

Ayla Developer Portal User's Guide



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1 Introduction

The Ayla Developer Portal is a UI-driven application environment that provides all of the tools required for our customers and developer partners to design and develop their connected products – there is no software development kit or coding required in the Ayla Cloud. The portal's primary use is in the definition and design of virtualizing a customer's connected product in the Ayla Cloud.

The Ayla Developer Portal provides tools to define templates and properties exported from the devices as well as the means to manage device-specific information. This includes features to set and get properties on the device remotely, thereby greatly enhancing the ability to perform simple tests during the development phases.

All configurations for the final product can be defined and fully tested before being deployed to field units. There are tools to create and apply rules and decision logic to devices for development and testing purposes. This includes testing of the OTA update deployment process on devices. Some of the main feature of the portal are as follows:

- Register new devices.
- View and configure a device.
- Design and customize a device.
- Browse and test Ayla's RESTful APIs in our API Browser to significantly reduce a developer's ramp-up time. The API Browser provides live, accurate, fully detailed input and output to users.

NOTE The Ayla Developer Portal is available in both the US and China Ayla Cloud Services.

1.1 About this Document

This document provides information on how to use the Ayla Developer Portal to manage and configure your Ayla Connected products.

1.2 Intended Audience

This document is written for all users of the Ayla Developer Portal. However, not all users have access to all views. You may find that you do not have access to some of the views described in this document. Access is determined by your company's policies. See page 46 for more information about roles and access.

1.3 Related Documentation

Refer to Ayla Customer Dashboard User's Guide (AY006UDB3) available on support.aylanetworks.com for additional information related to the content in this guide.

1.4 Document Conventions

This document follows these Ayla documentation conventions:

- Ancillary information that is important to emphasize is shown as:

NOTE The commands provided in the example assume your evaluation board is `mw300_rd` and your chip is `mw300`. If otherwise, make the appropriate substitutions.

- Information on system failures or hazards that could damage a product, including data loss, is shown as:



Make sure that the appropriate data buffering is accounted for in deployed devices, especially where the loss of data is critical to the core functionality or the services provided by the systems.

1.5 Abbreviations and Acronyms

Abbreviations and acronyms used in this document are as follows:

OTA	Over the Air
AWS	Amazon Web Services
JSON	JavaScript Object Notation
MCU	Microcontroller unit

2 Access the Ayla Developer Portal

The Ayla Developer Portal is available to customers and developer partners as a place to view users, devices, templates, and other information that requires review and updates.

This section provides steps on all actions needed to access the Ayla Developer Portal.

Depending on the global region, use the appropriate regional Developer Portal URL below.

- US & EU: <https://developer.aylanetworks.com/>
- CN: <https://developer.ayla.com.cn/>

2.1 Register for Developer Account

1. To sign up for a Developer account, navigate to your regional Developer Portal.

NOTE US & EU: <https://developer.aylanetworks.com/>

CN: <https://developer.ayla.com.cn/>

2. Click **SIGN UP**, as shown in Figure 1.

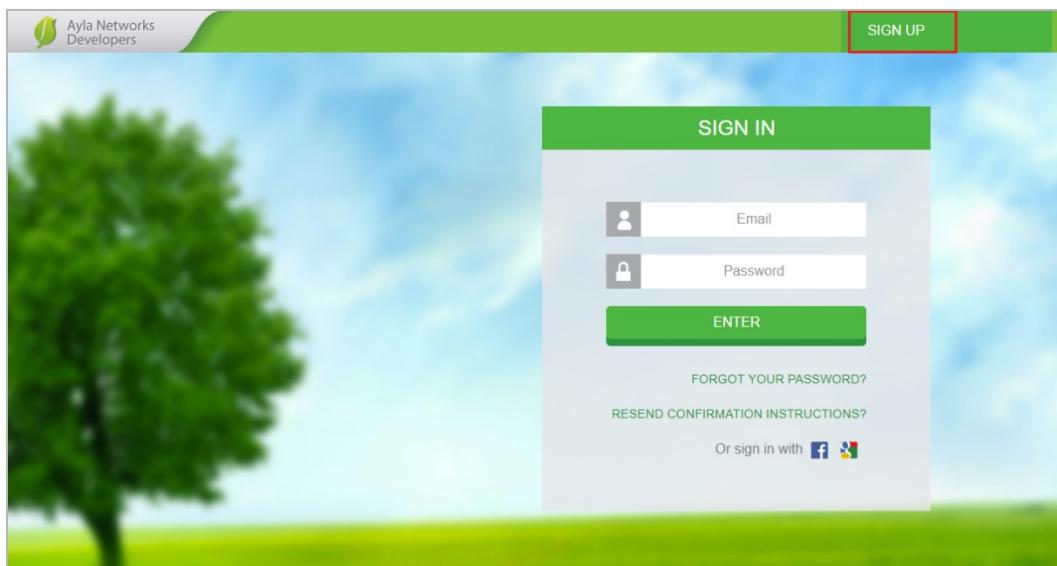
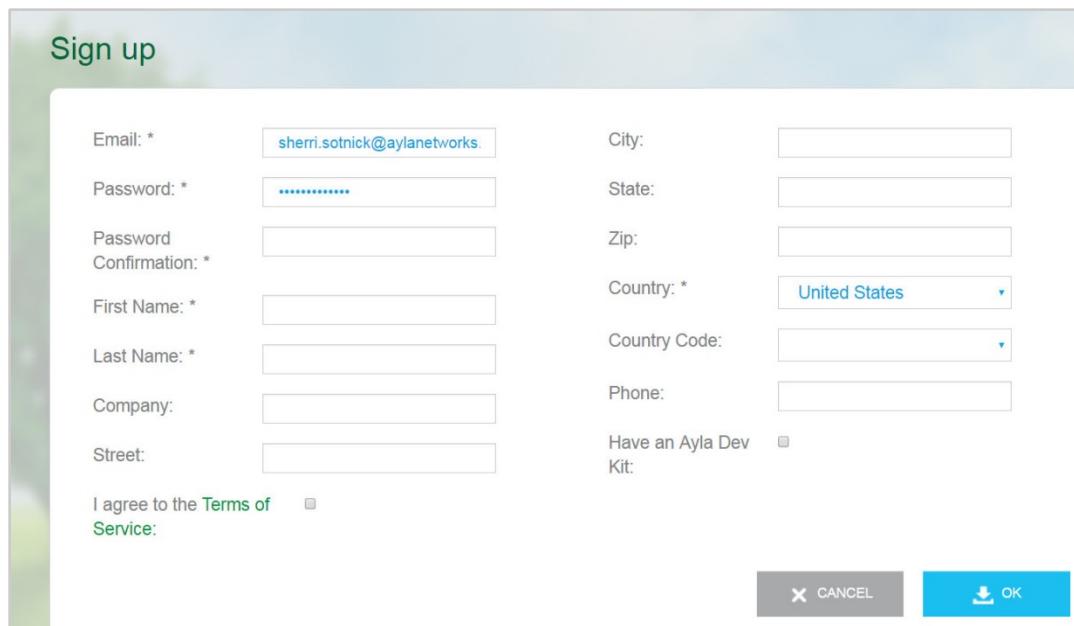


Figure 1: Sign-in Page for the Ayla Developer Portal

3. On the **SIGN IN** dialog box, enter the details:



Sign up

Email: *

Password: *

Password Confirmation: *

First Name: *

Last Name: *

Company:

Street:

City:

State:

Zip:

Country: *

Country Code:

Phone:

Have an Ayla Dev Kit:

I agree to the [Terms of Service](#)

Figure 2: The Sign up Page

- Email / Password / Password Confirmation
 - First Name / Last Name
 - Company
 - Street, City, State, Zip, Country
 - Country Code, Phone
4. Select the checkbox for **Have an Ayla Dev Kit** if you already have one, and then enter the **Ayla Platform Dev Kit** number in the field that displays.
 5. Select the checkbox for **I agree to the Terms of Service**. (Click the Terms of Service link to review the terms.)
 6. Click **OK** to complete the registration process. A confirmation email is sent to the email address you entered on the Sign up page.

7. Click the link in the email to create an account in the Developer Center.

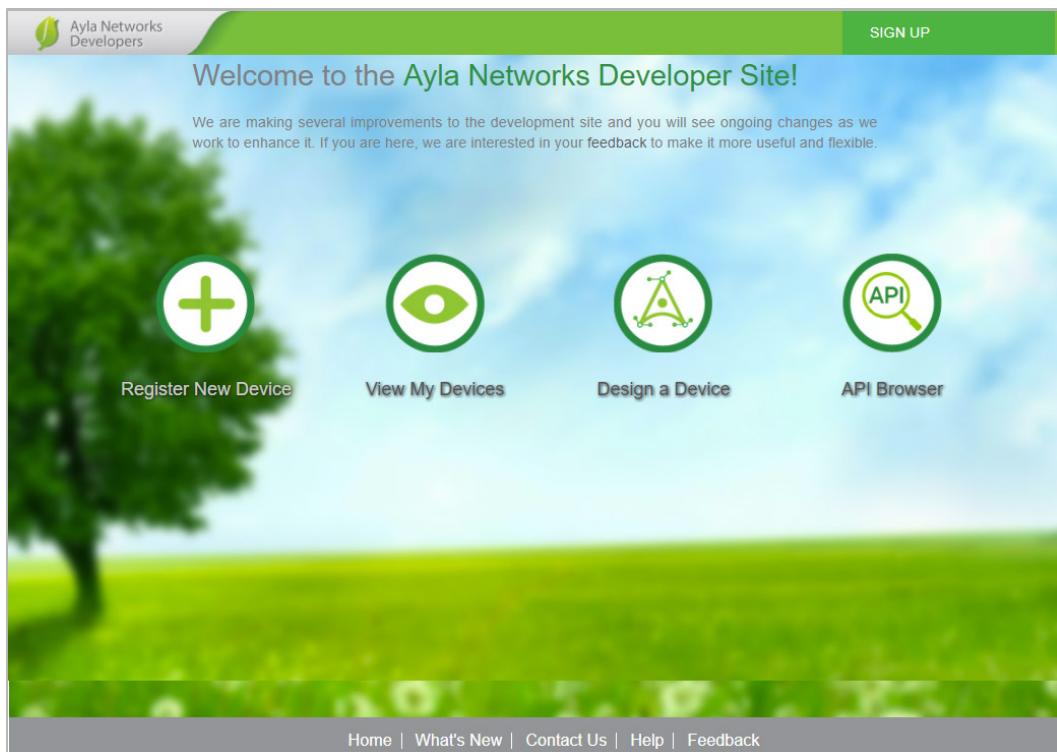
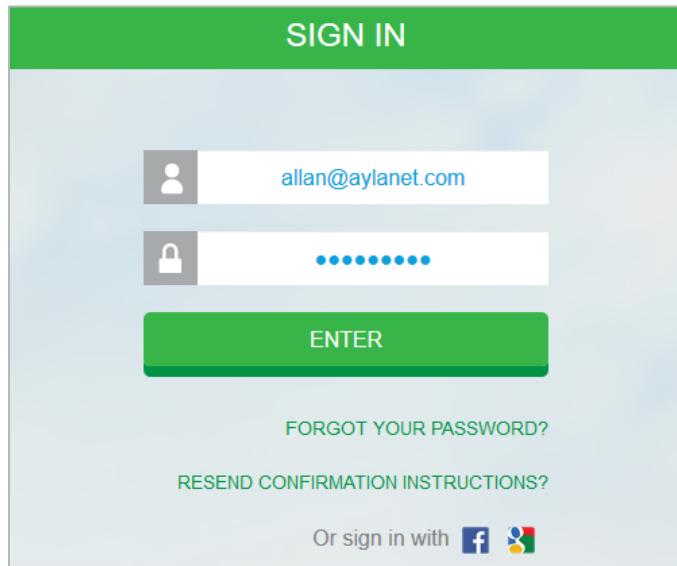


Figure 3: Home Page of the Ayla Developer Portal

2.2 Log In

2.2.1 Standard Log In

1. Go to the URL for your region (US, EU, CN). This displays the Sign In dialog box.



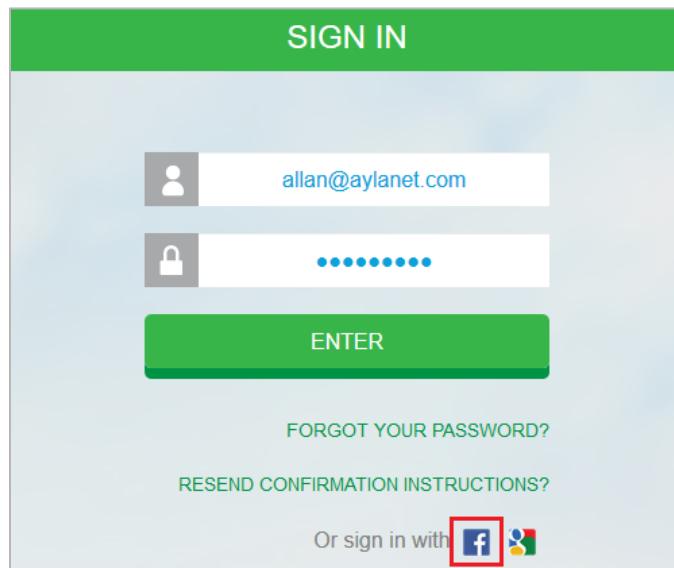
2. Enter **Username**.
3. Enter **Password** (8 to 120 characters, one upper case letter, one lower case letter, one number)
4. Click **ENTER**.

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

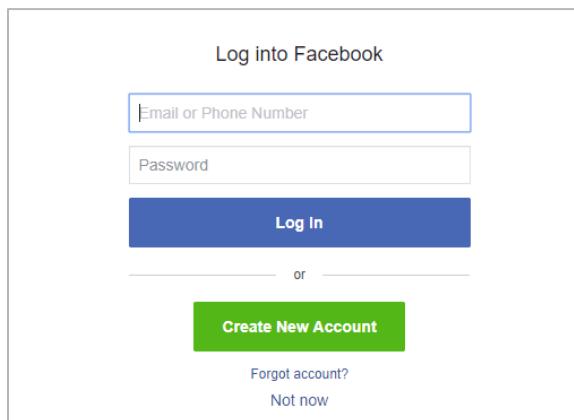
Any attempts (login or password reset) are blocked during the 30-minute period. (This 30-minute time period is not extended, regardless of any attempts during the lockout period.)

2.2.2 Login with Facebook

1. On the Login dialog box, click the Facebook logo.



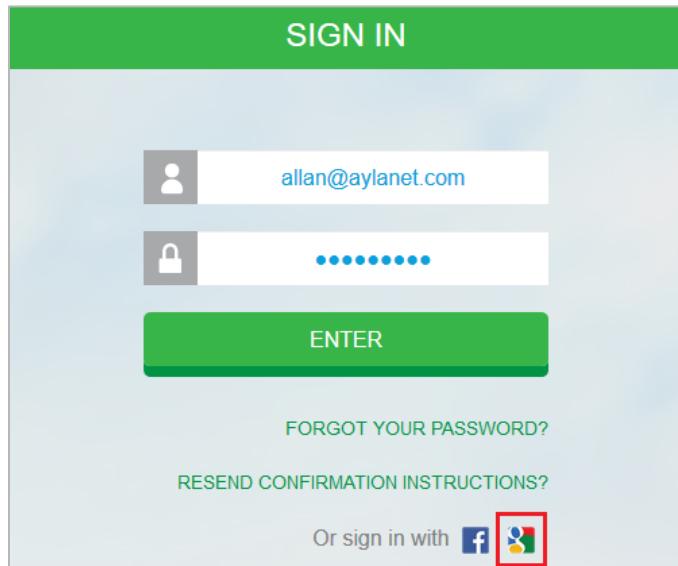
2. In the dialog box, enter the Facebook credentials and login.



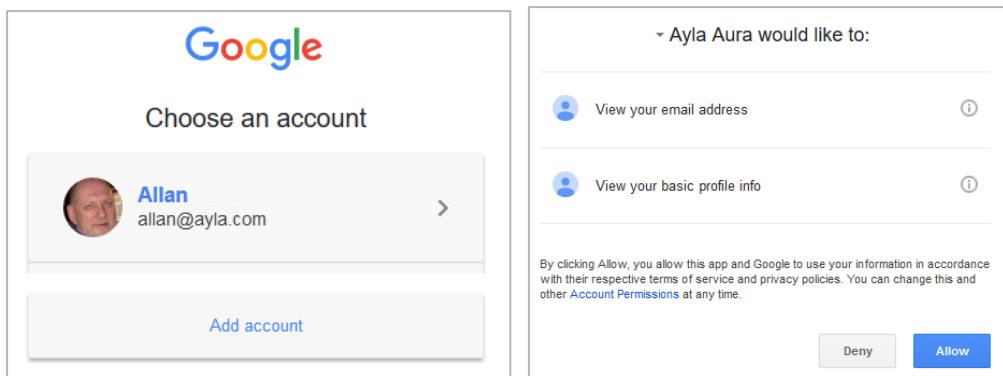
This logs in the user to the Developer Portal.

2.2.3 Login with Google

1. On the Login dialog box, click the Google logo.



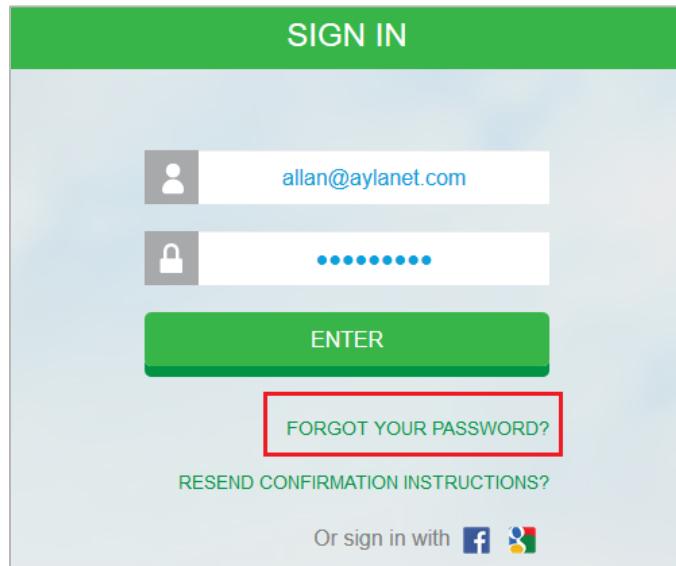
2. Click the right-arrow to confirm the Google log-in process. Click **Allow** to proceed.



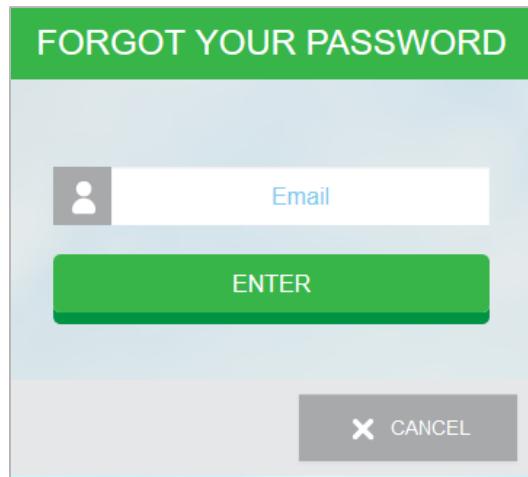
This logs in the user to the Developer Portal.

2.2.5 Forgot Password

1. If you need to recover your login password, click **FORGOT YOUR PASSWORD**.



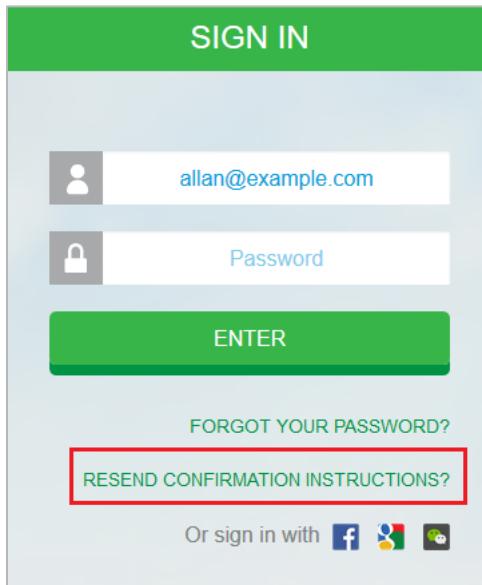
2. On the dialog box, enter your **Email**, and then click **ENTER**.



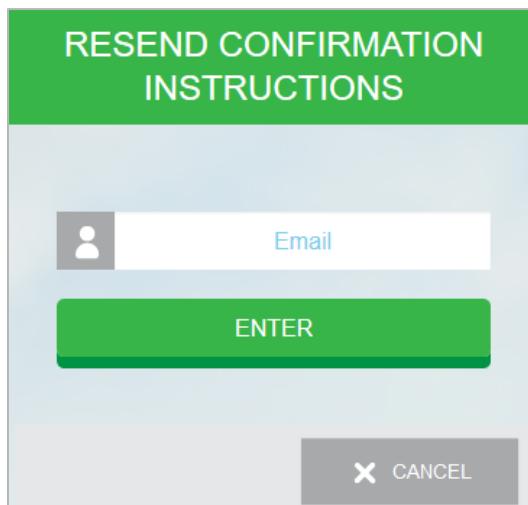
You receive an email to log in to the Developer Portal.

2.2.6 Resend Confirmation Instructions

1. If you need the credentials, click **RESEND CONFIRMATION INSTRUCTIONS**.



2. On the dialog box, enter your **Email** and click **ENTER**.



You receive an email with the original credentials.

2.3 Update Profile

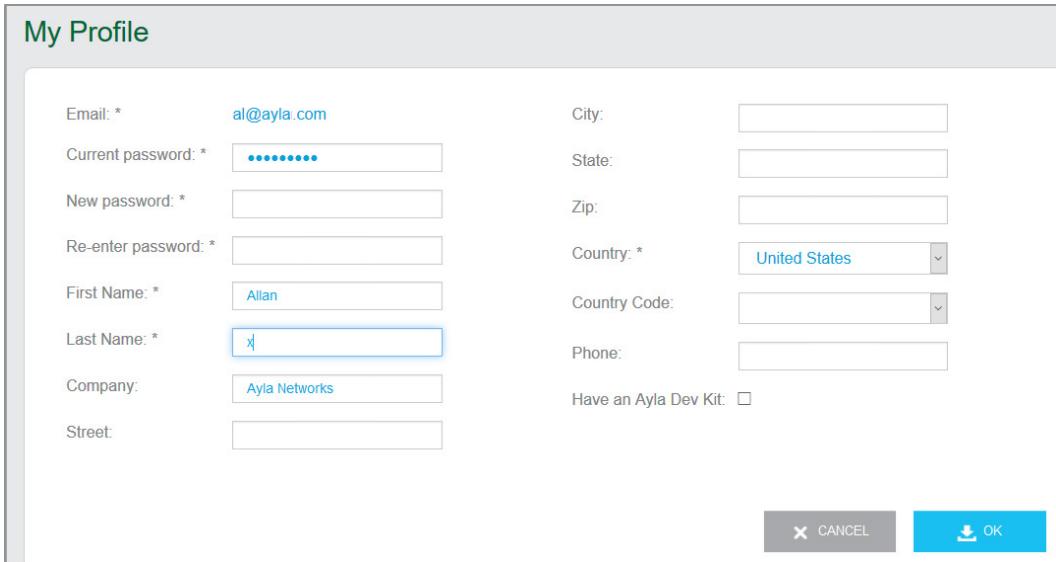
On a successful login, the Ayla Developer Center home page displays.



1. Place your mouse cursor over the person icon. In the drop-down, click **My Profile**.



2. On the My Profile page, make changes as needed.



The screenshot shows the 'My Profile' page with the following data entered:

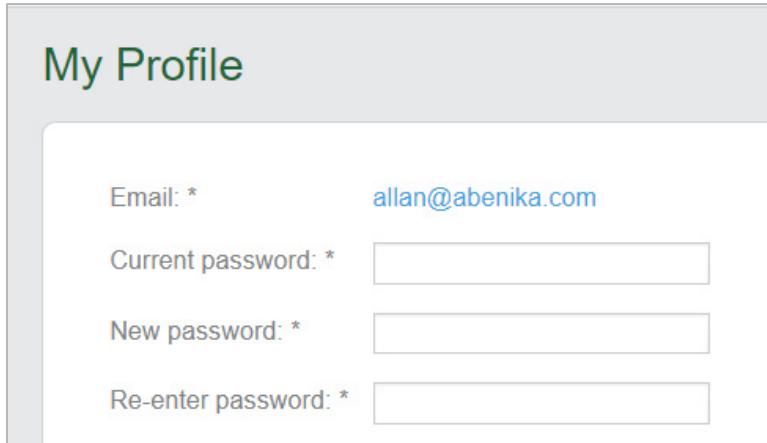
Email: *	al@ayla.com	City:	
Current password: *	*****	State:	
New password: *		Zip:	
Re-enter password: *		Country: *	United States
First Name: *	Allan	Country Code:	
Last Name: *	X	Phone:	
Company:	Ayla Networks	Have an Ayla Dev Kit: <input type="checkbox"/>	
Street:			

At the bottom are two buttons: 'CANCEL' with a red 'X' icon and 'OK' with a blue checkmark icon.

