drop-down
 - Required (contact must take action to accept email notification)
 - Not Required (contact receives all email notification, regardless of wanted/unwanted)
 - **Notes** (any additional information about this contact)
5. Click **CREATE**.

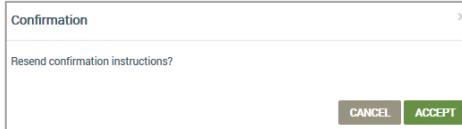
4.1.3 View OEM User Details

1. In the OEM User table listing, click the user to be edited. This shows the user's **Details** tab.

User: Calvin Sellwood

Details		Metadata	Shared By User	Shared With User	Contacts	Devices
First Name:	Calvin					
Last Name:	Sellwood					
Email:	calvin@aylademo.com					
UUID:	dbb5e9a6-828d-11e5-9609-0ee0c870bcce					
Company:	Ayla Demo					
Street:						
City:	sunnyvale					
State:						
Zip:						
Country:	USA					
Confirmed:	<input checked="" type="checkbox"/>					
Confirmation sent at:						
Approved:	<input checked="" type="checkbox"/>					
Country Code:	1					
Phone:	6508671572					
Origin OEM:	Ayla Networks Demo					
Roles:	EndUser, OEM::Staff, OEM::Admin					
Resend confirmation instructions						
		CLOSE	EDIT			

NOTE If needed, click **Resend confirmation instructions**. On the Confirmation dialog, click **ACCEPT**. This resends the confirmation email to the user.



2. Click **Metadata** tab and review content.

User: Calvin Sellwood

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	

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

User: Calvin Sellwood

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

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

User: Calvin Sellwood

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

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
Calvin Sellwood	Calvin	Sellwood	
Sam			

NEW CONTACT

NOTE If needed, click **NEW CONTACT** to add another individual to this table.

6. Click **Devices** tab and review content.

User: Calvin Sellwood

ID	DSN
101122	COFEMKR4103
101123	THRMSTAT25002
5195121	VD3f6cf4ac00000007
5196939	VD3f6cf4ac0000011

4.1.4 Edit OEM User Details

1. In the OEM User table listing, click the user to be edited. This displays the user's **Details** tab.
(See **View OEM User Details**)

2. On the review page, click **EDIT**. This shows the fields that can be edited on the **Details** tab.

User: Calvin Sellwood

Details Metadata Shared By User Shared With User Contacts Devices

First Name *:	Calvin
Last Name *:	Sellwood
Email *:	calvin@aylademo.com
UUID:	dbb5e9a6-828d-11e5-9609-0ee0c870bcec
Company *:	Ayla Demo
Street *:	
City *:	sunnyvale
State:	
Zip:	
Country *:	USA
Confirmed:	<input checked="" type="checkbox"/>
Confirmation sent at:	
Approved:	<input checked="" type="checkbox"/>
Country Code:	United States +1
Phone *:	6508671572
Origin OEM:	Ayla Networks Demo
Roles:	EndUser, OEM:Staff, OEM:Admin
Resend confirmation instructions	
Add New Role:	Choose an option

CANCEL **UPDATE**

3. Make changes as needed.

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

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

5. On the **Metadata** tab, items in the table listing can only be deleted with the **Trash Can**  icon.
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 displays the Edit Contact dialog box. Make changes as needed and click **UPDATE**.

Edit Contact

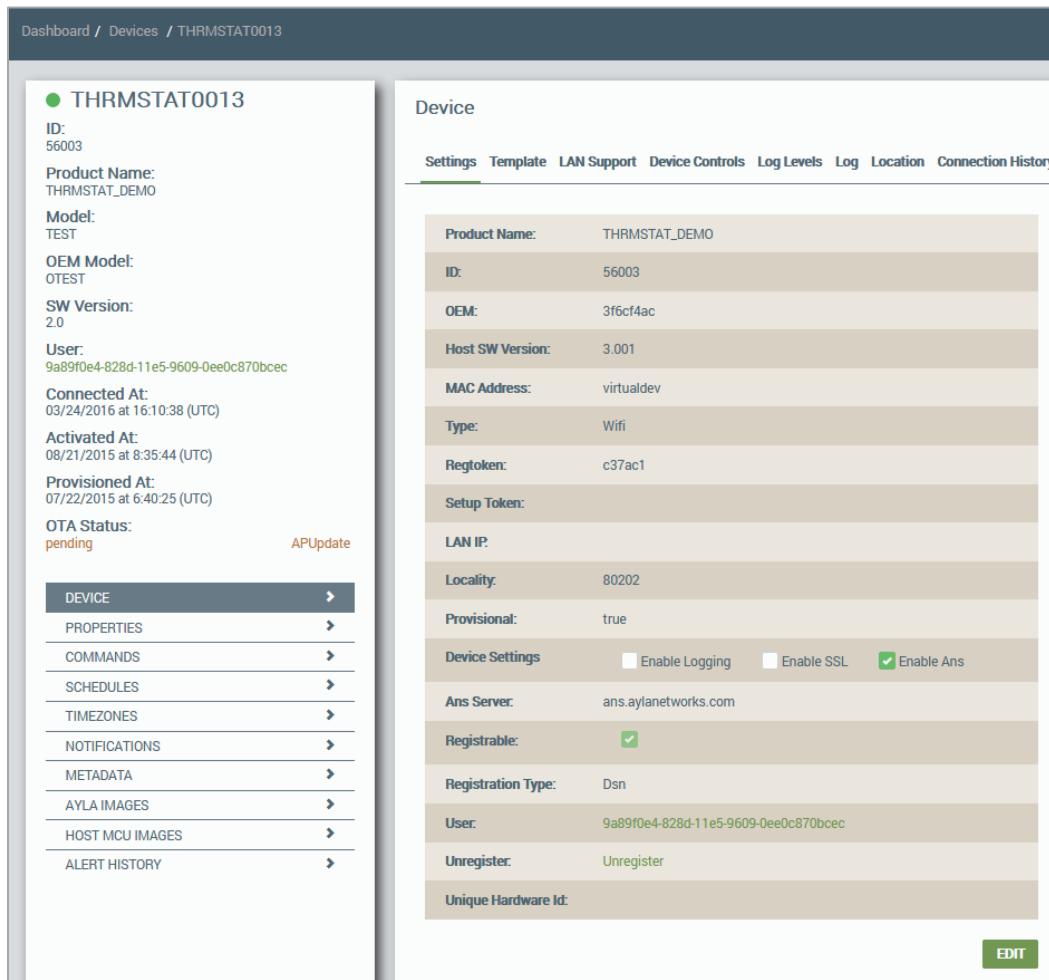
Display Name:	Calvin Sellwood
Firstname:	Calvin
Lastname:	Sellwood
Email:	calvin@aylademo.com
Phone Country Code:	1
Phone Number:	4080000000
Street Address:	
Zip Code:	
Country:	USA
Metadata:	
OEM Models:	
Send SMS:	<input type="checkbox"/>
Send Emails:	<input type="checkbox"/>
Send Pushes:	<input type="checkbox"/>
SMS Acceptance:	<input type="button" value="▼"/>
Email Acceptance:	Not required <input type="button" value="▼"/>
Notes:	
<input type="button" value="CANCEL"/> <input type="button" value="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															
<table border="1"> <thead> <tr> <th>ID</th> <th>DSN</th> </tr> </thead> <tbody> <tr> <td>101122</td> <td>COFEMKR4103</td> </tr> <tr> <td>101123</td> <td>THRMSTAT25002</td> </tr> <tr> <td>5195121</td> <td>VD3f6cf4ac0000007</td> </tr> <tr> <td>5196939</td> <td>VD3f6cf4ac0000011</td> </tr> </tbody> </table>						ID	DSN	101122	COFEMKR4103	101123	THRMSTAT25002	5195121	VD3f6cf4ac0000007	5196939	VD3f6cf4ac0000011
ID	DSN														
101122	COFEMKR4103														
101123	THRMSTAT25002														
5195121	VD3f6cf4ac0000007														
5196939	VD3f6cf4ac0000011														
◀ PREV 1 - 4 of 4 NEXT ▶															

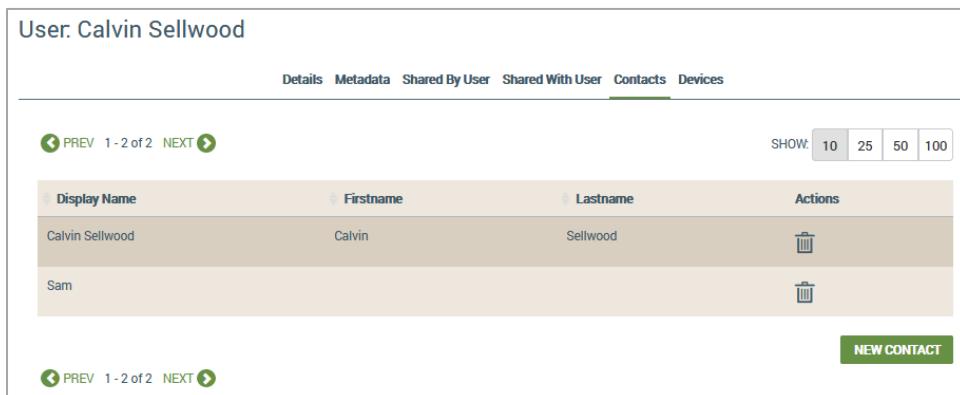
- In the table listing, click on a Device. This displays the Device details.



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

4.1.5 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**.



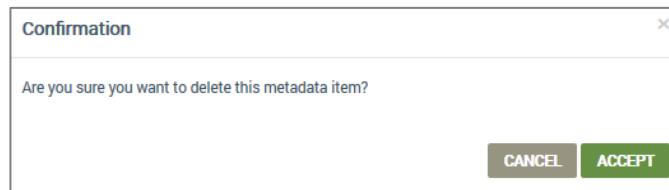
The OEM user is deleted and a delete verification dialog displays.

4.1.6 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.



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



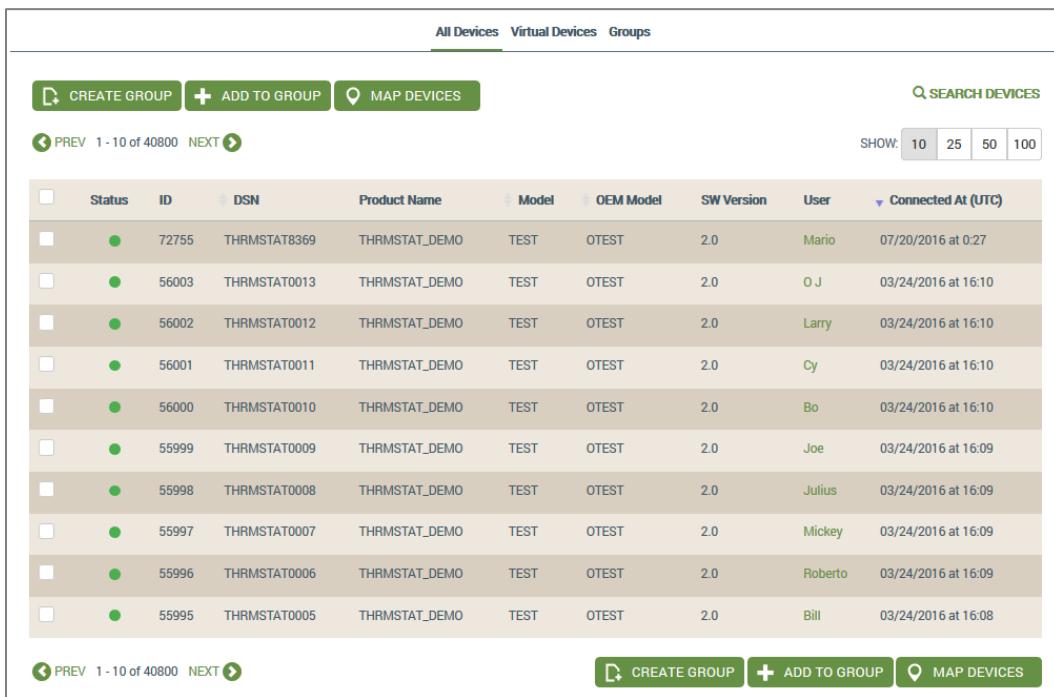
5 Devices

In the navigation bar, click **Devices** to display a list of the registered devices. Default display is 10 items (can be changed with **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
- (Development OEM Dashboard) Create and manage virtual devices

Figure 5 - OEM Dashboard, Devices page



All Devices Virtual Devices Groups								
<input type="checkbox"/>	Status	ID	DSN	Product Name	Model	OEM Model	SW Version	User
<input type="checkbox"/>	●	72755	THRMSTAT8369	THRMSTAT_DEMO	TEST	OTEST	2.0	Mario
<input type="checkbox"/>	●	56003	THRMSTAT0013	THRMSTAT_DEMO	TEST	OTEST	2.0	O J
<input type="checkbox"/>	●	56002	THRMSTAT0012	THRMSTAT_DEMO	TEST	OTEST	2.0	Larry
<input type="checkbox"/>	●	56001	THRMSTAT0011	THRMSTAT_DEMO	TEST	OTEST	2.0	Cy
<input type="checkbox"/>	●	56000	THRMSTAT0010	THRMSTAT_DEMO	TEST	OTEST	2.0	Bo
<input type="checkbox"/>	●	55999	THRMSTAT0009	THRMSTAT_DEMO	TEST	OTEST	2.0	Joe
<input type="checkbox"/>	●	55998	THRMSTAT0008	THRMSTAT_DEMO	TEST	OTEST	2.0	Julius
<input type="checkbox"/>	●	55997	THRMSTAT0007	THRMSTAT_DEMO	TEST	OTEST	2.0	Mickey
<input type="checkbox"/>	●	55996	THRMSTAT0006	THRMSTAT_DEMO	TEST	OTEST	2.0	Roberto
<input type="checkbox"/>	●	55995	THRMSTAT0005	THRMSTAT_DEMO	TEST	OTEST	2.0	Bill

5.1 Table Column Descriptions

5.1.1 All Devices tab

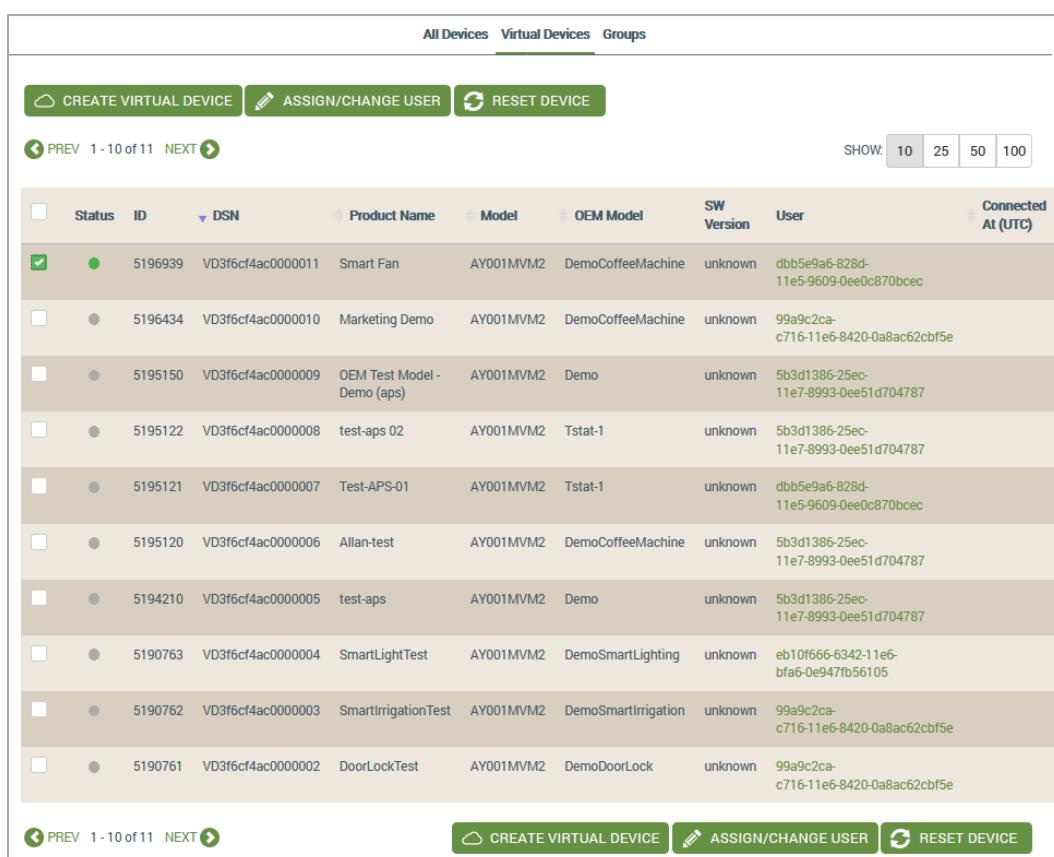
The checkbox allows selected items to be acted on (Create group, Add to group, Map devices).

- **Buttons:**
 - **CREATE GROUP** (create a group of selected devices)
 - **ADD TO GROUP** (add selected devices to a group)
 - **MAP DEVICES** (displays a map that shows where selected devices are geographically located)

- **Status:**
 - Red icon = device is off
 - Green icon = device is on
 - Gray icon = device is in the process of coming up
- **ID** (Ayla-provided ID number when device is registered)
- **DSN** (OEM Device Serial Number)
- **Product Name** (name of the product, as you have named it)
- **Model** (product model of the device)
- **OEM Model** (the OEM model name)
- **SW Version** (software version of the device)
- **User** (user name associated with the device)
- **Connected At (UTC)** (time the device connected)

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 11 NEXT								
	Status	ID	DSN	Product Name	Model	OEM Model	SW Version	User
<input checked="" type="checkbox"/>	●	5196939	VD3f6cf4ac0000011	Smart Fan	AY001MVM2	DemoCoffeeMachine	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec
<input type="checkbox"/>	●	5196434	VD3f6cf4ac0000010	Marketing Demo	AY001MVM2	DemoCoffeeMachine	unknown	99a9c2ca-c716-11e6-8420-0a8ac62cbf5e
<input type="checkbox"/>	●	5195150	VD3f6cf4ac0000009	OEM Test Model - Demo (aps)	AY001MVM2	Demo	unknown	5b3d1386-25ec-11e7-8993-0ee51d704787
<input type="checkbox"/>	●	5195122	VD3f6cf4ac0000008	test-aps 02	AY001MVM2	Tstat-1	unknown	5b3d1386-25ec-11e7-8993-0ee51d704787
<input type="checkbox"/>	●	5195121	VD3f6cf4ac0000007	Test-APS-01	AY001MVM2	Tstat-1	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec
<input type="checkbox"/>	●	5195120	VD3f6cf4ac0000006	Allan-test	AY001MVM2	DemoCoffeeMachine	unknown	5b3d1386-25ec-11e7-8993-0ee51d704787
<input type="checkbox"/>	●	5194210	VD3f6cf4ac0000005	test-aps	AY001MVM2	Demo	unknown	5b3d1386-25ec-11e7-8993-0ee51d704787
<input type="checkbox"/>	●	5190763	VD3f6cf4ac0000004	SmartLightTest	AY001MVM2	DemoSmartLighting	unknown	eb10f666-6342-11e6-bfa6-0e947fb56105
<input type="checkbox"/>	●	5190762	VD3f6cf4ac0000003	SmartIrrigationTest	AY001MVM2	DemoSmartIrrigation	unknown	99a9c2ca-c716-11e6-8420-0a8ac62cbf5e
<input type="checkbox"/>	●	5190761	VD3f6cf4ac0000002	DoorLockTest	AY001MVM2	DemoDoorLock	unknown	99a9c2ca-c716-11e6-8420-0a8ac62cbf5e

- **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)
- **Status:**
 - Red icon = device is off
 - Green icon = device is on
 - Gray icon = device is in the process of coming up
- **ID** (Ayla-provided ID number when device is registered)
- **DSN** (OEM Device Serial Number)
- **Product Name** (name of the product)
- **Model** (product model of the device)
- **SW Version** (software version of the device)
- **User** (user name associated with the device)
- **Connected At** (time the device connected)

5.1.3 Groups tab

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

All Devices Virtual Devices Groups							
<input style="background-color: #e69138; color: white; padding: 5px; border: none;" type="button" value="DELETE SELECTED"/>		<input style="background-color: #e6eaf2; border: none;" type="button" value="SEARCH GROUPS"/>					
<input style="border: none;" type="button" value="PREV"/> 1 - 10 of 19 <input style="border: none;" type="button" value="NEXT"/>		SHOW: 10 25 50 100					
<input type="checkbox"/> <input style="border: none;" type="button" value="ID"/> <input style="border: none;" type="button" value="Name"/> <input style="border: none;" type="button" value="Devices"/> <input style="border: none;" type="button" value="Created At (UTC)"/> <input style="border: none;" type="button" value="SW versions"/> <input style="border: none;" type="button" value="Last OTA job (UTC)"/> <input style="border: none;" type="button" value="Actions"/>							
<input type="checkbox"/>	4651	T Mobile Test	10 devices in this group.	06/07/2017 at 17:44:32	2.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	4556	CSTest_May18	40806 devices in this group.	05/18/2017 at 18:14:43	2.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	4555	shubha_group_test	2 devices in this group.	05/18/2017 at 16:21:55	2.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	4339	Calvin Test	2 devices in this group.	05/17/2017 at 20:03:52	2.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	4311	APUpdate	3 devices in this group.	05/17/2017 at 16:16:01	2.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	4273	otajob	3 devices in this group.	05/05/2017 at 19:48:04	2.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	4261	NewOTA1	100 devices in this group.	04/27/2017 at 16:08:26	1.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	4247	Test Group IDC	10 devices in this group.	04/19/2017 at 23:27:11	1.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	4201	today	5 devices in this group.	04/05/2017 at 18:32:30	2.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	
<input type="checkbox"/>	3957	Ayla Demo	10 devices in this group.	03/27/2017 at 7:18:35	2.0	<input style="background-color: #e69138; color: white; border: none;" type="button" value="Delete"/>	

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

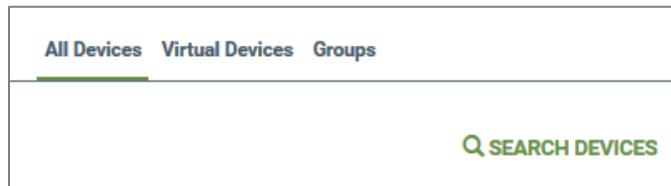
- **ID** (ID number assigned to the group)
- **Name** (group name assigned when created)
- **Devices** (name of the devices assigned to this group)
- **Create At (UTC)** (time/date group was created)
- **SW versions** (software version of devices in group)
- **Last OTA job (UTC)** (time/date last OTA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

5.2 Search

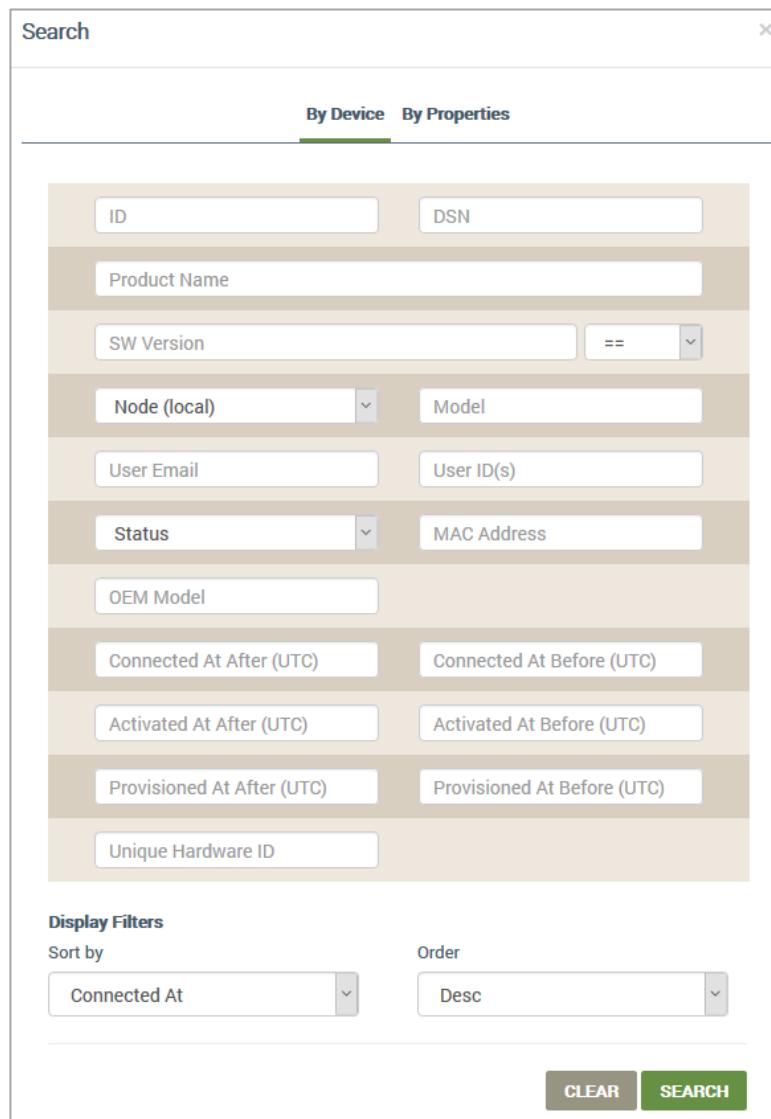
5.2.1 All Devices Search Function (By Device)

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)



2. On the Search dialog box, **By Device** tab, enter device details for the search.



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

- Search Bar:** A top bar with a search input field and a close button (X).
- Filter Tabs:** 'By Device' (selected) and 'By Properties'.
- Search Fields:**
 - Two input fields: 'ID' and 'DSN'.
 - 'Product Name' input field.
 - 'SW Version' input field with a dropdown menu and an operator dropdown ('==').
 - 'Node (local)' dropdown and 'Model' input field.
 - 'User Email' and 'User ID(s)' input fields.
 - 'Status' dropdown and 'MAC Address' input field.
 - 'OEM Model' input field.
 - Two date/time input fields: 'Connected At After (UTC)' and 'Connected At Before (UTC)'.
 - Two date/time input fields: 'Activated At After (UTC)' and 'Activated At Before (UTC)'.
 - Two date/time input fields: 'Provisioned At After (UTC)' and 'Provisioned At Before (UTC)'.
 - 'Unique Hardware ID' input field.
- Display Filters:**
 - 'Sort by' dropdown set to 'Connected At'.
 - 'Order' dropdown set to 'Desc'.
- Buttons:** 'CLEAR' and 'SEARCH' buttons at the bottom right.

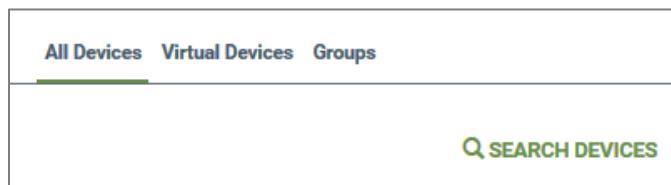
3. Search parameters are:

- o **ID** (Ayla-provided ID number)
- o **DSN** (OEM Device Serial Number)
- o **Product Name** (user-friendly device name)
- o **SW Version** (with drop-down options) – software version number, with options for Boolean expressions (==, !=, like, not like, in)
- o **Type** drop-down:
 - Wifi (wifi devices only)
 - Gateway (gateway devices only)
 - Node (devices only)
 - Node (local) – (these are local devices, i.e., PaaS)

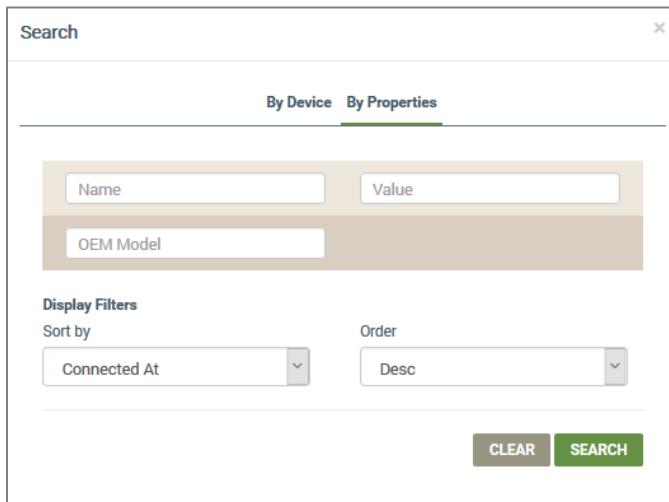
- **Model** (model number)
 - **User Email** (email to use in search)
 - **User ID(s)** (user IDs to use in search, comma-separated)
 - **Status** drop-down
 - Offline (offline devices only)
 - Initializing (initializing devices only)
 - Online (online devices only)
 - **MAC Address** (IP Mac address)
 - **OEM Model** (OEM Model name)
 - **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 PaaG device)
 - **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.

5.2.2 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:

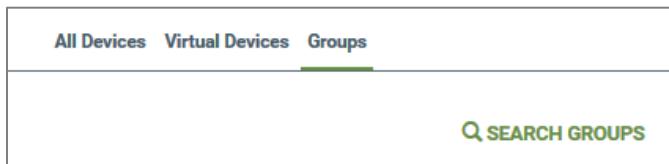
- o **Property Name** (must match property name of host application on device)
- o **Value** (value of property)
- o **OEM Model** (model number of OEM's host application board)
- o In **Display Filters**, Sort by:
 - ID
 - OEM
 - OEM model
 - DSN
 - Connected At
- o In **Display Filters**, Order:
 - Asc (ascending)
 - Desc (descending)

4. Click **SEARCH**.

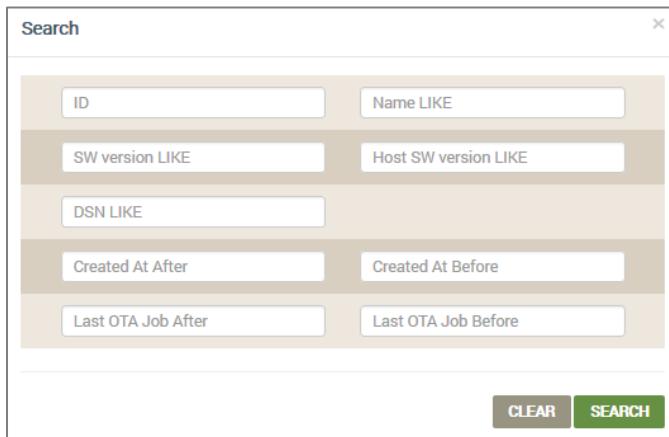
5. Review the search results.

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:



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

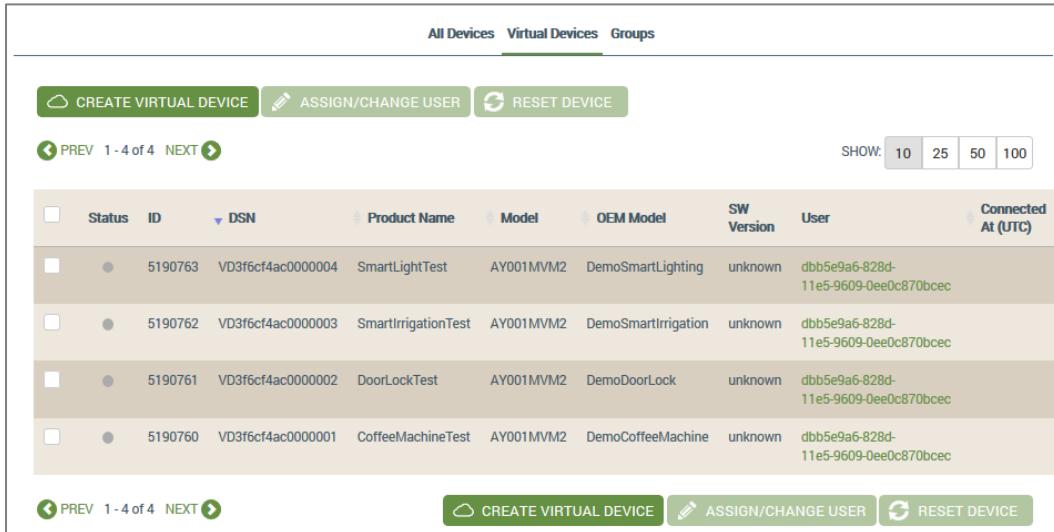
ID	Name LIKE
SW version LIKE	Host SW version LIKE
DSN LIKE	
Created At After	Created At Before
Last OTA Job After	Last OTA Job Before

At the bottom right are two buttons: 'CLEAR' (gray) and 'SEARCH' (green).

- o **ID** (Group ID number)
 - o **Name LIKE** (group name)
 - o **SW version LIKE** (Ayla software version)
 - o **Host SW version LIKE** (module software version)
 - o **DSN LIKE** (Device Serial Number)
 - o **Created At After** (created at after time/date)
 - o **Created At Before** created at before(time/date)
 - o **Last OTA Job After** (last OTA job after time/date)
 - o **Last OTA Job Before** (last OTA job before time/date)
3. Click **SEARCH**.
4. Review search results.

5.3 Virtual Devices (Developer Dashboard only)

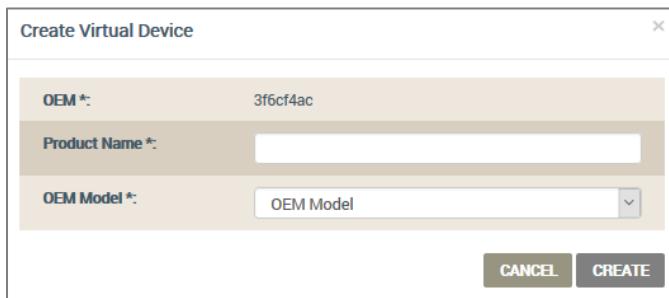
This is ONLY available on the OEM Dashboard for Developers. It is not available on the OEM Dashboard for Device Management. This is used to create and test devices before updates are pushed to installed devices. When a virtual device is created, it also appears in the **All Devices** tab.



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	2017-09-26T14:45:23Z
<input type="checkbox"/>	5190762	VD3f6cf4ac0000003	SmartIrrigationTest	AY001MVM2	DemoSmartIrrigation	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec	2017-09-26T14:45:23Z
<input type="checkbox"/>	5190761	VD3f6cf4ac0000002	DoorLockTest	AY001MVM2	DemoDoorLock	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec	2017-09-26T14:45:23Z
<input type="checkbox"/>	5190760	VD3f6cf4ac0000001	CoffeeMachineTest	AY001MVM2	DemoCoffeeMachine	unknown	dbb5e9a6-828d-11e5-9609-0ee0c870bcec	2017-09-26T14:45:23Z

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.



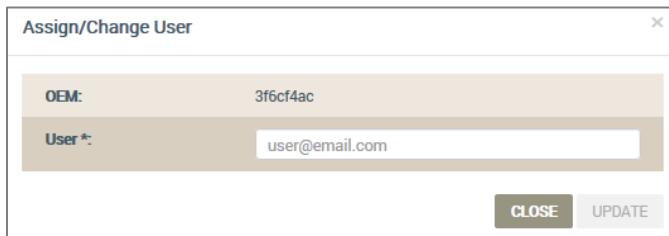
2. Enter the **Product Name**.
3. Select on the **OEM Model** drop-down.
4. Click **CREATE**.

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

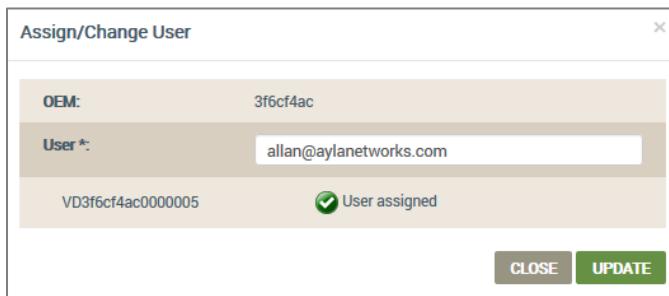
5.3.2 Assign/Change Device User

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.



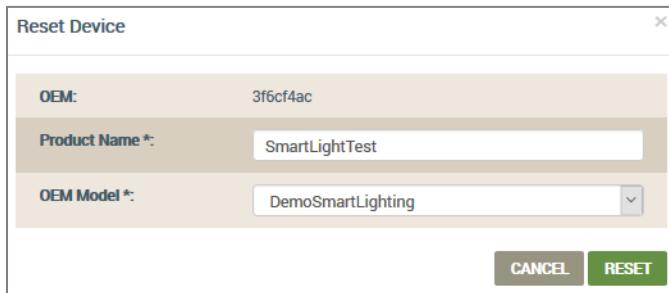
3. Enter the user email.
4. Click **UPDATE**. Confirmation is shown in the dialog box.



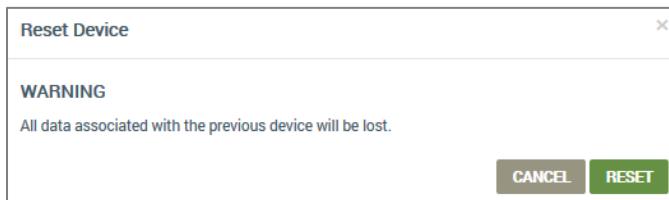
5. Close the dialog box.

5.3.3 Reset Device

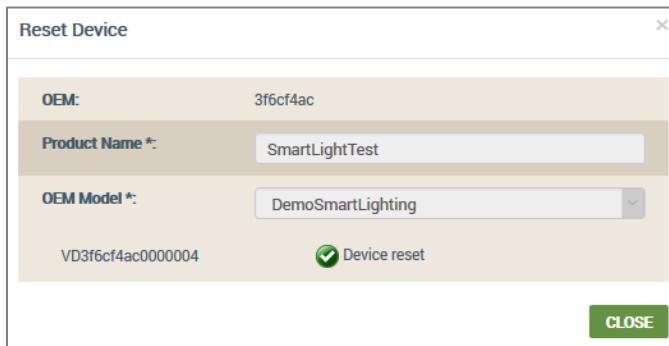
1. On the Virtual Devices tab table listing, locate and select the device checkbox.
2. Click **RESET DEVICE**. This shows the Reset Device dialog box.



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



4. On the new dialog box, click **RESET**. This displays the final confirmation on the dialog box.



5. Close the dialog box.

5.3.4 View/edit Virtual Device - settings and functions

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

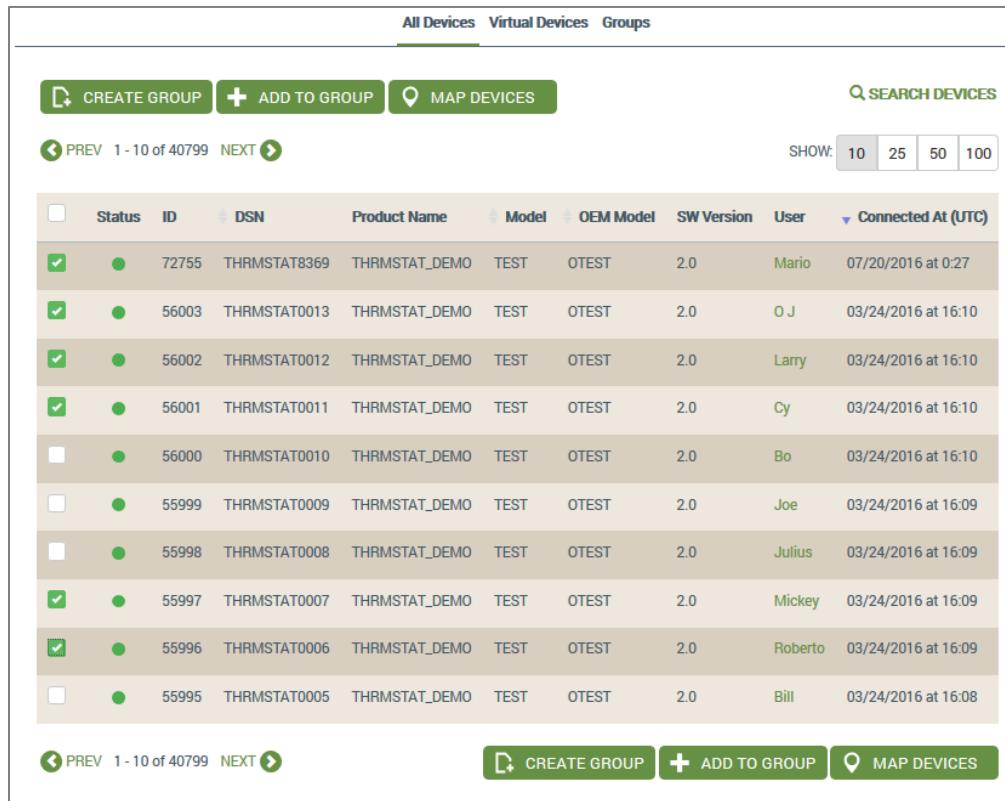
5.4 Groups

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

<th data-cs="8" data-kind="parent"> All Devices Virtual Devices Groups </th> <th data-kind="ghost"></th>	All Devices Virtual Devices Groups							
DELETE SELECTED SEARCH GROUPS								
PREV 1 - 10 of 10 NEXT								
	ID	Name	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			

5.4.1 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.

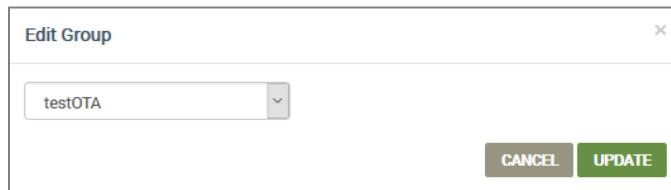


3. Enter a **Group name**.
4. Click **CREATE**.
5. To see the new Group, click the **Groups** tab.

5.4.2 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.

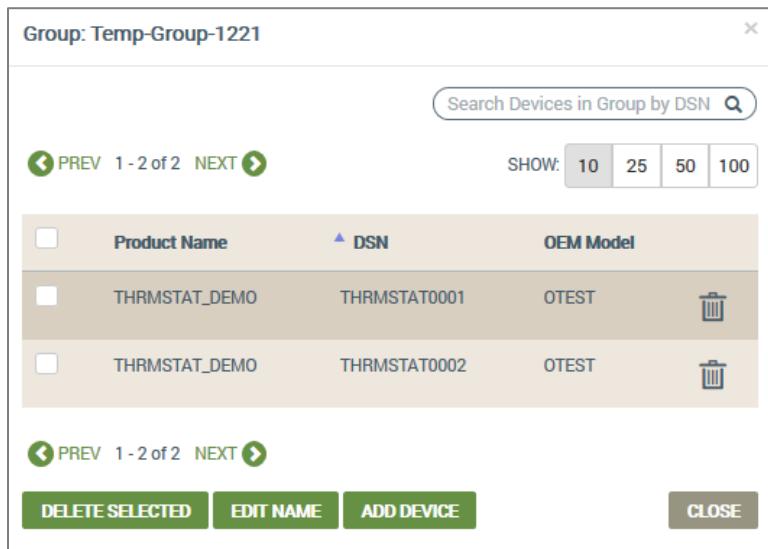


4. Click **UPDATE**.

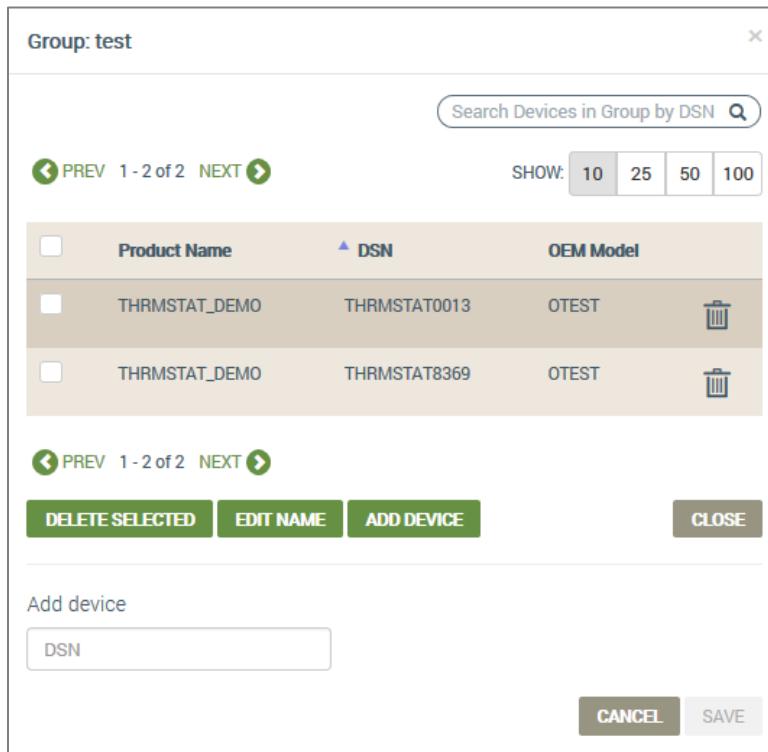
5.4.3 Add Device to a Group (from Groups tab)

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. This shows the Group dialog box.



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



Group: test

Search Devices in Group by DSN

PREV 1 - 2 of 2 NEXT

SHOW: 10 25 50 100

<input type="checkbox"/>	Product Name	DSN	OEM Model	
<input type="checkbox"/>	THRMSSTAT_DEMO	THRMSSTAT0013	OTEST	
<input type="checkbox"/>	THRMSSTAT_DEMO	THRMSSTAT8369	OTEST	

PREV 1 - 2 of 2 NEXT

ADD DEVICE

Add device

DSN

SAVE

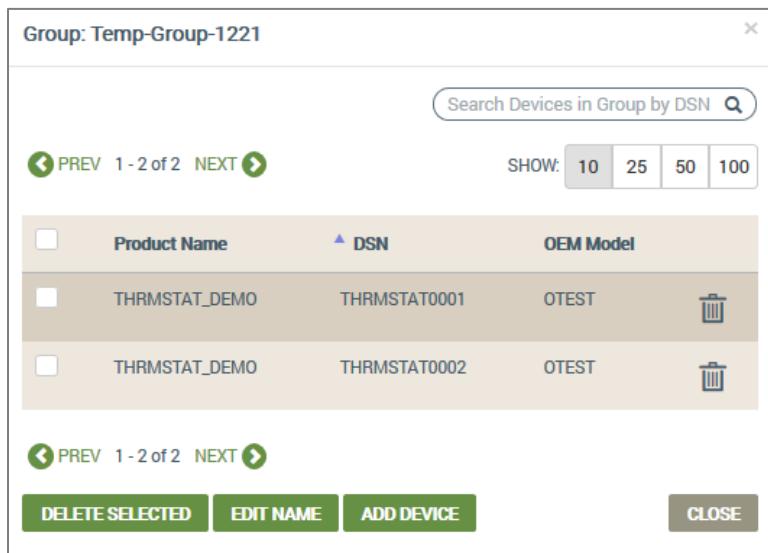
3. In the Add device section, enter the DSN.

4. Click **SAVE**.

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

5.4.4 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.



Group: Temp-Group-1221

Search Devices in Group by DSN

PREV 1 - 2 of 2 NEXT

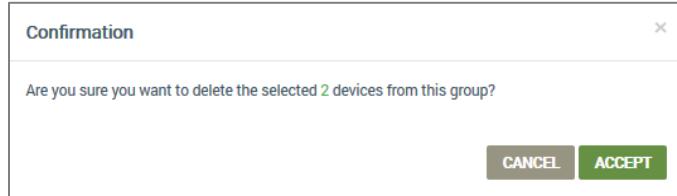
SHOW: 10 25 50 100

<input type="checkbox"/>	Product Name	DSN	OEM Model	
<input type="checkbox"/>	THRMSSTAT_DEMO	THRMSSTAT0001	OTEST	
<input type="checkbox"/>	THRMSSTAT_DEMO	THRMSSTAT0002	OTEST	

PREV 1 - 2 of 2 NEXT

ADD DEVICE

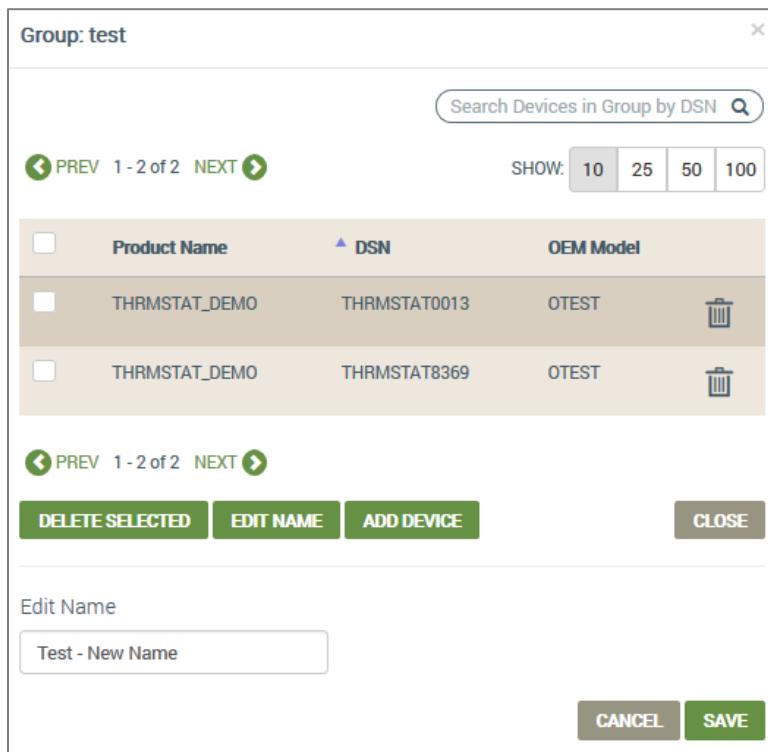
3. To delete selected devices from the group, select checkbox next to the devices to be changed.
4. Click **DELETE SELECTED**. Alternately, to delete devices one-by-one, click the **Trash Can**  icon.
5. On the Confirmation dialog box, click **ACCEPT**.



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

5.4.5 Edit Group – Edit Name

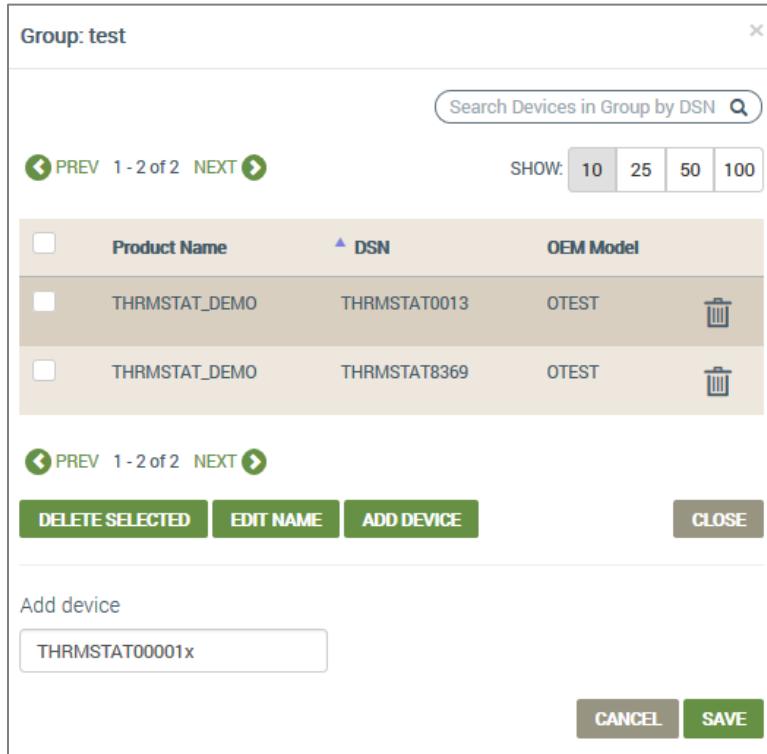
1. On the **Groups** tab, locate and click on the Group.
2. On the Group dialog box, click **EDIT NAME**.



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

5.4.6 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**.



The screenshot shows the 'Group: test' dialog box. At the top, there is a search bar labeled 'Search Devices in Group by DSN' with a magnifying glass icon. Below the search bar are navigation buttons ('PREV', 'NEXT', page number '1 - 2 of 2') and a 'SHOW' dropdown with options 10, 25, 50, 100. The main list area contains two entries:

<input type="checkbox"/>	Product Name	DSN	OEM Model
<input type="checkbox"/>	THRMSTAT_DEMO	THRMSTAT0013	OTEST
<input type="checkbox"/>	THRMSTAT_DEMO	THRMSTAT8369	OTEST

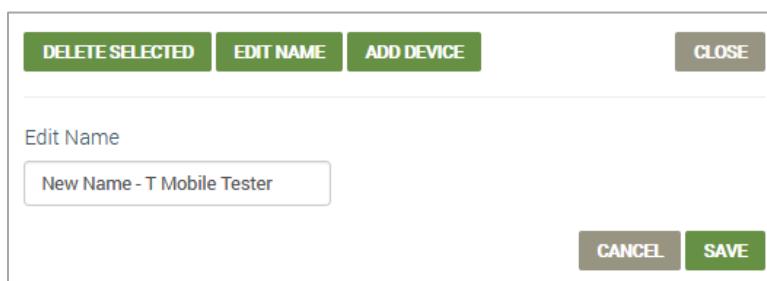
Below the list are more navigation buttons ('PREV', 'NEXT', page number '1 - 2 of 2') and three buttons: 'DELETE SELECTED', 'EDIT NAME', and 'ADD DEVICE'. To the right of these buttons is a 'CLOSE' button. At the bottom, there is an 'Add device' section with a text input field containing 'THRMSTAT00001x' and two buttons: 'CANCEL' and 'SAVE'.

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.



The screenshot shows a confirmation dialog box. It contains the text 'Add device' and a text input field with the value 'THRMSTAT00001x'. To the right of the input field is a red error message: 'Device not found'. At the bottom are 'CANCEL' and 'SAVE' buttons.

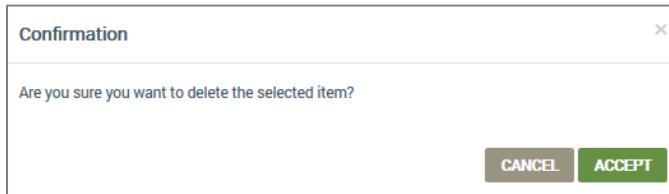
5. To remove a device from the group, select the device and click **DELETE SELECTED**.
6. To change the group name, click **EDIT NAME**. Enter new name and click **SAVE**.



The screenshot shows the 'Edit Name' dialog box. It contains a text input field with the value 'New Name - T Mobile Tester' and two buttons at the bottom: 'CANCEL' and 'SAVE'.

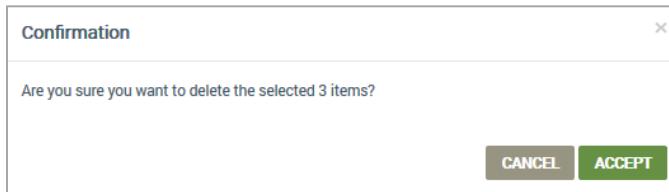
5.4.7 Delete one Group

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



5.4.8 Delete multiple Groups

1. On the OEM Dashboard > 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**.

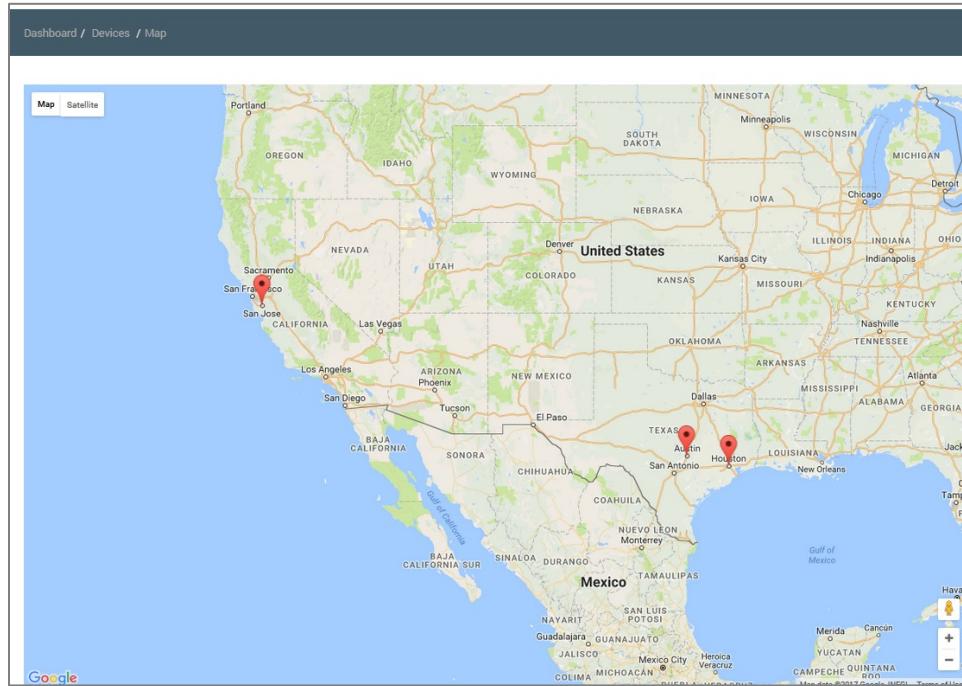


5.5 Map Devices

You can view the geographic locations of selected devices. When a pin on the map is clicked, device details are shown.