3. When done, click **OK**.

2.3.1 Change Password

1. On the My Profile page, enter your Current Password.



The screenshot shows the 'My Profile' page with the following fields:

Email: *	allan@abenika.com
Current password: *	
New password: *	
Re-enter password: *	

2. Enter the **New Password** (must include one capital letter, one lower case letter, and one number.)
3. In **Re-enter password**, enter the new password again.
4. Click **OK**.

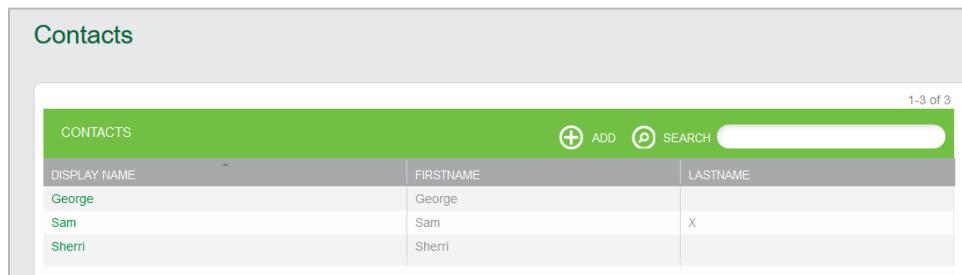
2.4 Manage Contacts

The Contacts page include individuals that are necessary or helpful.

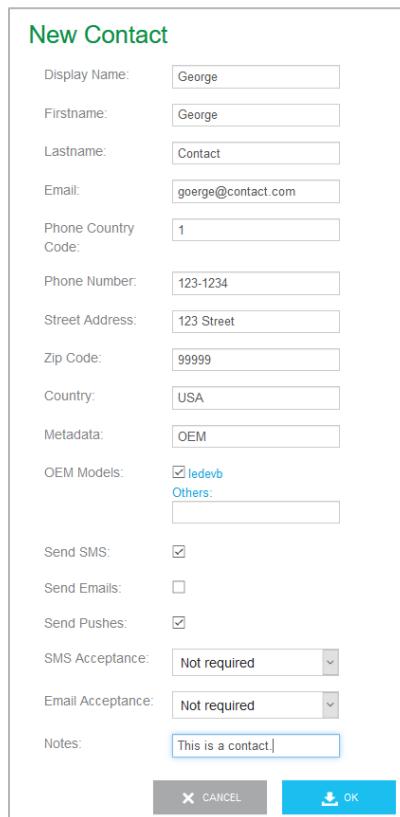
1. To update contacts, on the Developer Center home page, place your mouse cursor over the person icon and click **Contacts**.



The Contacts page contains current contacts.



2. Click **ADD** to display the Contact dialog box. Enter details and click **OK**.



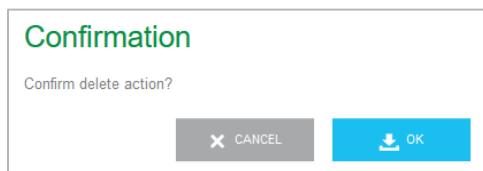
3. To change a Contact's details, on the Contact table listing, click the **Display Name**. On the dialog box, make updates, and click **OK**.

4. To delete a Contact, click on the row and click **DELETE**.



CONTACTS		
DISPLAY NAME	FIRSTNAME	LASTNAME
George	George	
Sam	Sam	X
Sherri	Sherri	

5. On the Confirmation dialog box, click **OK**.



2.5 Logout/Exit Developer Center

There are two ways to leave the Developer Center:

- To exit Developer Center, you can simply close the browser window.
- To log out from the Developer Center, hover over the person icon and click **Logout**.



3 Developer Center Navigation

After login, you are on the Developer Center Home page. In the main panel, there are four functional options:



- Register New Devices
- View My Devices
- Design a Device
- API Browser

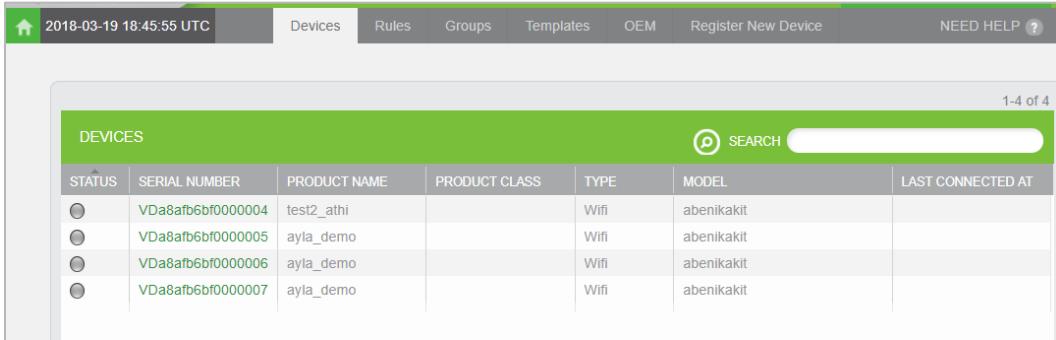
3.1 About Register New Devices

See [Register a New Device](#)

3.2 About View My Devices

See [Device Configuration Details](#)

Click the home page **View My Devices** link to display the Devices tab with table listing of devices.



The screenshot shows the Ayla Developer Portal interface. At the top, there is a navigation bar with a house icon, the date and time (2018-03-19 18:45:55 UTC), and tabs for Devices, Rules, Groups, Templates, OEM, and Register New Device. A 'NEED HELP?' link is also present. Below the navigation bar is a search bar with a magnifying glass icon and the text 'SEARCH'. The main content area is titled 'DEVICES' and displays a table with 4 rows of data. The columns are: STATUS, SERIAL NUMBER, PRODUCT NAME, PRODUCT CLASS, TYPE, MODEL, and LAST CONNECTED AT. The data in the table is as follows:

STATUS	SERIAL NUMBER	PRODUCT NAME	PRODUCT CLASS	TYPE	MODEL	LAST CONNECTED AT
●	VDa8afb6bf0000004	test2_athi		Wifi	abenikakit	
●	VDa8afb6bf0000005	ayla_demo		Wifi	abenikakit	
●	VDa8afb6bf0000006	ayla_demo		Wifi	abenikakit	
●	VDa8afb6bf0000007	ayla_demo		Wifi	abenikakit	

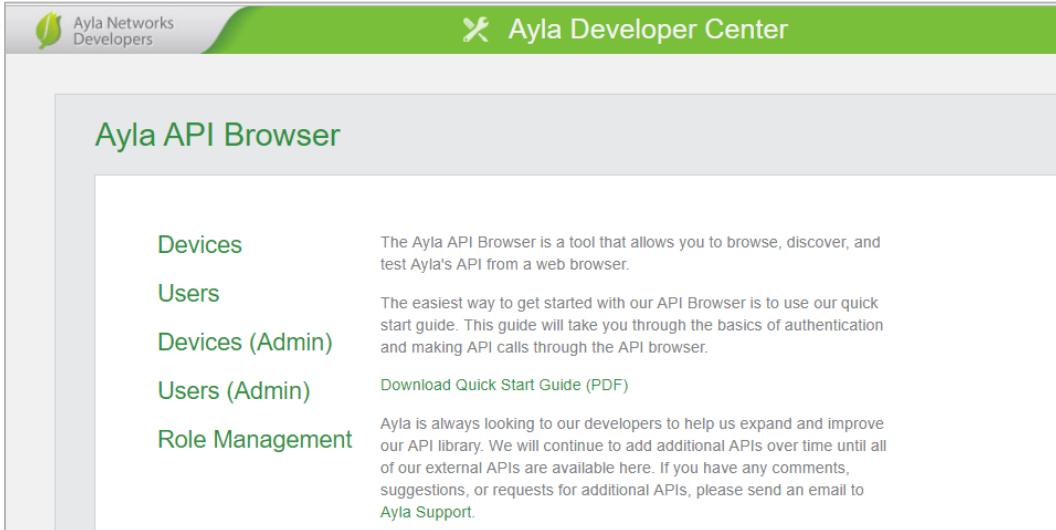
At the bottom right of the table area, it says '1-4 of 4'.

3.3 About Design a Device

This displays the [Templates](#) tab where you create and update device templates.

3.4 About API Brower

1. Click the home page **API Brower** link to display the Ayla API Brower page.



The screenshot shows the Ayla API Brower page. At the top, there is a header with the Ayla Networks Developers logo and the text 'Ayla Developer Center'. The main content area is titled 'Ayla API Brower'. On the left, there is a sidebar with navigation links: 'Devices', 'Users', 'Devices (Admin)', 'Users (Admin)', and 'Role Management'. On the right, there is a main content area with the following text and links:

Devices
The Ayla API Brower is a tool that allows you to browse, discover, and test Ayla's API from a web browser.

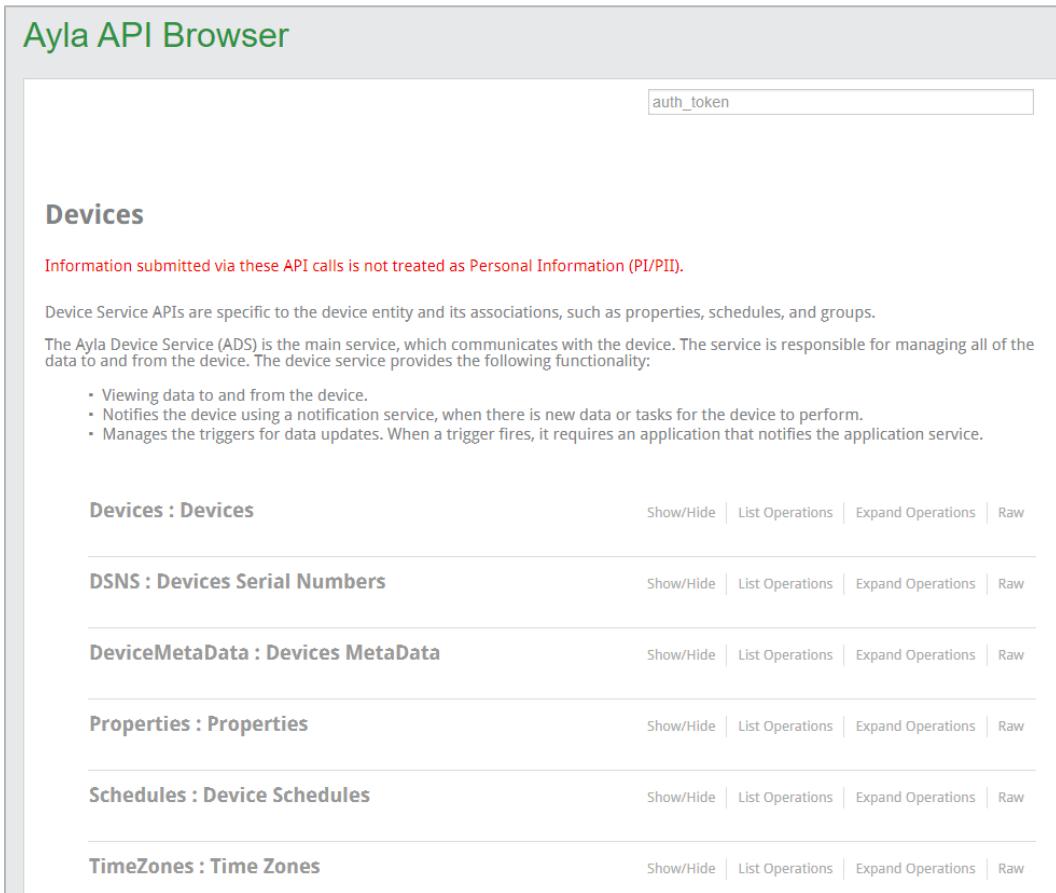
Users
The easiest way to get started with our API Brower is to use our quick start guide. This guide will take you through the basics of authentication and making API calls through the API brower.

Devices (Admin)
[Download Quick Start Guide \(PDF\)](#)

Users (Admin)
Ayla is always looking to our developers to help us expand and improve our API library. We will continue to add additional APIs over time until all of our external APIs are available here. If you have any comments, suggestions, or requests for additional APIs, please send an email to [Ayla Support](#).

2. If this is the first time using the Ayla API Brower, click the [Download Quick Start Guide \(PDF\)](#) link.
3. Review the following navigation options on this page:

- o Devices – opens this page



The screenshot shows the Ayla API Browser interface. At the top, there is a search bar labeled "auth_token". Below the search bar, the title "Devices" is displayed in a bold, dark gray font. A red note below the title states: "Information submitted via these API calls is not treated as Personal Information (PI/PII)." Below the note, a sub-section title "Devices : Devices" is shown, followed by a row of buttons: "Show/Hide", "List Operations", "Expand Operations", and "Raw". The main content area lists several API endpoints under the "Devices" category, each with its own "Show/Hide", "List Operations", "Expand Operations", and "Raw" buttons. The listed endpoints are: "DSNS : Devices Serial Numbers", "DeviceMetaData : Devices MetaData", "Properties : Properties", "Schedules : Device Schedules", and "TimeZones : Time Zones".

- Users – opens this page

Ayla API Browser

auth_token

Users

Information submitted (typically a PUT call) via these APIs is treated as Personal Information (PI/PII), and encrypted-at-rest.

This section covers APIs specific to the user account management.

Several of these APIs initiate an email to the user signed in to the Ayla User Service account. You can upload a customized email template to the Ayla User Service through the OEM dashboard.

API Category	Operations
Users : APIs specific to the user account	Show/Hide List Operations Expand Operations Raw
UserMetaData : User MetaData	Show/Hide List Operations Expand Operations Raw
Share : Share	Show/Hide List Operations Expand Operations Raw
Contacts : User Contacts	Show/Hide List Operations Expand Operations Raw
UserLinks : Linked User Accounts	Show/Hide List Operations Expand Operations Raw

- Devices (Admin) – opens this page:

Ayla API Browser

auth_token

Admin APIs of Device

Information submitted via these API calls is not treated as Personal Information (PI/PII).

This API doc demonstrates RESTful operations of Device for Admin Users.

API Category	Operations
Devices : Admin APIs of Device	Show/Hide List Operations Expand Operations Raw
Notifications : Admin APIs of Notifications	Show/Hide List Operations Expand Operations Raw
Address : Admin APIs of Device Address	Show/Hide List Operations Expand Operations Raw
Triggers : Device Trigger APIs	Show/Hide List Operations Expand Operations Raw

- Users (Admin) – opens this page:

Ayla API Browser

auth_token

Admin APIs of Users

Information submitted (typically a PUT call) via these APIs is treated as Personal Information (PI/PII), and encrypted-at-rest.

This API doc demonstrates RESTful operations of Users for Admin Users.

API Endpoint	Action	Action	Action	Action
Users : Admin APIs of Users	Show/Hide	List Operations	Expand Operations	Raw
UserMetaData : Admin APIs of User MetaData	Show/Hide	List Operations	Expand Operations	Raw
Shares : Admin APIs of Shares	Show/Hide	List Operations	Expand Operations	Raw
Contacts : Admin APIs for User Contacts	Show/Hide	List Operations	Expand Operations	Raw
SSO : Single Sign On	Show/Hide	List Operations	Expand Operations	Raw

- Role Management – opens this page:

Ayla API Browser

auth_token

Role Management APIs

This API doc demonstrates RESTful operations of the Role Management system.

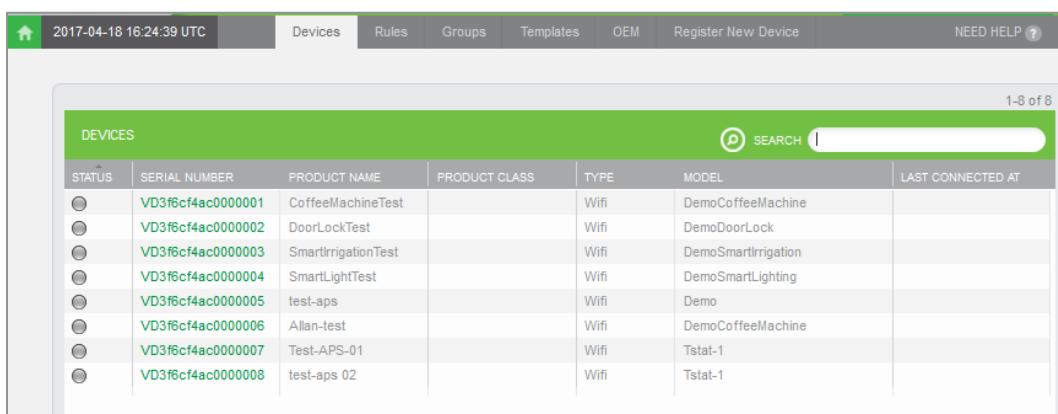
API Endpoint	Action	Action	Action	Action
UserRoleManagement : User Role Management APIs	Show/Hide	List Operations	Expand Operations	Raw
AdminUserRoleManagement : Admin User Role Management APIs	Show/Hide	List Operations	Expand Operations	Raw
DeviceRoleManagement : Device Role Management APIs	Show/Hide	List Operations	Expand Operations	Raw
AdminDeviceRoleManagement : Admin Device Role Management APIs	Show/Hide	List Operations	Expand Operations	Raw

4 Devices

You can use the Devices section to manage device configurations. On the home page, click the **View My Devices** icon.



On the Device tab, the table listing shows all available devices.



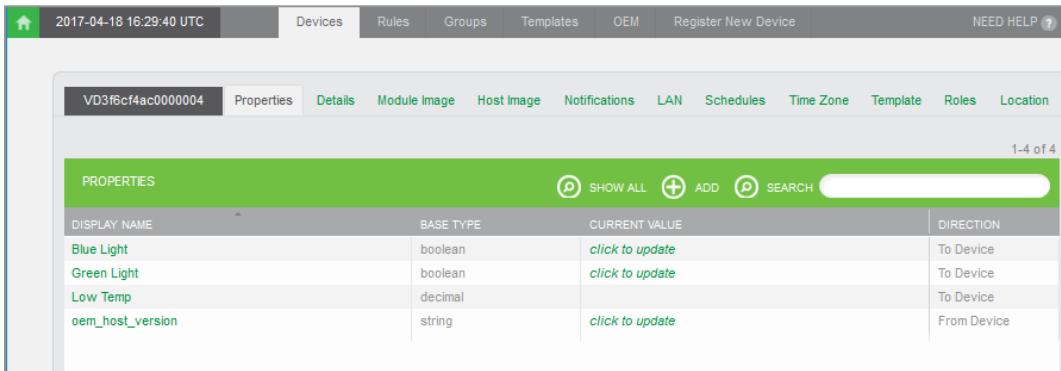
DEVICES						
STATUS	SERIAL NUMBER	PRODUCT NAME	PRODUCT CLASS	TYPE	MODEL	LAST CONNECTED AT
●	VD3f6cf4ac0000001	CoffeeMachineTest		Wifi	DemoCoffeeMachine	
●	VD3f6cf4ac0000002	DoorLockTest		Wifi	DemoDoorLock	
●	VD3f6cf4ac0000003	SmartIrrigationTest		Wifi	DemoSmartIrrigation	
●	VD3f6cf4ac0000004	SmartLightTest		Wifi	DemoSmartLighting	
●	VD3f6cf4ac0000005	test-aps		Wifi	Demo	
●	VD3f6cf4ac0000006	Allan-test		Wifi	DemoCoffeeMachine	
●	VD3f6cf4ac0000007	Test-APS-01		Wifi	Tstat-1	
●	VD3f6cf4ac0000008	test-aps 02		Wifi	Tstat-1	

4.1 Device Navigation

To manage individual Device configuration details, click the device.

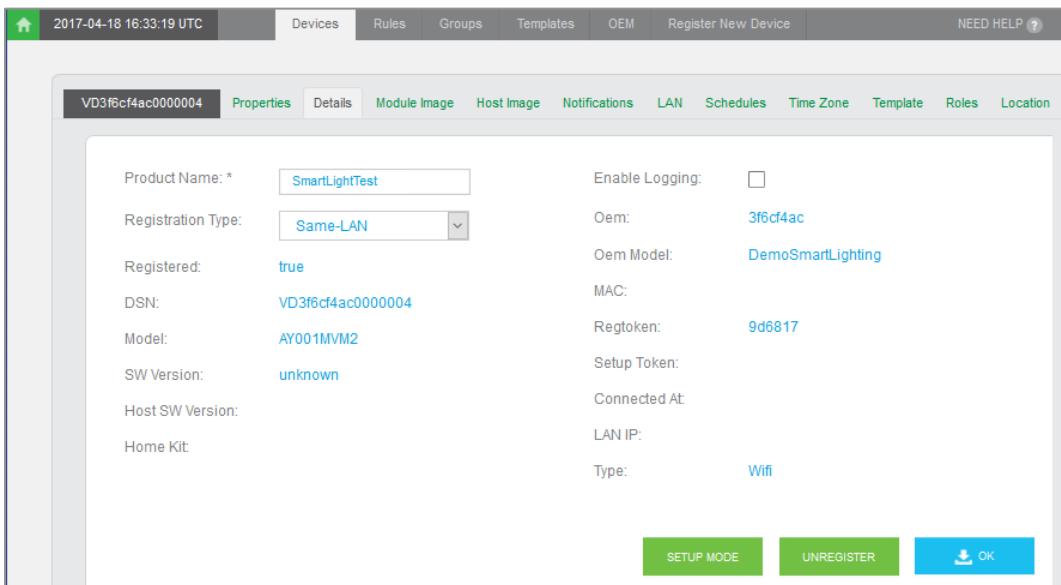
This displays the device sub-tabs:

- Properties



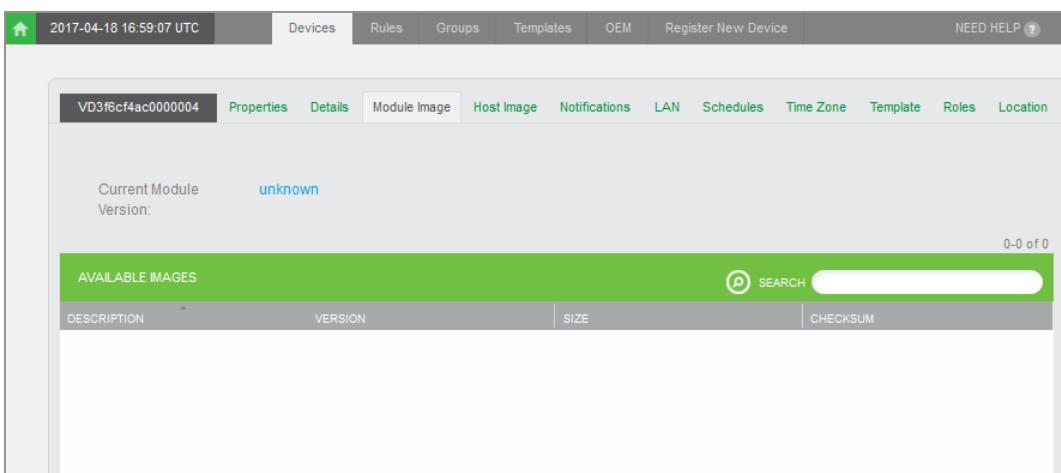
DISPLAY NAME	BASE TYPE	CURRENT VALUE	DIRECTION
Blue Light	boolean	click to update	To Device
Green Light	boolean	click to update	To Device
Low Temp	decimal	click to update	To Device
oem_host_version	string	click to update	From Device

- Details



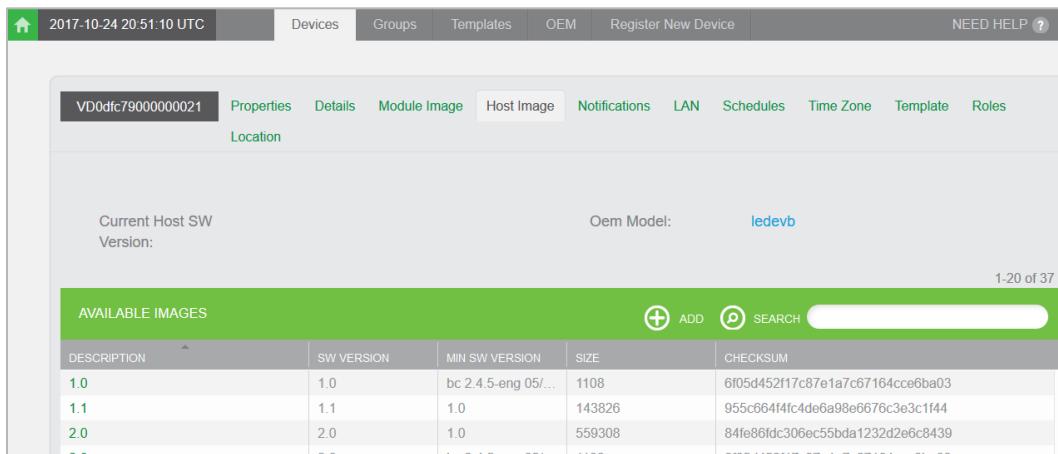
Product Name: *	<input type="text" value="SmartLightTest"/>	Enable Logging: <input type="checkbox"/>
Registration Type:	<input type="text" value="Same-LAN"/>	Oem: <input type="text" value="3f6cf4ac"/>
Registered:	<input type="text" value="true"/>	Oem Model: <input type="text" value="DemoSmartLighting"/>
DSN:	<input type="text" value="VD3f6cf4ac0000004"/>	MAC:
Model:	<input type="text" value="AY001MVM2"/>	Regtoken: <input type="text" value="9d6817"/>
SW Version:	<input type="text" value="unknown"/>	Setup Token:
Host SW Version:		Connected At:
Home Kit:		LAN IP:
		Type: <input type="text" value="Wifi"/>