1. On OEM Dashboard > Devices page, select checkboxes for one or more devices.

2. Click **MAP DEVICES**. A map of your device location displays. The map can be zoomed in or out.



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

● THRMSTAT0009

ID: 55999

Product Name: THRMSTAT_DEMO

Model: TEST

OEM Model: OTEST

SW Version: 2.0

User: 9a7c05d0-828d-11e5-9609-0ee0c870bcec

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

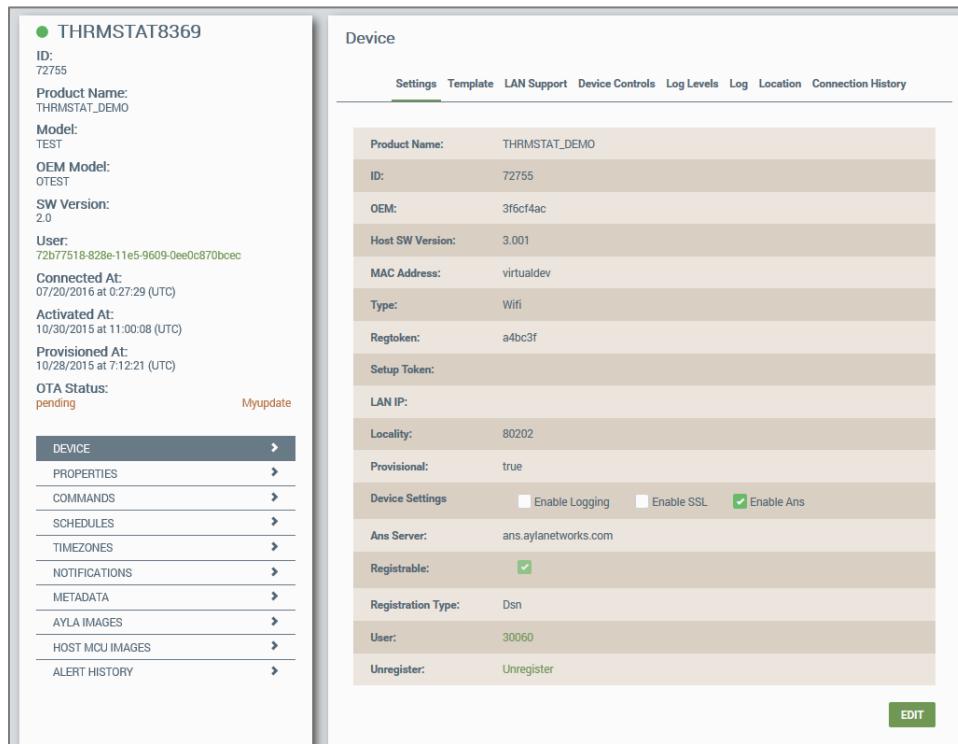
- [Settings](#)
- [Template](#)
- [LAN Support](#)
- [Device Controls](#)
- [Log Levels](#)
- [Log](#)
- [Location](#)
- [Connection History](#)

Product Name:	THRMSTAT_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.



● THRMSSTAT8369

ID:

72755

Product Name:
THRMSSTAT_DEMO

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

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:

72755

OEM:

3f6cf4ac

Host SW Version:

3.001

MAC Address:

virtualdev

Type:

Wifi

Regtoken:

a4bc3f

Setup Token:

LAN IP:

80202

Locality:

80202

Provisional:

true

Device Settings

Enable Logging

Enable SSL

Enable Ans

Ans Server:

ans.aylanetworks.com

Registrable:

Registration Type:

Dsn

User:

30060

Unregister:

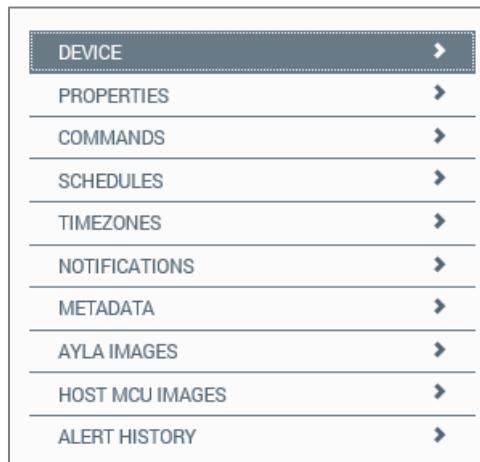
Unregister

EDIT

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

- **Name & status of the device** (name of the selected device with a status indicator - green, red, grey)
- **ID** (device ID)
- **Product Name** (Ayla product name)
- **Model** (device model)
- **SW Version** (version of the software)
- **User** (assigned device user)
- **Connected At** (when device was connected)
- **Activated At** (when the device was activated)
- **Provisioned At** (when the device was provisioned)
- **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-11e5-9609-0ee0c870b0ec

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:	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 checked="" 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:	72b77518-828e-11e5-9609-0ee0c870bcec
Unregister:	Unregister
Unique Hardware Id:	

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**.
2. Editable fields are:
 - o **Product Name** (name of the product)
 - o **Device Settings** checkboxes:
 - **Enable Logging**
Select (logging is active)

- Unselect (no logging)
 - **Enable SSL**
 - Select (require SSL)
 - Unselect (do not require SSL)
 - **Enable ANS**
 - Select (enable ANS)
 - Unselect (disable ANS)
 - **Ans Server**
 - Select (use ANS server)
 - Unselect (do not use ANS server)
 - **Registrable** checkbox
 - Select (device can be registered)
 - Unselect (device can not be registered)
 - **Registration Type** drop-down:
 - Same-LAN
 - Button-Push
 - AP-Mode
 - Display
 - Dsn
 - None
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:
 - o **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-paring keys are valid. When the pairing expires, the device and the mobile app need to reconnect to the cloud before they are given a new set of LAN keys.

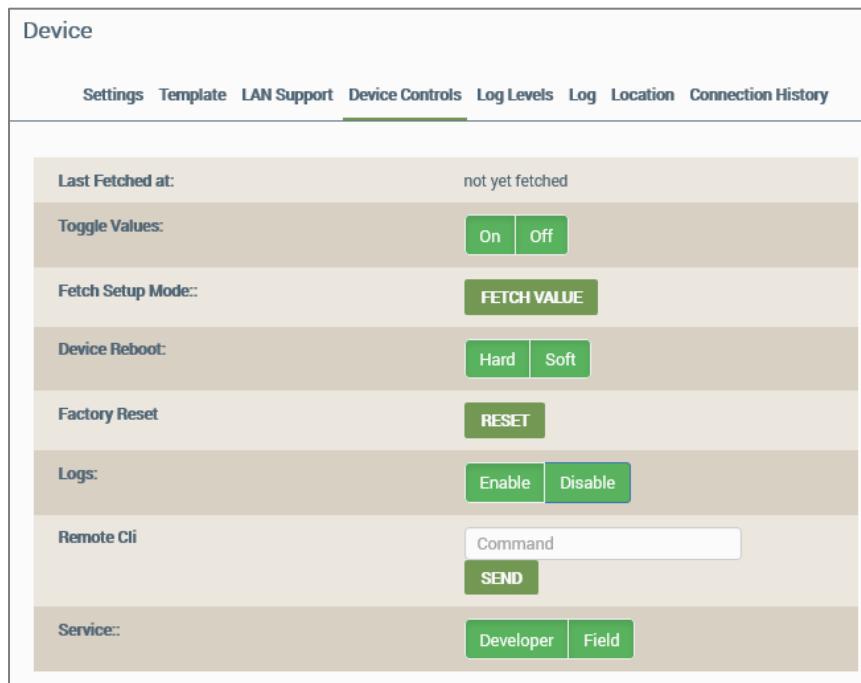
4. **Auto-sync** checkbox:

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

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

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 are several control buttons and dropdowns:

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

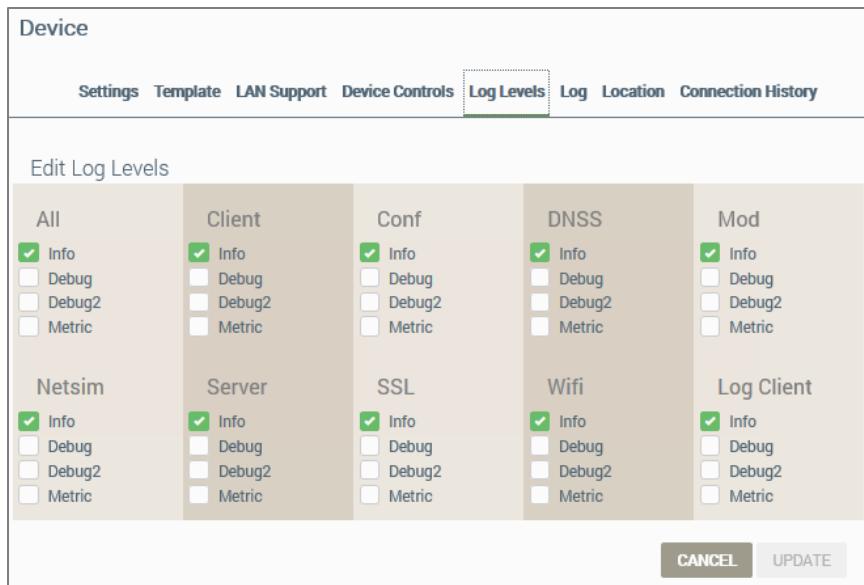
To update details:

1. For **Toggle Values** 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** (capture debugging details defined in Log Levels – 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: (OEM Dashboard Developer environment only)
 - 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.



Edit Log Levels				
All	Client	Conf	DNS	Mod
<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric	<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric	<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric	<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric	<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric
Netsim	Server	SSL	Wifi	Log Client
<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric	<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric	<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric	<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric	<input checked="" type="checkbox"/> Info <input type="checkbox"/> Debug <input type="checkbox"/> Debug2 <input type="checkbox"/> Metric

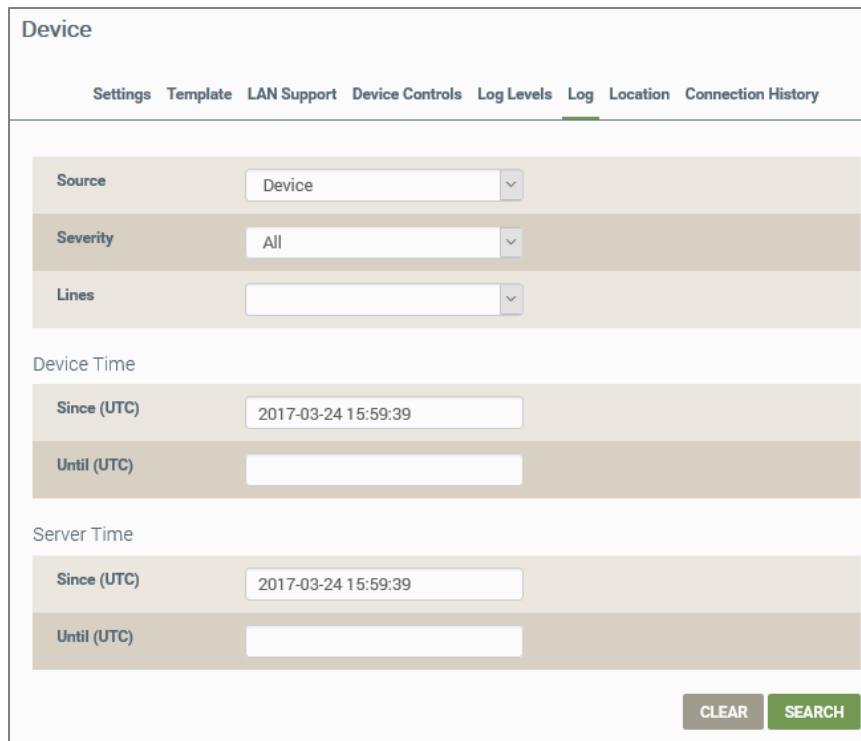
CANCEL **UPDATE**

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 **DNS** (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 under from the Log tab to their local destination.

To search the logs:



Device

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

Source: Device

Severity: All

Lines: 100, 500, 1000, 5000

Device Time

Since (UTC): 2017-03-24 15:59:39

Until (UTC):

Server Time

Since (UTC): 2017-03-24 15:59:39

Until (UTC):

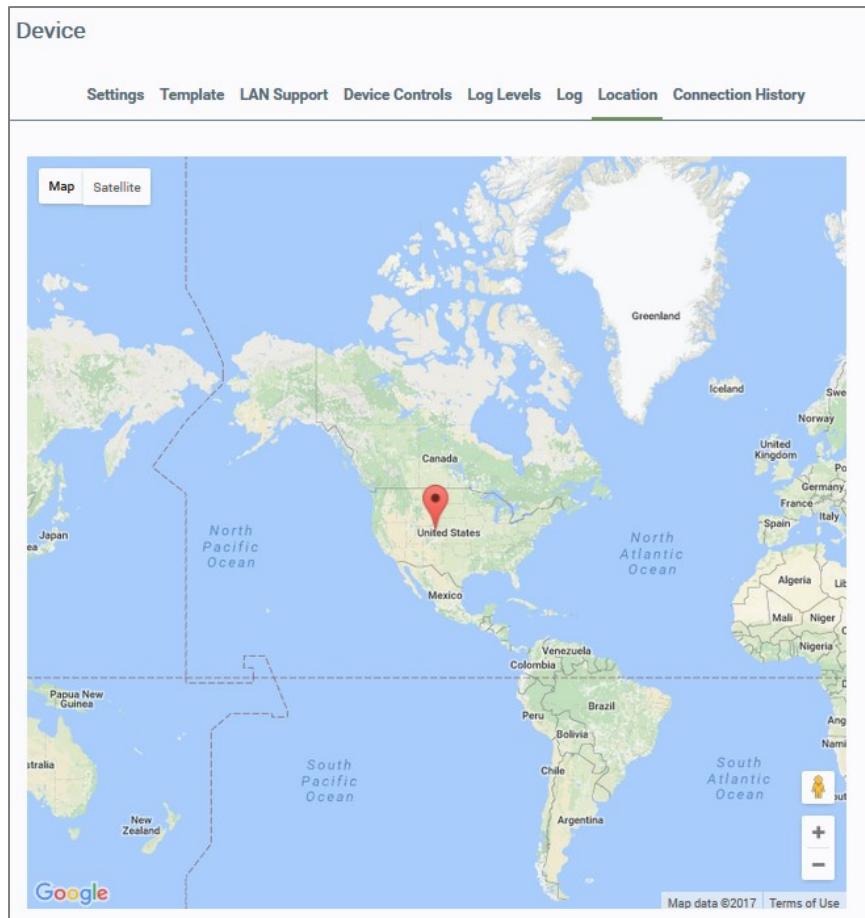
CLEAR SEARCH

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 (100, 500, 1000, 5000)
4. On the Device Time section:
 - o Select on the **Since (UTC)** calendar.
 - o Select on the **Until (UTC)** calendar.
5. On the Server Time section:
 - o Select on the **Since (UTC)** calendar.
 - o 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.

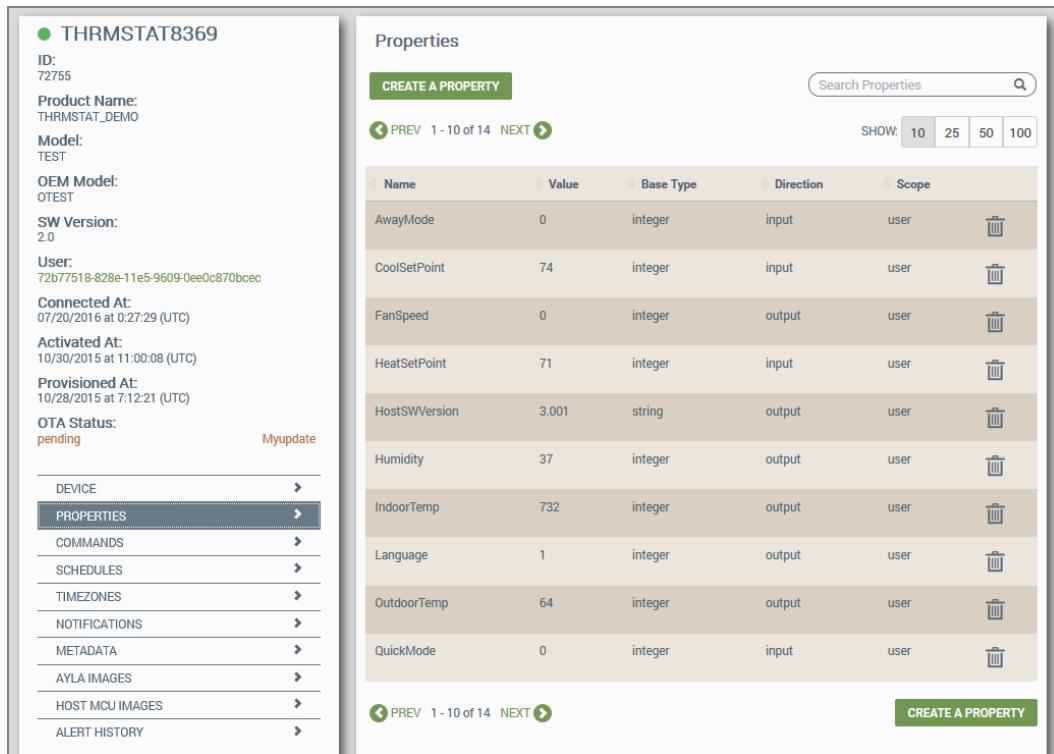
Device	
Settings Template LAN Support Device Controls Log Levels Log Location Connection History	
PREV	1 - 10 of 416 NEXT
SHOW:	10 25 50 100
Event Time (UTC)	Status
10/02/2016 at 2:56:49	Initializing
10/01/2016 at 3:08:36	Initializing
09/30/2016 at 3:03:08	Initializing
09/29/2016 at 3:10:27	Initializing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



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	

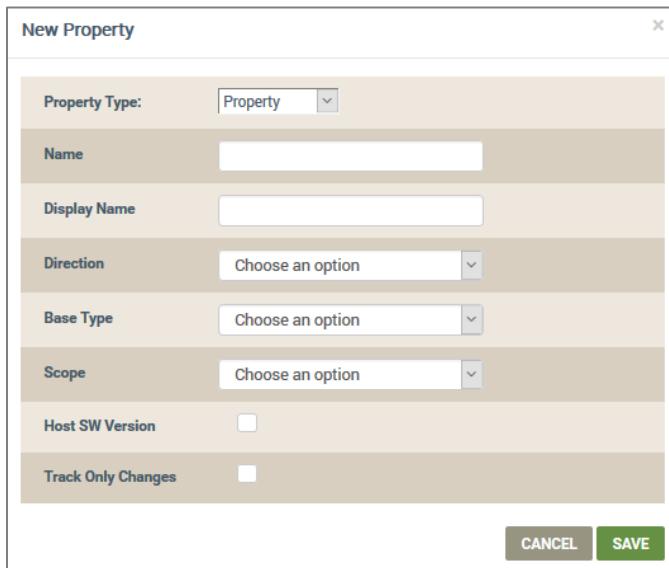
Table columns are:

- **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** (how is the property used - user, oem)
- **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.

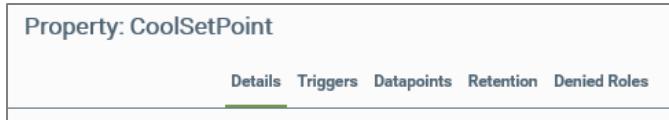


2. Select on **Property Type** drop-down:
 - **Property** (property uses a data type – string, integer, boolean, etc.)
 - **FeedProperty** (information is from an external source, i.e., weather feed)
3. Enter **Name** (name of property)
4. Enter **Display Name** (user-friendly name)
5. Select on **Direction** 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 & OEM sees property)
 - **oem** (only OEM sees property)
8. Select/unselect **Host SW Version** checkbox.
 Select (if ADS considers this property 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**.

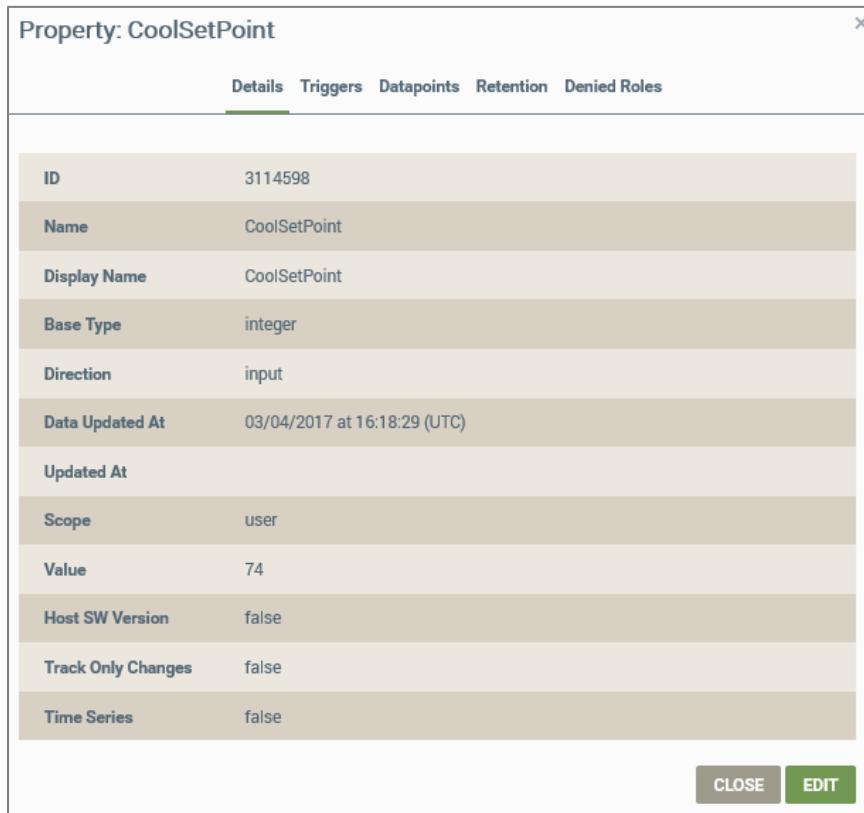
About Property Details – Available Tabs

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



View/edit Property Details – Details tab

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



2. To change values, click **EDIT**.
3. Edit these fields:
- o **Name** (property name)
 - o **Display Name** (user-friendly property name)
 - o **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 & OEM sees property)
 - **oem** (only OEM 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	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash
THRMSTAT_DEMO	CoolSetPoint	compare_absolute	>=	78	always	30060	true	trash

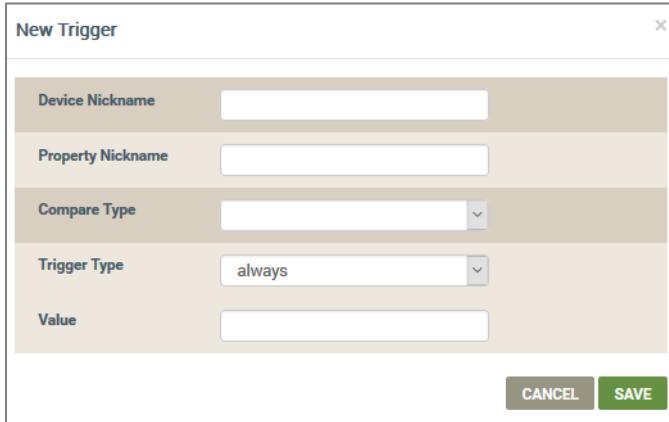
PREV
1 - 10 of 20
NEXT

CREATE A TRIGGER

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 frame for the trigger)
- **User Id** (user identification)
- **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 contains five input fields: "Device Nickname", "Property Nickname", "Compare Type", "Trigger Type", and "Value". Below the fields are two buttons: "CANCEL" and "SAVE".

Field	Description
Device Nickname	User-friendly device name
Property Nickname	User-friendly property name
Compare Type	Drop-down menu for comparison operators (==, >, <, >=, <=)
Trigger Type	Drop-down menu for trigger activation (always, compare_absolute, compare_service, on_change)
Value	Value used to activate the trigger

Enter details:

- a. **Device Nickname** (user-friendly device name)
- b. **Property Nickname** (user-friendly property name)
- c. **Compare Type** drop-down (==, >, <, >=, <=)
- d. **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)
- e. **Value** (value used to activate the trigger)
- f. Click **SAVE**.

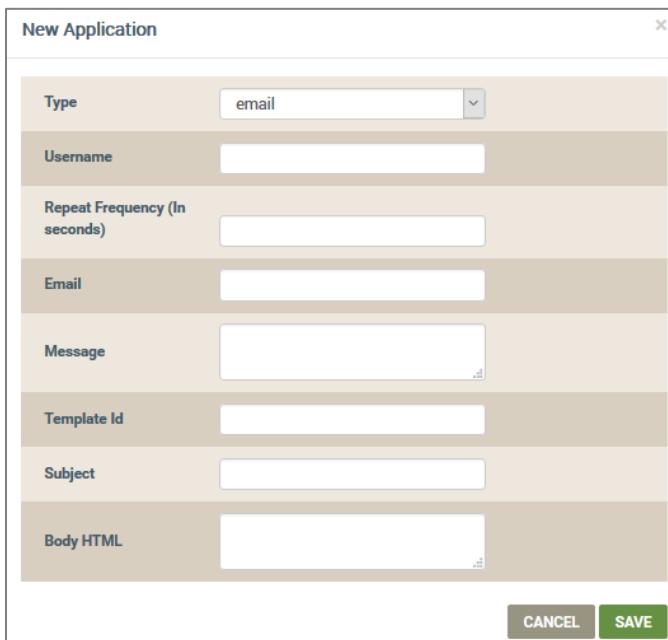
3. To edit property settings, on the Triggers table listing, click a property. This shows another panel about the property, with tabs for **Details** and **Trigger Apps**.
 - a. On the **Details** tab, review details.

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		
<input type="button" value="CLOSE"/> <input type="button" value="EDIT"/>			

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

4. On **Trigger Apps** tab, review information.
 - a. To add another application, click **CREATE AN APPLICATION**. This shows the New Application dialog box.

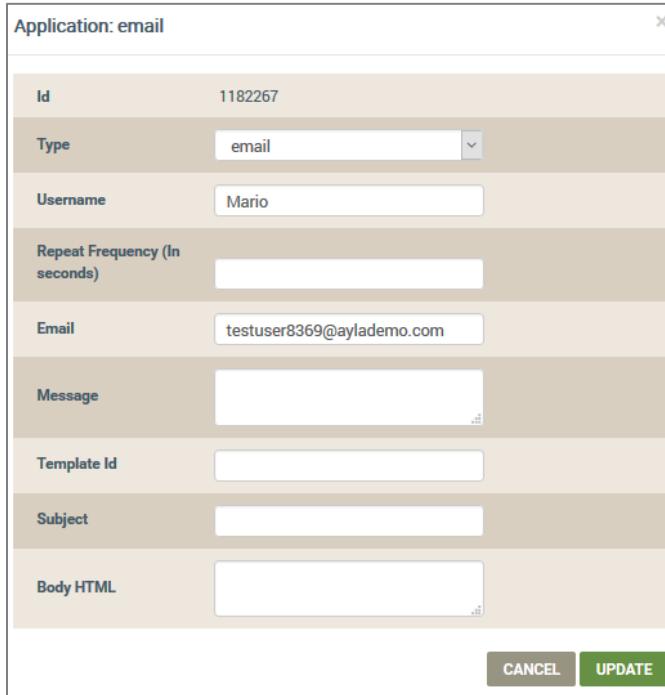


The 'New Application' dialog box is a modal window with a light gray background. It has a title bar at the top with the text 'New Application' and a close button 'X'. The main area contains eight input fields, each with a label and a text input box. The fields are arranged vertically: 'Type' (set to 'email'), 'Username', 'Repeat Frequency (In seconds)', 'Email', 'Message', 'Template Id', 'Subject', and 'Body HTML'. At the bottom of the dialog are two buttons: 'CANCEL' on the left and 'SAVE' on the right, both in green text.

Enter details:

- **Type** drop-down (type of notification):
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)
- **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)
- Click **SAVE**.

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



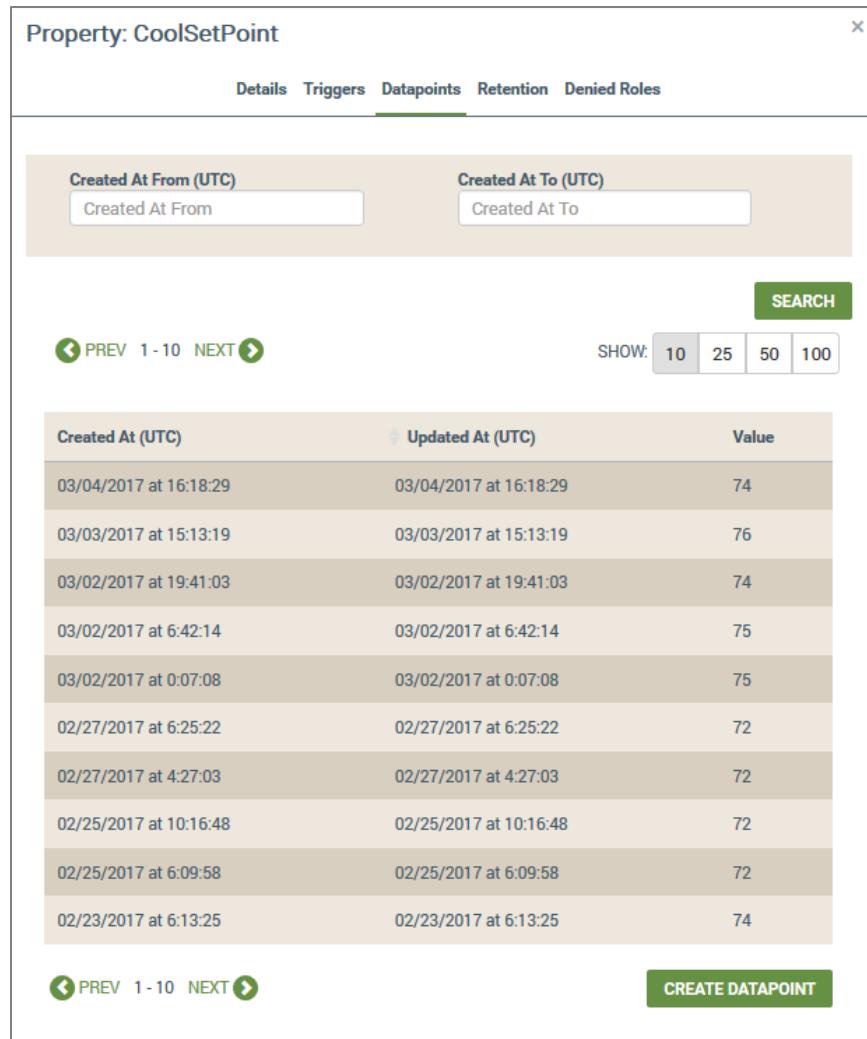
Application: email	
Id	1182267
Type	email
Username	Mario
Repeat Frequency (In seconds)	
Email	testuser8369@aylademo.com
Message	
Template Id	
Subject	
Body HTML	

CANCEL **UPDATE**

- c. Make changes as needed.
d. Click **UPDATE**.

View/edit Property Details – Datapoints tab

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



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

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

3. To review a datapoint:
 - a. In the datapoint table listing, click a datapoint.



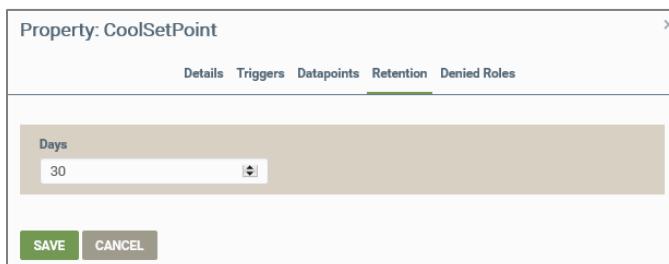
- b. Review the information. When done, click **CLOSE**.
4. To create a datapoint:
 - a. Click **CREATE DATAPPOINT**. This shows the Create Datapoint dialog box.



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

View/edit Property Details – Retention tab

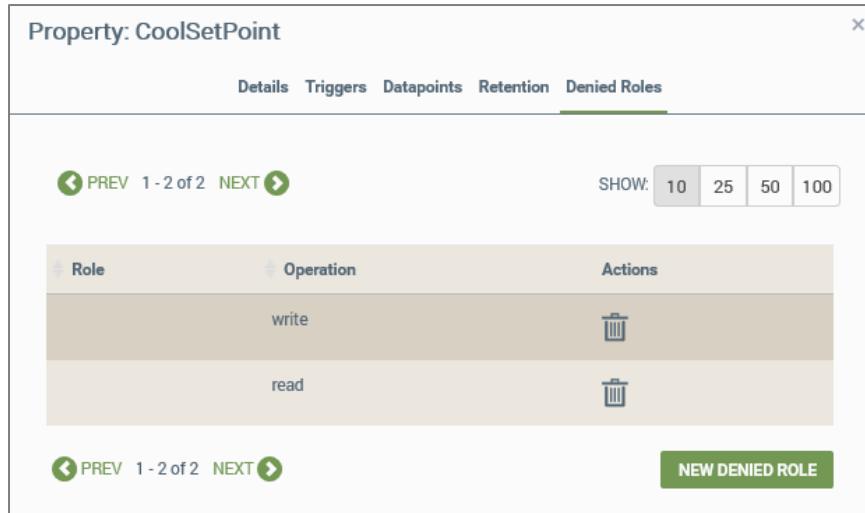
1. On the Property panel, click the **Retention** tab.



2. As needed, change the **Days** value.
3. Click **SAVE**.

View/edit Property Details – Denied Roles tab

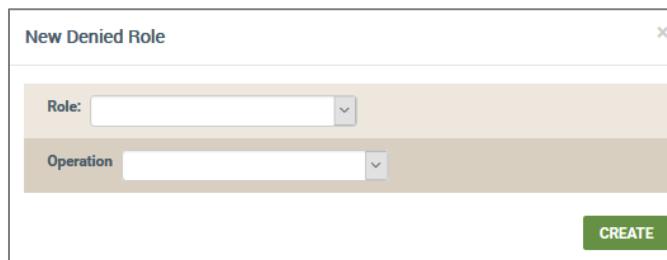
1. On the Property panel, click the **Denied Roles** tab.



Role	Operation	Actions
	write	
	read	

Table columns are:

- o **Role** (role that was denied)
 - o **Operation** (operation that was denied)
 - o **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.

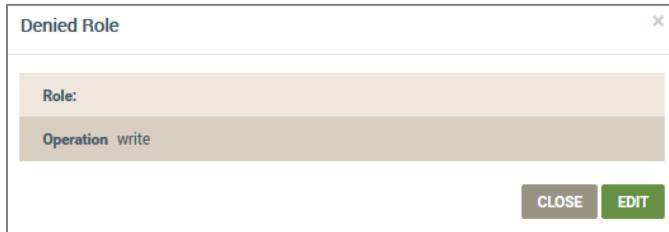


Role:

Operation:

CREATE

- 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.



- b. Click **EDIT**.
- c. As needed, change **Role** drop-down.
- d. As needed, change **Operation** drop-down (write, read).
- e. Click **UPDATE**.
4. To delete a Denied Role:
 - a. ON the Denied Role table listing, locate the role to be deleted.
 - b. Click the **Trash Can** icon. This shows the Confirmation dialog box.



- c. 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: OTTEST

SW Version: 2.0

User: 72077518-828e-11e5-9609-0ee0c870bccc

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	03/2/2017 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":1489309200}]}]	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":1489302000}]}]	false	03/03/2017 at 15:13:22	
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":1489312800}]}]	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":1489302000}]}]	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":0}, {"name":"sys/dst_active","val":0}, {"name":"sys/dst_change","val":0}]}]	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":1489302000}]}]	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":1489312800}]}]	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":1489302000}]}]	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":1489302000}]}]	false	02/23/2017 at 6:13:27	

[PREV](#) 1 - 10 of 331 [NEXT](#)

[DELETE ALL](#)

Table columns are:

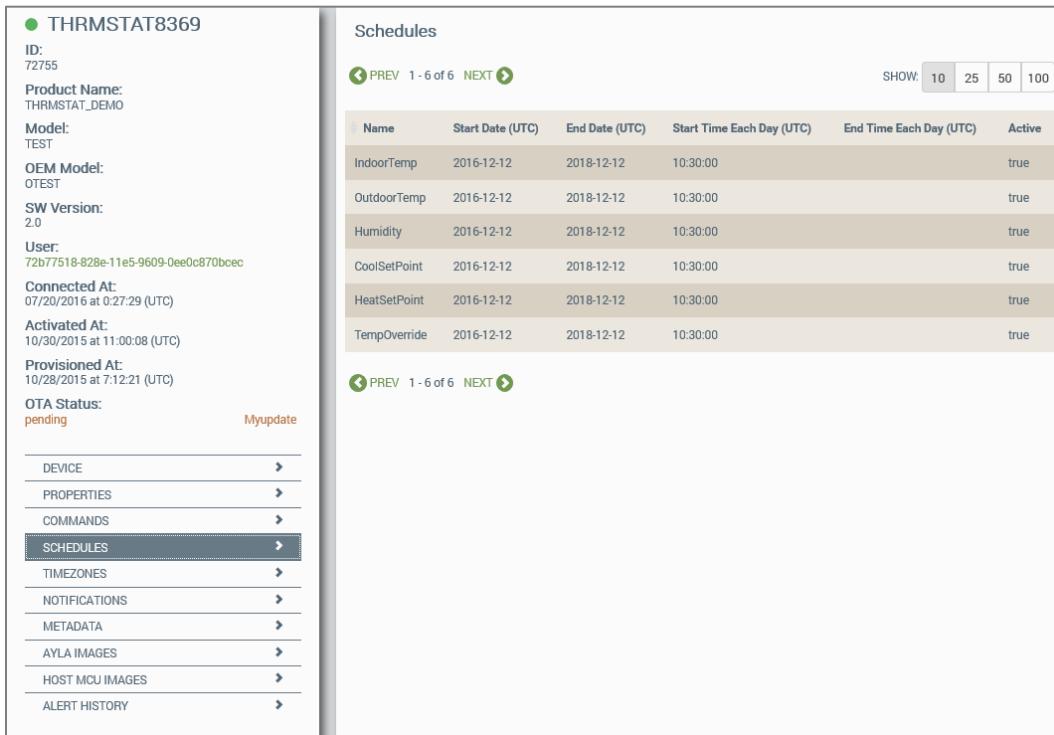
- **Resource** (type of command request)
- **URI** (command call)
- **Data** (data provided with the command)

Delete/Remove Command

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

5.6.4 Device Navigation Menu – SCHEDULES

Schedules are used to manage your device activity. You can create new schedules and edit current schedules.



The screenshot shows the Ayla OEM Dashboard interface. On the left, a sidebar displays device details for 'THRMSSTAT8369' (ID: 72755, Product Name: THRMSSTAT_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). The sidebar also lists navigation options: DEVICE, PROPERTIES, COMMANDS, SCHEDULES (which is selected and highlighted in blue), TIMEZONES, NOTIFICATIONS, METADATA, AYLA IMAGES, HOST MCU IMAGES, and ALERT HISTORY. On the right, a table titled 'Schedules' shows a list of six scheduled tasks. The table has columns for Name, Start Date (UTC), End Date (UTC), Start Time Each Day (UTC), End Time Each Day (UTC), and Active. The data is as follows:

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

Table columns are:

- **Name** (name of the schedule)
- **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 displays the Edit Schedule, Details tab.

Edit Schedule

Details
Advanced
Actions

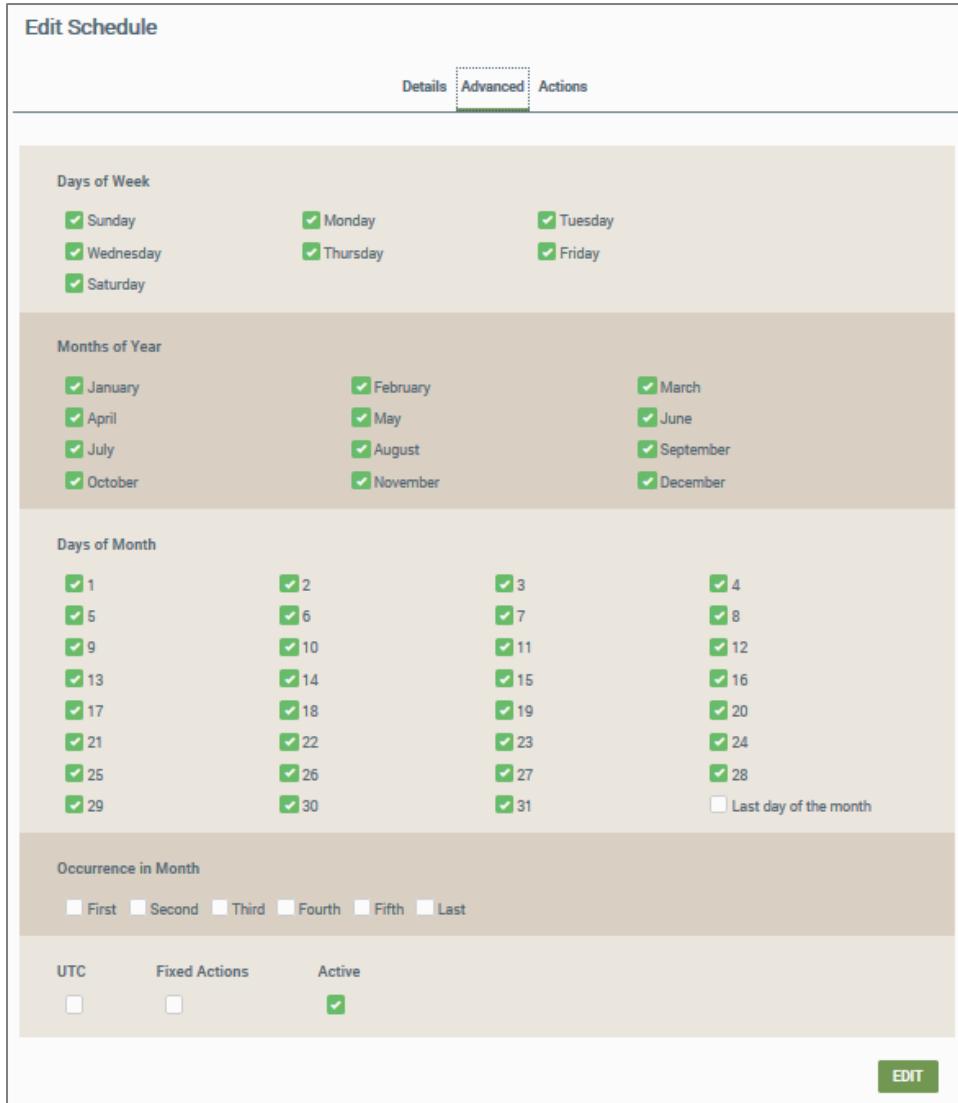
Name:	OutdoorTemp
Display Name:	OutdoorTemp
Direction:	To Device
Start Date (UTC):	2016-12-12
End Date (UTC):	2018-12-12
Start Time Each Day (UTC):	10:30:00
End Time Each Day (UTC):	
Duration (in seconds):	
Interval (in seconds):	

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)** (interval seconds that schedule is active)
4. Click **SAVE**.

Edit Schedule – Advanced tab

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



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**

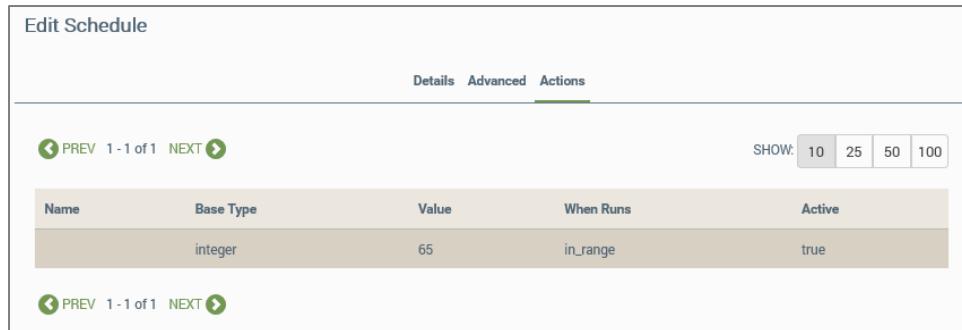
EDIT

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

5. Click **SAVE**.

Edit Schedule – Actions tab

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



Name	Base Type	Value	When Runs	Active
integer		65	in_range	true

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



Name	integer
When Runs	true
In Range	true
At Start	false
At End	false
Value:	65
Active	true

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

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

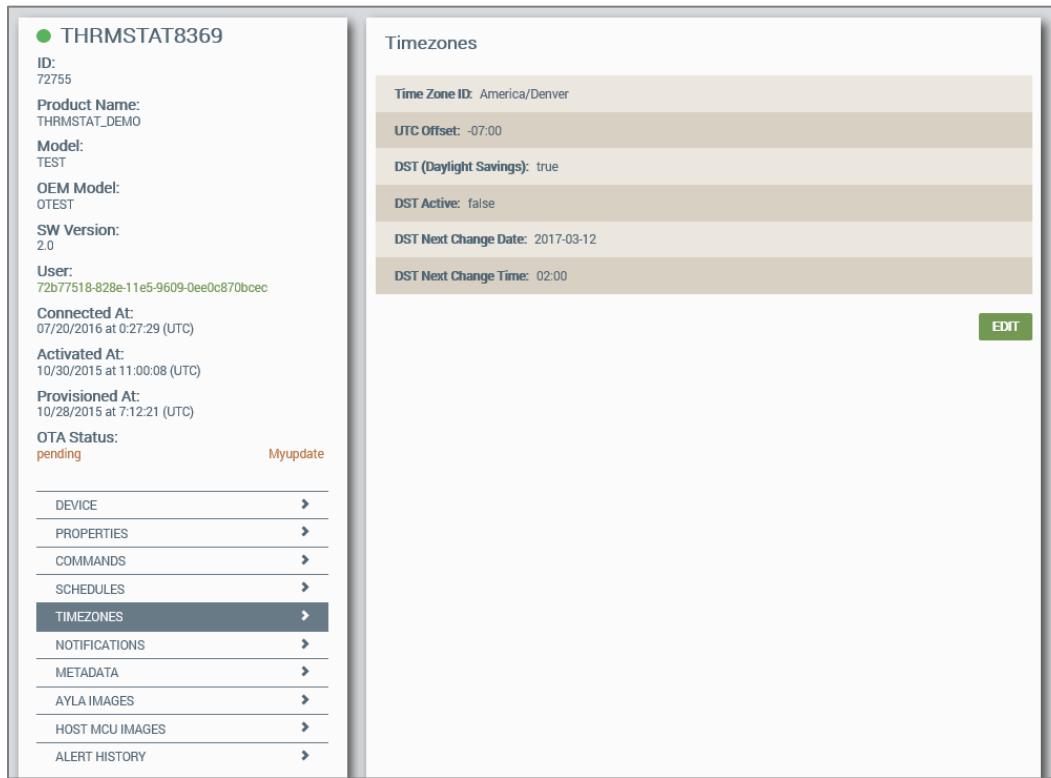
- Name:** A dropdown menu.
- Base Type:** A dropdown menu set to "integer".
- When Runs:** A section with three radio buttons:
 - In Range** (selected, indicated by a green dot)
 - At Start**
 - At End**
- Value:** A text input field containing "65".
- Active:** A checked checkbox.

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

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

5.6.5 Device Navigation Menu – TIMEZONES

These are timezones assigned to the device.



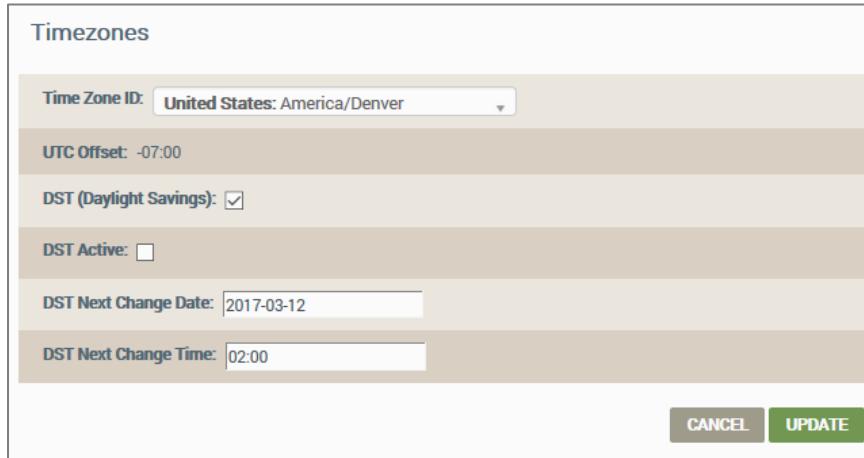
The screenshot shows the Ayla OEM Dashboard interface. On the left, the Device Navigation Menu is open for a device named 'THRMSSTAT8369'. The 'TIMEZONES' option is selected and highlighted in blue. On the right, the 'Timezones' configuration page is displayed. It shows the following settings:

- Time Zone ID: America/Denver
- UTC Offset: -07:00
- DST (Daylight Savings): true (checkbox is checked)
- DST Active: false (checkbox is unchecked)
- DST Next Change Date: 2017-03-12
- DST Next Change Time: 02:00

A green 'EDIT' button is located in the top right corner of the configuration page.

Edit TimeZones

1. Click EDIT.



The screenshot shows the 'Timezones' configuration dialog box. It contains the following fields:

- Time Zone ID: United States: America/Denver (dropdown menu)
- UTC Offset: -07:00
- DST (Daylight Savings):
- DST Active:
- DST Next Change Date: 2017-03-12
- DST Next Change Time: 02:00

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

2. Select the **Time Zone ID** drop-down).
 3. Select/unselect **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 (if current day is in the Daylight Savings Time schedule)
 Unselect (if current day is not during Daylight Savings Time)
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 OEM and user-defined alerts (email, sms, push, forward) with dynamic data into notifications

● THRMSTAT0013

ID: 56003

Product Name: THRMSTAT_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** (level when notification is activated)
- **URL** (web address)
- **User Name** (name of the user)

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Proprietary

97

Search Notifications

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



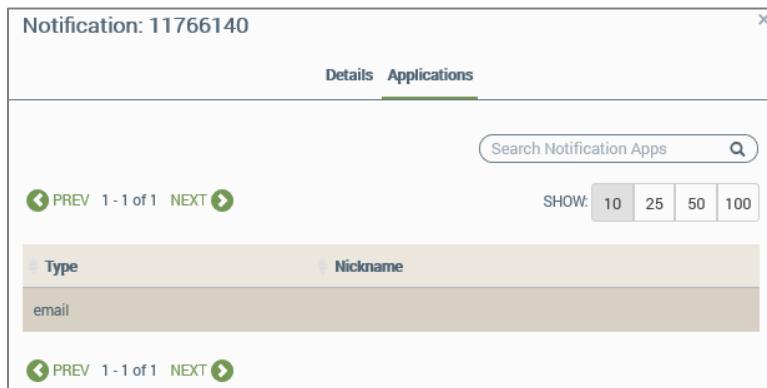
2. Click the **Search** icon.
3. Review results.

View Notification Details

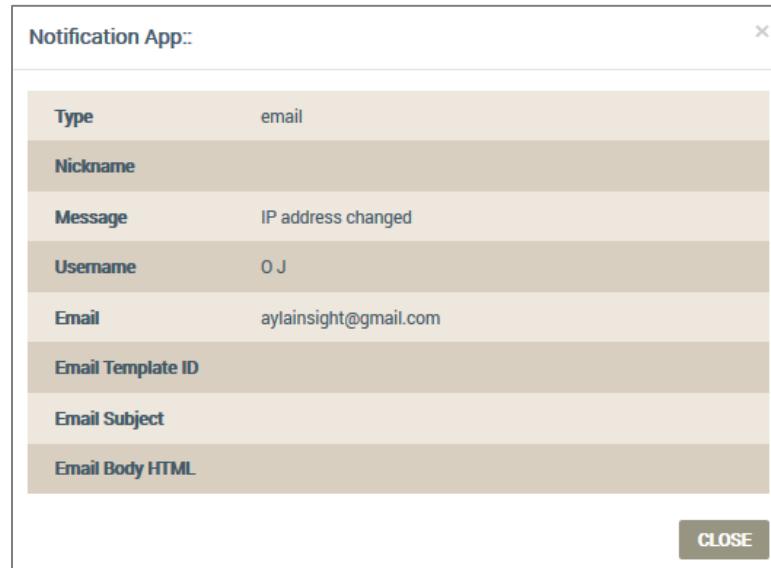
1. In the Notifications table listing, click the notification. This opens a Notification panel.



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



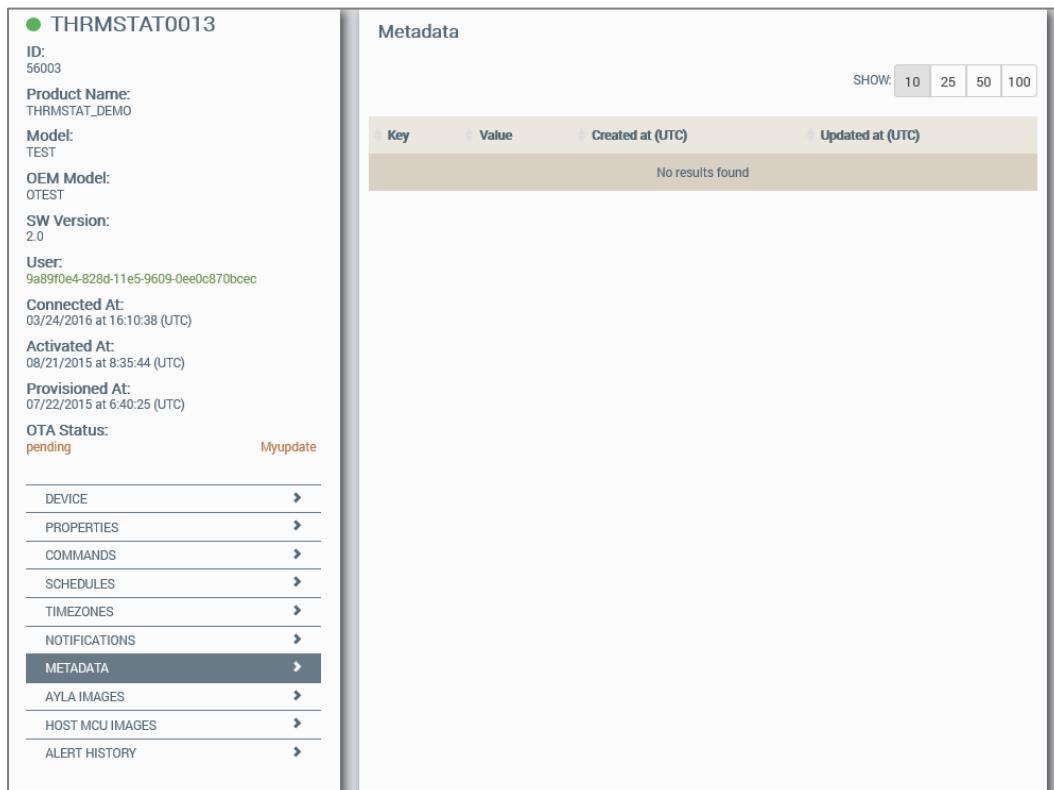
4. To review additional details, in the Application table listing, click the item. This displays the Notification App dialog box.



5. Review the details and click CLOSE.

5.6.7 Device Navigation Menu – METADATA

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



The screenshot shows the Device Navigation Menu for a device with ID 56003. The left sidebar lists various device settings and a navigation menu:

- ID: 56003
- Product Name: THRSTAT_DEMO
- Model: TEST
- OEM Model: OTEST
- SW Version: 2.0
- User: 9a89f0fe4-828d-11e5-9609-0ee0c870bcce
- 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

The navigation menu on the right includes:

- DEVICE
- PROPERTIES
- COMMANDS
- SCHEDULES
- TIMEZONES
- NOTIFICATIONS
- METADATA** (selected)
- AYLA IMAGES
- HOST MCU IMAGES
- ALERT HISTORY

The main content area is titled "Metadata" and shows a table with columns: Key, Value, Created at (UTC), and Updated at (UTC). A message at the bottom states "No results found".

Table columns are:

- **Key** (metadata key)
- **Value** (value of the key)
- **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						
<input type="text"/> SEARCH AYLA IMAGES						
<input type="button"/> PREV 1-10 of 29 <input type="button"/> NEXT						
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 pritishgandhi/effe1a4 dev	<input type="checkbox"/> 

Table columns are:

- **Description** (description of the MCU image)
- **Module Model** (name of the module model)
- **Version** (image version)
- **Uploaded Date (UTC)** (date uploaded to Dashboard)
- **Size (bytes)** (size of the image)
- **Min SW version** (the lowest software version this image will update)
- **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 an item in the table listing. The Ayla Image dialog box displays.



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

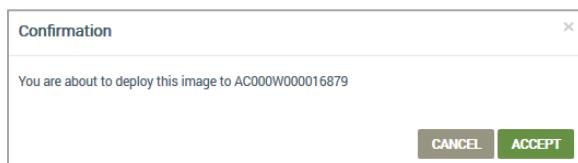
Module Model *	test
Release notes (URL)	test
Version *	test
Min SW Version	test
Size (bytes)	43
Description	test
OEM	0dfc7900

At the bottom right is a "CLOSE" button.

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

3. To deploy the Ayla Image:

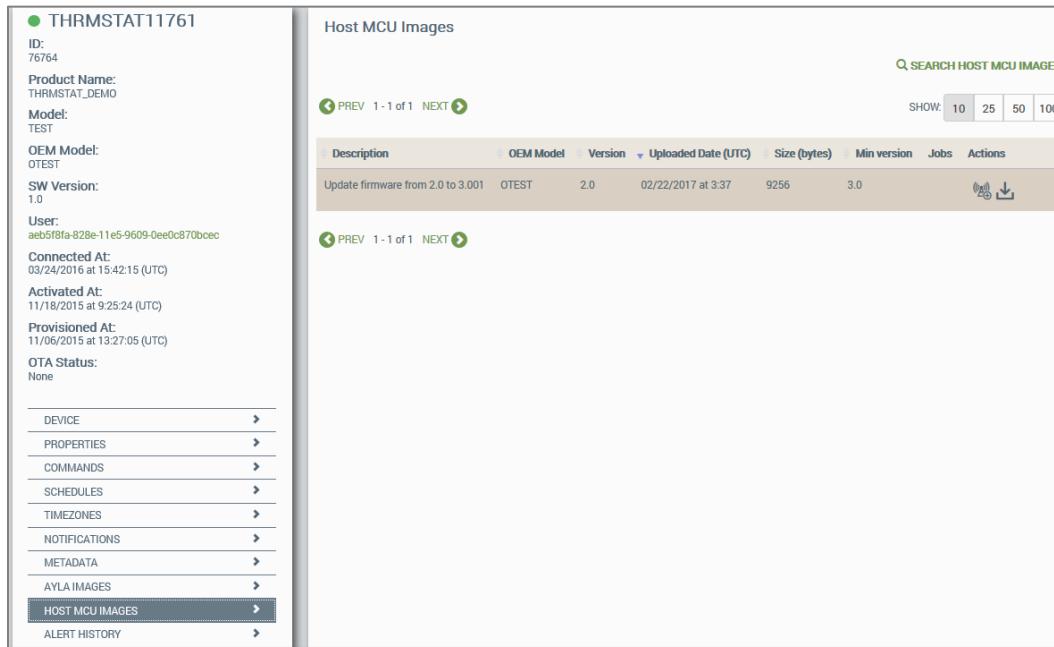
- a. In the Actions column, click the **Deploy Image**  icon.
- b. On the Confirmation dialog, click **ACCEPT**.