- Module Image



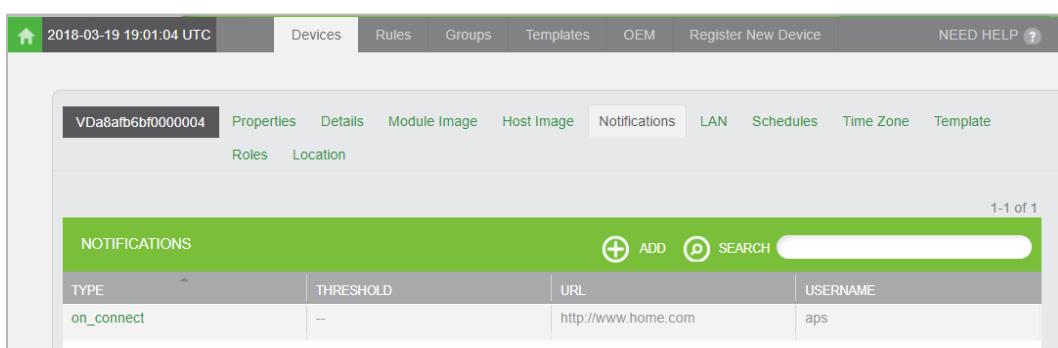
DESCRIPTION	VERSION	SIZE	CHECKSUM
0-0 of 0			

- Host Image



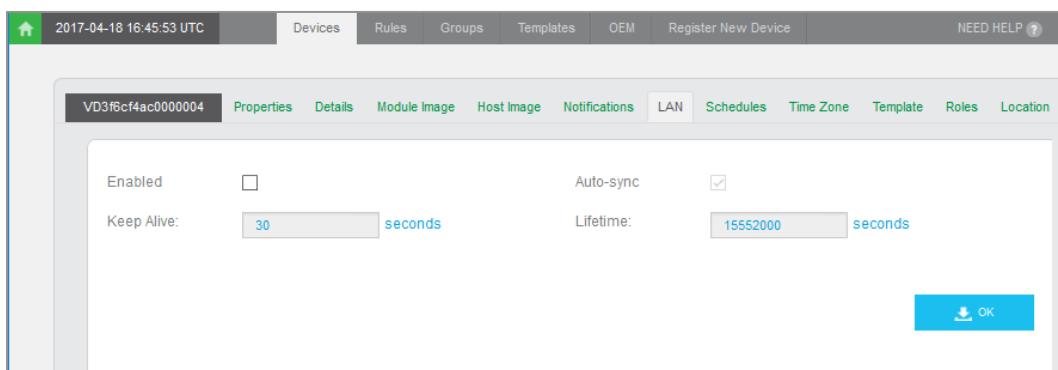
DESCRIPTION	SW VERSION	MIN SW VERSION	SIZE	CHECKSUM
1.0	1.0	bc 2.4.5-eng 05/...	1108	6f05d452f17c87e1a7c67164cce6ba03
1.1	1.1	1.0	143826	955c664f4fc4de6a98e6676c3e3c1f44
2.0	2.0	1.0	559308	84fe86fd306ec55bda1232d2e6cb8439
3.0	3.0	bc 2.4.5-eng 05/...	4400	C60C44E2E47A07A4A7C74C4A00C6b000

- Notifications

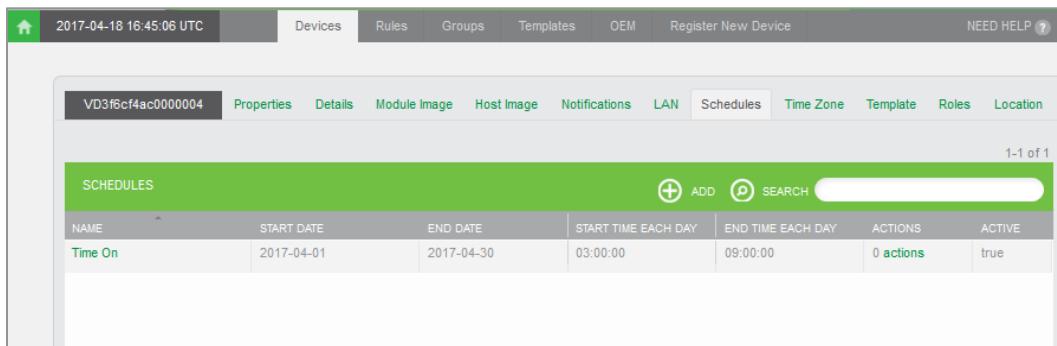


TYPE	THRESHOLD	URL	USERNAME
on_connect	--	http://www.home.com	aps

- LAN

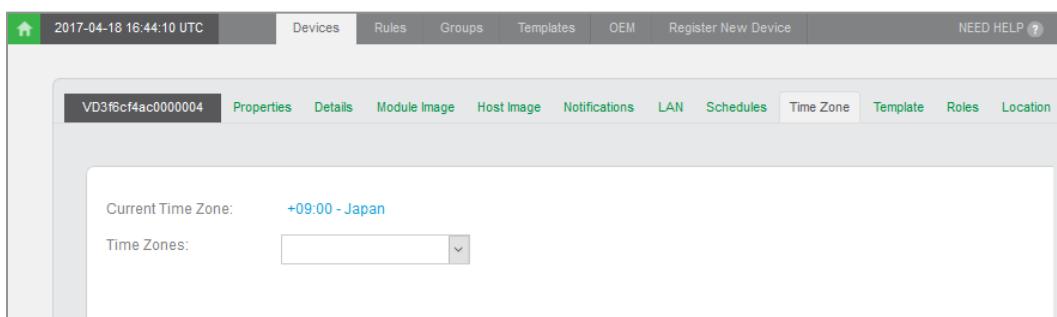


- Schedules



NAME	START DATE	END DATE	START TIME EACH DAY	END TIME EACH DAY	ACTIONS	ACTIVE
Time On	2017-04-01	2017-04-30	03:00:00	09:00:00	0 actions	true

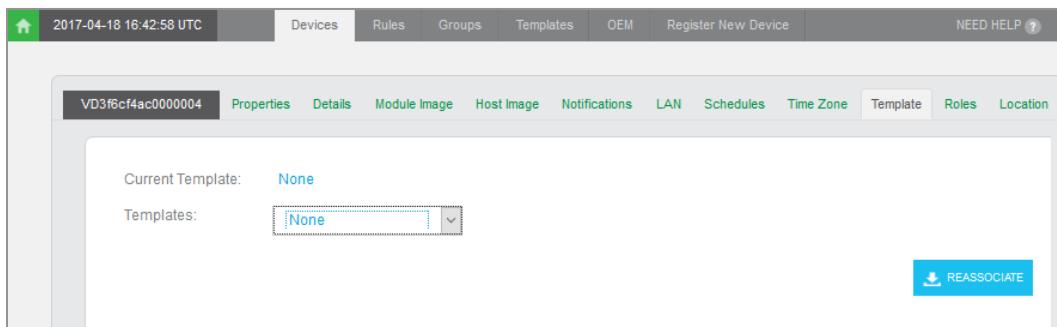
- Time Zone



Current Time Zone: +09:00 - Japan

Time Zones:

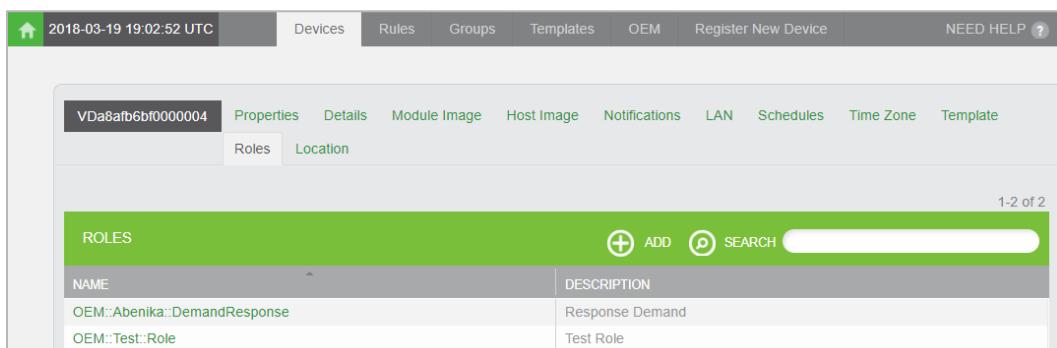
- Template



Current Template: None

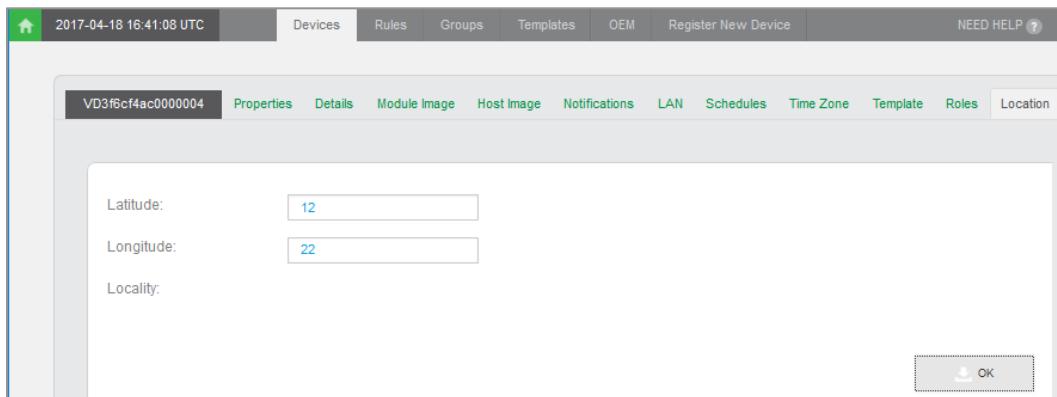
Templates:

- Roles



NAME	DESCRIPTION
OEM::Abenika::DemandResponse	Response Demand
OEM::Test::Role	Test Role

- Location



4.2 Search Devices



The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

If there are no matches, the table listing is blank.

To restore the full list, remove/delete the text in the Search field.

4.3 Register New Device

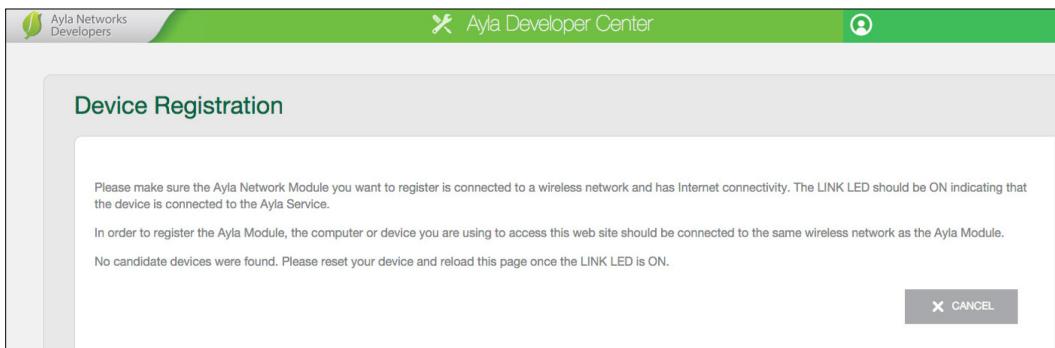
The computer or device used to access Ayla Developer Portal must be connected to the same wireless network as the device. Use the Ayla Developer Portal to register new devices. These can then be configured and managed. You must have an Ayla Developers account.

To register new devices, perform the following steps,

On the Developer Portal, click the **Register New Device** link on the portal homepage.

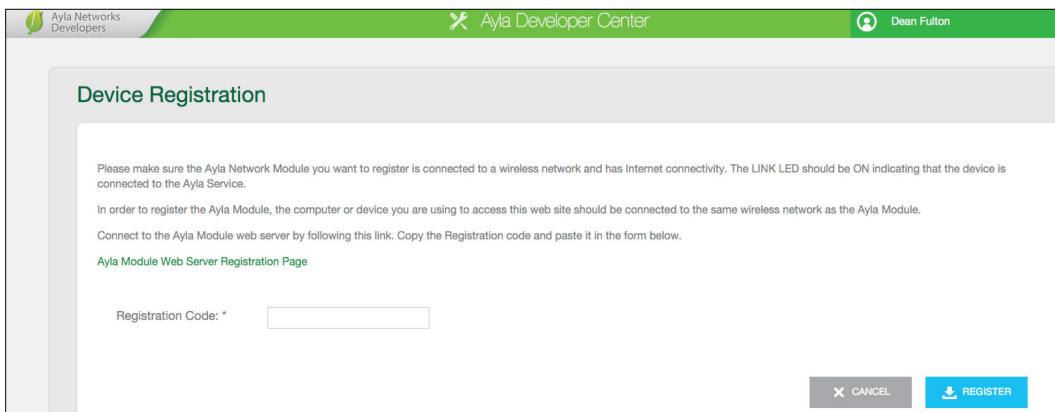


The following screen displays:



NOTE If you do not see the Ayla Module Web Server Registration page, the device is not on the same network as the Developer Center.

2. Click the **Ayla Module Web Server Registration Page** link to obtain the registration code. The registration code is required to complete the device registration process.
3. Copy the six (6) digit registration code.
4. On the Device Registration page, enter the registration code.



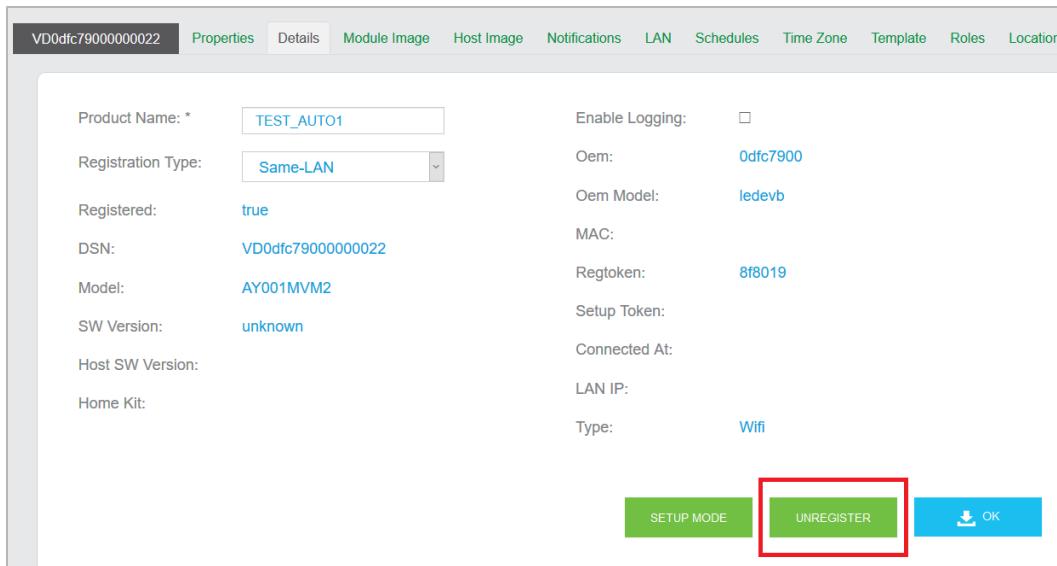
5. Click the **Register** button.
6. Repeat for all devices to be registered.

4.4 Unregister Devices

To unregister devices, perform the following steps:

1. On the **Devices** tab table listing, locate the device to unregister.
2. In the table listing, click the device **Serial Number**.

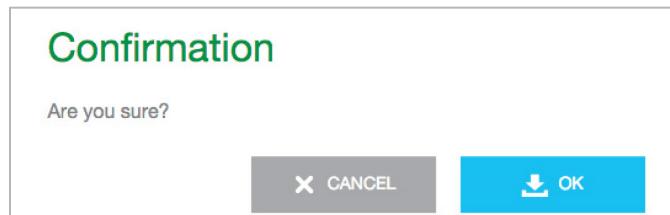
3. On the **Details** sub-tab, click **UNREGISTER**.



The screenshot shows the 'Details' sub-tab of the device configuration page. The device serial number is VD0dfc79000000022. The 'UNREGISTER' button is highlighted with a red box.

Setting	Value
Product Name:	TEST_AUTO1
Registration Type:	Same-LAN
Registered:	true
DSN:	VD0dfc79000000022
Model:	AY001MVM2
SW Version:	unknown
Host SW Version:	
Home Kit:	
Enable Logging:	<input type="checkbox"/>
Oem:	0dfc7900
Oem Model:	ledevb
MAC:	
Regtoken:	8f8019
Setup Token:	
Connected At:	
LAN IP:	
Type:	Wifi

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

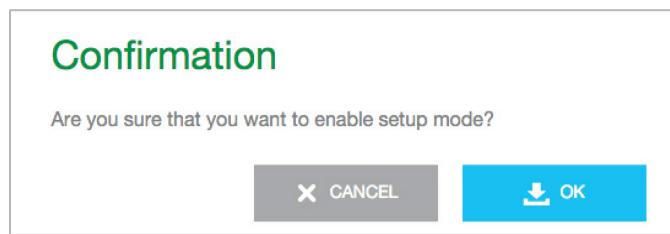


The device is removed from the Device table listing.

4.5 Device Setup Mode

To register the device as if it were a new device, put the device in Setup Mode.

1. On the **Devices** tab table listing, locate the device and click the **Serial Number**.
2. On the **Details** sub-tab, click the **Setup Mode** button.
3. On the Confirmation dialog box, click **OK**.

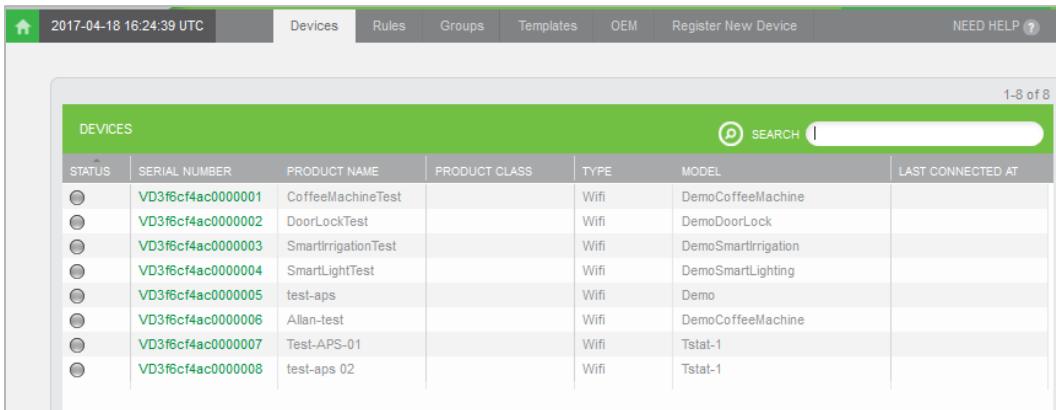


This puts the device in setup mode.

5 Device Configuration Details

This section provides procedures to manage device features and configurations. Each device has a set of sub-tabs to provide granular control of the device. To manage a device:

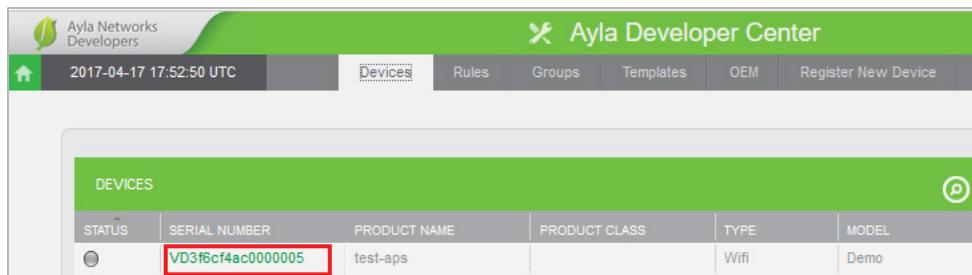
1. Click the Devices tab to show a table listing of all devices in your network.



The screenshot shows the Ayla Developer Portal interface with the Devices tab selected. The table has the following data:

STATUS	SERIAL NUMBER	PRODUCT NAME	PRODUCT CLASS	TYPE	MODEL	LAST CONNECTED AT
●	VD3f6cf4ac0000001	CoffeeMachineTest		Wifi	DemoCoffeeMachine	
●	VD3f6cf4ac0000002	DoorLockTest		Wifi	DemoDoorLock	
●	VD3f6cf4ac0000003	SmartIrrigationTest		Wifi	DemoSmartIrrigation	
●	VD3f6cf4ac0000004	SmartLightTest		Wifi	DemoSmartLighting	
●	VD3f6cf4ac0000005	test-aps		Wifi	Demo	
●	VD3f6cf4ac0000006	Allan-test		Wifi	DemoCoffeeMachine	
●	VD3f6cf4ac0000007	Test-APS-01		Wifi	Tstat-1	
●	VD3f6cf4ac0000008	test-aps 02		Wifi	Tstat-1	

2. To review, change, add, or delete Device details, locate the device in the table listing and click the Serial Number, as shown below.

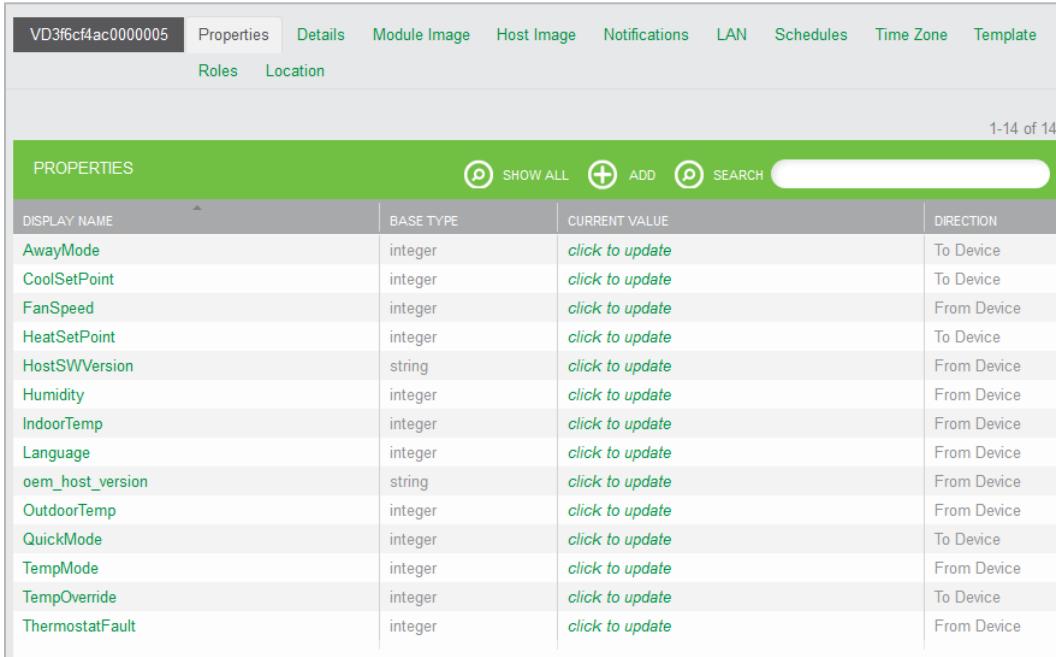


The screenshot shows the Ayla Developer Center interface with the Devices tab selected. The table has the following data, with the serial number VD3f6cf4ac0000005 highlighted:

STATUS	SERIAL NUMBER	PRODUCT NAME	PRODUCT CLASS	TYPE	MODEL
●	VD3f6cf4ac0000005	test-aps		Wifi	Demo

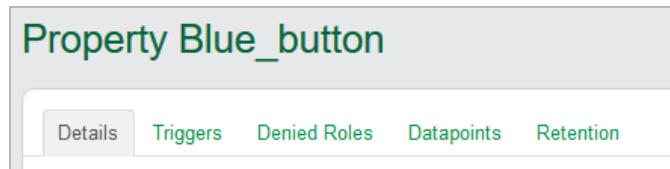
5.1 Properties tab (Create and Configure)

On the Properties sub-tab, you can search, add, review, edit, and delete properties.