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 OEM Dashboard interface. On the left, a sidebar for device 'THRMSTAT11761' displays various device details and navigation links. The 'HOST MCU IMAGES' link is highlighted. The main content area shows a table of 'Host MCU Images' with one entry: 'Update firmware from 2.0 to 3.001'. The table includes columns for Description, OEM Model, Version, Uploaded Date (UTC), Size (bytes), Min version, Jobs, and Actions. The 'Actions' column for this entry contains a 'Deploy' icon and a 'Download' icon.

Table columns are:

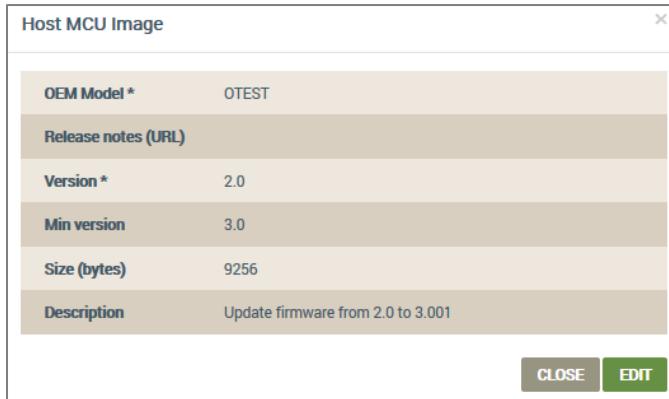
- **Description** (description of the MCU image)
- **OEM Model** (name of the OEM model)
- **Version** (image version)
- **Uploaded Date** (date uploaded to Dashboard)
- **Size (bytes)** (size of the image)
- **Min version** (the lowest version this image will update)
- **Jobs** (the number of jobs this 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

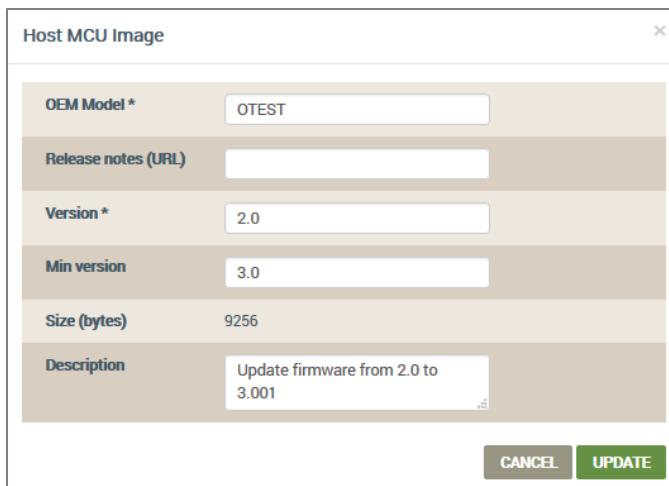
1. Enter search details in Search field.
2. Click **Search** icon.
3. Review results.

View/Edit Host MCU Image

1. On the table listing, click the item. This displays the Host MCU Image dialog box.



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



3. Change or modify details:

- o OEM Model
- o Release notes (URL)
- o Version
- o Min version
- o Description

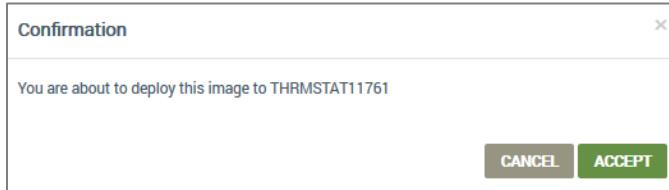
4. Click **UPDATE**.

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.

● THRSTAT11761
ID: 76764
Product Name: THRSTAT_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

SHOW: 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 THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO
03/07/2017 at 1:06	aeb5f8fa-828e-11e5-9609-0ee0c870bcec	property	email	HeatSetPoint = 74	Update to HeatSetPoint of THRSTAT_DEMO

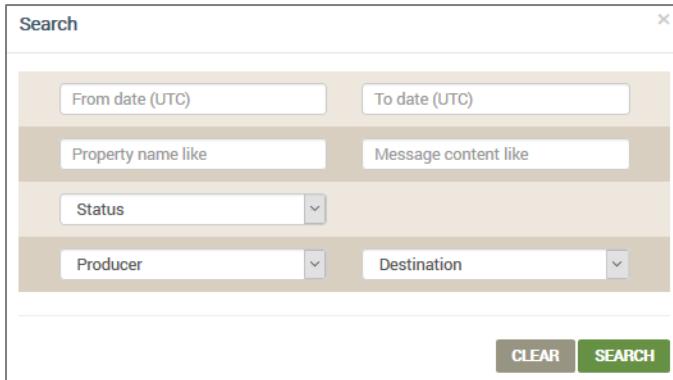
PREV 1 - 10 of 4182 NEXT

Table columns are:

- **Timestamp (UTC)** (date/time of the alert)
- **User** (user who received alert)
- **Producer** (creator of alert)
- **Destination** (where did the alert come)
- **Property** (property on which the alert occurred)
- **Content** (details about the alert)

Search Alerts

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



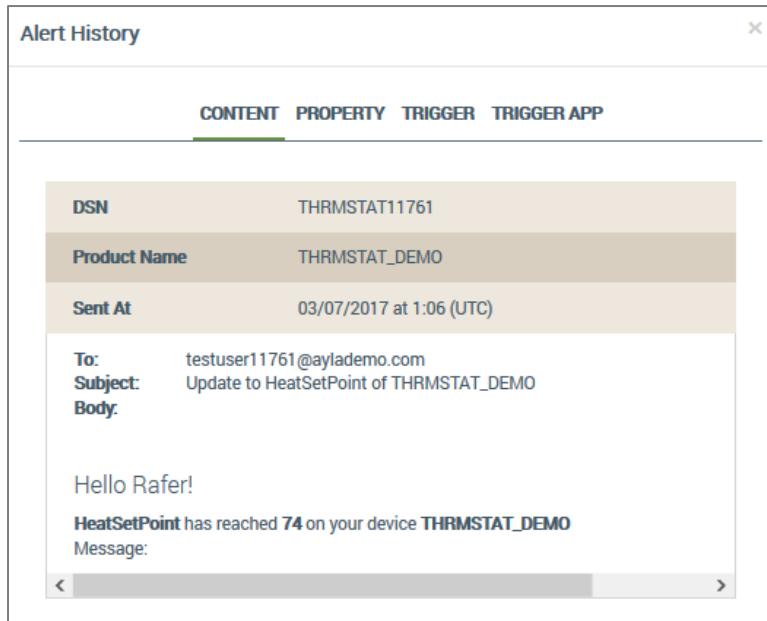
The image shows a 'Search' dialog box with the following layout:

- Header: 'Search' with a close button 'x'.
- Row 1: 'From date (UTC)' and 'To date (UTC)' input fields.
- Row 2: 'Property name like' and 'Message content like' input fields.
- Row 3: 'Status' dropdown menu.
- Row 4: 'Producer' and 'Destination' dropdown menus.
- Buttons at the bottom: 'CLEAR' and 'SEARCH' (highlighted in green).

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**
9. Click **SEARCH**.

View Alert Details

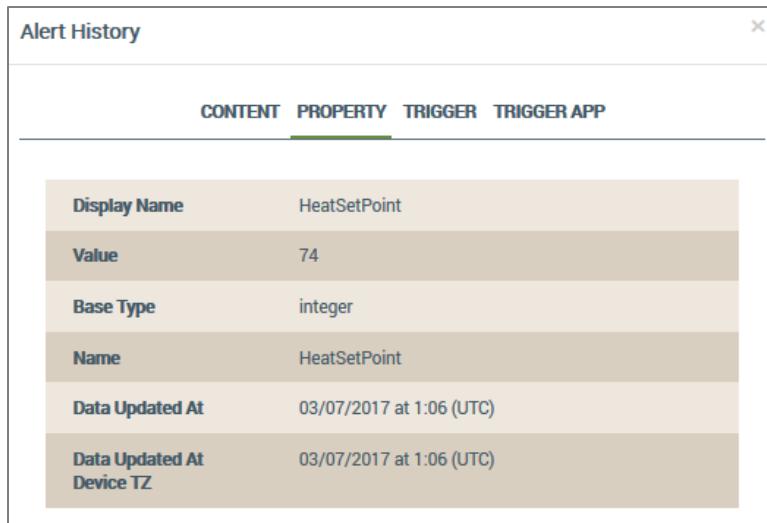
1. On the table listing, click on an Alert. This displays the Alert History dialog box.
2. Review details on the **CONTENT** tab.



The screenshot shows the 'Alert History' dialog box with the 'CONTENT' tab selected. The content pane displays the following information:

DSN	THRMSSTAT11761
Product Name	THRMSSTAT_DEMO
Sent At	03/07/2017 at 1:06 (UTC)
To:	testuser11761@aylademo.com
Subject:	Update to HeatSetPoint of THRMSSTAT_DEMO
Body:	<p>Hello Rafer!</p> <p>HeatSetPoint has reached 74 on your device THRMSSTAT_DEMO</p> <p>Message:</p>

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



The screenshot shows the 'Alert History' dialog box with the 'PROPERTY' tab selected. The content pane displays the following properties:

Display Name	HeatSetPoint
Value	74
Base Type	integer
Name	HeatSetPoint
Data Updated At	03/07/2017 at 1:06 (UTC)
Data Updated At Device TZ	03/07/2017 at 1:06 (UTC)

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.

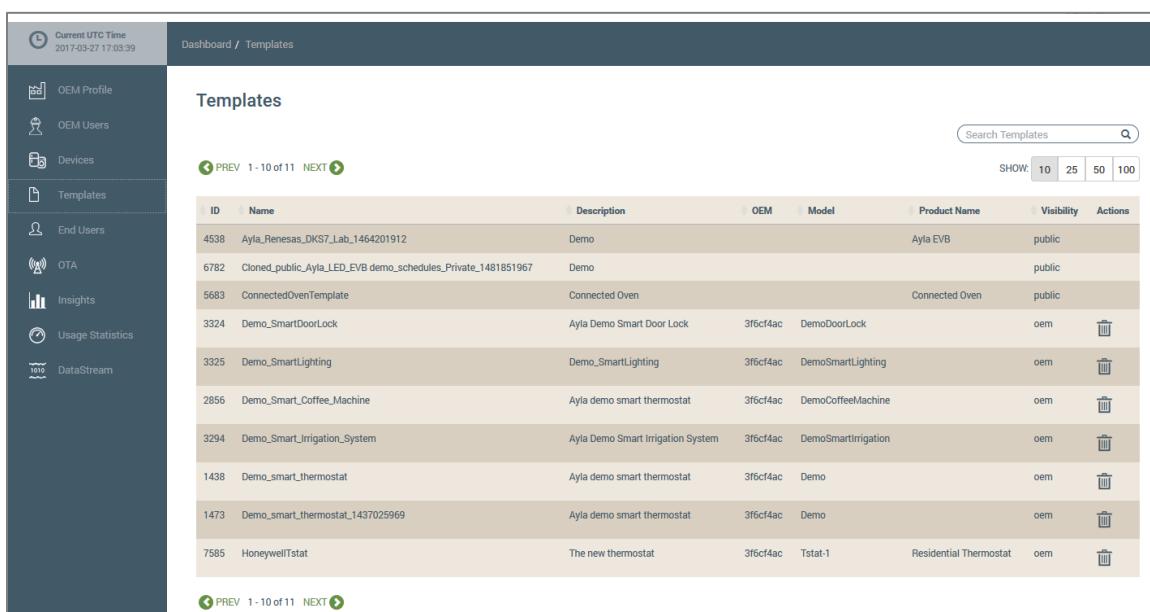
Alert History	
CONTENT PROPERTY TRIGGER TRIGGER APP	
Username	Rafer
Name	email
Nickname	
Param 1	testuser11761@aylademo.com
Param 2	
Param 3	
Param 4	
Param 5	
Repeat Frequency	

6 Templates

A template is a group of properties that are 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 functionality of the device and consequently how the end-user experiences the product features. OEMs 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 for the OEM Dashboard. There are no editable field in this section except a property Retention setting. When a template is assigned to a device, common settings are applied, saving a lot of configuration time.

Figure 6 - OEM 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 identification of the template)
- **Name** (name of the template)
- **Description** (information about the template)
- **OEM** (OEM identification)
- **Model** (model of the template)
- **Product Name** (name of the product the template can be used)
- **Visibility** (who can see the template - public, oem)
- **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 inside a white rectangular box. Below this, there is a search bar containing the placeholder text 'Search Templates' and a magnifying glass icon.

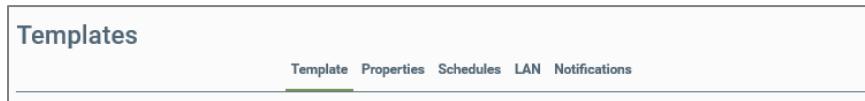
2. Enter search values.

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 inside a white rectangular box. Below this, there is a horizontal navigation bar with five tabs: 'Template' (which is underlined in green), 'Properties', 'Schedules', 'LAN', and 'Notifications'. The 'Template' tab is currently active.

- On the **Template** sub-tab view summary details. Details are view-only.

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

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

Templates

Template Properties Schedules LAN Notifications

PREV 1 - 10 of 14 NEXT SHOW: 10 25 50 100

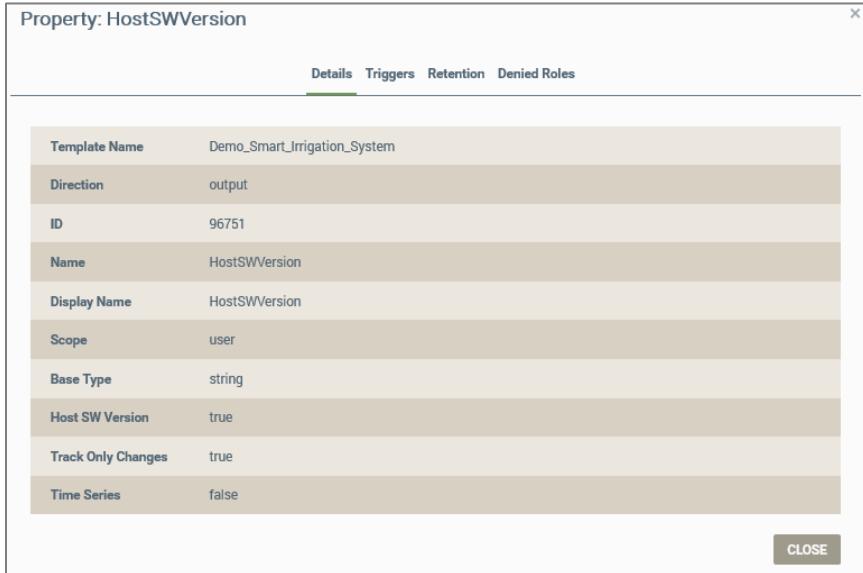
Name	Base Type	Direction	Scope
HostSWVersion	string	output	user
Language	integer	output	user
On/Off	boolean	input	user
stations_total_set	integer	input	user
valve_1	boolean	input	user
valve_10	boolean	input	user
valve_2	boolean	input	user
valve_3	boolean	input	user
valve_4	boolean	input	user
valve_5	boolean	input	user

PREV 1 - 10 of 14 NEXT **CLOSE**

Table columns are:

- **Name** (name of the property)

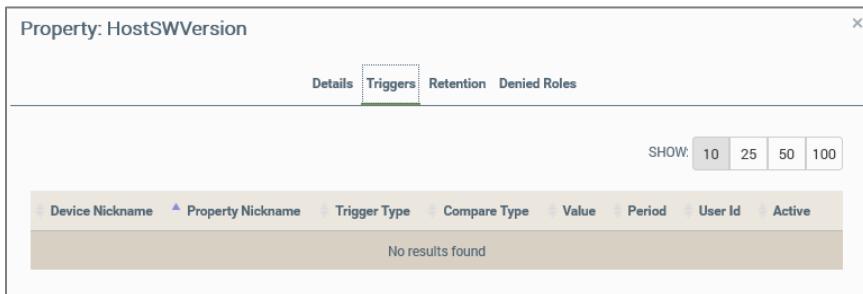
- **Base type** (type of property (integer, string, boolean, decimal, file))
- **Direction** (direction of the property (input, output))
- **Scope** (how is the property used - user, oem)
- Click a property to review additional details – **Details** sub-tab.



Template Name	Demo_Smart_Irrigation_System
Direction	output
ID	96751
Name	HostSWVersion
Display Name	HostSWVersion
Scope	user
Base Type	string
Host SW Version	true
Track Only Changes	true
Time Series	false

CLOSE

- Click **Triggers** sub-tab. Details are view-only.

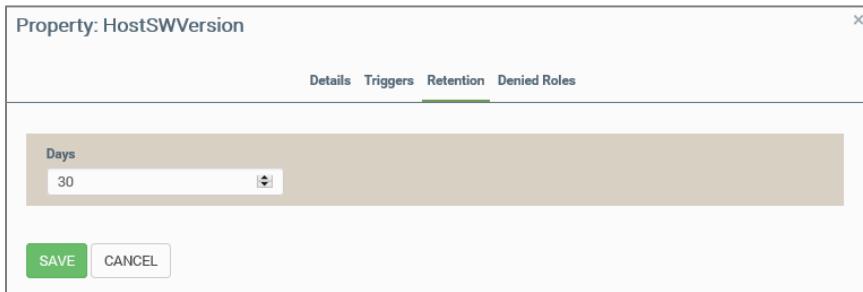


SHOW: 10 25 50 100

Device Nickname Property Nickname Trigger Type Compare Type Value Period User Id Active

No results found

- Click **Retention** sub-tab. The **Days** value can be changed and saved.



Days: 30

SAVE **CANCEL**

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



Property: HostSWVersion

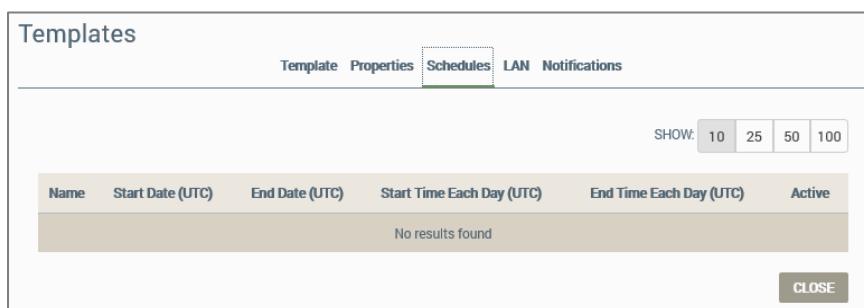
Denied Roles

SHOW: 10 25 50 100

Role	Operation	Actions
No results found		

NEW DENIED ROLE

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



Templates

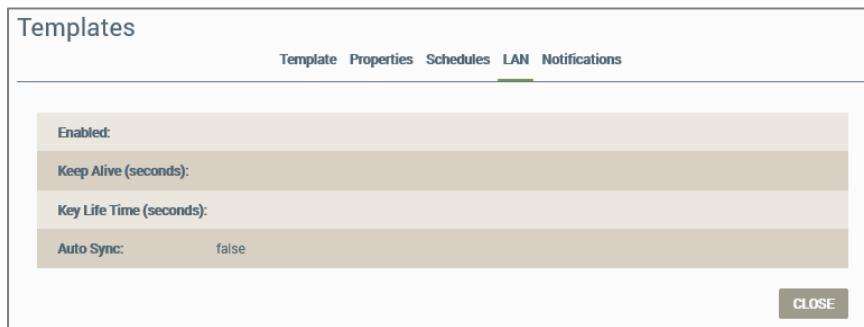
Schedules

SHOW: 10 25 50 100

Name	Start Date (UTC)	End Date (UTC)	Start Time Each Day (UTC)	End Time Each Day (UTC)	Active
No results found					

CLOSE

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



Templates

LAN

Enabled:

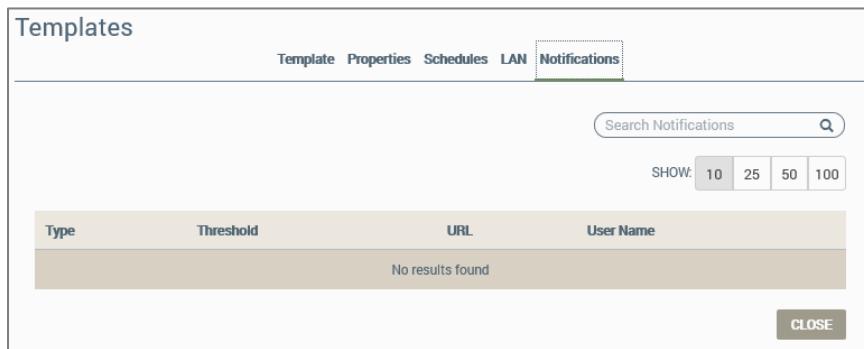
Keep Alive (seconds):

Key Life Time (seconds):

Auto Sync: false

CLOSE

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



Templates

Notifications

Search Notifications

SHOW: 10 25 50 100

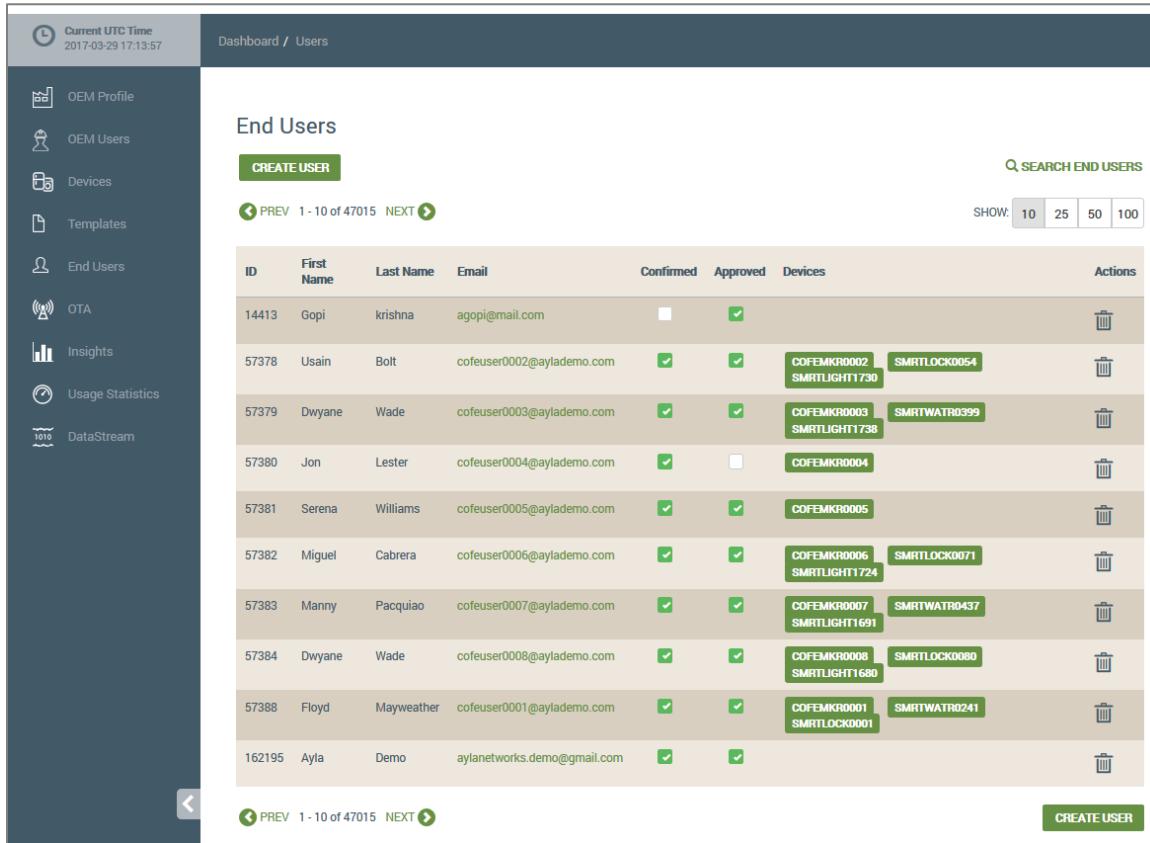
Type	Threshold	URL	User Name
No results found			

CLOSE

7 End Users

The **End Users** section includes all 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 7 - OEM Dashboard, End Users page



ID	First Name	Last Name	Email	Confirmed	Approved	Devices	Actions
14413	Gopi	krishna	agopi@mail.com	<input type="checkbox"/>	<input checked="" type="checkbox"/>		
57378	Usain	Bolt	cofeuser0002@aylademo.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COFEMKR0002 SMRTLIGHT1730	
57379	Dwyane	Wade	cofeuser0003@aylademo.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COFEMKR0003 SMRTWATR0399	
57380	Jon	Lester	cofeuser0004@aylademo.com	<input checked="" type="checkbox"/>	<input type="checkbox"/>	COFEMKR0004	
57381	Serena	Williams	cofeuser0005@aylademo.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COFEMKR0005	
57382	Miguel	Cabrera	cofeuser0006@aylademo.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COFEMKR0006 SMRTLIGHT1724	
57383	Manny	Pacquiao	cofeuser0007@aylademo.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COFEMKR0007 SMRTLIGHT1691	
57384	Dwyane	Wade	cofeuser0008@aylademo.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COFEMKR0008 SMRTLIGHT1680	
57388	Floyd	Mayweather	cofeuser0001@aylademo.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	COFEMKR0001 SMRTLOCK0001	
162195	Ayla	Demo	aylanetworks.demo@gmail.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		

Table column descriptions:

- **ID** (end user ID used in the OEM Dashboard)
- **First Name/Last Name** (user's name)
- **Email** (user's email – click to display user details page)
- **Confirmed** (selected – confirmed; unselected – not confirmed)
- **Approved** (selected – approved; unselected – not approved)
- **Devices** (devices assigned to this end user)
- **Actions** (user actions for the individual row)

7.1 Search End Users

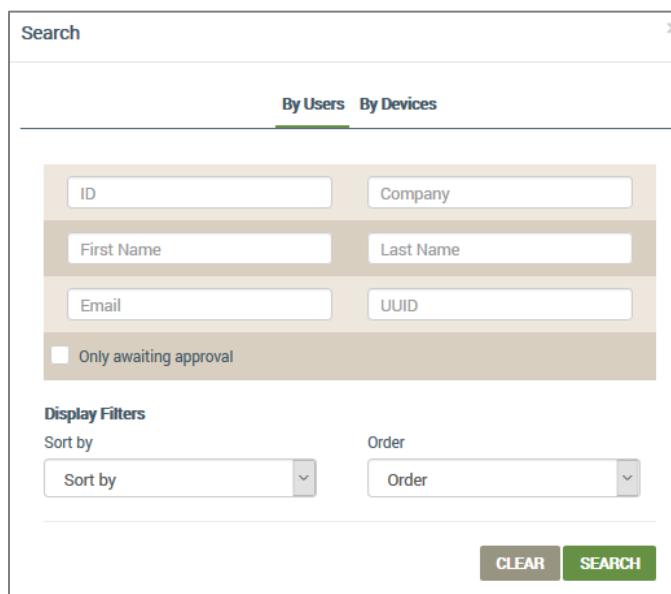
You can search for end users based on their name or registered device.

7.1.1 Search "By Users" tab

1. On the OEM Dashboard > Navigation Panel > End Users, click **SEARCH END USERS**.



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



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

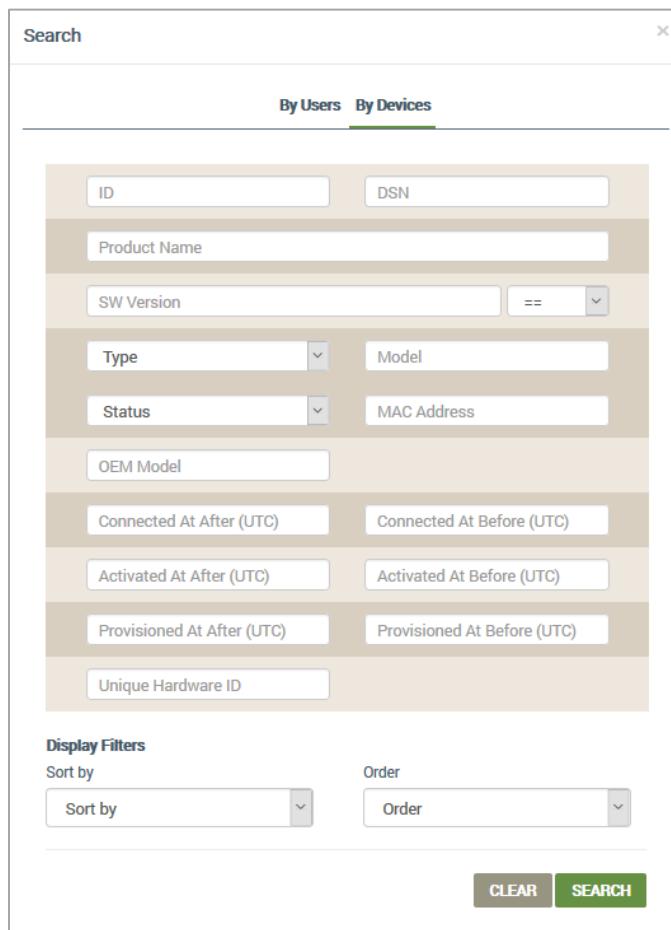
3. Click the **SEARCH**.

7.1.2 Search "By Devices" tab

1. Click **SEARCH END USERS**.



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



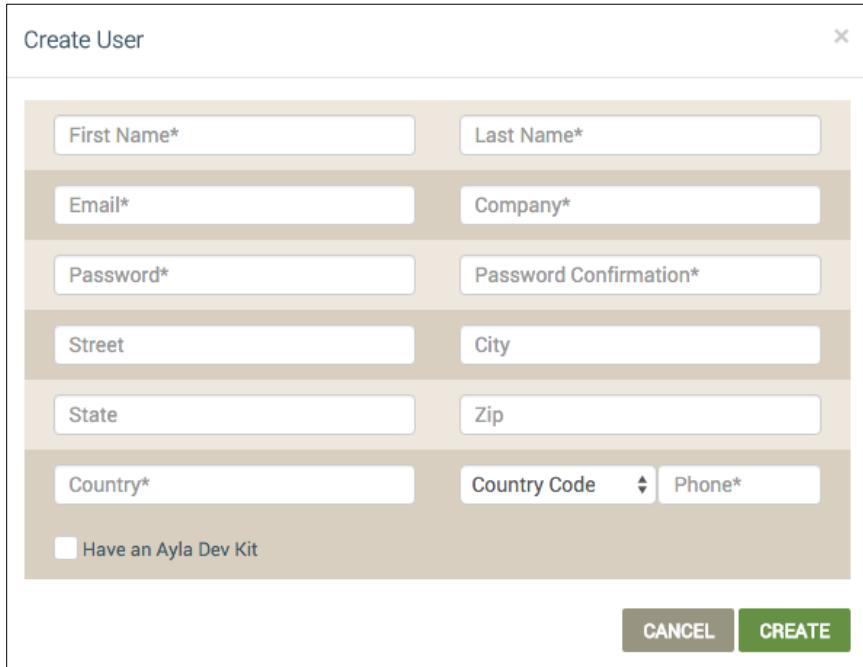
- o **ID** (ID of device)
- o **DSN** (device serial number)
- o **Product Name** (name of the product)
- o **SW Version** (software version – enter value and include filters on drop-down):
 - ==
 - !=
 - like
 - not like
 - in

- **Type** (drop-down)
 - Wifi (wifi devices only)
 - Gateway (gateway devices only)
 - Node (devices only)
 - Node (local) – (these are local, i.e., PaaS, devices)
 - **Model**
 - **Status** (drop-down – current status of device)
 - Offline
 - Initializing
 - Online
 - **MAC Address** (IP MAC address)
 - **OEM Model** (OEM model name)
 - **Connected At After (UTC)** (connect at after date/time - select from calendar)
 - **Connected From Before (UTC)** (connect from before date/time - select from calendar)
 - **Activated At After (UTC)** (activated at after date/time - select from calendar)
 - **Activated From Before (UTC)** (activated from before date/time - select from calendar)
 - **Unique Hardware ID** (IP of PaaS device)
 - (filter) Only awaiting approval checkbox
 - 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:

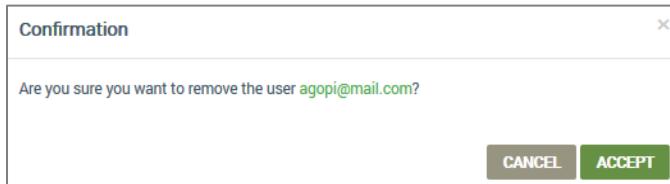
First Name*	Last Name*
Email*	Company*
Password*	Password Confirmation*
Street	City
State	Zip
Country*	Country Code <input type="button" value="▼"/> Phone*
<input type="checkbox"/> Have an Ayla Dev Kit	
<input type="button" value="CANCEL"/> <input type="button" value="CREATE"/>	

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 displays the User details with a series of tabs that contain additional information.



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:
 - o **First Name / Last Name** (end user first name and last name)
 - o **Email** (user's email)
 - o **Company** (user's company)
 - o **Street** (user's street location)
 - o **City** (user's city location)
 - o **State** (user's state location)
 - o **Zip** (user's zip code)
 - o **Country** (user's country)
 - o **Confirmed** checkbox
 - Select (user accepted email credentials)
 - Unselect (email credentials not yet accepted)
 - o **Confirmation sent at** (date/time confirmation sent to user)
 - o **Approved** checkbox

- Select
Unselect
- **Country Code** drop-down (list of country phone codes)
 - **Phone**
 - **Add New Role** drop-down (list of User Roles)
3. When done click **UPDATE**.

End User – Metadata tab

Metadata is added when the End User is created or edited.

User: Usain Bolt				
Details Metadata Shared By Me Shared With Me Contacts Devices				
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: Usain Bolt								
Details Metadata Shared By Me Shared With Me Contacts Devices								
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** (ID of the device being shared)
- **Grant ID** (ID of the OEM granting use of the shared device)
- **User ID** (ID of the user authorized to share this device)
- **Resource ID** (property ID of the device)
- **Resource Name** (Name of the device being 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 shared)
- **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: Usain Bolt

[Details](#) [Metadata](#) [Shared By Me](#) [Shared With Me](#) [Contacts](#) [Devices](#)

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: Usain Bolt

[Details](#) [Metadata](#) [Shared By Me](#) [Shared With Me](#) [Contacts](#) [Devices](#)

PREV
1 - 1 of 1
NEXT

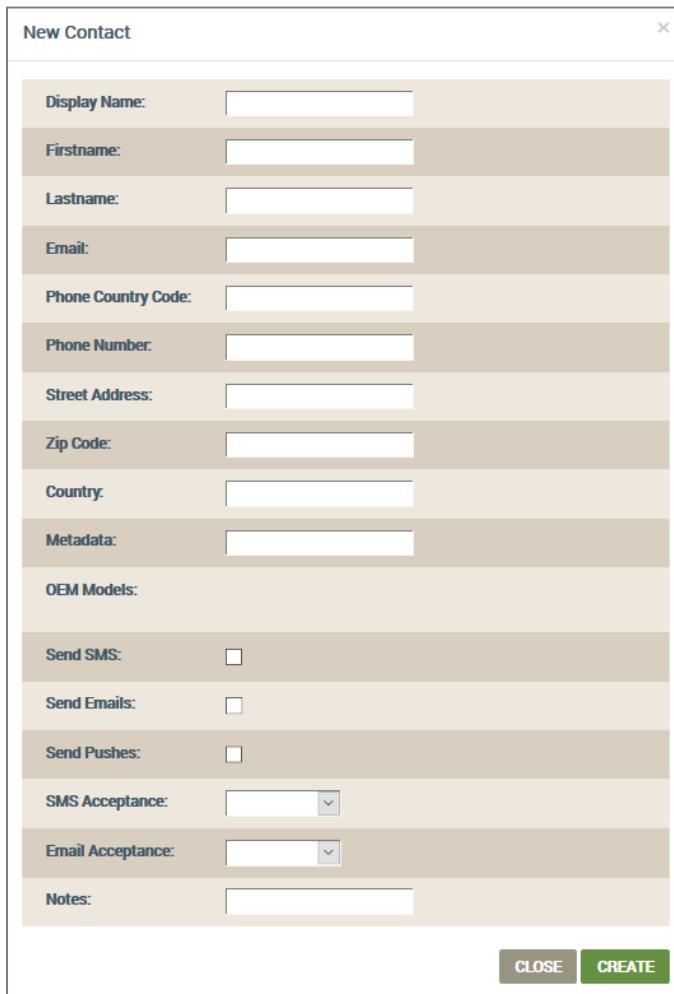
SHOW: 10 25 50 100

Display Name	Firstname	Lastname	Actions
APS	AI	All	

[NEW CONTACT](#)

PREV
1 - 1 of 1
NEXT

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

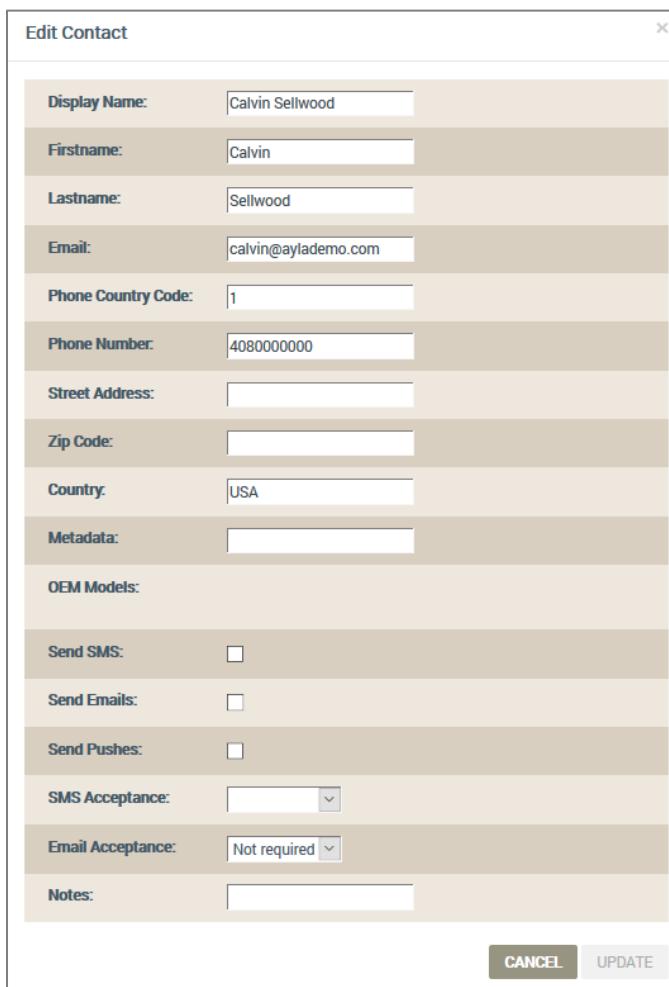


The 'New Contact' dialog box is a modal window with a light gray background. It contains 14 input fields arranged in two columns. The left column includes 'Display Name', 'Firstname', 'Lastname', 'Email', 'Phone Country Code', 'Phone Number', 'Street Address', 'Zip Code', 'Country', 'Metadata', 'OEM Models', 'Send SMS', 'Send Emails', 'Send Pushes', 'SMS Acceptance', 'Email Acceptance', and 'Notes'. The right column contains corresponding input fields. At the bottom right are 'CLOSE' and 'CREATE' buttons.

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, models 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)
 - **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:



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:

Send Emails:

Send Pushes:

SMS Acceptance: Not required

Email Acceptance: Not required

Notes:

CANCEL **UPDATE**

- a. Change details as needed.

- b. Click **UPDATE**.
3. If needed, click **Trash Can** icon to delete contact.

End User – Devices

This shows the End User's assigned devices.

User: Usain Bolt

Details Metadata Shared By Me Shared With Me Contacts Devices

SHOW: 10 25 50 100

ID	DSN
90791	COFEMKR0002
105017	SMRTLOCK0054
146318	SMRTLIGHT1730

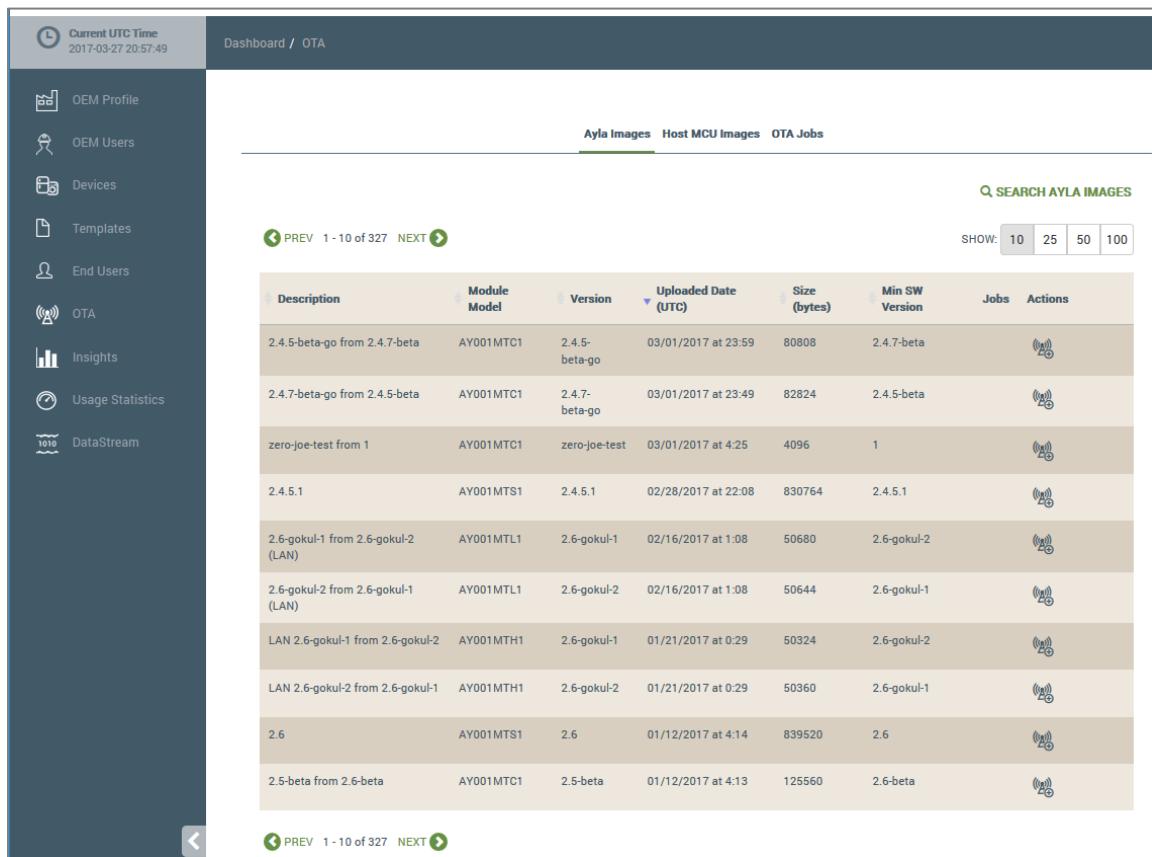
PREV 1 - 3 of 3 NEXT

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

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 8 - OEM Dashboard, OTA page



Description	Module Model	Version	Uploaded Date (UTC)	Size (bytes)	Min SW Version	Jobs	Actions
2.4.5-beta-go from 2.4.7-beta	AY001MTC1	2.4.5-beta-go	03/01/2017 at 23:59	80808	2.4.7-beta		
2.4.7-beta-go from 2.4.5-beta	AY001MTC1	2.4.7-beta-go	03/01/2017 at 23:49	82824	2.4.5-beta		
zero-joe-test from 1	AY001MTC1	zero-joe-test	03/01/2017 at 4:25	4096	1		
2.4.5.1	AY001MTS1	2.4.5.1	02/28/2017 at 22:08	830764	2.4.5.1		
2.6-gokul-1 from 2.6-gokul-2 (LAN)	AY001MTL1	2.6-gokul-1	02/16/2017 at 1:08	50680	2.6-gokul-2		
2.6-gokul-2 from 2.6-gokul-1 (LAN)	AY001MTL1	2.6-gokul-2	02/16/2017 at 1:08	50644	2.6-gokul-1		
LAN 2.6-gokul-1 from 2.6-gokul-2	AY001MTH1	2.6-gokul-1	01/21/2017 at 0:29	50324	2.6-gokul-2		
LAN 2.6-gokul-2 from 2.6-gokul-1	AY001MTH1	2.6-gokul-2	01/21/2017 at 0:29	50360	2.6-gokul-1		
2.6	AY001MTS1	2.6	01/12/2017 at 4:14	839520	2.6		
2.5-beta from 2.6-beta	AY001MTC1	2.5-beta	01/12/2017 at 4:13	125560	2.6-beta		

On the OEM 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.

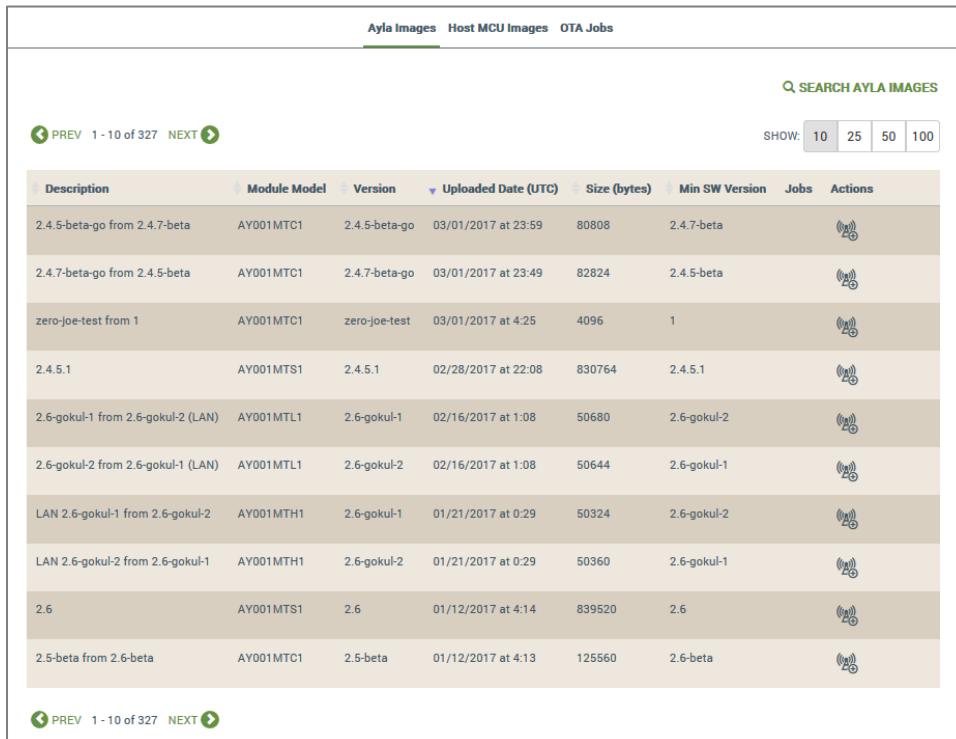
Ayla Networks recommends the following best methods be used before distributing OTA updates to devices in the field.

1. 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.
2. 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.
3. When the OTA job is complete, make sure that all online devices have successfully updated to the new firmware version.
4. 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 on the OEM Dashboard.

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



The screenshot shows a table with the following data:

Description	Module Model	Version	Uploaded Date (UTC)	Size (bytes)	Min SW Version	Jobs	Actions
2.4.5-beta-go from 2.4.7-beta	AY001MTC1	2.4.5-beta-go	03/01/2017 at 23:59	80808	2.4.7-beta		
2.4.7-beta-go from 2.4.5-beta	AY001MTC1	2.4.7-beta-go	03/01/2017 at 23:49	82824	2.4.5-beta		
zero-joe-test from 1	AY001MTC1	zero-joe-test	03/01/2017 at 4:25	4096	1		
2.4.5.1	AY001MTS1	2.4.5.1	02/28/2017 at 22:08	830764	2.4.5.1		
2.6-gokul-1 from 2.6-gokul-2 (LAN)	AY001MTL1	2.6-gokul-1	02/16/2017 at 1:08	50680	2.6-gokul-2		
2.6-gokul-2 from 2.6-gokul-1 (LAN)	AY001MTL1	2.6-gokul-2	02/16/2017 at 1:08	50644	2.6-gokul-1		
LAN 2.6-gokul-1 from 2.6-gokul-2	AY001MTH1	2.6-gokul-1	01/21/2017 at 0:29	50324	2.6-gokul-2		
LAN 2.6-gokul-2 from 2.6-gokul-1	AY001MTH1	2.6-gokul-2	01/21/2017 at 0:29	50360	2.6-gokul-1		
2.6	AY001MTS1	2.6	01/12/2017 at 4:14	839520	2.6		
2.5-beta from 2.6-beta	AY001MTC1	2.5-beta	01/12/2017 at 4:13	125560	2.6-beta		

Table column descriptions:

- **Description** (name of the Ayla Image)

- **Module Model** (OEM Model associated with the Ayla Images)
- **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:

1. Click on an item (image) in the table listing. This shows the Ayla Image dialog box.



2. Review the details.
3. When done, click **CLOSE**.

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	
ron test1	AY001MUS1	1.15.2	09/02/2016 at 23:33	59260	1.15.1	1182 1184 1187 (MORE)	
1.15.2	ledevb	1.15.2	09/02/2016 at 23:31	59260	1.15.1	1157	

2. This displays the OTA Job page.

Targeted Devices (500) Pending (500) Failed (0) Completed (0)										
OTA Job: j9 										
DEVICE USERS										
PREV 1 - 10 of 500 NEXT										
SHOW: 10 25 50 100										
	Status	ID	DSN	Product	Model	OEM Model	Host SW Version	Image	User	Connected At (UTC)
<input type="checkbox"/>		29163	OTAHUGEGROUP0	Product Name	TEST	OTEST		unknown		08/12/2015 at 0:04:19
<input type="checkbox"/>		29164	OTAHUGEGROUP1	Product Name	TEST	OTEST		unknown		08/11/2015 at 22:45:25
<input type="checkbox"/>		29173	OTAHUGEGROUP10	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:06:03
<input type="checkbox"/>		29263	OTAHUGEGROUP100	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:07:09
<input type="checkbox"/>		29264	OTAHUGEGROUP101	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:07:10
<input type="checkbox"/>		29265	OTAHUGEGROUP102	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:07:10
<input type="checkbox"/>		29266	OTAHUGEGROUP103	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:07:11
<input type="checkbox"/>		29267	OTAHUGEGROUP104	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:07:12
<input type="checkbox"/>		29268	OTAHUGEGROUP105	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:07:13
<input type="checkbox"/>		29269	OTAHUGEGROUP106	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:07:14

3. To review available devices, click tabs to display details in table listing:

Targeted Devices (500)	Pending (500)	Failed (0)	Completed (0)
------------------------	---------------	------------	---------------

- **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.

OTA Job: j9 										
DEVICE USERS										
PREV 1 - 10 of 500 NEXT										
SHOW: 10 25 50 100										
	Status	ID	DSN	Product	Model	OEM Model	Host SW Version	Image	User	Connected At (UTC)
<input checked="" type="checkbox"/>		29163	OTAHUGEGRC	Product Name	TEST	OTEST		unknown		08/12/2015 at 0:04:19
<input type="checkbox"/>		29164	OTAHUGEGRC	Product Name	TEST	OTEST		unknown		08/11/2015 at 22:45:25
<input type="checkbox"/>		29173	OTAHUGEGROUP10	Product Name	TEST	OTEST		unknown		08/08/2015 at 1:06:03

Status
 started 

Created at
 09/20/2016 at 15:43:51 (UTC)

Group
 OTAHUGEGROUP

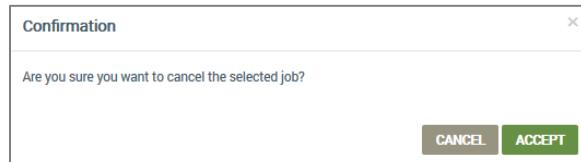
SW Version (from)
 1.15.1

SW Version (to)
 1.15.2

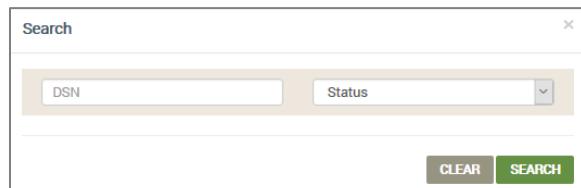
Image
 iron test1

Image Version
 1.15.2

5. To cancel a job, click **ABORT JOB**. This displays 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**.

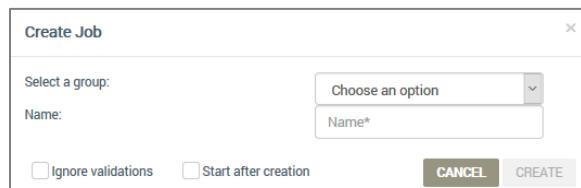


8.1.3 Create OTA Job

1. In the Action 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:



- In **Select a group** drop-down, select from the list.
- Enter **Name** (name of the 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** –

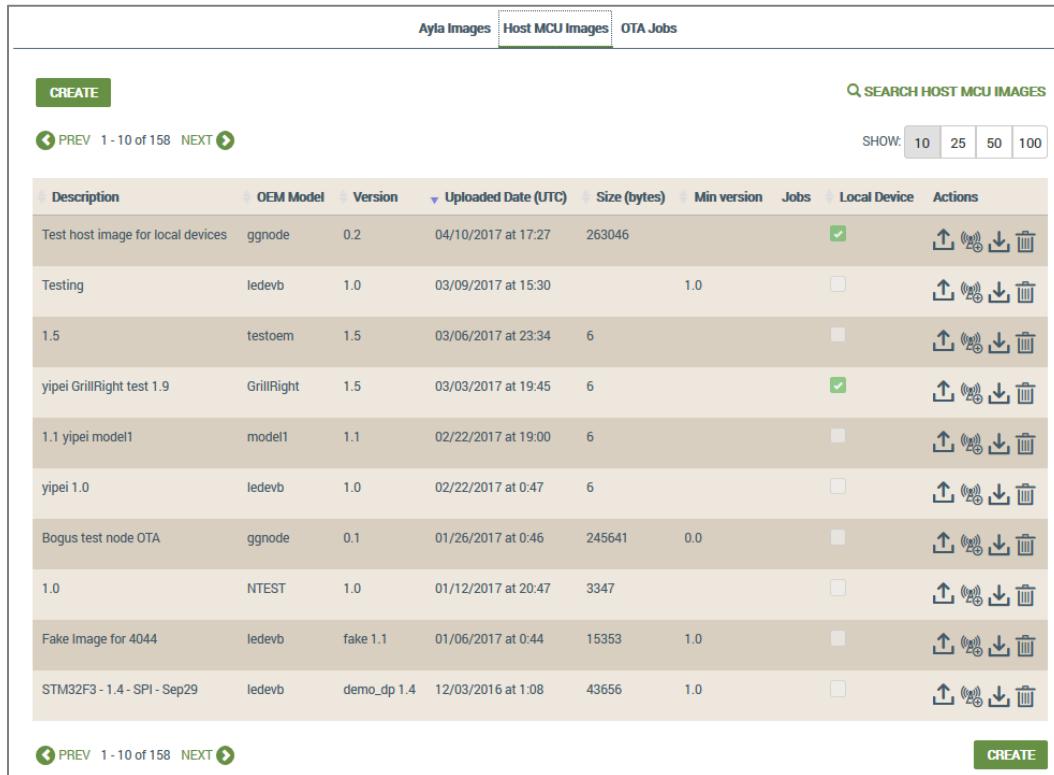
Select (to immediately start OTA after it is created)

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						
CREATE		SEARCH HOST MCU IMAGES						
PREV 1 - 10 of 158 NEXT		<input type="button" value="SHOW: 10"/> <input type="button" value="25"/> <input type="button" value="50"/> <input type="button" value="100"/>						
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"/>	<input type="checkbox"/>	
Testing	ledevb	1.0	03/09/2017 at 15:30		1.0	<input type="checkbox"/>	<input type="checkbox"/>	
1.5	testoem	1.5	03/06/2017 at 23:34	6		<input type="checkbox"/>	<input type="checkbox"/>	
yipei GrillRight test 1.9	GrillRight	1.5	03/03/2017 at 19:45	6		<input checked="" type="checkbox"/>	<input type="checkbox"/>	
1.1 yipei model1	model1	1.1	02/22/2017 at 19:00	6		<input type="checkbox"/>	<input type="checkbox"/>	
yipei 1.0	ledevb	1.0	02/22/2017 at 0:47	6		<input type="checkbox"/>	<input type="checkbox"/>	
Bogus test node OTA	ggnode	0.1	01/26/2017 at 0:46	245641	0.0	<input type="checkbox"/>	<input type="checkbox"/>	
1.0	NTEST	1.0	01/12/2017 at 20:47	3347		<input type="checkbox"/>	<input type="checkbox"/>	
Fake Image for 4044	ledevb	fake 1.1	01/06/2017 at 0:44	15353	1.0	<input type="checkbox"/>	<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"/>	<input type="checkbox"/>	

Table column descriptions:

- **Description** (description of the image)
- **OEM Model** (OEM Model associated with the image)
- **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.