DISPLAY NAME	BASE TYPE	CURRENT VALUE	DIRECTION
AwayMode	integer	click to update	To Device
CoolSetPoint	integer	click to update	To Device
FanSpeed	integer	click to update	From Device
HeatSetPoint	integer	click to update	To Device
HostSWVersion	string	click to update	From Device
Humidity	integer	click to update	From Device
IndoorTemp	integer	click to update	From Device
Language	integer	click to update	From Device
oem_host_version	string	click to update	From Device
OutdoorTemp	integer	click to update	From Device
QuickMode	integer	click to update	To Device
TempMode	integer	click to update	From Device
TempOverride	integer	click to update	To Device
ThermostatFault	integer	click to update	From Device

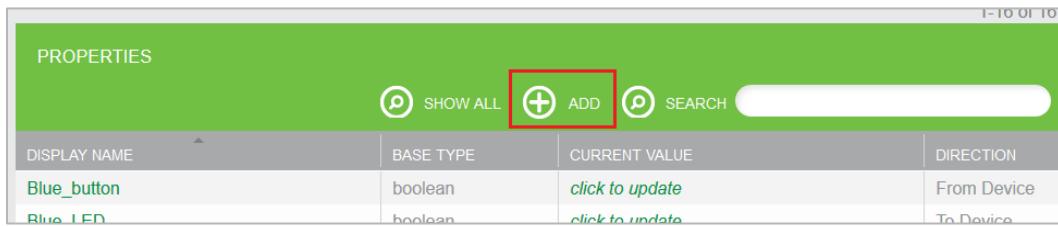
For every property, you can search for specific details and use several sub-tabs with editable fields:



- Details sub-tab
- Triggers sub-tab
- Denied Roles sub-tab
- Datapoints sub-tab (read-only)
- Retention sub-tab

5.1.1 Properties > Property sub-tab – Add New

1. On the device Properties tab, click **ADD**.

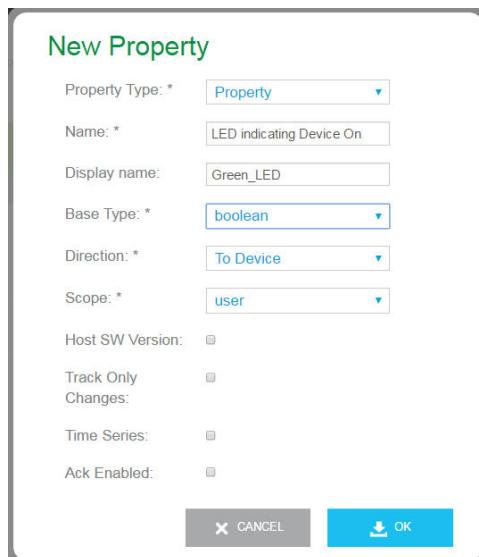


PROPERTIES

DISPLAY NAME	BASE TYPE	CURRENT VALUE	DIRECTION
Blue_button	boolean	click to update	From Device
Blue_LED	boolean	click to update	To Device

2. On the New Property dialog box, **Property Type** drop-down list, there are two options:

Property Type = Property



New Property

Property Type: *	Property
Name: *	LED indicating Device On
Display name:	Green_LED
Base Type: *	boolean
Direction: *	To Device
Scope: *	user
Host SW Version:	<input type="checkbox"/>
Track Only Changes:	<input type="checkbox"/>
Time Series:	<input type="checkbox"/>
Ack Enabled:	<input type="checkbox"/>

X CANCEL  OK

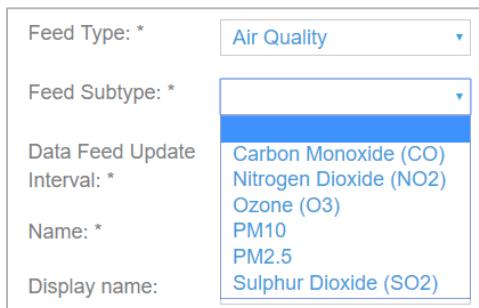
Proceed with entering details in the New Property dialog box (skip to [step 3](#)).

Property Type = FeedProperty

There are three fields that display when FeedProperty is selected:

- o For the **Feed Type** drop-down list with **Air Quality** selected (which connects to the device's air quality feed):

Select **Feed Subtype** drop-down options:

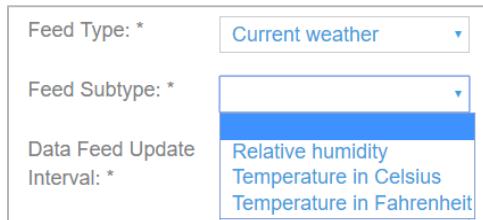


Feed Type: *	Air Quality
Feed Subtype: *	<input type="button" value="Carbon Monoxide (CO)"/>
	<input type="button" value="Nitrogen Dioxide (NO2)"/>
	<input type="button" value="Ozone (O3)"/>
	<input type="button" value="PM10"/>
	<input type="button" value="PM2.5"/>
	<input type="button" value="Sulphur Dioxide (SO2)"/>

Select **Data Feed Update Interval** (2 minutes, 30 minutes, 1 hour, 2 hours)

- For **Feed Type** drop-down list with **Current weather** selected (which connects to the device's weather feed):

Select from the Feed Subtype drop-down options:



Feed Type: * **Current weather**

Feed Subtype: *

Data Feed Update Interval: *

Select **Data Feed Update Interval** (30 minutes, 1 hour, 2 hours)

- Enter details in the following default fields for the new property:

- Name** (name for the property - must match the property name of the device host application)

NOTE Property names can have:

- a maximum of 27 characters
- both upper and lower case letters
- numbers
- hyphens
- underscores

However, no spaces or special characters are allowed, and the first character must be alphabetic.

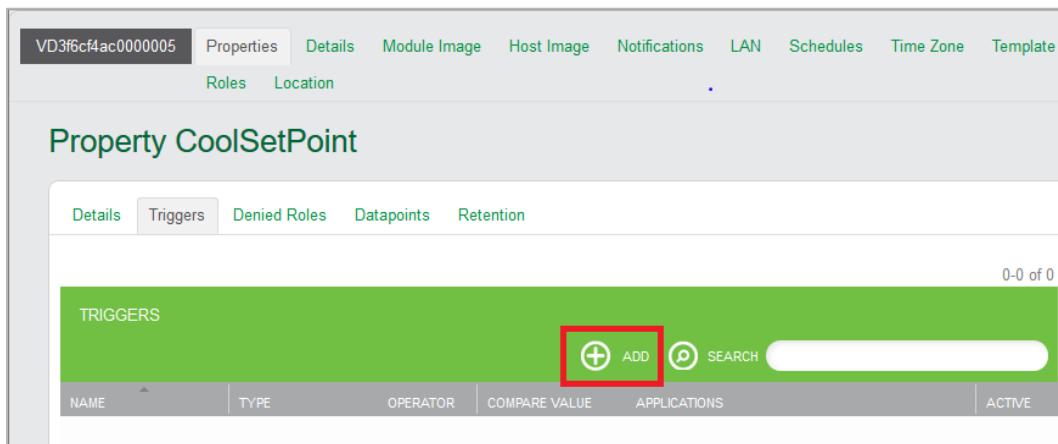
- Display Name** (optional) – (user-friendly name, displayed in the Property table list)
- Base Type** drop-down list (select the data type associated with this property):
 - integer** (numeric value)
 - string** (alphanumeric characters)
 - boolean** (true or false)
 - decimal** (decimal value - if FeedProperty is selected, this is the only option)
 - file** (file to be attached as a property)
- Direction** drop-down list (select direction that information is transferred)
 - To Device** (the device receives initial property details and values from the Ayla Cloud Services)
 - From Device** (the device captures and sends property details to the Ayla Cloud Services)
- Scope** drop-down list (defines who can view property details):
 - user** (users can see the property)

- oem** (only Ayla customers can see the property)
 - **Host SW Version** checkbox:
 - Select** (the Ayla customer tracks the host software version)
 - Unselect** (The Ayla customer does not track software version)
 - **Track Only Changes** checkbox:
 - Select** (log only changes to the property state - if the value remains the same, no datapoint is recorded)
 - Unselect** (do not log changes in the property state)
 - **Time Series** checkbox:
 - Select** (track datapoints when device is connected or disconnected – For a device that has the From Device property setting, datapoints are queued in the device until it connects and is then transmitted to the Ayla Cloud. For the property setting of To Device, the Ayla Cloud queues data items and sends them upon reconnecting.)
 - Unselect** (datapoints are not tracked when device is disconnected from the Ayla Cloud)
 - **Ack Enabled** checkbox:
 - Select** (receive an acknowledgement when property is updated). For example, if the Direction field is set for **To Device**, the Ayla Cloud sends an update to the device, and the device returns an acknowledgement when the property is updated on the device.
 - Unselect** (no ack is sent on property change or update)
4. Click **OK** to create your new device property.

5.1.2 Properties > Trigger sub-tab

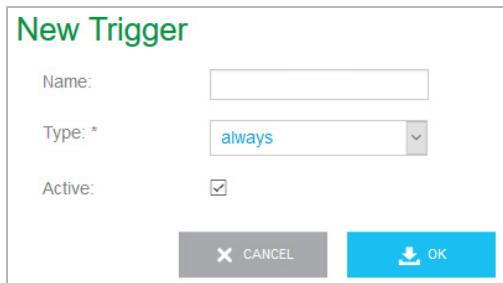
To add a new Trigger:

1. On the Device > Properties tab, click the **Triggers** sub-tab, and then click **ADD**.



The screenshot shows the Ayla Developer Portal interface for managing device properties. The top navigation bar includes tabs for Properties, Details, Module Image, Host Image, Notifications, LAN, Schedules, Time Zone, and Template. Below this, there are tabs for Roles and Location. The main content area is titled 'Property CoolSetPoint'. Under this, there are tabs for Details, Triggers (which is selected and highlighted in grey), Denied Roles, Datapoints, and Retention. The 'TRIGGERS' section is displayed with a green header bar containing the text '0-0 of 0'. Below this, there is a table with columns: NAME, TYPE, OPERATOR, COMPARE VALUE, APPLICATIONS, and ACTIVE. At the top of this table, there is an 'ADD' button with a red box around it, and a 'SEARCH' input field.

2. On the New Trigger dialog box, **Name** (must match the host application on the device)



3. On Type drop-down, select the condition that activates the trigger.

- o **always** (trigger is always active)
- o **compare_absolute** (two additional fields display)



- **Compare type** drop-down (select from the list)
 - == (equal to)
 - > (greater than)
 - < (less than)
 - >= (greater than or equal to)
 - <= (less than or equal to)
- **Value** (value to compare against)

- o **on_change** (trigger occurs only if there is a change)
4. **Active** checkbox
 - o **Select** (if trigger is active)
 - o **Unselect** (if trigger is inactive)
 5. Click **OK** (saves the new property trigger)

When a new trigger is created, a notification application (one or more) must also be created. This is how the user can be notified when the trigger is activated.

TRIGGERS					
		ADD		SEARCH	
NAME	TYPE	OPER...	COMPARE...	APPLICATIONS	A...
dealer_r	always			email (1) forward (1)	true
On_change	on_change			click to add applications	true

5.1.3 Properties > Trigger sub-tab (Add Application)

Trigger applications can be added to device properties to specify actions when the trigger is activated. Options include:

- email
- sms
- forward
- push_ios
- push_android
- push_baidu

If there are no Applications for the Trigger:

1. On the Triggers table listing, in the Applications column, click *click to add applications*.

TRIGGERS					
		ADD		SEARCH	
NAME	TYPE	OPERAT...	COMPARE VALUE	APPLICATIONS	ACTIVE
Green_LED	always			click to add applications	true

If the property has a trigger application, a table listing is shown below the trigger table list.

2. To create another trigger application, in the Triggers table, click ADD.

Details	Triggers	Denied Roles	Datapoints	Retention						
Name: <input type="text" value="Blue_button"/> Active: <input checked="" type="checkbox"/>	Type: * <input type="text" value="always"/>	<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>								
1-1 of 1										
APPLICATIONS <div style="display: flex; justify-content: space-between; align-items: center;"> <input type="button" value="ADD"/> <input type="button" value="SEARCH"/> </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>APPLICATION</th> <th>USERNAME</th> <th>VALUE</th> </tr> </thead> <tbody> <tr> <td>email</td> <td>aps</td> <td>email: aps@aps.com</td> </tr> </tbody> </table>					APPLICATION	USERNAME	VALUE	email	aps	email: aps@aps.com
APPLICATION	USERNAME	VALUE								
email	aps	email: aps@aps.com								

3. On the New Application dialog box, on **Application** drop-down, select the type of application to create. (The dialog box changes based on the selection.)

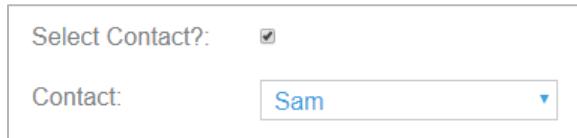
Application drop-down = **email**

New Application

Application:	<input type="text" value="email"/>
Username:	<input type="text"/>
Repeat Frequency:	<input type="text" value="30"/>
Select Contact?:	<input type="checkbox"/>
Email:	<input type="text"/>
Message:	<input type="text"/>
Email Template Id:	<input type="text"/>
Email Subject:	<input type="text"/>
Email Body HTML:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

- Enter **Username** (shown in the greeting of the notification message)

- Enter **Repeat Frequency** of application (seconds between repeating this trigger application)
- If the **Select Contact?** checkbox is selected, select a contact in the Contact drop-down list (which includes available contacts from your [Contact List](#))

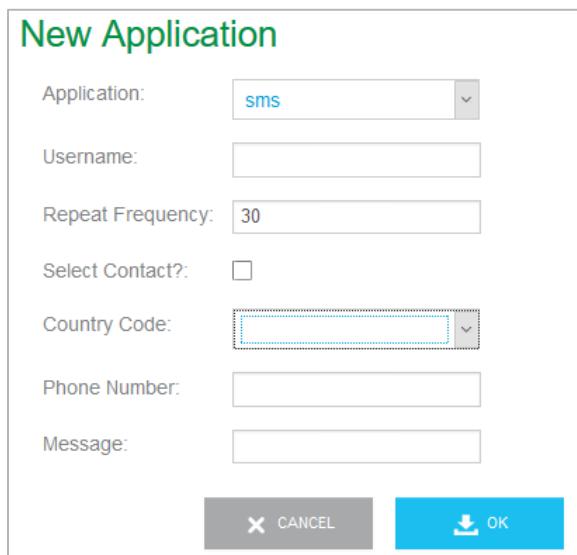


If this checkbox is not selected, in **Email**, enter the email address where information should be sent.



- Enter **Message** (message to be sent to the recipient)
- Enter **Email Template Id** (if a template is available)
- Enter **Email Subject** (subject line of email)
- Enter **Email Body HTML** (use HTML code as needed)
- Click **OK**.

Application drop-down = **sms**



- Enter **Username** (which is used in the greeting of the notification message)
- Enter **Repeat Frequency** of application (the seconds between the repeat of this trigger application)
- If **Select Contact?** checkbox is selected, from the Contact drop-down, select a contact. (The list of available contacts from your [Contact List](#))

Select Contact?:	<input checked="" type="checkbox"/>
Contact:	Sam

If the checkbox is not selected, enter the **Country Code** (phone country code) and **Phone Number**.

Select Contact?:	<input type="checkbox"/>
Country Code:	
Phone Number:	

- In **Message**, enter the message to be sent to the recipient. Note that SMS messages longer than 160 characters are split into two messages.

NOTE Message length should be maximum of 120 characters to allow for overhead (i.e., notification object name length is 20, etc.).

- Click **OK**.

Application drop-down = **forward**

New Application

Application:	forward
Repeat Frequency:	30
Service name:	
Service URL:	
Username:	
Password:	
Context:	
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

- Enter **Repeat Frequency** of application (seconds between the repeat of this trigger application)
- Enter **Service name** (name of the forwarding service)
- Enter **Service URL** (URL to which notification should be sent)
- Enter **Username** (login credentials to service URL – if needed)
- Enter **Password** (login credentials to service URL – if needed)
- Enter **Context**

- Click **OK**.

Application drop-down = **push_ios**

New Application

Application:	<input type="text" value="push_ios"/>
Repeat Frequency:	<input type="text" value="30"/>
Contact:	<input type="text" value="Sam"/>
Registration Id:	<input type="text"/>
Application Id:	<input type="text"/>
Message:	<input type="text"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>

X CANCEL **OK**

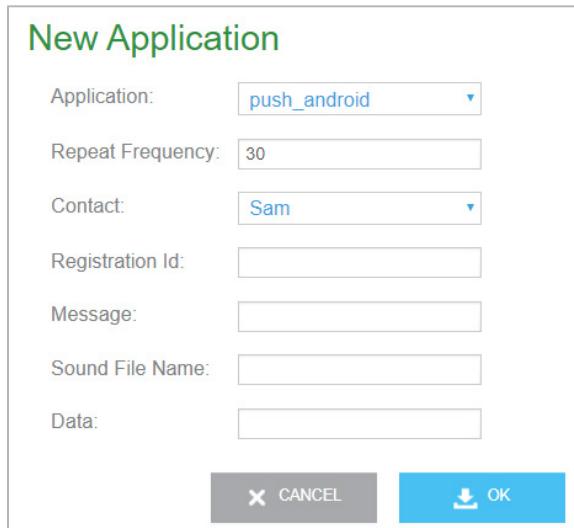
- Enter **Repeat Frequency** of application (seconds between the repeat of this trigger application)
- On **Contact** drop-down (select the individual – see [Contact List](#))
- Enter **Registration Id**.
- Enter **Application Id**.
- Enter **Message** (message to be sent to the recipient – up to 4K characters)
- Enter **Sound File Name** (sound to be played when message is received)
- Enter **Data**.(contextual information)
- Click **OK**.

Application drop-down = **push_android**

New Application

Application:	<input type="text" value="push_android"/>
Repeat Frequency:	<input type="text" value="30"/>
Contact:	<input type="text" value="Sam"/>
Registration Id:	<input type="text"/>
Message:	<input type="text"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>

CANCEL **OK**



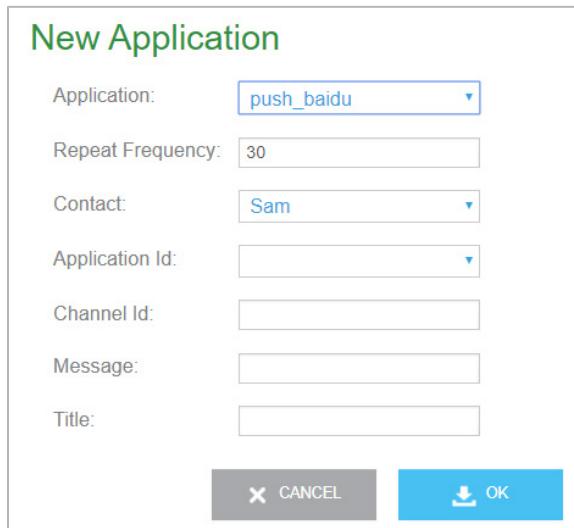
- Enter **Repeat Frequency** of application (in seconds)
- On **Contact** drop-down (select the individual – see [Contact List](#))
- Enter **Registration Id**.
- Enter **Message** (message to be sent to the recipient – up to 4K characters)
- Enter **Sound File Name**. (sound to be played when message is received)
- Enter **Data** (contextual information)
- Click **OK**.

Application drop-down = **push_baidu**

New Application

Application:	<input type="text" value="push_baidu"/>
Repeat Frequency:	<input type="text" value="30"/>
Contact:	<input type="text" value="Sam"/>
Application Id:	<input type="text"/>
Channel Id:	<input type="text"/>
Message:	<input type="text"/>
Title:	<input type="text"/>

CANCEL **OK**



- Enter **Repeat Frequency** of application (in seconds)
- In **Contact** drop-down list, select the individual – see [Contact List](#).

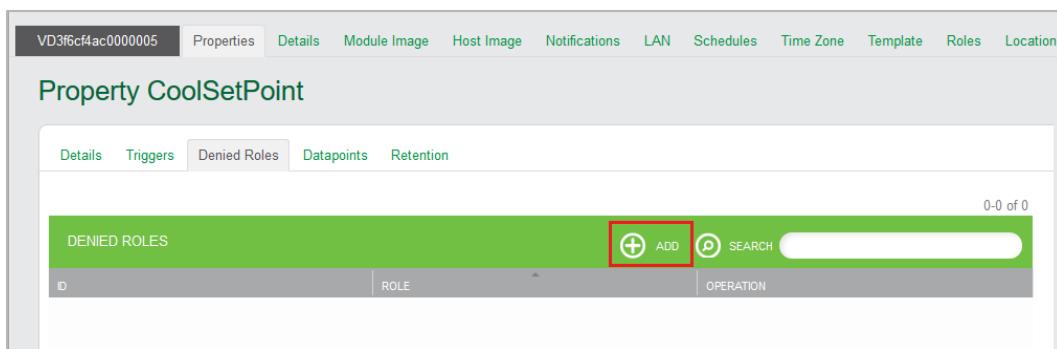
- In **Application Id** drop-down, select item.
- Enter **Channel Id**.
- Enter **Message** (message to be sent to the recipient – up to 4K characters)
- Enter **Title**.
- Click **OK**.

5.1.4 Properties > Denied Role sub-tab

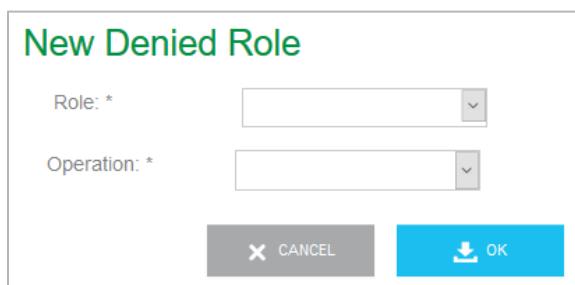
Use this to specify a role that restricts user read or write permissions. The specified denied role restricts a user with this role have on device operations.

To add a new denied role, perform the following steps:

1. On the device's property, go to the Denied Roles sub-tab and click **ADD**.



2. On the New Denied Role dialog box:



- On **Role** drop-down, select the role.
- On the **Operation** drop-down, select:
 - read** (the selected role cannot see this property)
 - write** (the selected role cannot edit/change property details)
- Click **OK**.

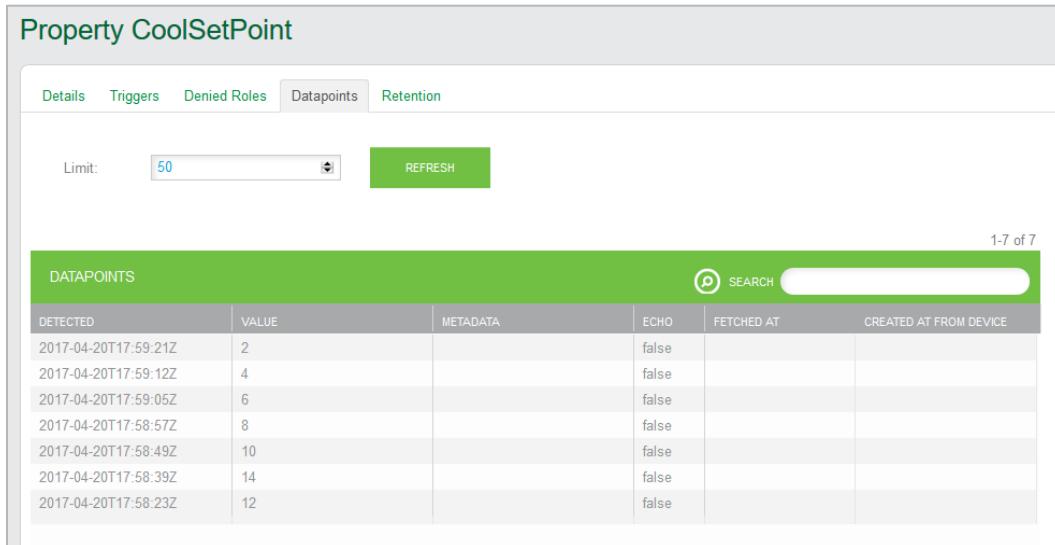
Repeat, as needed for other roles and permissions.

NOTE If your Role drop-down list is empty, there are no roles as an Ayla customer that you can deny.

5.1.5 Properties > Datapoints sub-tab

NOTE Datapoints can be created in the Ayla Customer Dashboard, not on the Ayla Developer Portal. Datapoints are read-only.

On the device's property, click the Datapoints sub-tab.