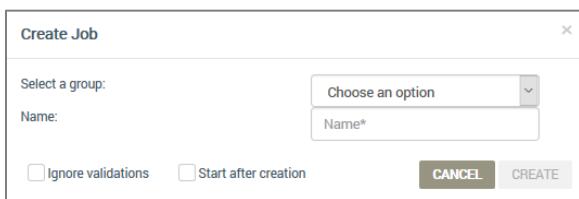
3. In the file upload dialog, locate and select the file.
4. Click **Open**.

8.2.2 Host MCU Images – Create OTA job

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

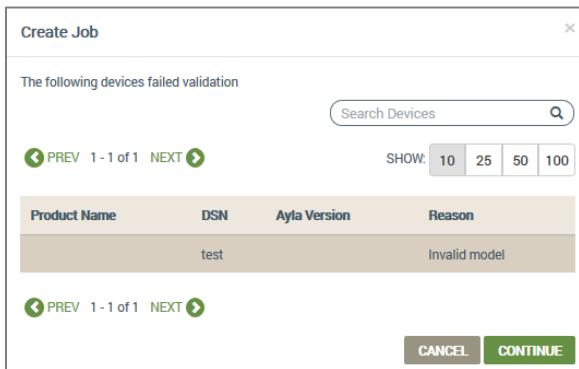


3. On the Create Job dialog box:



- a. In **Select a group** drop-down, select from the list.
- b. Enter **Name** (name of OTA job)
- c. 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.

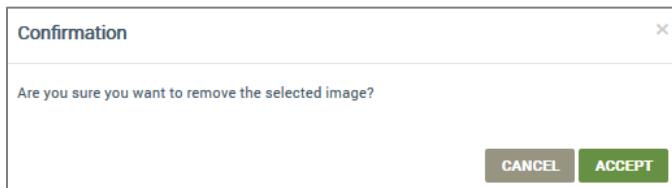
3. Select **Save File**.
4. Click **OK**.

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**.



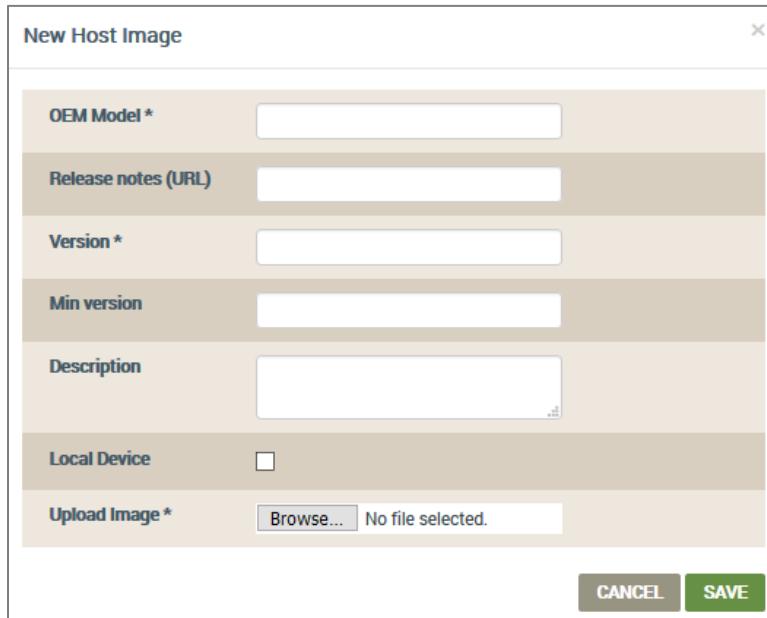
Are you sure you want to remove the selected image?

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.
- Local Device**: A checkbox.
- Upload Image ***: A "Browse..." button and a text field showing "No file selected.".

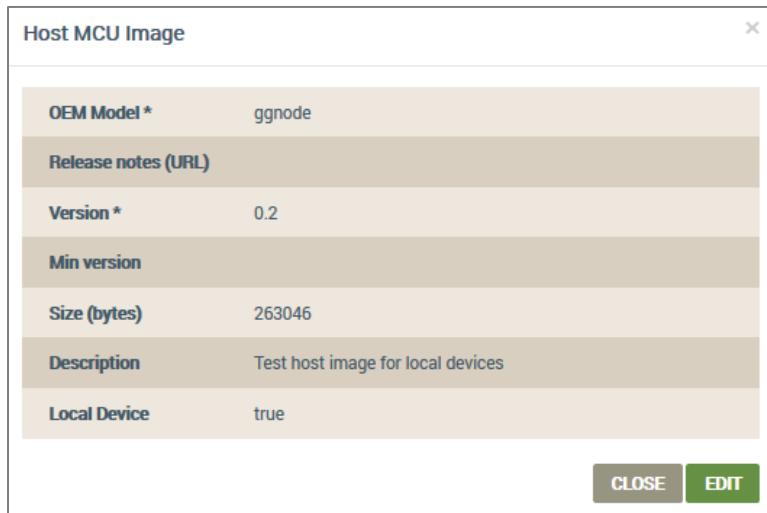
At the bottom are "CANCEL" and "SAVE" buttons.

2. Enter details:
 - **OEM Model** (model for this image)
 - **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.



2. Review the details. To change values, click **EDIT**.
3. Modify details as needed.
 - o **OEM Model** (model of OEM)
 - o **Release notes (URL)** (location of release notes)
 - o **Version** (current version of image)
 - o **Min version** (minimum version this image update)
 - o **Size (bytes)** (size of the image)
 - o **Description** (description information about image)
 - o **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

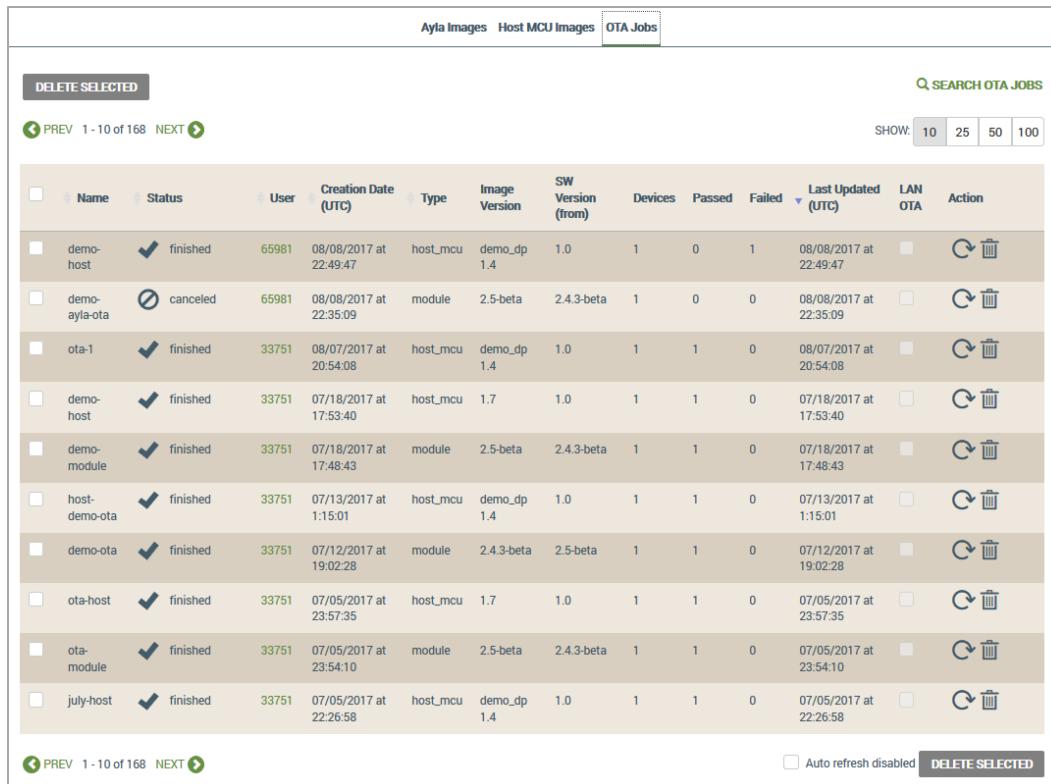
1. In the Ayla developer website (<https://developer.aylanetworks.com>) choose one of the following:
 - o Clone an existing template and update the version of the template
 - OR -
 - o Define a new template for your device
2. In the new/updated template, define a template property that tracks the **Host 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.



DETAILED VIEW

OTA JOBS

SEARCH OTA JOBS

SHOW: 10 25 50 100

DELETE SELECTED

PREV 1-10 of 168 NEXT

Auto refresh disabled

DELETE SELECTED

	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"/>		

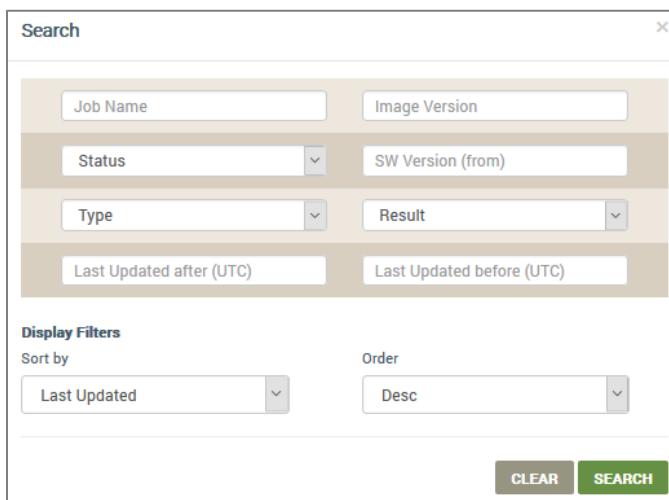
Table column description:

- **Name** (device group name)
- **Status** (status of the OTA job)
- **User** (name of device user 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.



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
 - **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**.

8.5 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.

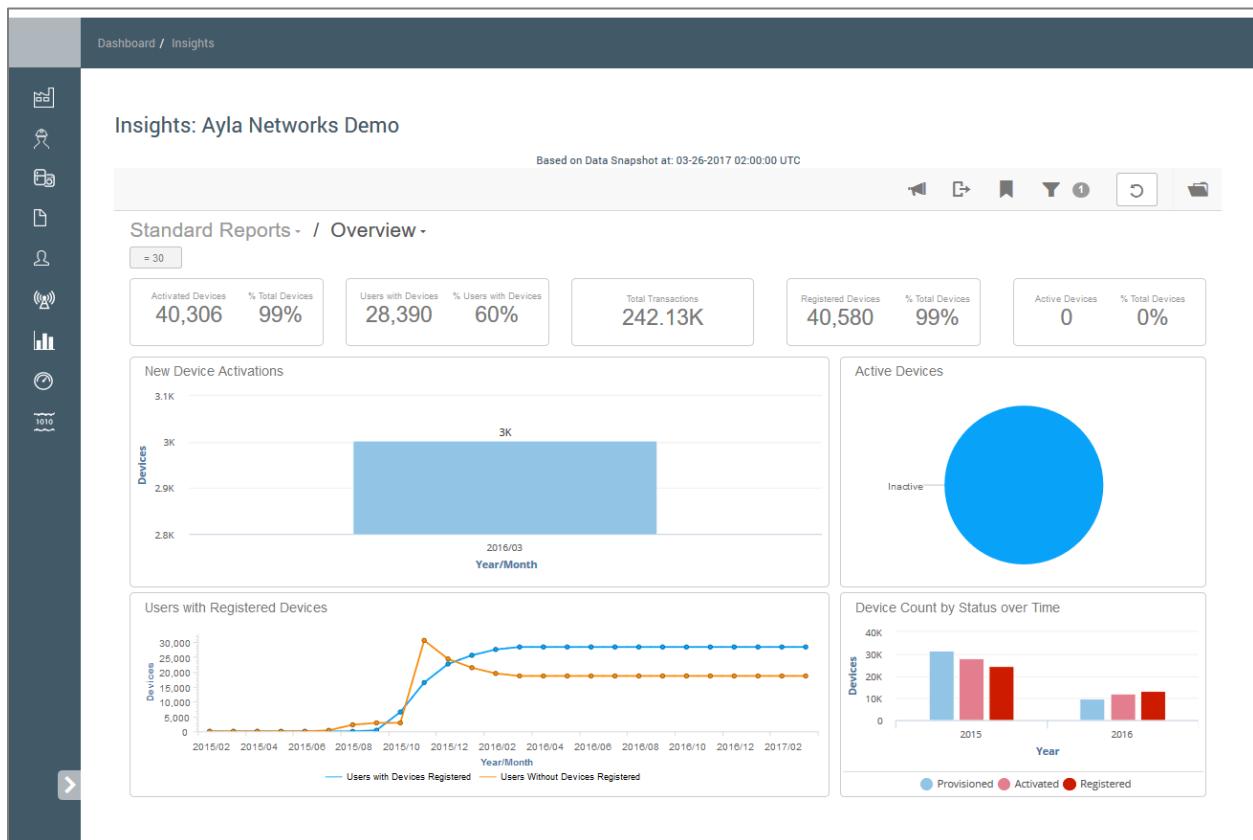
You can observe the process and progress of individual devices in the OTA group.

9 Insights

Ayla Insights is a fully-integrated business intelligence and analytics platform that provides OEMs with real-world insights into how their connected products are being used. OEMs can use Insights to visualize, analyze, and explore data quickly, regardless of the device or application type. This 360-degree view of product usage enables OEMs to understand and promote continued product improvements and innovation.

To access Ayla Insights on the OEM Dashboard, on the Navigation Panel, click Insights (left side), as shown in Figure 9

Figure 9 - OEM 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* on support.aylanetworks.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

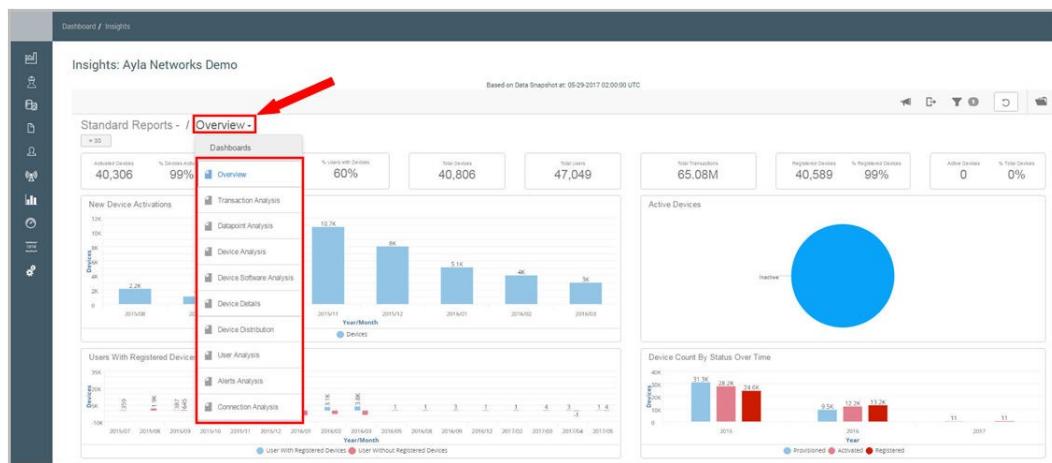
Icon	Description
	Opens the Notification Center sidebar that enables you to create email notifications of a set of reports to be sent at a specific time daily, weekly, or monthly. When you click the Notifications icon, a searchable list of the notifications that you have created displays. You can do the following for any of the notifications in the list: <ul style="list-style-type: none"> Change the name of the notification. 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, which you can use to drill down in 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 filters selected for the set of reports currently shown on the Insights page. When you apply a filter, the details display across the center 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 reports in Insights.

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.

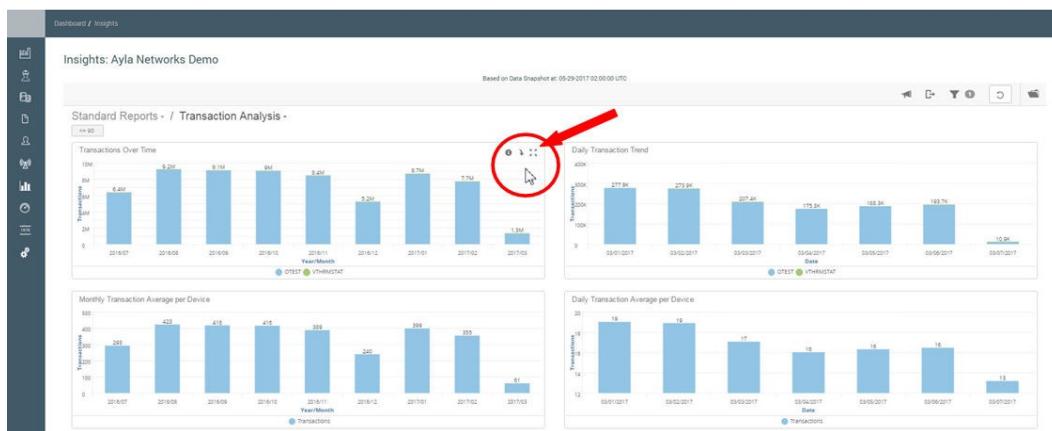
NOTE Overview in Standard / Overview changes to the report is selected. For example, if you select *Device Analysis*, the text changes to Standard / Device Analysis.

Figure 10 - Open a Set of Reports in Ayla Insights



Alternatively, you can click the Folder icon (described in Section 9.1) to open any of the 10 sets of reports. If you place your cursor over any of the individual reports, the option to maximize that particular report displays.

Figure 11 - Maximize an Individual Report in the Set



9.1.1 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 support.aylanetworks.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 period of time.
 - 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 OEM 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 OEM host software version.
- Device Count by Host SW Version, which provides the number of devices running a particular OEM host software version.
- Device Details – These reports provide OEMs the ability to view individual device usage and behavior history. The set includes the following reports:
 - Device List, which provides a list of all OEM 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 OEMs 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.

9.1.2 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.



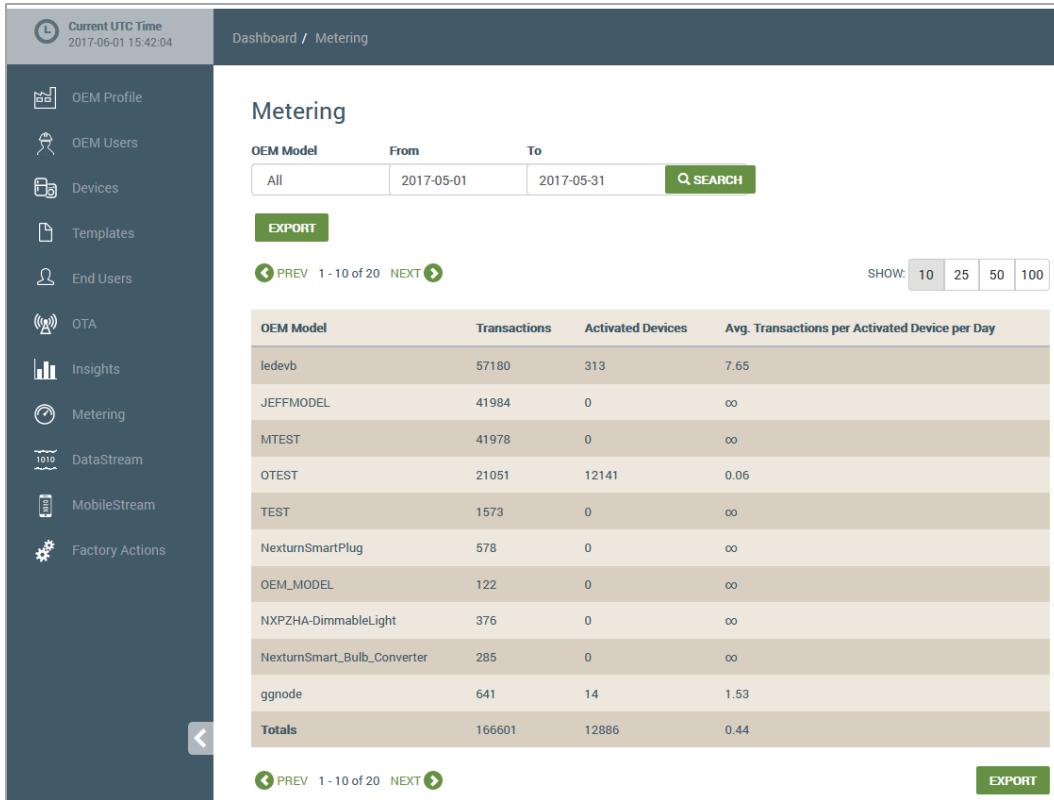
Table 2 – Action Icons for Individual Ayla Insights Reports

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 (like 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 OEM Dashboard.

10 Metering

This shows how end-users are utilizing Ayla platform resources.

Figure 12 - OEM Dashboard, Metering page



OEM Model	Transactions	Activated Devices	Avg. Transactions per Activated Device per Day
ledevb	57180	313	7.65
JEFFMODEL	41984	0	∞
MTEST	41978	0	∞
OTEST	21051	12141	0.06
TEST	1573	0	∞
NexturnSmartPlug	578	0	∞
OEM_MODEL	122	0	∞
NXPZHA-DimmableLight	376	0	∞
NexturnSmart_Bulb_Converter	285	0	∞
ggnode	641	14	1.53
Totals	166601	12886	0.44

Table column description:

- **OEM Model** (name of the OEM Model)
- **Transactions** (corresponding device counts for associated Model over the input time range)
- **Activated Devices** (number of activated devices for that OEM Model)
- **Provisioned Devices** (number of provisioned devices for the OEM Model)
- **Avg. Transactions per Activated Devices per Day** (daily average of transactions per each device)
- **HOST MCU Images Successfully Pushed** (number of host MCU images that were successfully updated)

10.1 Metering – Search

The search function is used to identify a selected OEM Model activity within a specified date range.

OEM Model	From	To	
All	2017-05-01	2017-05-31	 SEARCH

1. Click in the OEM Model text box to display a drop-down list and select an item.
2. Click in the From text box to display a calendar and select a From date.
3. Click in the To text box to display a calendar and select a To date.
4. Click **SEARCH**.
5. Review the results. If needed, adjust the search parameters.

10.2 Export Details

NOTE This feature is not yet functional.

To export details on the listed OEM Models:

1. Use the Search function to list all the appropriate OEM Models.
2. Click **EXPORT**. This displays the Export dialog box.
3. Select the destination for the export file. Click **OK**.

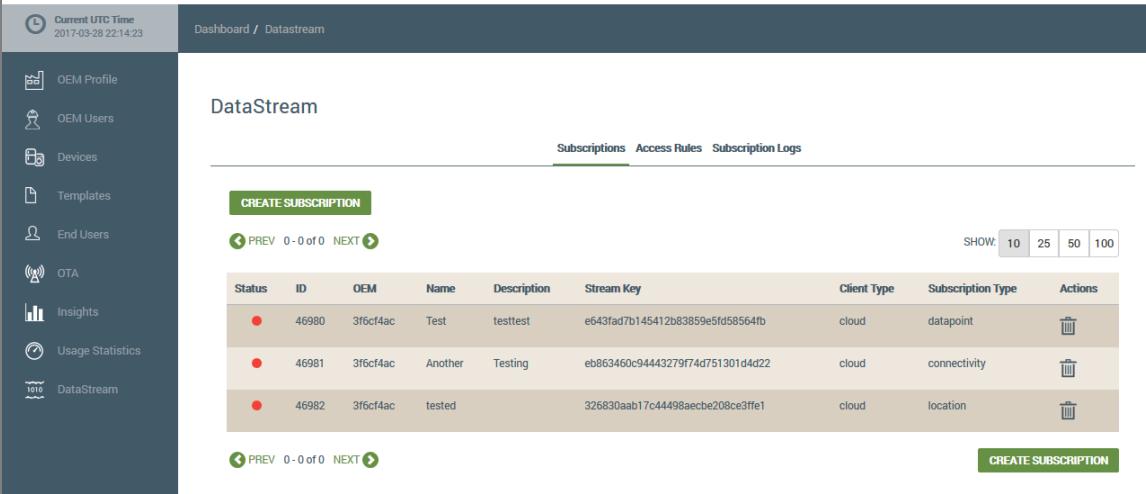
11 DataStream

DataStream (DSS) enables the OEM to create, update, or delete subscriptions for data that occurs in the Ayla Platform with a REST API.

NOTE The OEM can configure Role Based Access Controls (RBAC) to restrict which data transmitted externally to partners. For more information on DSS refer to Ayla Single Sign-On (SSO) (AY006USS6-2) users guide.

On the Navigation Panel, click **DataStream**. This shows the DataStream home page.

Figure 13 - OEM 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.

11.1 DataStream – Subscriptions tab

The **Subscriptions** tab is a table listing of all subscriptions.

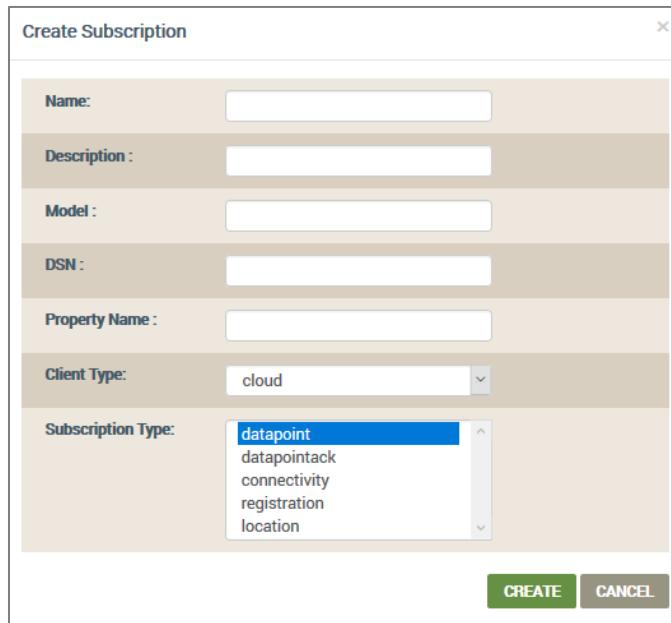
DataStream									
Subscriptions Access Rules Subscription Logs									
CREATE SUBSCRIPTION									
PREV 0 - 0 of 0 NEXT									SHOW: 10 25 50 100
Status	ID	OEM	Name	Description	Stream Key	Client Type	Subscription Type	Actions	
●	46980	3f6cf4ac	Test	testtest	e643fad7b145412b83859e5fd58564fb	cloud	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 = stopped
 - green = running
 - grey = created but not started
- **ID** (Ayla-assigned ID for the Access Rule)
- **OEM** (Ayla-assigned OEM ID name)
- **Description** (description of the subscription)
- **Stream Key** (Ayla-assigned stream key)
- **Client Type** (type of client)
- **Subscription Type** (type of subscription)
- **Actions** (user actions that can be applied to the subscription)

11.1.1 Create Subscription

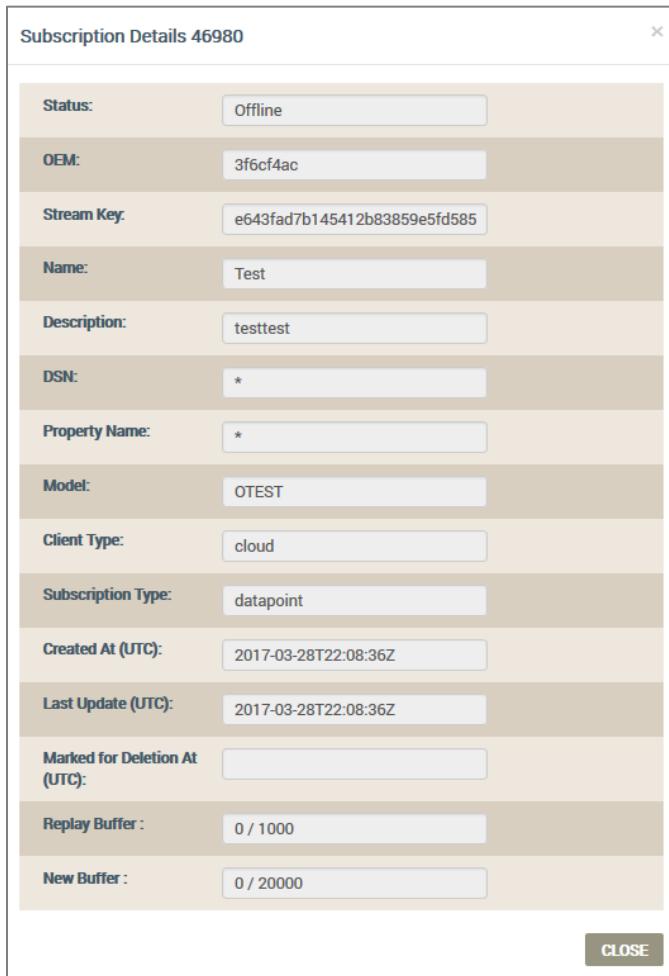
1. On the **Subscriptions** tab, click **CREATE SUBSCRIPTION**. This shows the Create Subscription dialog box.



2. Enter details:
 - **Name** (name of the subscription)
 - **Description** (details about the subscription)
 - **OEM Model** (this is the OEM model designation)
 - **DSN** (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**.