DATAPoints					
DETECTED	VALUE	METADATA	ECHO	FETCHED AT	CREATED AT FROM DEVICE
2017-04-20T17:59:21Z	2		false		
2017-04-20T17:59:12Z	4		false		
2017-04-20T17:59:05Z	6		false		
2017-04-20T17:58:57Z	8		false		
2017-04-20T17:58:49Z	10		false		
2017-04-20T17:58:39Z	14		false		
2017-04-20T17:58:23Z	12		false		

Table column description:

- Detected (timestamp the datapoint was created)
- Value (datapoint value)
- Metadata (information used by customer)
- Echo (options are: False/True)
- Fetched At (time the datapoint was fetched)
- Created at From Device (time datapoint was originally created)

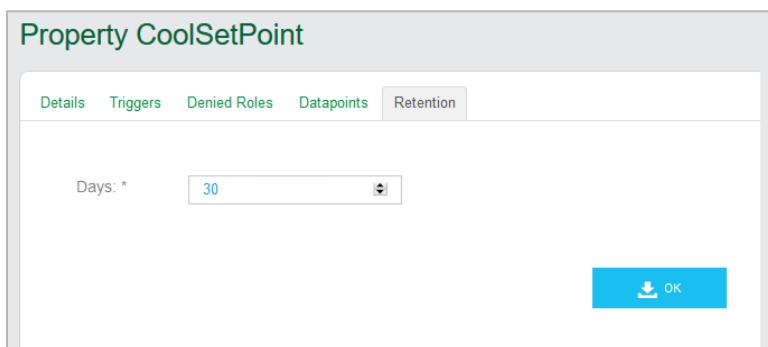
To only show a limited number of datapoints in **Limit** field:

1. Enter the number of datapoints to be displayed in the table listing.
2. Click **REFRESH**.

5.1.6 Properties > Retention sub-tab

You can set a data retention policy for device properties. This is the length of time property data is saved (the default is 90 days).

To set a retention policy for your device:



1. In the **Days** field, enter (or use up/down arrows to change) the days the property details are saved.
2. Click **OK**.

5.2 Properties tab, Review/Edit

On the Properties tab for a selected device, there is a search function and several sub-tabs with editable fields:

- Details sub-tab
- Triggers sub-tab
- Denied Roles sub-tab
- Datapoints sub-tab (read-only – no fields to edit)
- Retention sub-tab

This section describes each sub-tab and identifies the fields that can be updated.

5.2.1 Properties > Search

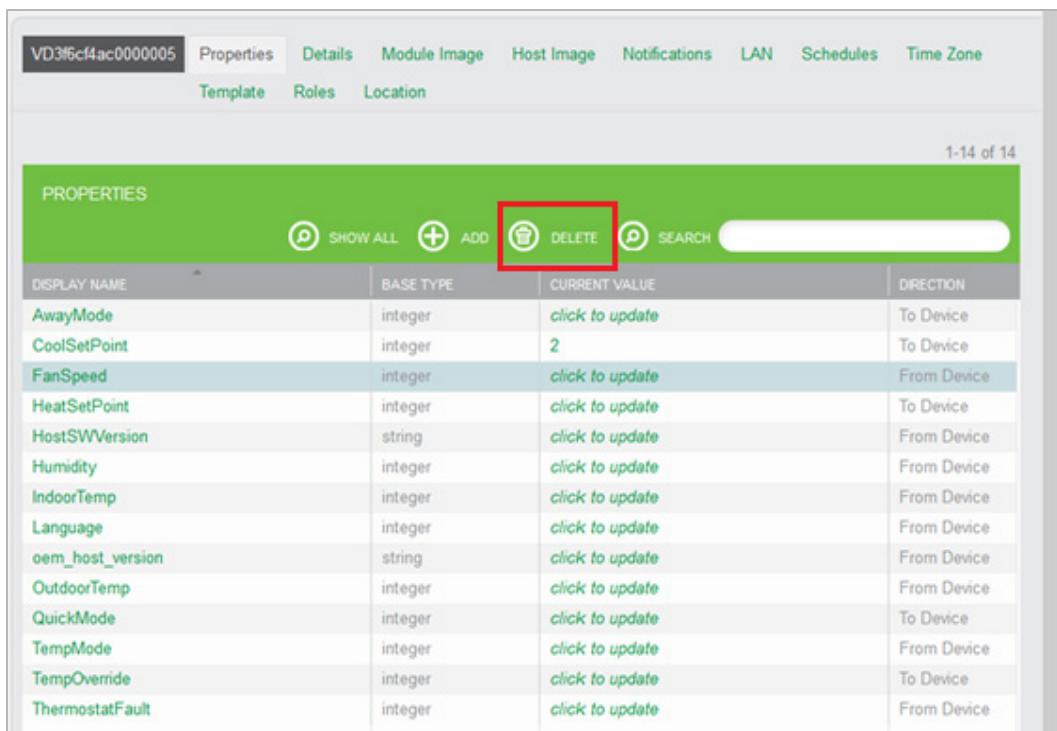
The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

If there are no matches, the table listing is blank.

To restore the full list, remove/delete the search field text.

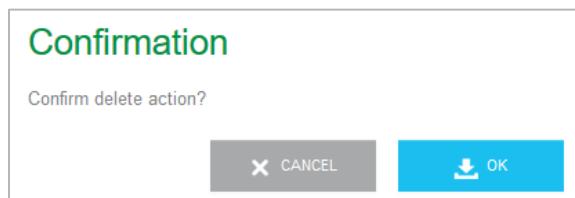
5.2.2 Properties > Delete

1. In the table listing on Properties tab for a selected device, click the property to delete, and then click **DELETE**.



DISPLAY NAME	BASE TYPE	CURRENT VALUE	DIRECTION
AwayMode	integer	click to update	To Device
CoolSetPoint	integer	2	To Device
FanSpeed	integer	click to update	From Device
HeatSetPoint	integer	click to update	To Device
HostSWVersion	string	click to update	From Device
Humidity	integer	click to update	From Device
IndoorTemp	integer	click to update	From Device
Language	integer	click to update	From Device
oem_host_version	string	click to update	From Device
OutdoorTemp	integer	click to update	From Device
QuickMode	integer	click to update	To Device
TempMode	integer	click to update	From Device
TempOverride	integer	click to update	To Device
ThermostatFault	integer	click to update	From Device

2. In the Confirmation dialog box, click **OK**.

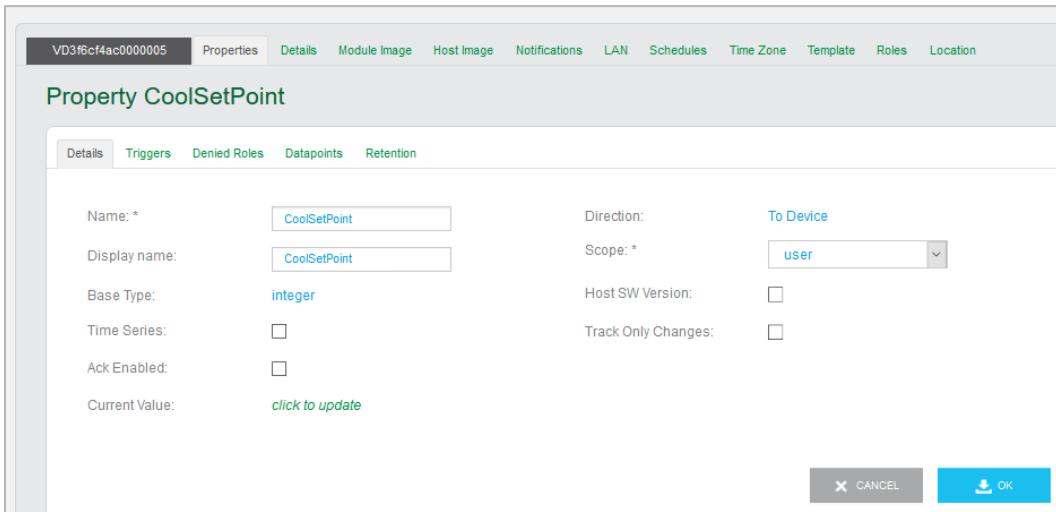


5.2.3 Properties > Change Current Value

Click the current value in the table listing of the Properties page to make this change.

5.2.4 Properties > Details sub-tab

On the Details sub-tab, you can manage several types of details:



Property CoolSetPoint

Details Triggers Denied Roles Datapoints Retention

Name: * CoolSetPoint Direction: To Device

Display name: CoolSetPoint Scope: * user

Base Type: integer Host SW Version:

Time Series: Track Only Changes:

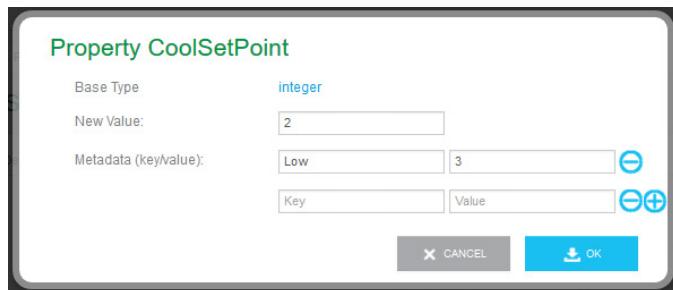
Ack Enabled:

Current Value: [click to update](#)

X CANCEL OK

Editable fields are:

- **Name**
- **Display Name** (user-friendly name of schedule)
- **Time Series** checkbox
 - **Selected** (if device disconnected, service queues data points to the device. On connection, all datapoints are sent to device. From device to service, host MCU queues all data items.)
 - **Unselected** (ignores datapoints whether device is connected or disconnected)
- **Ack Enabled** checkbox
 - **Select** -If the Direction is configured for To Device, the service receives ack (an acknowledgement) if the property is updated and the update is sent to the device.
 - **Unselect** -No ack (an acknowledgement) is sent when the property changes.
- **Current Value** ([click to update](#) link) Click this link to change current value in the Property dialog box:



Property CoolSetPoint

Base Type integer

New Value: 2

Metadata (key/value):

Low	3	⊖
Key	Value	⊖⊕

X CANCEL OK

- **Base Type** (data type of the property)

- **New Value** (in field, enter a different value)
- **Metadata (key/value)** (enter Key/Value)
 - To add another metadata key/value, click **Plus** icon.
- When done, click **OK**.
- **Scope** drop-down – defines viewing permission of property:
 - **user** (user can see the property)
 - **oem** (only the Ayla customer can see the property)
- **Host SW Version** checkbox:
 - Select (the Ayla customer tracks host software version)
 - Unselect (the Ayla customer does not track software version)
- **Track Only Changes** checkbox
 - Select (log only changes in the property state – if same value, no datapoint recorded)
 - Unselect (do not log changes in the property state)

If any changes were entered, click **OK**.

5.2.5 Properties > Triggers sub-tab (triggers)

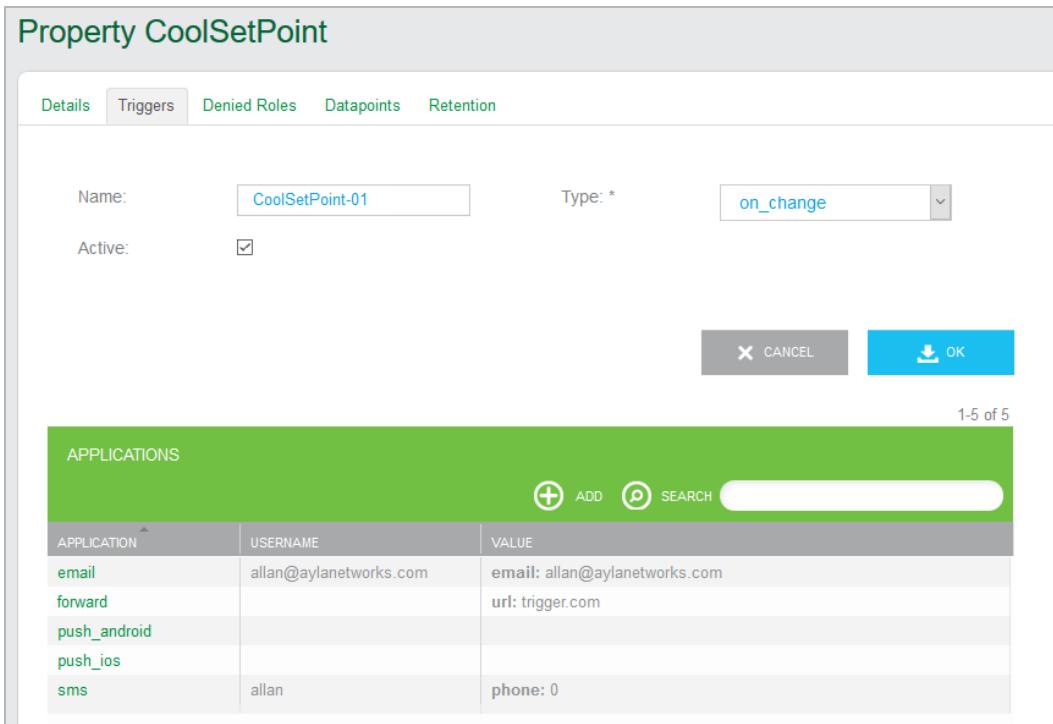
NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches for the entered characters.
 If there are no matches, the table listing is blank.
 To restore the full list, remove/delete the search field text.

Edit Triggers

On this sub-tab, a table listing shows available triggers.

Property CoolSetPoint					
Details Triggers Denied Roles Datapoints Retention					
TRIGGERS					
NAME	TYPE	OPERATOR	COMPARE VALUE	APPLICATIONS	ACTIVE
CoolSetPoint	always			click to add applications	true
CoolSetPoint-01	on_change			email (1) forward (1) push_ios (1) push_andr...	true

1. To review trigger details, click the trigger name.



The screenshot shows the Ayla Developer Portal interface. At the top, there is a navigation bar with tabs: Details (selected), Triggers, Denied Roles, Datapoints, and Retention. Below the navigation bar, there are input fields for 'Name' (CoolSetPoint-01) and 'Type' (on_change). There is also an 'Active' checkbox which is checked. At the bottom of this section are 'CANCEL' and 'OK' buttons. Below this, there is a table titled 'APPLICATIONS' with 5 rows. The table has columns: APPLICATION, USERNAME, and VALUE. The data in the table is as follows:

APPLICATION	USERNAME	VALUE
email	allan@aylanetworks.com	email: allan@aylanetworks.com
forward		url: trigger.com
push_android		
push_ios		
sms	allan	phone: 0

At the bottom right of the table, it says '1-5 of 5'.

Editable fields are:

- **Name** (name of the property trigger).
- **Active** checkbox
 - **Select** (if schedule template is active)
 - **Unselect** (if schedule template is inactive)
- **Type** drop-down (change as needed) – options are:
 - **Always**
 - **compare_absolute**
 - **on_change**

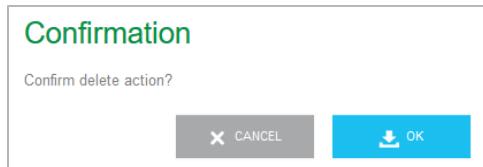
2. If any changes, click **OK**.

Delete Trigger

1. On the Triggers table listing, select the trigger to delete, and click **DELETE**.

TRIGGERS					
NAME		TYPE	OPERATOR	COMPARE VALUE	APPLICATIONS
ACTIVE					
CoolSetPoint		always			click to add applications
CoolSetPoint-01		compare_abs...	==	68	email (1) sms (1) forward (1) push_ios (...
CoolSetPoint-10		on_change			click to add applications

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



5.2.6 Properties > Triggers sub-tab (Applications)

Property CoolSetPoint

Details Triggers **Denied Roles** Datapoints Retention

Name:	<input type="text" value="CoolSetPoint-01"/>	Type: *	<input type="text" value="compare_absolute"/>
Value:	<input type="text" value="72"/>	Compare type:	<input type="text" value=">"/>
Active:	<input checked="" type="checkbox"/>	<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

1-5 of 5

APPLICATIONS		
APPLICATION	USERNAME	VALUE
email	Sam	email: sam@example.com
forward		url: tes.com
push_android		
push_ios		
sms	aps	phone: 0

Trigger Applications – email

In the Application drop-down, select **email**.

Edit Application

Application:	<input type="text" value="email"/>
Username:	<input type="text"/>
Repeat Frequency:	<input type="text" value="30"/>
Select Contact?:	<input type="checkbox"/>
Email:	<input type="text" value="123"/>
Message:	<input type="text" value="Temp down"/>
Email Template Id:	<input type="text"/>
Email Subject:	<input type="text"/>
Email Body HTML:	<input type="text"/>

X CANCEL **OK**

Editable fields are:

- **Username** (greeting in the notification message)
- **Repeat Frequency**
- **Select Contact** checkbox
(if selected, displays **Contacts** drop-down)

Select Contact?:	<input checked="" type="checkbox"/>
Contact:	<input type="text"/>

(if unselected, displays **Email**)

Select Contact?:	<input type="checkbox"/>
Email:	<input type="text" value="aos@aps.com"/>

- **Message**
- **Email Template Id**

- **Email Subject**
- **Email Body HTML**

If any changes, click **OK**.

Trigger Applications – sms

In the Applications drop-down, select **sms**.

Edit Application

Application:	<input type="text" value="sms"/>
Username:	<input type="text" value="aps"/>
Repeat Frequency:	<input type="text" value="30"/>
Select Contact?:	<input checked="" type="checkbox"/>
Contact:	<input type="text" value="George"/>
Message:	<input type="text" value="Temperature is up"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

Editable fields are:

- **Username** (greeting in the notification message)
- **Repeat Frequency**
- **Registration ID**
- **Select Contact?** checkbox –When selected, click a contact name in the **Contact** drop-down list, which includes all of the contacts from your [Contact List](#).)

Select Contact?:	<input checked="" type="checkbox"/>
Contact:	<input type="text" value="Sam"/>

If the Select Contact? checkbox is not selected, click the appropriate information **Country Code** and **Phone Number** drop-down lists.

Select Contact?:	<input type="checkbox"/>
Country Code:	<input type="text"/>
Phone Number:	<input type="text"/>

- **Message** (the message to be sent to the recipient – SMS messages longer than 160 are split into two messages.)

NOTE Message length should be maximum of 120 characters to allow for overhead (i.e, notification object name length is 20, etc.).

If any changes, click **OK**.

Trigger Applications – push_ios

In the Applications drop-down, select **push_ios**.

Edit Application

Application:	<input type="text" value="push_ios"/>
Repeat Frequency:	<input type="text" value="30"/>
Registration Id:	<input type="text" value="123"/>
Application Id:	<input type="text" value="345"/>
Message:	<input type="text" value="Temp down"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>

X CANCEL **OK**

Editable fields are:

- **Repeat Frequency**
- **Registration Id**
- **Application Id**
- **Message** (can be up to 4K characters)
- **Sound File Name**
- **Data** (contextual information)

If any changes, click **OK**.

Trigger Applications – **push_android**

In the Applications drop-down, select **push_android**.

Edit Application

Application:	<input type="text" value="push_android"/>
Repeat Frequency:	<input type="text" value="30"/>
Registration Id:	<input type="text" value="123"/>
Message:	<input type="text" value="Temp down"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>

CANCEL **OK**

Editable fields are:

- **Repeat Frequency**
- **Registration Id**
- **Message** (can be up to 4K characters)
- **Sound File Name**
- **Data** (contextual information)

If any changes, click **OK**.

Trigger Applications – **push_android_fcm** (Firebase Cloud Messaging)

In the Applications drop-down, select **push_android_fcm**.

New Application

Type:	<input type="text" value="push_android_fcm"/>
Nickname:	<input type="text"/>
Registration Id:	<input type="text"/>
Message:	<input type="text"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>

CANCEL **OK**

Editable fields are:

- **Repeat Frequency**
- **Registration Id**
- **Message** (can be up to 4K characters)
- **Sound File Name**
- **Data**.(contextual information)

If any changes, click **OK**.

Type drop-down = **push_baidu**

New Application

Type:	<input type="text" value="push_baidu"/>
Nickname:	<input type="text"/>
Message:	<input type="text"/>
Application Id:	<input type="text"/>
Channel Id:	<input type="text"/>
Title:	<input type="text"/>

X CANCEL OK

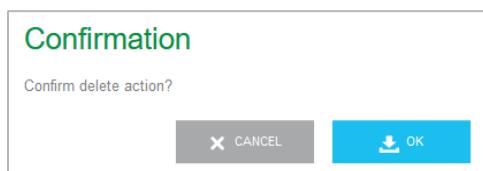
1. Enter **Nickname** (user-friendly name)
2. Enter **Message** (message to be sent to the recipient – allows a maximum of 4000 characters)
3. On **Application Id** drop-down (select item)
4. Enter **Channel Id**
5. Enter **Title** (title of the notification sent to user)
6. Click **OK**

Delete Application

1. On the Triggers page, Application table listing, select the application to delete, and click **DELETE**.

APPLICATIONS		
APPLICATION	USERNAME	VALUE
email	aps	email: aps@example.com
forward		url: example.com
push_android		
push_ios		
emo	aps	phone: 11091111221

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



5.2.7 Properties > Denied Roles sub-tab

- NOTE** The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.
If there are no matches, the table listing is blank.
To restore the full list, remove/delete the search field text.

Property CoolSetPoint		
Details	Triggers	Denied Roles
DENIED ROLES		
ID	ROLE	OPERATION
1993	Demo::Dealer	read
1992	Demo::User	read

1. On the table listing, click an ID.
2. In the next page for Denied Roles, make changes to the editable fields as needed:
 - o **Role** drop-down.
 - o **Operation** drop-down

Property CoolSetPoint

Details
Triggers
Denied Roles
Datapoints
Retention

Role:

Operation: *

X CANCEL
OK

3. If any changes, click **OK**.

Delete Denied Role

1. On the Denied Roles table listing, select the role to delete, and click **DELETE**.

DENIED ROLES		
ID	ROLE	OPERATION
1993	Demo::Dealer	read
1992	Demo::User	read

2. In the Confirmation dialog box, click **OK**.

Confirmation

Confirm delete action?

X CANCEL
OK

5.2.8 Properties > Datapoint sub-tab

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

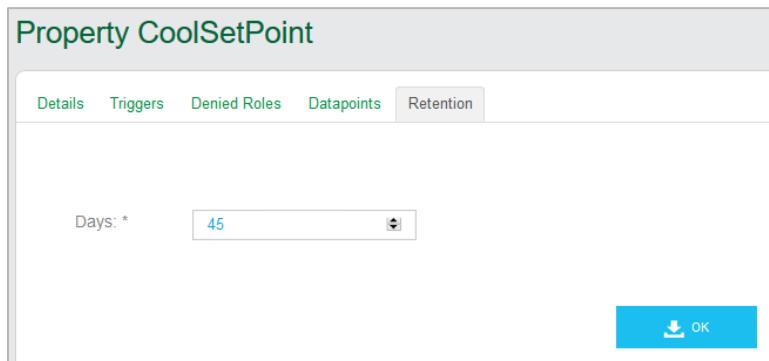
If there are no matches, the table listing is blank.

To restore the full list, remove/delete the search field text.

All datapoints on this tab are read-only except for the field used to specify how many datapoints are displayed in the table listing.

5.2.9 Properties > Retention sub-tab

The retention days setting can be modified at any time.

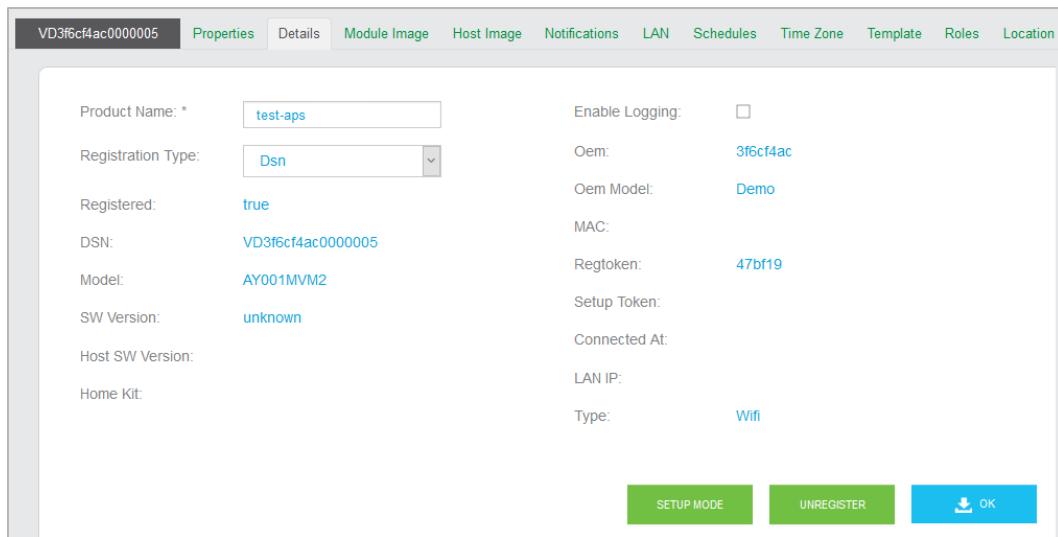


1. Enter a new value in the Days field.
2. To update any change, click **OK**.

5.3 Details tab

The Details page displays information associated with the device.

1. To get to the Details page, click the device in the table listing on the DEVICES page.
2. Click the **Details** tab.



On the Details tab, the following fields can be edited:

- **Product Name** (user-friendly name)
- **Registration Type** drop-down:
 - **Same-LAN**

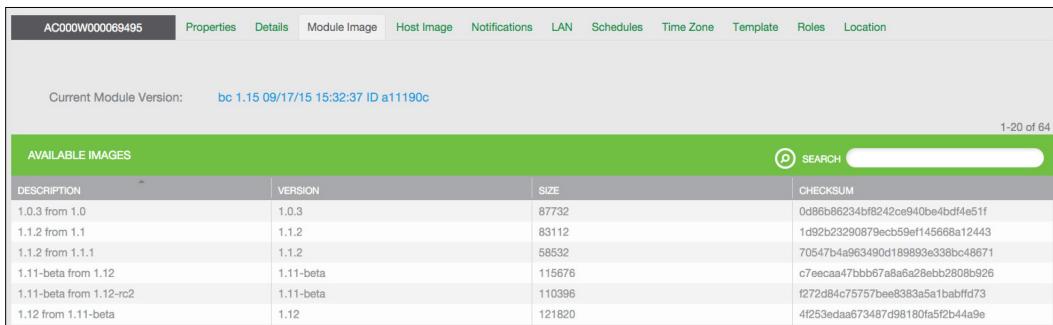
- **Button-Push**
 - **AP-Mode**
 - **Display**
 - **DSN**
 - **None** (no registration needed for this device)
 - **Enable Logging** checkbox (select to log details, unselect to not log details)
3. If any changes, click **OK**.

For **SETUP MODE** button, see [Setup Mode](#).

For **UNREGISTER** button, see [Unregister](#).

5.4 Module Image tab

Module images are actual firmware on the Ayla modules. To open the Module Image page, , click the device in the table listing on the DEVICES page, and then click the Module Image tab.



AVAILABLE IMAGES				SEARCH
DESCRIPTION	VERSION	SIZE	CHECKSUM	
1.0.3 from 1.0	1.0.3	87732	0d86b86234bf8242ce940be4bdf4e51f	
1.1.2 from 1.1	1.1.2	83112	1d92c23290879ecb59ef145668a12443	
1.1.2 from 1.1.1	1.1.2	58532	70547b4a963490d189893e338bc48671	
1.11-beta from 1.12	1.11-beta	115676	c7eeccaa47bbb67a8a6a28eb2808b926	
1.11-beta from 1.12-rc2	1.11-beta	110396	f272d84c75757bee8383a5a1babfd73	
1.12 from 1.11-beta	1.12	121820	4f253eda673487d98180fa5f2b44a9e	

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

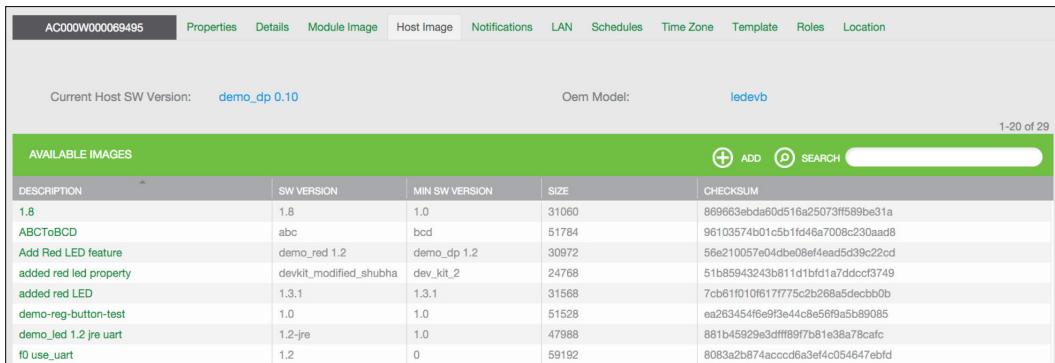
If there are no matches, the table listing is blank.

To restore the full list, remove/delete the search field text.

This screen displays the images that available.

5.5 Host Image

Host images are deployed and communicate directly with Ayla-enabled Wi-Fi modules. To open the Host Image page, click the device in the table listing on the DEVICES page, and then click the Host Image tab.

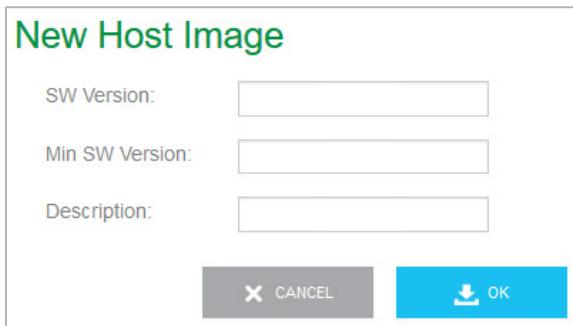


AVAILABLE IMAGES				
DESCRIPTION	SW VERSION	MIN SW VERSION	SIZE	CHECKSUM
1.8	1.8	1.0	31060	8696634eba60d516a25073ff589be31a
ABCToBCD	abc	bcd	51784	96103574b01c5b1fd46a7008c230aad8
Add Red LED feature	demo_red 1.2	demo_dp 1.2	30972	56e210057e04d4be08e4ead5d39c22cd
added red led property	devkit_modified_shubha	dev_kit_2	24768	51b85943243b811d1bfd1a7ddcf3749
added red LED	1.3.1	1.3.1	31568	7cb61f010f6177f5c2b268a5decbb0b
demo-reg-button-test	1.0	1.0	51528	ea263454f6ef93e44c8e56f9a5b89085
demo_led 1.2 jre uart	1.2-jre	1.0	47988	881b45929e3dff89f7b81e38a78cafc
f0 use_uart	1.2	0	59192	8083a2b874accdd6a3ef4c054647ebfd

- NOTE** The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.
If there are no matches, the table listing is blank.
To restore the full list, remove/delete the search field text.

5.5.1 Add a Host Image

1. Click ADD  on the Host Image tab.



New Host Image

SW Version:

Min SW Version:

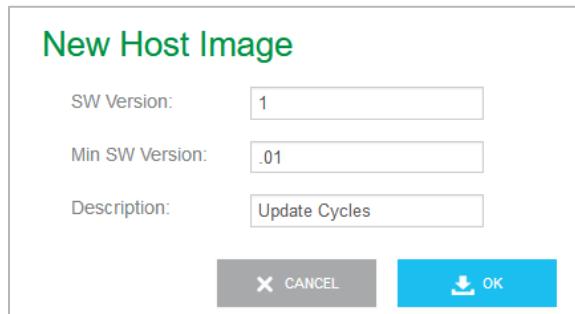
Description:

 CANCEL  OK

2. In the New Host Image dialog box, enter the details:
 - **SW Version** (this is the software version of the image)
 - **Min SW Version** (the minimum software version to be able to upgrade a host image)
 - **Description** (details on the host image)
3. Click OK.

5.5.2 Edit Host Image

1. In the Available Images table listing, click the module. This shows the New Host Image dialog box. (Notice that the fields are filled in.)

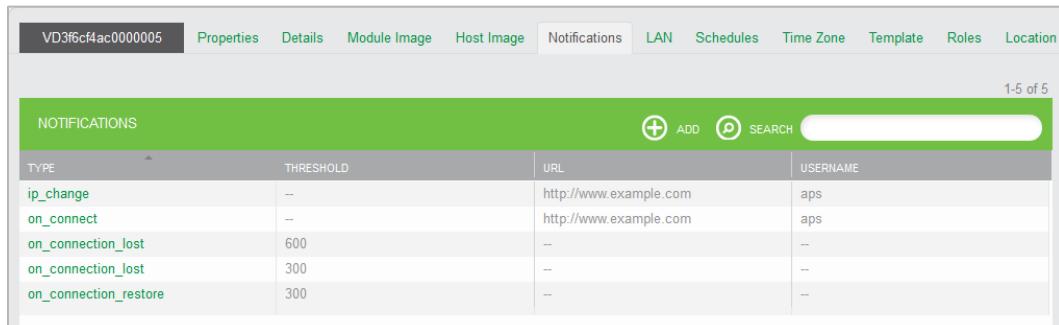


2. Edit the fields with any new information.
3. Click **OK**.

5.6 Notifications

The Notifications tab is a table listing of all notification types and their details. Ayla allows proactive Ayla customer- and user-defined alerts (i.e. email, SMS, push) with dynamic data in the notifications.

To open this view, on the Device table listing, click the device in the table listing on the DEVICES page, and then click the **Notifications** tab.



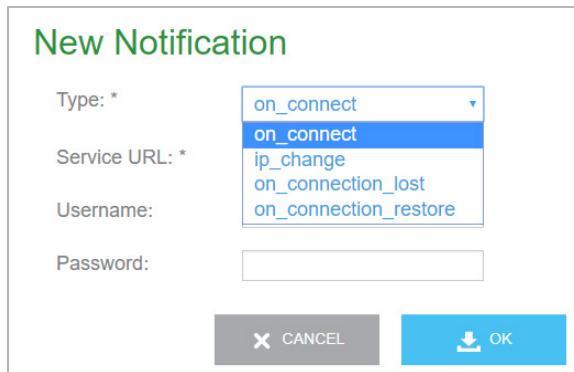
NOTIFICATIONS			
TYPE	THRESHOLD	URL	USERNAME
ip_change	--	http://www.example.com	aps
on_connect	--	http://www.example.com	aps
on_connection_lost	600	--	--
on_connection_lost	300	--	--
on_connection_restore	300	--	--

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.
If there are no matches, the table listing is blank.
To restore the full list, remove/delete the search field text.

5.6.1 Add a Notification

1. Click **ADD**  on the Notifications tab.

2. In the New Notification dialog box, select the type of notification in the **Type** drop-down:



3. Depending on the notification type, enter the remaining information required:

- **on_connect** (the notification is sent when device is connected)
 - Enter **Service URL** (URL to which notification should be sent)
 - Enter **Username** (login credentials to service URL – if needed)
 - Enter **Password** (login credentials to service URL – if needed)
 - Click **OK**.
- **ip_change** (notification when IP address changes)
 - Enter **Service URL** (URL to which notification should be sent)
 - Enter **Username** (login credentials to service URL – if needed)
 - Enter **Password** (login credentials to service URL – if needed)
 - Click **OK**.
- **on_connection_lost**
 - Enter **Threshold (in seconds)** (length of time required for the condition before the notification is activated, must be ≥ 300)
 - Click **OK**.
- **on_connection_restore** (notification when device recovers connection)
 - Enter **Threshold (in seconds)** (length of time required for the condition before the notification is activated, must be ≥ 300)
 - Click **OK**.

The new notification is listed on the Notifications table.

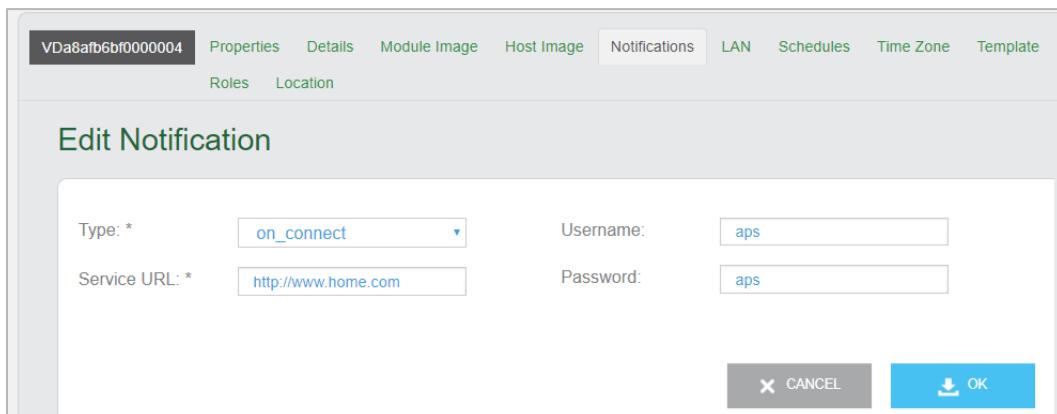
5.6.2 Review/Edit Notifications

1. On the Notifications table listing, click the notification type.



TYPE	THRESHOLD	URL	USERNAME
ip_change	--	http://www.example.com	aps
on_connect	--	http://www.example.com	aps
on_connect	--	http://www.examle.com	aps
on_connection_lost	600	--	--
on_connection_lost	300	--	--
on_connection_restore	300	--	--

2. On the Edit Notification page, change the parameters as needed.



VDa8afb6bf0000004 Properties Details Module Image Host Image Notifications LAN Schedules Time Zone Template Roles Location

Edit Notification

Type: * Username:

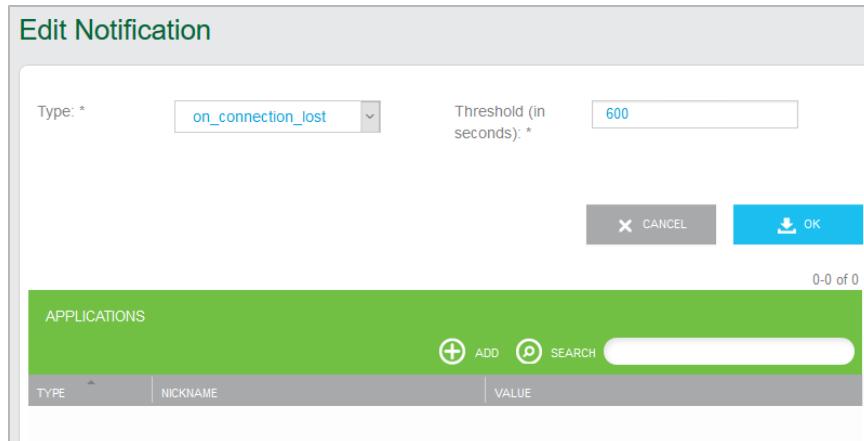
Service URL: * Password:

3. If changed, click OK.

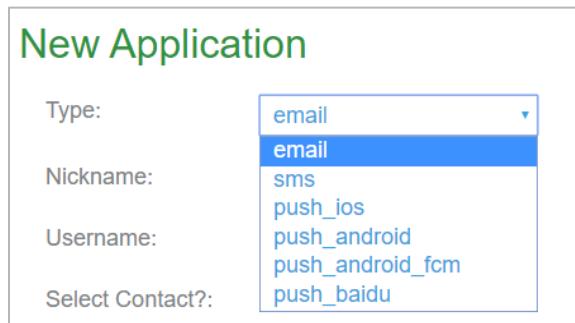
5.6.3 Add an Application to Notification

Applications are used to inform you of changes to a notification. One or more applications can be added to a notification:

1. On the Edit Notifications page, Applications table, click **ADD** .



2. On the New Application dialog box, **Type** drop-down, select the application.



3. Enter the details for each type of Application as follows:

Type drop-down = email

New Application

Type:	<input type="text" value="email"/>
Nickname:	<input type="text"/>
Username:	<input type="text"/>
Select Contact?:	<input type="checkbox"/>
Email:	<input type="text"/>
Message:	<input type="text"/>
Email Template Id:	<input type="text"/>
Email Subject:	<input type="text"/>
Email Body HTML:	<input type="text"/>

1. Enter **Nickname** (user-friendly name)
2. Enter **Username** (greeting in the notification message)
3. For **Select Contact?** Checkbox:

If the **Select Contact?** checkbox is selected, the name of the contact from the **Contact** drop-down list, which provides all available contacts from your [Contact List](#).

Select Contact?:	<input checked="" type="checkbox"/>
Contact:	<input type="text" value="Sam"/>

If the **Select Contact?** checkbox is not selected, in **Email**, enter the email address to which this information should be sent.

Select Contact?:	<input type="checkbox"/>
Email:	<input type="text"/>

4. Enter **Message** (message to be sent to the recipient)
5. Enter **Email Template Id** (if a template is available)
6. Enter **Email Subject** (subject line of email)
7. Enter **Email Body HTML** (use HTML code as needed)
8. Click **OK**.

Type drop-down = sms

New Application

Type:	<input type="text" value="sms"/>
Nickname:	<input type="text"/>
Username:	<input type="text"/>
Select Contact?:	<input type="checkbox"/>
Country Code:	<input type="text"/>
Phone Number:	<input type="text"/>
Message:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

1. Enter **Nickname** (user-friendly name for the application).
2. Enter **Username** (greeting in the notification message)
3. On **Select Contact** checkbox

If the **Select Contact?** checkbox is selected, the name of the contact from the **Contact** drop-down list, which provides all available contacts from your [Contact List](#).

Select Contact?:	<input checked="" type="checkbox"/>
Contact:	<input type="text" value="Sam"/>

If the **Select Contact?** checkbox is not selected, enter phone country code associated with this application in **Country Code** and then in **Phone Number**, enter a phone number of whom to contact with regard to this application.

Select Contact?:	<input type="checkbox"/>
Country Code:	<input type="text"/>
Phone Number:	<input type="text"/>

4. Enter **Phone Number** (phone number to contact)
5. Enter **Message** (message to be sent to the recipient)

NOTE The length of the message should be maximum of 120 characters to allow for overhead (i.e. notification object name length is 20, etc.). SMS messages longer than 160 are split into two messages.

6. Click **OK**.

Type drop-down = push_ios

New Application

Type:	<input type="text" value="push_ios"/>
Nickname:	<input type="text"/>
Registration Id:	<input type="text"/>
Application Id:	<input type="text"/>
Message:	<input type="text"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

1. Enter **Nickname** (user-friendly name)
2. Enter **Registration Id**
3. Enter **Application Id**
4. Enter **Message** (message to be sent to the recipient – up to 4K characters)
5. Enter **Sound File Name** (sound to be played when message is received)
6. Enter **Data** (contextual information)
7. Click **OK**

Type drop-down = push_android

New Application

Type:	<input type="text" value="push_android"/>
Nickname:	<input type="text"/>
Registration Id:	<input type="text"/>
Message:	<input type="text"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

1. Enter **Nickname** (user-friendly name)
2. Enter **Registration Id**
3. Enter **Message** (message to be sent to the recipient – up to 4K characters)
4. Enter **Sound File Name**. (sound to be played when message is received)
5. Enter **Data** (contextual information)
6. Click **OK**

Type drop-down = **push_android_fcm** (Firebase Cloud Messaging)

New Application

Type:	<input style="width: 100%; border: 1px solid #ccc; height: 25px;" type="text" value="push_android_fcm"/>
Nickname:	<input style="width: 100%; border: 1px solid #ccc; height: 25px;" type="text"/>
Registration Id:	<input style="width: 100%; border: 1px solid #ccc; height: 25px;" type="text"/>
Message:	<input style="width: 100%; border: 1px solid #ccc; height: 25px;" type="text"/>
Sound File Name:	<input style="width: 100%; border: 1px solid #ccc; height: 25px;" type="text"/>
Data:	<input style="width: 100%; border: 1px solid #ccc; height: 25px;" type="text"/>

X CANCEL ⬇ OK

1. Enter **Nickname** (user-friendly name)
2. Enter **Registration Id**
3. Enter **Message** (message to be sent to the recipient – up to 4K characters)
4. Enter **Sound File Name**. (sound to be played when message is received)
5. Enter **Data** (contextual information)
6. Click **OK**

Type drop-down = push_baidu

New Application

Type:	<input type="text" value="push_baidu"/>
Nickname:	<input type="text"/>
Message:	<input type="text"/>
Application Id:	<input type="text"/>
Channel Id:	<input type="text"/>
Title:	<input type="text"/>

1. Enter **Nickname** (user-friendly name)
2. Enter **Message** (message to be sent to the recipient, which can be a maximum of 4000 characters)
3. On **Application Id** drop-down (select item)
4. Enter **Channel Id**
5. Enter **Title** (title of the notification sent to user)
6. Click **OK**.

5.6.4 Review/edit Notification Application

Type drop-down – email

1. On the Type drop-down, select **email**.

Edit Application

Type:

Nickname:

Username:

Select Contact?:

Email:

Message:

Email Template Id:

Email Subject:

Email Body HTML:

X CANCEL OK

Editable fields are:

- **Username** (greeting in the notification message)
- **Nickname**
- **Select Contact** checkbox (if selected, Email field replaced with Contacts drop-down)
- **Email** (if Select Contact checkbox selected, this is replaced with Contact drop-down)
- **Message** (message to be sent)
- **Email Template Id**
- **Email Subject**
- **Email Body HTML**

2. If any changes, click **OK**.

Type drop-down – sms

1. On the Type drop-down, select **sms**.

Edit Application

Type:	<input type="text" value="sms"/>
Nickname:	<input type="text" value="asdf"/>
Username:	<input type="text" value="asdf"/>
Select Contact?:	<input type="checkbox"/>
Country Code:	<input type="text"/>
Phone Number:	<input type="text"/>
Message:	<input type="text" value="this is up"/>

CANCEL **OK**

Editable fields are:

- **Nickname**
- **Username** (greeting in the notification message)

If the **Select Contact?** checkbox is selected, the name of the contact from the **Contact** drop-down list, which provides all available contacts from your [Contact List](#).

Select Contact?:	<input checked="" type="checkbox"/>
Contact:	<input type="text" value="Sam"/>

If the **Select Contact?** checkbox is not selected, enter phone country code associated with this application in **Country Code** and then in **Phone Number**, enter a phone number of whom to contact with regard to this application.

Select Contact?:	<input type="checkbox"/>
Country Code:	<input type="text"/>
Phone Number:	<input type="text"/>

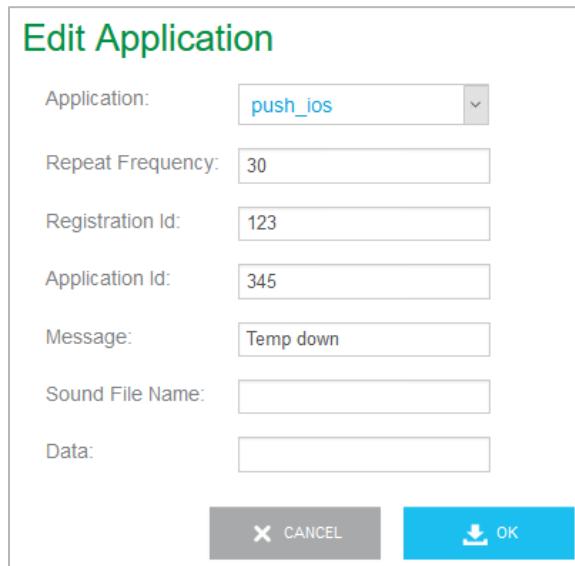
- **Message** (message to be sent to the recipient – sms messages longer than 160 is split into two messages)

NOTE Message length should be maximum of 120 characters to allow for overhead (i.e, notification object name length is 20, etc.).

2. If any changes, click **OK**.

Type drop-down – push_ios

1. On the Type drop-down, select **push_ios**.



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

Field	Value
Application:	push_ios
Repeat Frequency:	30
Registration Id:	123
Application Id:	345
Message:	Temp down
Sound File Name:	
Data:	

At the bottom are two buttons: "X CANCEL" and a blue "OK" button with a download icon.

Editable fields are:

- **Nickname**
- **Registration Id**
- **Application Id**
- **Message** (up to 4K characters)
- **Sound File Name**
- **Data** (contextual information)

2. If any changes, click **OK**.

Type drop-down – push_android

1. In the Type drop-down list, select **push_android**.

Edit Application

Type:	<input type="text" value="push_android"/>
Nickname:	<input type="text" value="asdf"/>
Registration Id:	<input type="text"/>
Message:	<input type="text" value="this is up"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>

Editable fields are:

- o **Nickname**
- o **Registration Id**
- o **Message** (up to 4K characters)
- o **Sound File Name**
- o **Data** (contextual information)

2. If any changes, click **OK**.

Type drop-down – push_android_fcm (Firebase Cloud Messaging)

1. On the Type drop-down, select **push_android_fcm**.

Edit Application

Type:	<input type="text" value="push_android_fcm"/>
Nickname:	<input type="text" value="asdf"/>
Registration Id:	<input type="text"/>
Message:	<input type="text" value="this is down."/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>

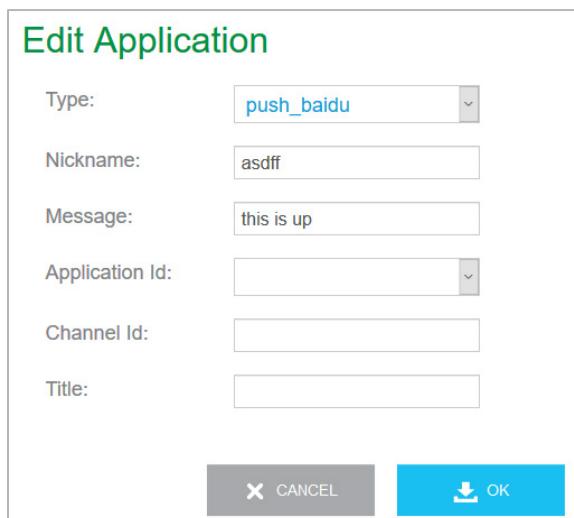
Editable fields are:

- **Nickname**
- **Registration Id**
- **Message** (up to 4K characters)
- **Sound File Name**
- **Data** (contextual information)

2. If any changes, click **OK**.

Type drop-down – push_baidu

1. On the Type drop-down, select **push_baidu**.



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

Type:	push_baidu
Nickname:	asdff
Message:	this is up
Application Id:	
Channel Id:	
Title:	

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

Edit the fields in this dialog box as follows:

- **Nickname**
- **Message** (up to 4K characters)
- **Application Id** drop-down
- **Channel Id**
- **Title**

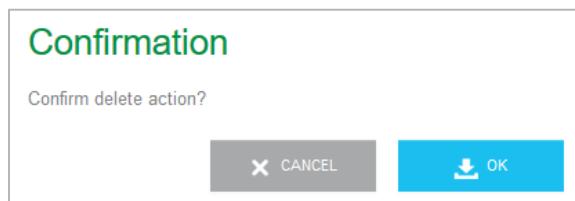
2. If any changes, click **OK**.