11.1.2 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:

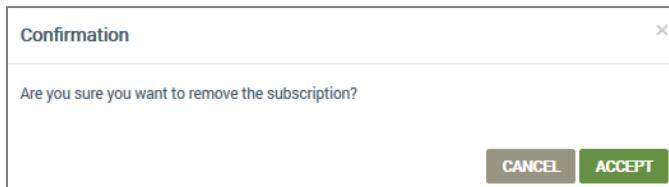
Status:	Offline
OEM:	3f6cf4ac
Stream Key:	e643fad7b145412b83859e5fd585
Name:	Test
Description:	testtest
DSN:	*
Property Name:	*
Model:	OTEST
Client Type:	cloud
Subscription Type:	datapoint
Created At (UTC):	2017-03-28T22:08:36Z
Last Update (UTC):	2017-03-28T22:08:36Z
Marked for Deletion At (UTC):	
Replay Buffer :	0 / 1000
New Buffer :	0 / 20000

At the bottom right is a "CLOSE" button.

2. Review the details.
3. When done, click **CLOSE**.

11.1.3 Delete Subscription

1. On the **Subscriptions** tab, locate the Subscription to delete.
2. Click the **Trash Can** icon. This shows the Confirmation dialog box.

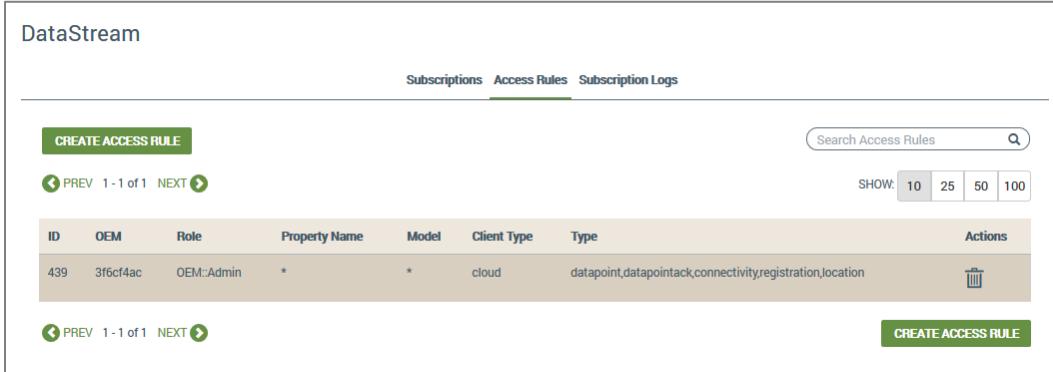


The dialog box is titled "Confirmation". It contains the message: "Are you sure you want to remove the subscription?". At the bottom are two buttons: "CANCEL" and "ACCEPT", with "ACCEPT" being highlighted.

3. Click **ACCEPT**.

11.2 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 single access rule is listed:

ID	OEM	Role	Property Name	Model	Client Type	Type	Actions
439	3f6cf4ac	OEM:Admin	*	*	cloud	datapoint,datapointack,connectivity,registration,location	

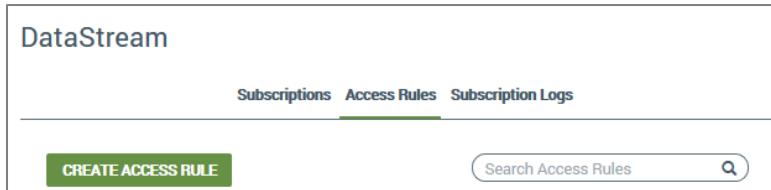
Below the table are navigation links: PREV, 1-1 of 1, NEXT, and a 'CREATE ACCESS RULE' button.

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** (OEM model name)
- **Client Type** (type of client for this Access Rule)
- **Type** (the selected event types)
- **Actions** (available actions for the Access Rule)

11.2.1 Search Access Rules

1. On the **Access Rules** tab, click in the Search Access Rules field.



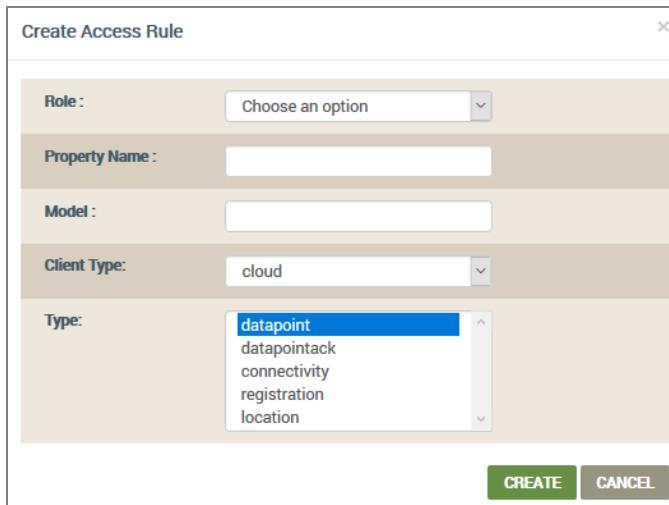
The screenshot shows the DataStream interface with the 'Access Rules' tab selected. A search bar is visible at the top right of the table area.

2. Click the **Search** icon.

Review the search results.

11.2.2 Create Access Rule

1. On the **Access Rules** tab, click **CREATE ACCESS RULE**. This shows the Create Access Rule dialog box.



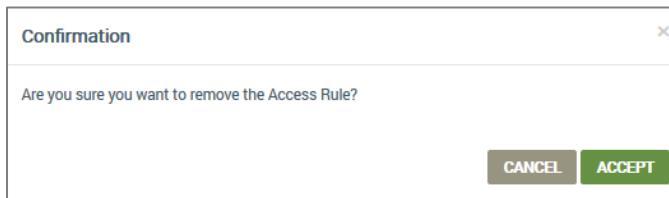
2. Enter details:
 - **Role** drop-down: (select a defined role) Roles include:
 - End User
 - Admin
 - Staff
 - **Property Name** (name of the property)
 - **Model** (the OEM model)
 - **Client Type** drop-down:
 - cloud
 - user_opt_in
 - **Type** (select one or more)
 - datapoint
 - datapointack (for generic gateway and Linux Whitebox)
 - connectivity
 - registration
 - location
3. Click **CREATE**.

The Access Rule is added to the table listing.

11.2.3 Delete Access Rule

1. On the **Access Rules** tab, locate the Access Rule to delete.

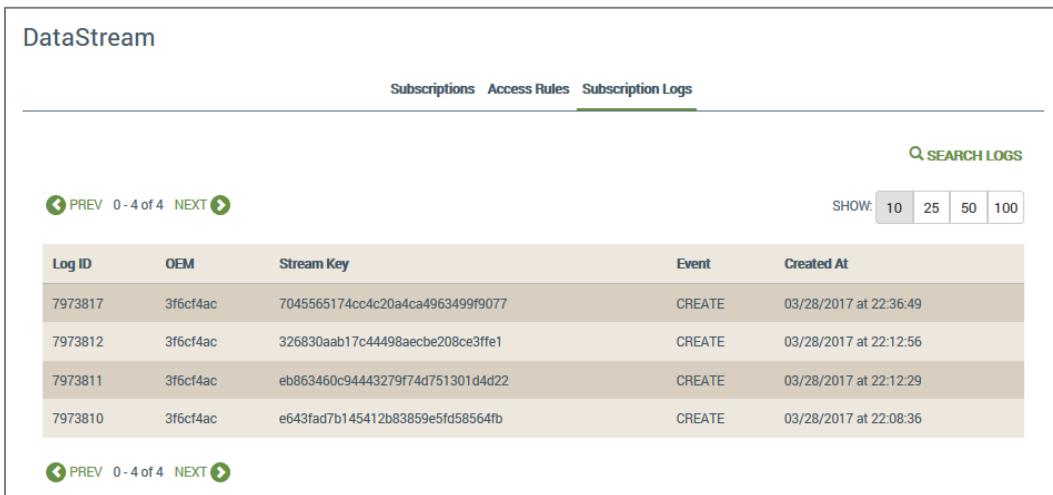
2. Click the **Trash Can** icon. This shows the Confirmation dialog box.



3. Click **ACCEPT**.

11.3 Subscription Logs

Subscription logs track activities.



The screenshot shows a table titled 'DataStream' with a header row containing 'Subscriptions', 'Access Rules', and 'Subscription Logs'. The 'Subscription Logs' tab is selected. A search bar labeled 'SEARCH LOGS' is present. Below the table, there are navigation links 'PREV' and 'NEXT' with the text '0 - 4 of 4'. A 'SHOW' dropdown menu is set to '10'.

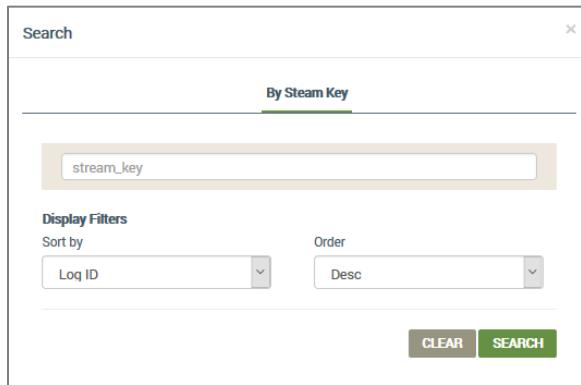
Log ID	OEM	Stream Key	Event	Created At
7973817	3f6cf4ac	7045565174cc4c20a4ca4963499f9077	CREATE	03/28/2017 at 22:36:49
7973812	3f6cf4ac	326830aab17c44498aecbe208ce3ffe1	CREATE	03/28/2017 at 22:12:56
7973811	3f6cf4ac	eb863460c94443279f74d751301d4d22	CREATE	03/28/2017 at 22:12:29
7973810	3f6cf4ac	e643fad7b145412b83859e5fd58564fb	CREATE	03/28/2017 at 22:08:36

Table listing column descriptions:

- **Log ID** (ID assigned to 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)

11.3.1 Search Subscription Logs

1. On the **Subscription Logs** tab, click **SEARCH LOGS**. This shows the Search dialog box.



The search dialog box has a title bar 'Search' with a close button 'x'. Below it is a section titled 'By Steam Key' with a text 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:

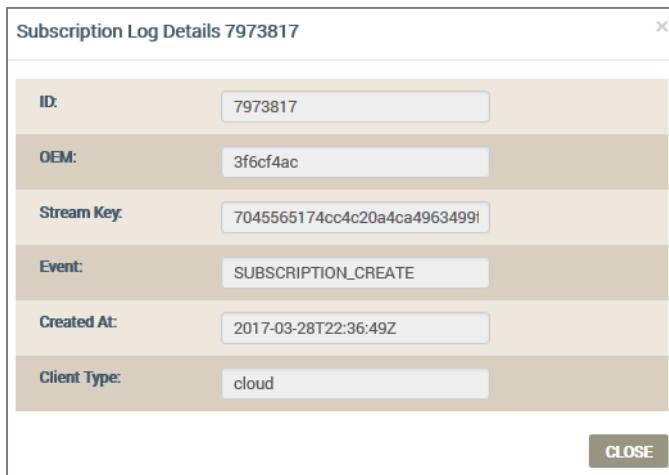
- o **Stream_key** value (can include wild cards)
- o In **Display Filters**, Sort by:
 - Log_ID
 - OEM_ID
- o In **Display Filters**, Order:
 - Asc (ascending)
 - Desc (descending)

3. Click **SEARCH**.

Review the search results.

11.3.2 Review Subscription Log

1. In the table listing, click the log. This shows the Subscription Log Details dialog box.



The dialog box is titled 'Subscription Log Details 7973817' with a close button 'x'. It contains a table with the following data:

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.

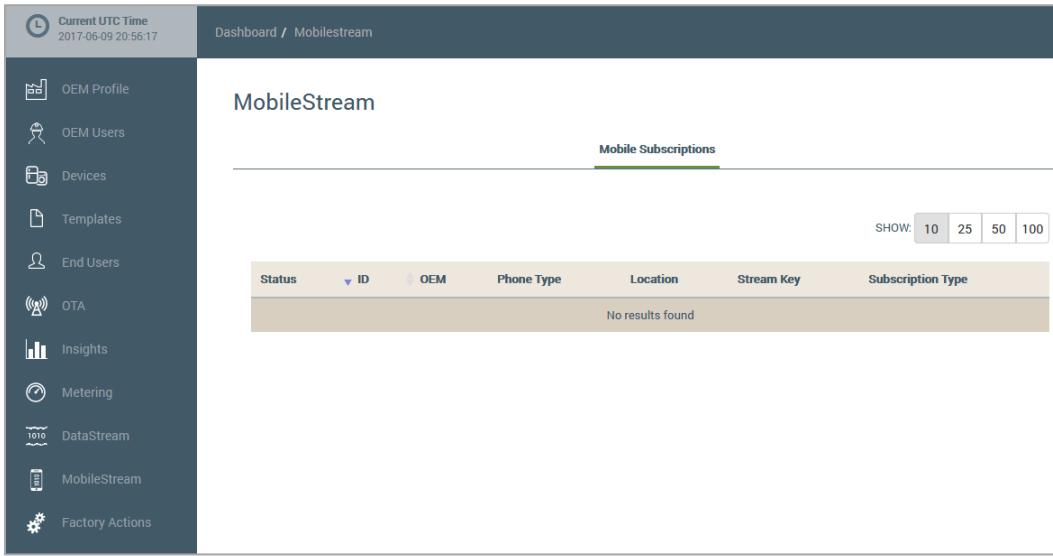
2. After review, click **CLOSE**.

12 MobileStream

This OEM Dashboard 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 - OEM Dashboard, MobileStream page



Status	ID	OEM	Phone Type	Location	Stream Key	Subscription Type
No results found						

Table columns are:

- **Status** (status of the device associated with this DSN)
- **ID** (the subscription ID)
- **OEM** (name of the OEM)
- **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)

13 Factory Actions

The Factory Actions page enables the interface between Ayla platform and the OEM manufacturing process.

The OEM 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.

13.1 Description

For general understanding, these acronyms are used:

- AFS (Ayla Factory Service)
- DSN (Device Serial Number)
- OEM (Original Equipment Manufacturer)
- ODM (Original Device Manufacturer)

13.1.1 Ayla Platform Module Categories

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 OEMs
- 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

White box is a type of Ayla-enabled module that gives the OEM control of the device function design compared to the Black-Box. However, this leads to a development effort that is significantly longer for OEMs – 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.

13.1.2 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 OEM. Table 1 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.

13.1.3 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.

These are the user roles available within the Ayla Platform:

OEM::ModuleManufacturer - can:

- Reserve the DSNs for Black Box module manufacture (click on Reserve button).
- Upload the manufacturing file (Upload Manufacture File button).

NOTE To be granted this role, the Ayla Support staff must set the Ayla Platform OEM Type to Module Manufacturer for this OEM.

- Search for already manufactured device for the selected module.

OEM::ModuleOEMManufacturer (AKA Black Box Device Manufacturer) - can:

- Upload the provisioning file (Upload Provision File button).
- Search for devices that belongs to the current OEM.

OEM::SoftwareOEMManufacturer (AKA White Box Device or Gateway Manufacturer) can:

- Reserve device for white box (Reserve button).
- Upload provisioning file (Upload Provision File button).
- Search for device belonging to the current OEM.

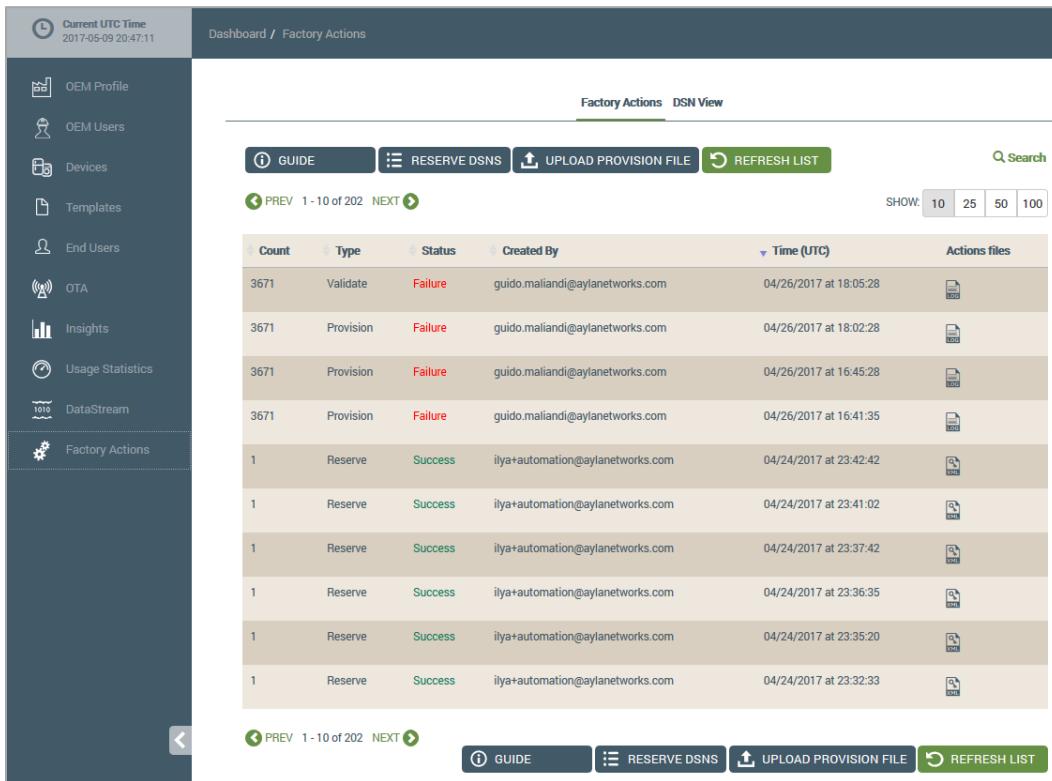
OEM::Admin - can:

- If OEM has Module Manufacturer attribute set, user with OEM::Admin role has the same access to Factory Actions as user with OEM::ModuleManufacturer role.
- If OEM does not have Module Manufacturer attribute set, user with OEM::Admin role has same access to Factory Actions as a user with OEM::ModuleOEMManufacturer or OEM::SoftwareOEMManufacturer role.

13.2 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 - OEM 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:

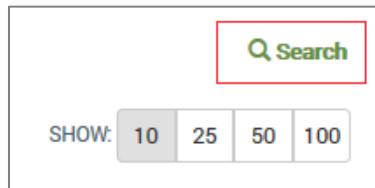
- **Count** (count of how many devices were included in the action)
- **Name** (name of the action)
- **Type** (type of action)
- **Status** (result of action)
- **Created By** (email of the individual that initiated this factory action)
- **Time (UTC)** (date/time the factory action was started)
- **Actions** (user action for this factory action)

Button descriptions:

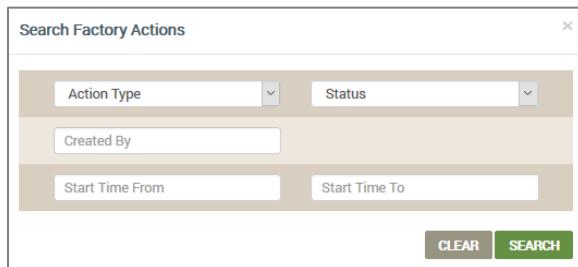
- **GUIDE** (displays Factory Actions Guide dialog box with button descriptions)
- **RESERVE DSNS** (reserve a set of DSNs for manufacturing)
- Context (based on user role), one of these buttons will display:
 - **UPLOAD PROVISION FILE** (upload the device details set during the Manufacturing process at a Module Manufacturer OEM's site)
 - **UPLOAD MANUFACTURING FILE** (upload device details set during the Provisioning process at an OEM Manufacturer's site)
- **REFRESH LIST** – refreshes table listing with the latest details

13.2.1 Search Factory Actions

1. On the Factory Actions page, click the **Search** icon.



2. On the Search Factory Actions dialog box:



- o Select **Action Type** drop-down:
 - Reserve
 - Manufacture (or Provision – depends on User Role)
 - Provision
 - o Select **Status** drop-down:
 - Success
 - Failure
 - o In **Created By**, enter email
 - o Click in **Start Time From** and select the begin date range.
 - o Click in **Start Time To** and select the end date range.
3. Click **SEARCH**.

13.2.2 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 will be shown in the DSN View tab.

Factory Actions DSN View					
Viewing devices by factory action: Reserve 05/23/2017 at 19:53 X				REFRESH LIST Search	
PREV 1 - 3 of 3 NEXT				SHOW: 10 25 50 100	
DSN	Mac Address	Status	Manufacturer Model	OEM Model	Ayla Model
AC000W002494658		Reserved			AY001MRT1
AC000W002494659		Reserved			AY001MRT1
AC000W002494660		Reserved			AY001MRT1
PREV 1 - 3 of 3 NEXT				REFRESH LIST	

2. In the table listing, click the item to display Device dialog box.

Includes latest Factory Action data for that DSN/device.

Device:	
DSN	AC000W002494658
Status	Reserved
Mac Address	
Manufacturer Model	
ODM	
Manufacturer SN	
Hardware Signature	Model SW Version
OEM Model	OEM Host Version
Reserved	05/23/2017 at 19:53:58 (UTC)
Manufactured	
Provisioned	
Action Status	
Date	Name
05/23/17 19:53:58	Reserve
	Status
	Message
	Success
VIEW JOBS CLOSE	

13.2.3 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 OEM. The White Box uses a Linux distribution of the OEM's choice.

The steps for DSN reservations are listed below.

1. Click **RESERVE DSNS**. This shows Reserve Devices dialog box.



2. Select from the **Model** drop-down list.
3. Directly enter (or use up-down arrows to select the quantity).
4. Click **SUBMIT**.
5. For each device, this generates:
 - o Device serial number (DSN)
 - o Private/public private key pair (authenticates device with cloud service).
6. When the job is completed, the Success banner is displayed on the user interface.
7. 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.

13.2.4 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	 XML
5	Manufacture	Failure	myron@aylanetworks.com	05/03/2017 at 23:22:44	 CSV  LOG

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----
MIIBCgKCAQEAhBpN9O+W00vloo72pbG0tv1/QNOieiUddeNAA5b1S0zizsq/Khoe5N
Yp1+zGDNDm
nBzQHYQUMRISaSXQivE14/krs9h+PCvP6bETgaYLFxWhgpz0ZzjVxaz15HmKsiqwcn
4UslcJLdQh
00UyPaQD20D8hsHqZNpJFA7e4fyze1sK7/loa026uStySaU9+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.

13.2.5 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 (Ayla’s model string)
- DSN (Ayla’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 displays 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.

13.2.6 Upload Provision File

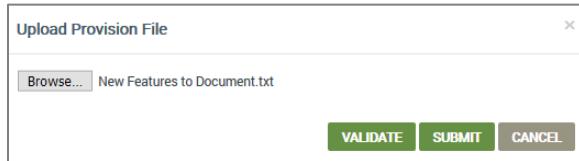
This is available to all OEMS except module manufacturers.

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 (Ayla's model string)
- DSN (Ayla'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 OEM)
- 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.

13.3 DSN View tab

On the DSN View tab, the status of the displayed DSNs can be viewed.

DSN View						
Factory Actions		DSN View				
 REFRESH LIST		 Search				
 PREV		1 - 10 of 22510				
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	c25CacDcbd5C	Provisioned	mfg_model_D00yD	zigbee1	AY001MRT1	
TEST00W000424507	e23Db1B8eAE0	Provisioned	mfg_model_suJQP	zigbee1	AY001MRT1	
TEST00W000424506	0bAb13eE4b52	Provisioned	mfg_model_WEAvk	zigbee1	AY001MRT1	

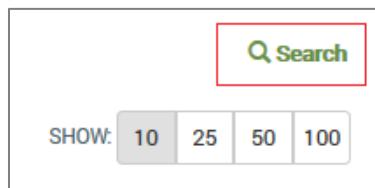
Table columns are:

- **DSN** (Ayla-provided Device Serial Number)

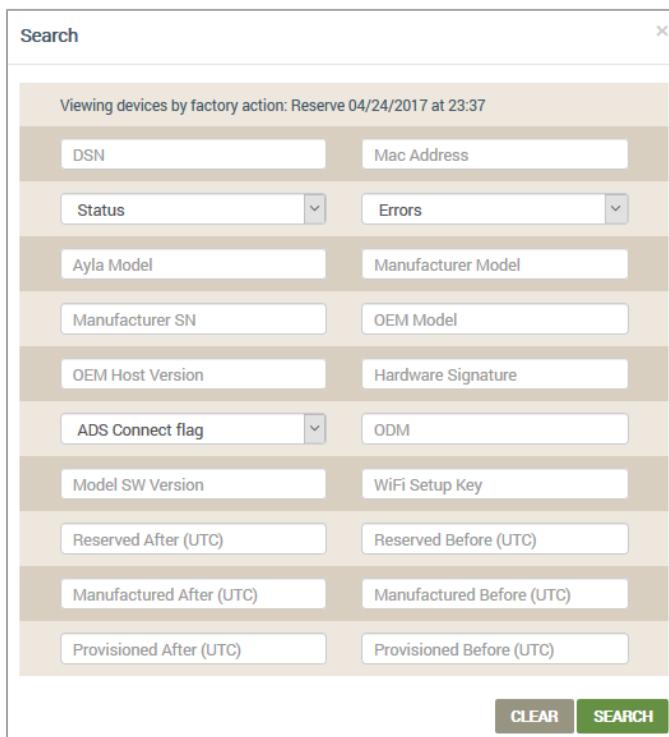
- **Mac Address** (IP MAC address of the device associated with this DSN)
- **Status** (status of the device associated with this DSN)
- **Manufacturer Model** (Manufacturer's model of the device associated with this DSN)
- **OEM Model** (OEM model name for the device associated with this DSN)
- **Ayla Model** (Ayla model name for this device associated with the DSN)

13.3.1 Search DSNs

1. On the DSN View tab, click the **Search** icon.



2. On the Search dialog box, enter appropriate details:


 A screenshot of the 'Search' dialog box. The title bar says 'Search'. The main area contains 14 search fields arranged in a grid. The fields are grouped into pairs: DSN, Mac Address; Status, Errors; Ayla Model, Manufacturer Model; Manufacturer SN, OEM Model; OEM Host Version, Hardware Signature; ADS Connect flag, ODM; Model SW Version, WiFi Setup Key; Reserved After (UTC), Reserved Before (UTC); Manufactured After (UTC), Manufactured Before (UTC); Provisioned After (UTC), Provisioned Before (UTC). At the bottom are two buttons: 'CLEAR' and 'SEARCH' (in green).

- **DSN** (name – 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** (Ayla model name)
 - **Manufacturer Model** (manufacturer model name)
 - **Manufacturer SN** (manufacturer serial number)
 - **OEM Model** (OEM model name)
 - **OEM Host Version** (OEM 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.

13.3.2 View Device Details

1. In the **DNS View** tab, table listing, click on an item. This displays the Device dialog box.

Device: X

DSN	TEST00W000111769								
Status	Reserved								
Mac Address									
Manufacturer Model									
ODM									
Manufacturer SN									
Hardware Signature	Model SW Version								
OEM Model	OEM Host Version								
Reserved	04/24/2017 at 23:42:45 (UTC)								
Manufactured									
Provisioned									
Action Status									
<table border="1"> <thead> <tr> <th>Date</th> <th>Name</th> <th>Status</th> <th>Message</th> </tr> </thead> <tbody> <tr> <td>04/24/17 23:42:45</td> <td>Reserve</td> <td>Success</td> <td></td> </tr> </tbody> </table>		Date	Name	Status	Message	04/24/17 23:42:45	Reserve	Success	
Date	Name	Status	Message						
04/24/17 23:42:45	Reserve	Success							

VIEW JOBS
CLOSE

2. To see the Jobs on this device, click **VIEW JOBS**.
 - o Factory Actions tab shows a list of jobs for the device.

Factory Actions DSN View

GUIDE
RESERVE DSNS
UPLOAD PROVISION FILE
REFRESH LIST

Search

 Viewing factory actions by DSN: TEST00W000100851 X

PREV
1-1 of 1
NEXT

Count	Type	Status	Created By	Time (UTC)	Actions files
1	Reserve	Success	pablo@aylanetworks.com	03/30/2017 at 15:31:58	

PREV
1-1 of 1
NEXT

GUIDE
RESERVE DSNS
UPLOAD PROVISION FILE
REFRESH LIST

- DSN View tab shows related DSNs. DSNs can be clicked to show Device dialog box.



The screenshot shows the 'DSN View' tab of the Ayla OEM Dashboard. The interface includes a header with 'Factory Actions' and 'DSN View' buttons, a search bar, and a list of device details. The list table has columns for DSN, Mac Address, Status, Manufacturer Model, OEM Model, and Ayla Model. A single row is displayed with the DSN 'TEST00W000111769', Status 'Reserved', and Ayla Model 'AylaTest'. Navigation buttons for 'REFRESH LIST', 'PREV', 'NEXT', and 'REFRESH LIST' are visible at the top and bottom of the list area.

DSN	Mac Address	Status	Manufacturer Model	OEM Model	Ayla Model
TEST00W000111769		Reserved			AylaTest

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

Host MCU

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

OEM Dashboard for Developers

This is the environment for OEMS to develop the interface between the Ayla Platform and their products.

OEM Dashboard for Field

This is the environment for OEM's 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.