5.6.5 Delete Notification

1. On the Notifications table listing, select the notification to delete.

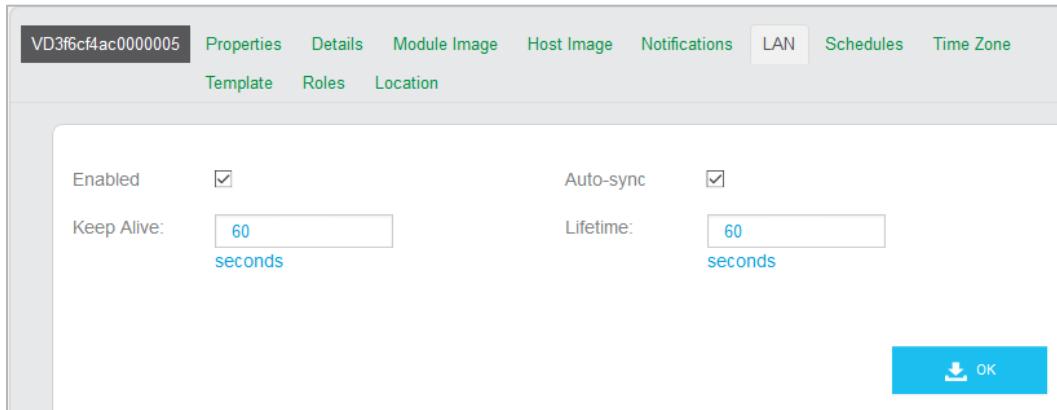
NOTIFICATIONS			
TYPE	THRESHOLD	URL	USERNAME
ip_change	--	http://www.example.com	aps
on_connect	--	http://www.example.com	aps
on_connect	--	http://www.example.com	aps
on_connection_lost	600	--	--
on_connection_lost	300	--	--
on_connection_restore	300	--	--

2. Click **DELETE**  **DELETE**.
3. On the Confirmation dialog box, click **OK**.



5.7 LAN

LAN (Local Area Network) provides local communications between applications and devices when they are both on the same Wi-Fi network. To open the LAN page, click the device in the table listing on the DEVICES page, and then click the LAN tab.



A configuration dialog box for the LAN tab. The top navigation bar includes tabs for Properties, Details, Module Image, Host Image, Notifications, LAN (selected), Schedules, and Time Zone. Sub-tabs for Template, Roles, and Location are also present. The main configuration area contains the following fields:

Enabled	<input checked="" type="checkbox"/>	Auto-sync	<input checked="" type="checkbox"/>	
Keep Alive:	60	seconds	60	seconds

At the bottom right is a blue "OK" button with a downward arrow.

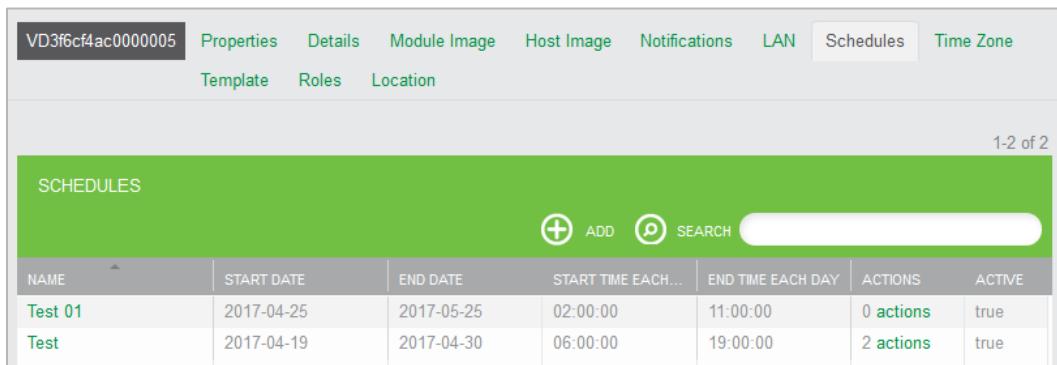
1. Edit the details for LAN as follows:
 - **Enabled** checkbox:
 - Selected (LAN is enabled for the device)
 - Unselected (LAN not enabled)
 - **Auto-sync** checkbox:
 - Selected (automatically sync variables on reconnect)

Unselected (no syncing)

- Enter **Keep Alive** value (how often mobile app sends heartbeat to module and keep session alive)
 - Enter **Lifetime** value (number of seconds the unique LAN-paring keys are valid)
Default is 15552000 (180 days).
2. Click **OK**.

5.8 Schedules

Schedules are used to manage device activity. To configure schedules, click the device in the table listing on the Devices page, and then click the Schedules tab.



NAME	START DATE	END DATE	START TIME EACH...	END TIME EACH DAY	ACTIONS	ACTIVE
Test 01	2017-04-25	2017-05-25	02:00:00	11:00:00	0 actions	true
Test	2017-04-19	2017-04-30	06:00:00	19:00:00	2 actions	true

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

If there are no matches, the table listing is blank.

To restore the full list, delete any text in the Search field.

5.8.1 Add New Schedule

1. On the device Schedules tab, click **ADD**  the New Schedule dialog box.

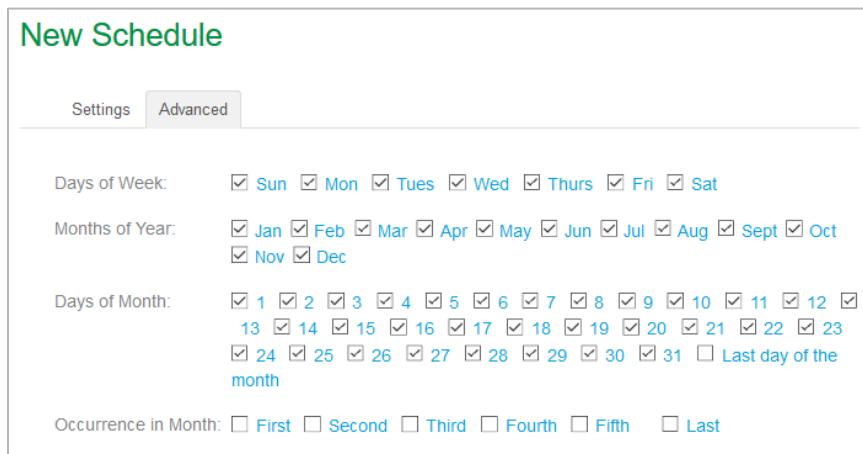
2. Enter the details on the Settings tab as follows:

New Schedule

Settings		Advanced	
Name: *	<input type="text"/>	Interval (in seconds):	<input type="text"/>
Display Name:	<input type="text"/>	UTC:	<input type="checkbox"/>
Direction: *	<input type="button" value="▼"/>	Fixed Actions:	<input type="checkbox"/>
Start Time Each Day: *	<input type="text"/>	Active:	<input checked="" type="checkbox"/>
End Time Each Day:	<input type="text"/>	Days of Week:	Every Day
Start Date:	<input type="text"/>	Months of Year:	Every Month
End Date:	<input type="text"/>	Days of Month:	Every Day
Duration (in seconds):	<input type="text"/>	Occurrence in Month:	None
		<input type="button" value="X CANCEL"/>	<input type="button" value="OK"/>

- **Name** (name of the schedule)
- **Display Name** (user-friendly name).
- **Direction** drop-down, select:
 - To Device**
 - From Device**
- **Start Time Each Day** (select time to start each day)
- **End Time Each Day** (select time to end each day)
- **Start Date** (select date to start schedule)
- **End Date** (select date schedule ends)
- **Duration (in seconds)** (seconds the schedule runs)
- **Interval (in seconds)** (seconds of the interval)
- **UTC** checkbox
 - **Select** (use UTC time)
 - **Unselect** (use local time)
- **Fixed Actions** checkbox (fixed actions allowed by schedule)
 - Select** (cannot add new actions to schedule)
 - Unselect** (allow new actions to be added)

- **Active** checkbox
 - **Select** (if schedule template is active)
 - **Unselect** (if schedule template is inactive)
- 3. Click the **Advanced** tab:



New Schedule

Settings **Advanced**

Days of Week: Sun Mon Tues Wed Thurs Fri Sat

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

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

Occurrence in Month: First Second Third Fourth Fifth Last

- **Days of Week** (select/unselect days, as needed)
- **Months of Year** (select/unselect months, as needed)
- **Days of Month** (select/unselect days, as needed)
- **Occurrence in Month** (select/unselect, as needed)
- 4. Click the **Settings** tab, and then click **OK** to add this new schedule to table listing on the Schedules tab.

5.8.2 Add Actions to a Schedule

After a schedule is created, actions taken on device datapoints can be created.

1. In the Schedule table listing, click a schedule.
2. On the Schedule page, click the **Actions** tab.

Schedule Test 01

Settings
Advanced
Actions

Fixed Actions: `false`
1-3 of 3

ACTIONS
+ ADD
🔍 SEARCH

NAME	BASE TYPE	VALUE	WHEN RUNS	ACTIVE
AwayMode	integer	66	In Range	true
CoolSetPoint	integer	66	In Range	true
IndoorTemp	integer	68	At Start	true

- NOTE** The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.
- If there are no matches, the table listing is blank.
- To restore the full list, delete any text in the Search field.

3. Click ADD  to open the New Schedule Action dialog box:

New Schedule Action

Name: *

Type: *

Action Executes: *

 In Range
 At Start
 At End

Value:

Active:

 CANCEL
 OK

4. On **Name** drop-down, select the datapoint. (The **Type** is shown for the selected datapoint.)
5. In **Action Executes** list, select one radio button:
- In Range**
 - At Start**
 - At End**
6. Enter **Value**.

7. **Active** checkbox:
 - o **Select** (schedule action is active)
 - o **Unselect** (schedule action is inactive)
8. Click **OK**. (creates a new Schedule action)

5.8.3 Edit Schedule and Actions

A schedule has associated Actions that control various datapoints.

1. On the table listing, click a schedule.
2. Edit the information on the Details tab as follows:

Schedule sched-2017-04-25-16:33:42

Details		Advanced	Actions
Name: *	sched-2017-04-25-16:33:42		
Direction: *	To Device		
Start Date:	2017-04-29		
End Date:			
Start Time Each Day: *	06:00:00		
End Time Each Day:			
Ignore Threshold:			
Duration (in seconds):	11		
Interval (in seconds):	600		
UTC:	<input checked="" type="checkbox"/>		
Fixed Actions:	<input type="checkbox"/>		
Active:	<input checked="" type="checkbox"/>		
Days of Week:	Every Day		
Months of Year:	Every Month		
Days of Month:	Every Day		
Occurrence in Month:	None		

- o **Name** (name of the schedule)
- o **Direction** drop-down
 - **To Device**
 - **From Device**
- o **Start Date** (select the date to start schedule)
- o **End Date** (select the date schedule ends)
- o **Start Time Each Day** (select the time to start each day)
- o **End Time Each Day** (select time to end each day)
- o **Ignore Threshold** (value to ignore)
- o **Duration (in seconds)** (duration threshold value is ignored)

- **Interval (in seconds)**
 - **UTC** checkbox
 - **Select** (use UTC time)
 - **Unselect** (use local time)
 - **Fixed Actions** checkbox
 - **Select** (cannot add new actions to schedule)
 - **Unselect** (allow new actions to be added)
 - **Active** checkbox
 - **Select** (if schedule template is active)
 - **Unselect** (if schedule template is inactive)
3. Click the Advanced tab, and select or unselect any of the checkboxes (as needed).

Schedule sched-2017-04-25-16:33:42

Details	Advanced	Actions
Days of Week:	<input checked="" type="checkbox"/> Sun <input checked="" type="checkbox"/> Mon <input checked="" type="checkbox"/> Tues <input checked="" type="checkbox"/> Wed <input checked="" type="checkbox"/> Thurs <input checked="" type="checkbox"/> Fri <input checked="" type="checkbox"/> Sat	
Months of Year:	<input checked="" type="checkbox"/> Jan <input checked="" type="checkbox"/> Feb <input checked="" type="checkbox"/> Mar <input checked="" type="checkbox"/> Apr <input checked="" type="checkbox"/> May <input checked="" type="checkbox"/> Jun <input checked="" type="checkbox"/> Jul <input checked="" type="checkbox"/> Aug <input checked="" type="checkbox"/> Sept <input checked="" type="checkbox"/> Oct <input checked="" type="checkbox"/> Nov <input checked="" type="checkbox"/> Dec	
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"/> <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:	<input type="checkbox"/> First <input type="checkbox"/> Second <input type="checkbox"/> Third <input type="checkbox"/> Fourth <input type="checkbox"/> Fifth <input type="checkbox"/> Last	

4. Click the Actions tab, and then click the action that requires changes.

Schedule sched-2017-04-25-16:33:42

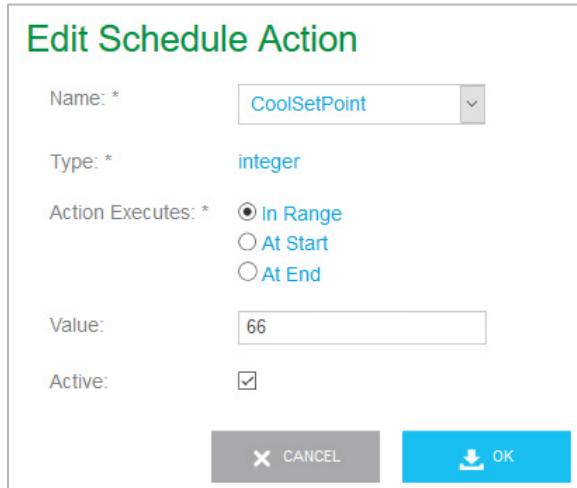
Details	Advanced	Actions										
Fixed Actions: false												
1-1 of 1												
ACTIONS <div style="display: flex; justify-content: space-between; align-items: center;"> + ADD 🔍 SEARCH </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>NAME</th> <th>BASE TYPE</th> <th>VALUE</th> <th>WHEN RUNS</th> <th>ACTIVE</th> </tr> </thead> <tbody> <tr> <td>Test</td> <td>integer</td> <td>11</td> <td>In Range</td> <td>true</td> </tr> </tbody> </table>			NAME	BASE TYPE	VALUE	WHEN RUNS	ACTIVE	Test	integer	11	In Range	true
NAME	BASE TYPE	VALUE	WHEN RUNS	ACTIVE								
Test	integer	11	In Range	true								

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

If there are no matches, the table listing is blank.

To restore the full list, delete any text in the Search field.

5. On the Edit Schedule Action dialog box, change the fields as desired:



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

- Name: * (text input: CoolSetPoint)
- Type: * (text input: integer)
- Action Executes: * (radio buttons: In Range (selected), At Start, At End)
- Value: (text input: 66)
- Active: (checkbox checked)

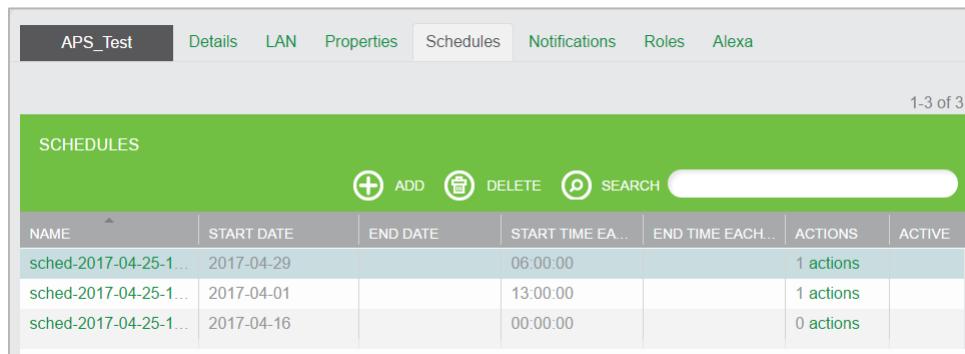
At the bottom are two buttons: "CANCEL" and "OK".

- **Action Executes** radio button
 - **In Range**
 - **At Start**
 - **At End**
- **Value**
- **Active** checkbox
 - **Select** (if action is active)
 - **Unselect** (if action is inactive)

6. When done, click **OK**.
7. To save changes, click **OK** on the Settings tab.

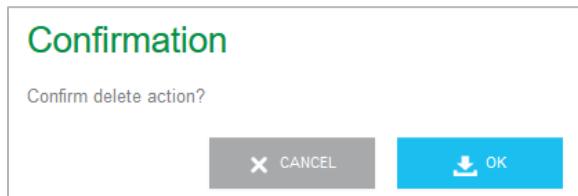
5.8.4 Delete Schedule

1. On the device Schedules table listing, click the schedule to delete.



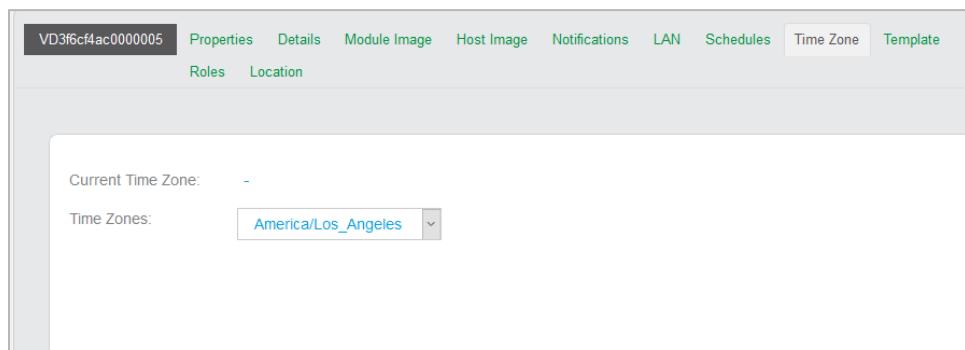
NAME	START DATE	END DATE	START TIME EA...	END TIME EACH...	ACTIONS	ACTIVE
sched-2017-04-25-1...	2017-04-29		06:00:00		1 actions	
sched-2017-04-25-1...	2017-04-01		13:00:00		1 actions	
sched-2017-04-25-1...	2017-04-16		00:00:00		0 actions	

2. Click **DELETE** .
3. In the Confirmation dialog box, click **OK**.



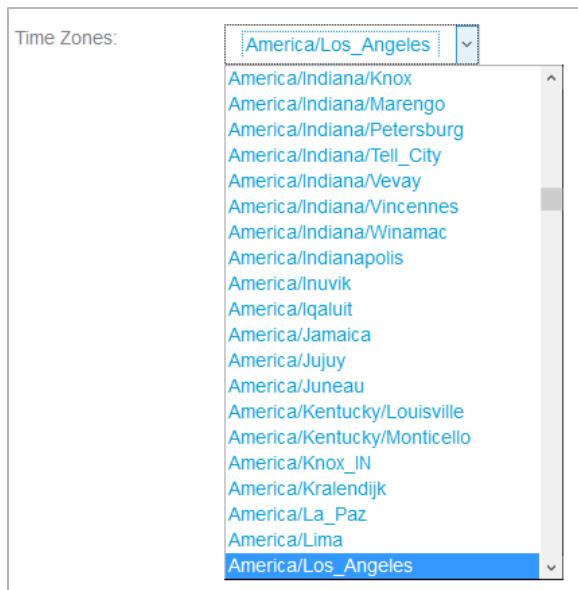
5.9 Time Zone

You can see and change the time zone assigned to the device on the Time Zone page. To open this page, click the device in the table listing on the DEVICES page, and then click the **Time Zone** tab.



To change the time zone:

1. Click the Time Zone drop-down.

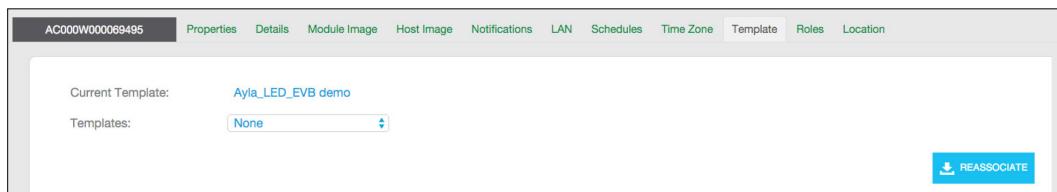


2. Click the correct time zone for the device location.

5.10 Template

A template is a group of properties (i.e. module name, OEM ID, Ayla registration type, etc.) applied to the device in the Ayla cloud. Templates are associated with the device by the Ayla Device Service during the Wi-Fi Set-up process for onboarding devices. The Template page gives you the name of the template currently associated with this device. On the Template page, you can re-associate a new template with the device.

To open the Template page, click the device in the table listing of the DEVICES page, and then click the Template tab.



To associate a different template with the device:

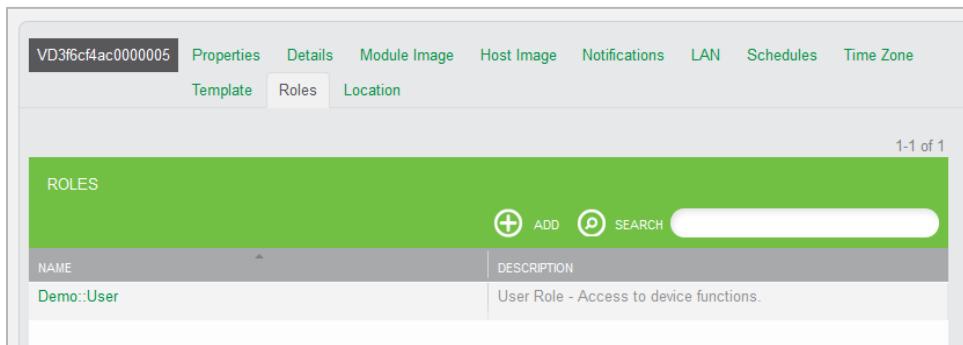
1. Select a new template from the Templates drop-down list.
2. Click REASSOCIATE.

5.11 Roles

Roles specify the access levels a user has to the views and functions in the Ayla Developer Portal and the Ayla Customer Dashboard. All users have access to devices registered to their account. The roles and tasks users can perform are dependent on the assigned role.

NOTE For more information on Roles, refer to the [Ayla Customer Dashboard User's Guide \(AY006UDP3\)](#).

You can add roles from the Roles tab. On the DEVICES page, click the device for which you wish to add a role:

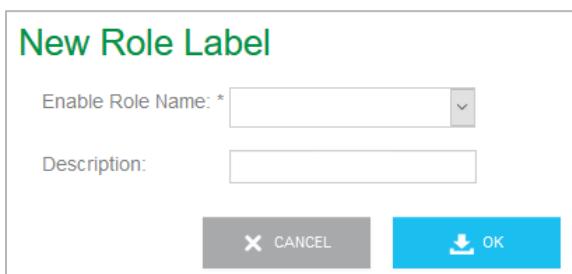


NAME	DESCRIPTION
Demo::User	User Role - Access to device functions.

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.
If there are no matches, the table listing is blank.
To restore the full list, remove/delete the search field text.

5.11.1 Add Roles

1. On the ROLES page, click ADD  to open the New Role Label dialog box.

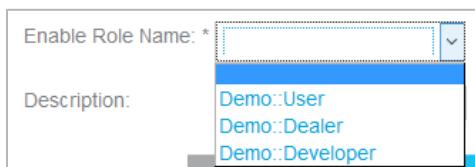


New Role Label

Enable Role Name: *

Description:

2. Click the **Enable Role Name** drop-down list, and select the role.



4. In Description, enter a short description of the role, which is displayed near the role name in the table listing on the ROLES page.
5. Click **OK**.

5.11.2 Review/edit Role

1. On the ROLES page, click the role in the table listing.

ROLES	
NAME	DESCRIPTION
Demo::User	User Role - Access to device functions.

2. In the Edit Role Label dialog box, make changes (as needed) to **Description**.

Edit Role Label

Enable Role Name: *	<input type="text" value="Demo::User"/>
Description:	<input type="text" value="User Role - Access to device functions."/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

3. When done, click **OK**.

5.11.3 Delete Roles

1. On the ROLES page, click the role in the table listing.

ROLES	
NAME	DESCRIPTION
Demo::Dealer	Dealer role permissions
Demo::User	User Role - Access to device functions.

2. Click **DELETE** .

3. In the Confirmation dialog box, click **OK**.

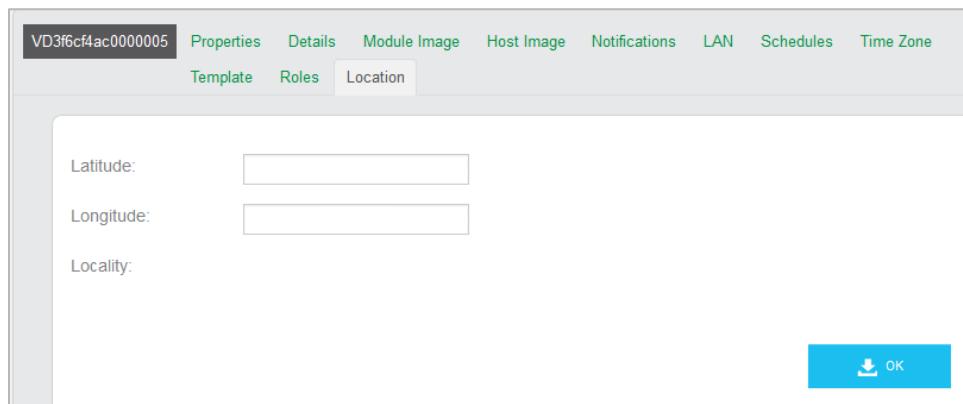
Confirmation

Confirm delete action?

<input type="button" value="X CANCEL"/>	<input type="button" value="OK"/>
---	-----------------------------------

5.12 Location

The Location tab is where you enter specific information to track the geographic location of your device. The device is located based on latitude and longitude, which is derived from the IP address of the device. To open the Location page, on the DEVICES page, click the device that you wish to locate, and then click the **Location** tab.

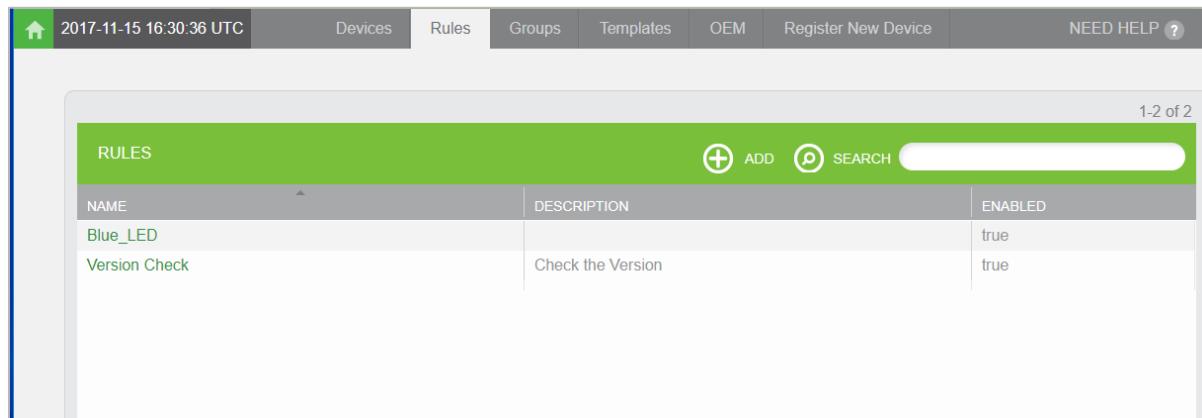


To set the device location:

1. Enter Latitude value.
2. Enter Longitude value.
3. Click **OK**.

6 Rules

The Ayla Developer Portal provides tools to create and apply rules and decision logic to devices for development and testing purposes. Rules can be configured for devices using the RULES page. To access this page, click the **Rules** tab on the main page of the portal.



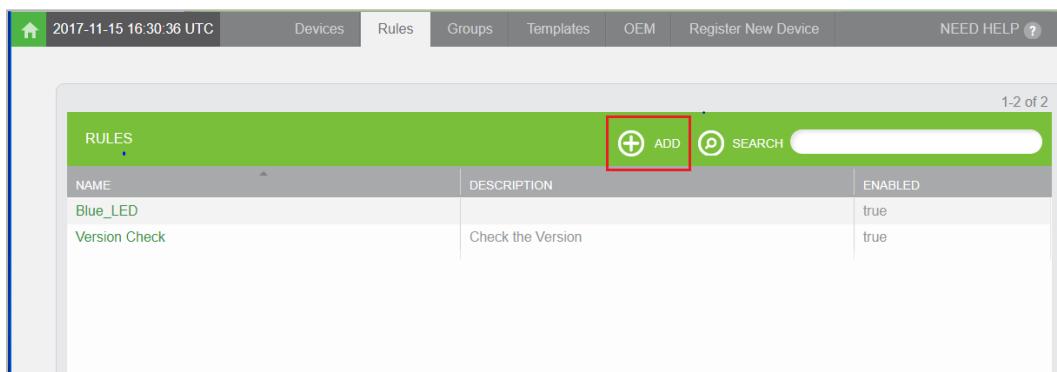
The screenshot shows the RULES page with the following data:

NAME	DESCRIPTION	ENABLED
Blue_LED		true
Version Check	Check the Version	true

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters. If there are no matches, the table listing is blank. To restore the full list, remove/delete the search field text.

6.1 Create a New Rule

1. On the RULES page, click **ADD**, as shown below.



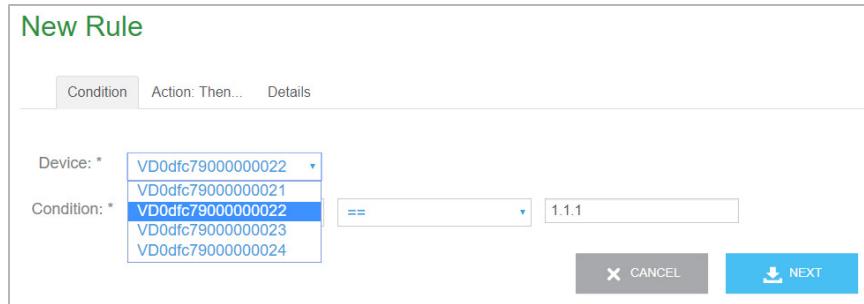
The screenshot shows the RULES page with the ADD button highlighted by a red box. The table data is the same as in the previous screenshot.

2. In the New Rule dialog box, click the Condition tab and edit the fields as follows:
 - o Select **the device** in the Device drop-down list.

New Rule

Condition Action: Then... Details

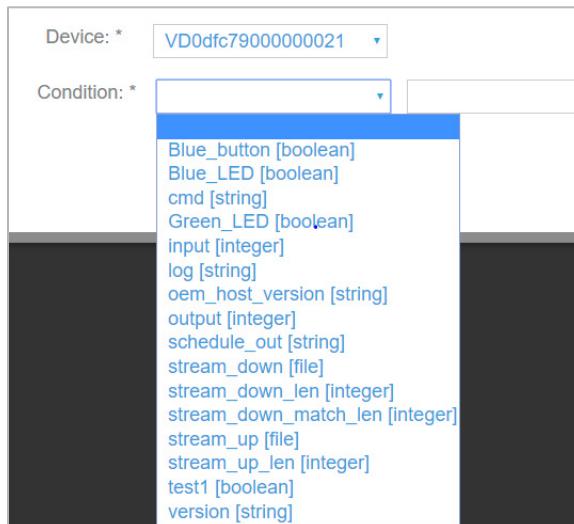
Device: * VD0dfc79000000022
Condition: * VD0dfc79000000021
VD0dfc79000000022 == 1.1.1



- Select the property from the **Condition** drop-down list.

Device: * VD0dfc79000000021

Condition: *

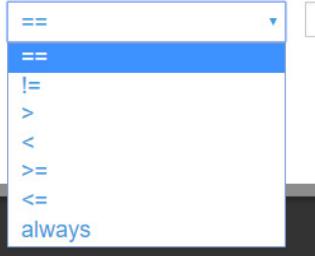


- Select the comparison operator in the second Condition drop-down list.

Device: * VD0dfc79000000021

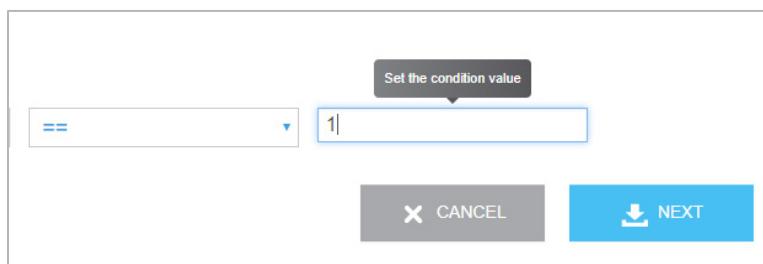
Condition: * Blue_button [boolean]

==



- Enter the value in the third Condition drop-down list.

== 1



- Click **NEXT**.
4. On the **Action Then** tab, enter the following information:
- In the **Device** drop-down, select the device.
 - In the **Property** drop-down, select the property.
 - In the **Property** value textbox, enter the value.
 - Click **NEXT**.
5. On the **Details** tab:
- Select or unselect Enabled checkbox:
When Enabled, the rule is active on the device.
When Disabled, the rule is not active on the device.
 - In **Name**, enter a name for the rule.
 - In **Description**, enter a brief description of the rule for the Rule table listing)
6. Click **OK**.

NOTE When **OK** is clicked, a validation check is made on the rule. If acceptable, the rule is displayed in the Rule table listing. If not, an error dialog displays. See Error Handling below.

6.1.1 Error Handling

An error condition displays if there are any problems with the rule configuration, as shown below.

ARE-488: Action subject property is oem scope or read only, hence cannot be modified.
ARE-491: Action subject property direction is output, hence cannot be modified.

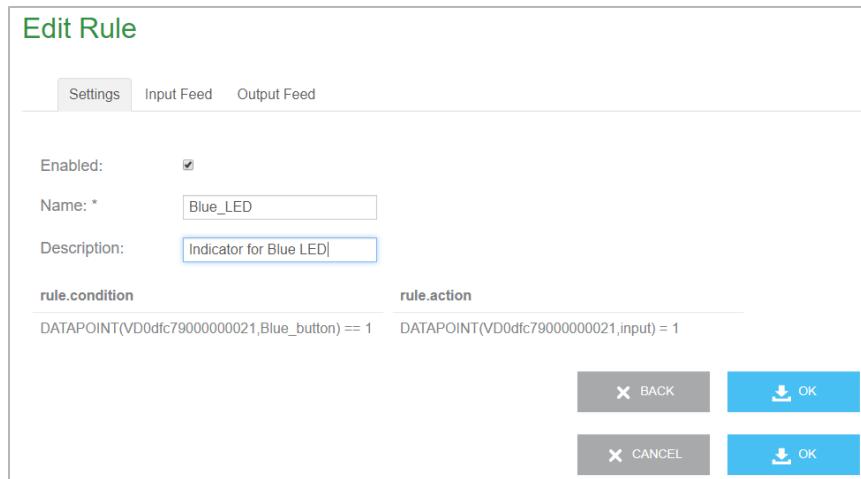
To correct the error:

1. Adjust the information entered on the Condition tab and/or the Action Then tab.
2. When done, on **Details** tab, click **OK**.

If the error conditions are fixed, the rule is accepted. If not, make the necessary adjustments until the rule conditions are acceptable.

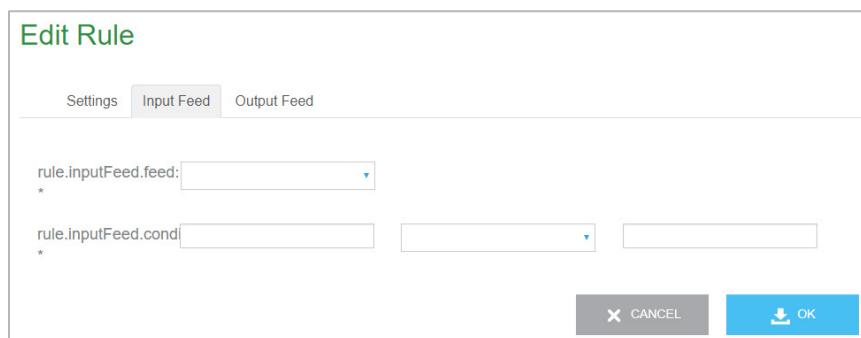
6.2 Review/Edit Rule Details

1. In the Rules table listing, click the Name of the rule to be reviewed/edited. This displays the Edit Rule dialog box.



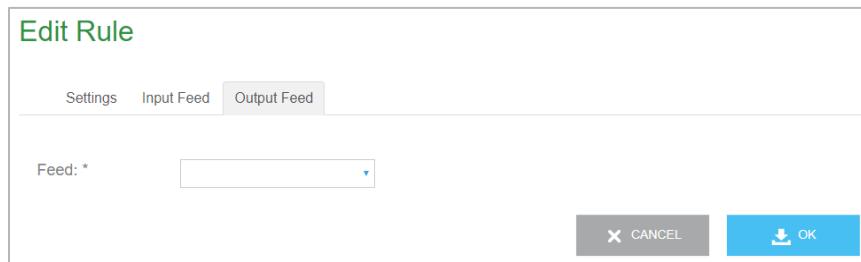
The screenshot shows the 'Edit Rule' dialog box with the 'Settings' tab selected. The rule is named 'Blue_LED' and is described as an 'Indicator for Blue LED'. The condition is 'rule.condition: DATAPOINT(VD0dfc79000000021,Blue_button) == 1' and the action is 'rule.action: DATAPOINT(VD0dfc79000000021,input) = 1'. There are four 'OK' buttons: 'OK' (top right), 'OK' (bottom right), 'OK' (top right of 'BACK'), and 'OK' (bottom right of 'BACK').

2. On Settings tab, make changes, as needed.
3. On Input Feed tab, make changes, as needed.



The screenshot shows the 'Edit Rule' dialog box with the 'Input Feed' tab selected. It shows fields for 'rule.inputFeed.feed' and 'rule.inputFeed.condition'. There are two 'OK' buttons: 'OK' (bottom right) and 'OK' (top right of 'CANCEL').

4. On Output Feed tab, make changes, as needed.

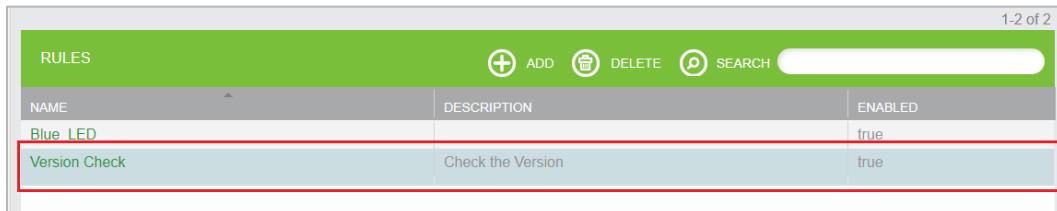


The screenshot shows the 'Edit Rule' dialog box with the 'Output Feed' tab selected. It shows a 'Feed' dropdown menu. There are two 'OK' buttons: 'OK' (bottom right) and 'OK' (top right of 'CANCEL').

5. Click OK.

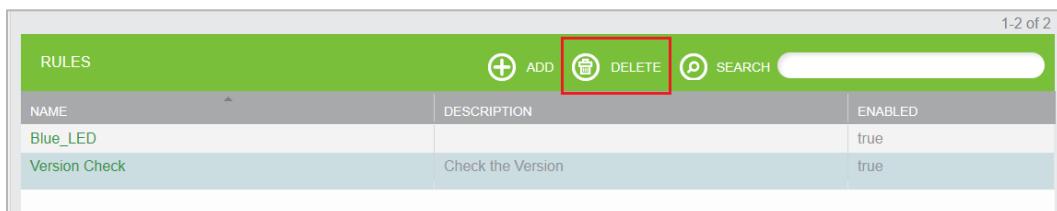
6.3 Delete Rule

1. In Rules table listing, click on the row to select the rule to delete.



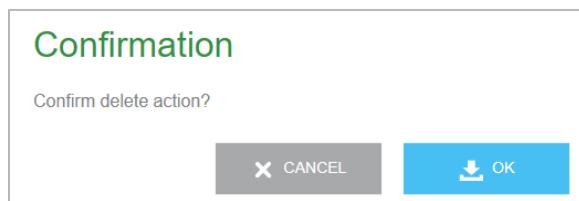
RULES		
NAME	DESCRIPTION	ENABLED
Blue_LED		true
Version Check	Check the Version	true

2. Click the DELETE button.



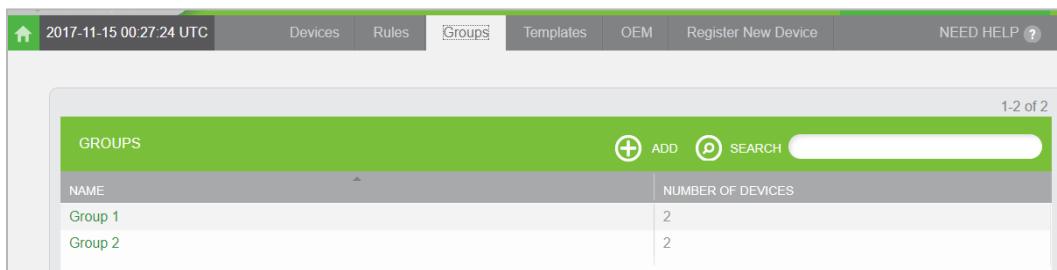
RULES		
NAME	DESCRIPTION	ENABLED
Blue_LED		true
Version Check	Check the Version	true

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



7 Groups

You can create groups of devices for easier control and testing of a number of devices. To do this, click the Groups tab on the main page of the portal.

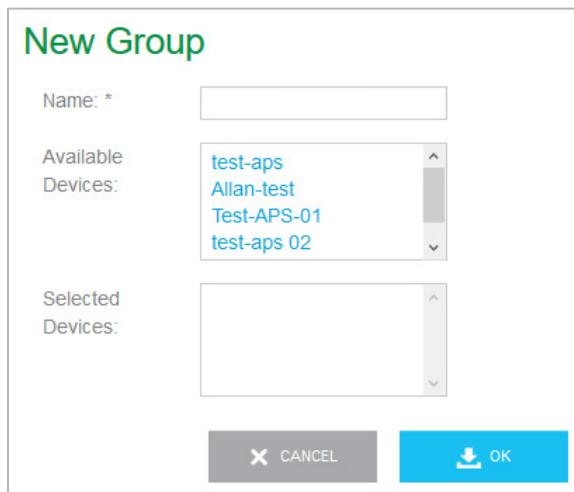


NAME	NUMBER OF DEVICES
Group 1	2
Group 2	2

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters. If there are no matches, the table listing is blank. To restore the full list, remove/delete the search field text.

7.1 Create a New Group

1. On the Groups page, click **ADD** to open the New Group dialog box.
2. In this dialog box, enter a name for the group in the Name field.



New Group

Name: *

Available Devices:

Selected Devices:

CANCEL OK

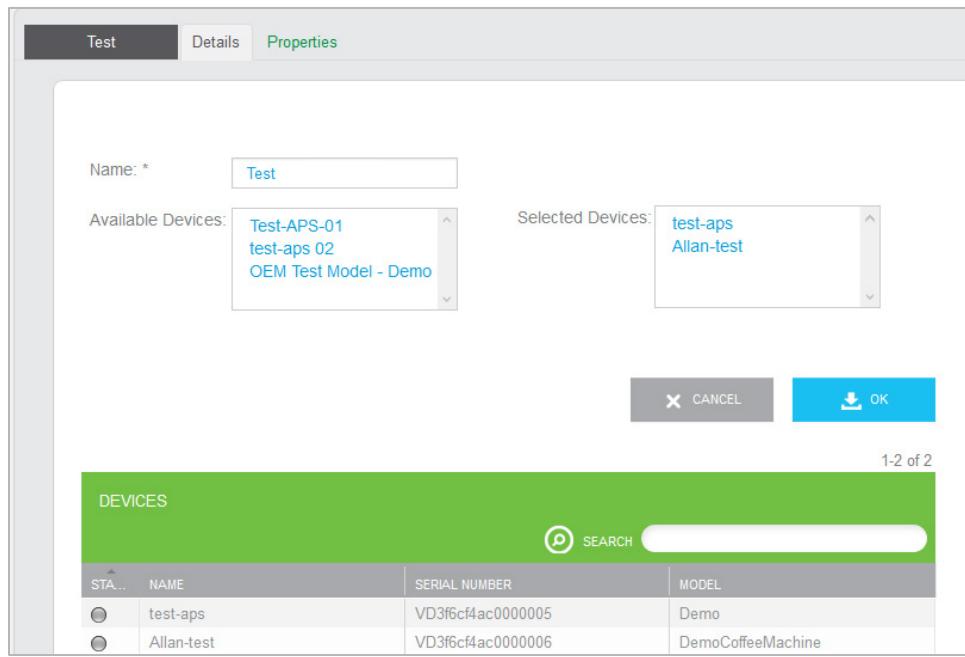
3. In Available Devices list, click each device to add to the Selected Devices list.
4. When done, click **OK**.

The new group is added to the Groups table listing.

7.2 Review/edit Group Details

Group details can be edited.

1. On the Groups table listing, click the group name.



NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

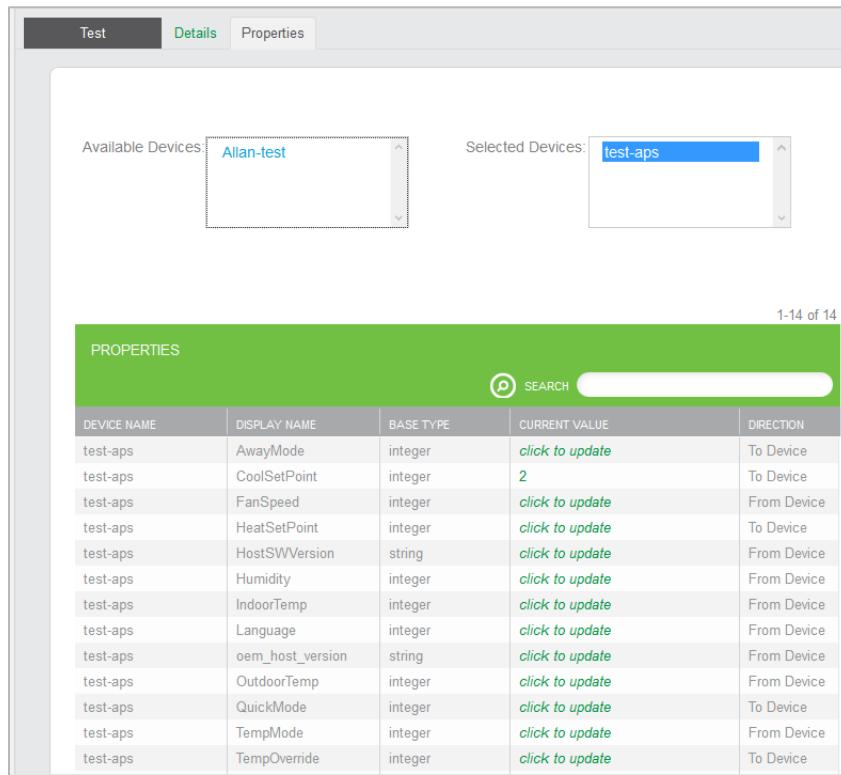
If there are no matches, the table listing is blank.

To restore the full list, remove/delete the search field text.

2. To adjust the selected devices:

- To add a device to the **Selected Devices**, click the device in **Available Devices** list.
- To remove devices, in **Selected Devices**, click the device.
- When done, click **OK**.

3. On the Properties tab, in **Available Devices**, click the device to move to **Selected Devices**. Any properties are shown in the Properties table listing.



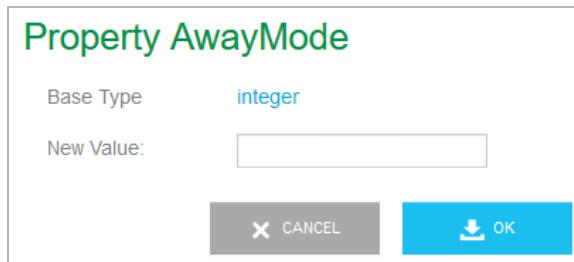
Available Devices: Allan-test

Selected Devices: test-aps

PROPERTIES

DEVICE NAME	DISPLAY NAME	BASE TYPE	CURRENT VALUE	DIRECTION
test-aps	AwayMode	integer	click to update	To Device
test-aps	CoolSetPoint	integer	2	To Device
test-aps	FanSpeed	integer	click to update	From Device
test-aps	HeatSetPoint	integer	click to update	To Device
test-aps	HostSWVersion	string	click to update	From Device
test-aps	Humidity	integer	click to update	From Device
test-aps	IndoorTemp	integer	click to update	From Device
test-aps	Language	integer	click to update	From Device
test-aps	oem_host_version	string	click to update	From Device
test-aps	OutdoorTemp	integer	click to update	From Device
test-aps	QuickMode	integer	click to update	To Device
test-aps	TempMode	integer	click to update	From Device
test-aps	TempOverride	integer	click to update	To Device

4. In Current Value column, click the **click to update** link to open the Property dialog box.



Property AwayMode

Base Type: integer

New Value:

- Enter **New Value**.
- If changed, click **OK**.

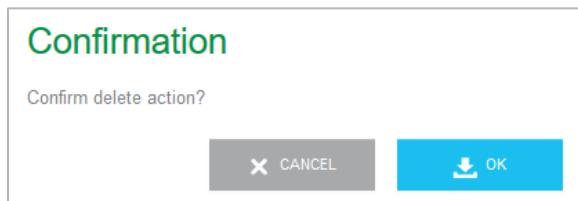
7.3 Delete Group

1. In Groups table listing, select the group to delete.



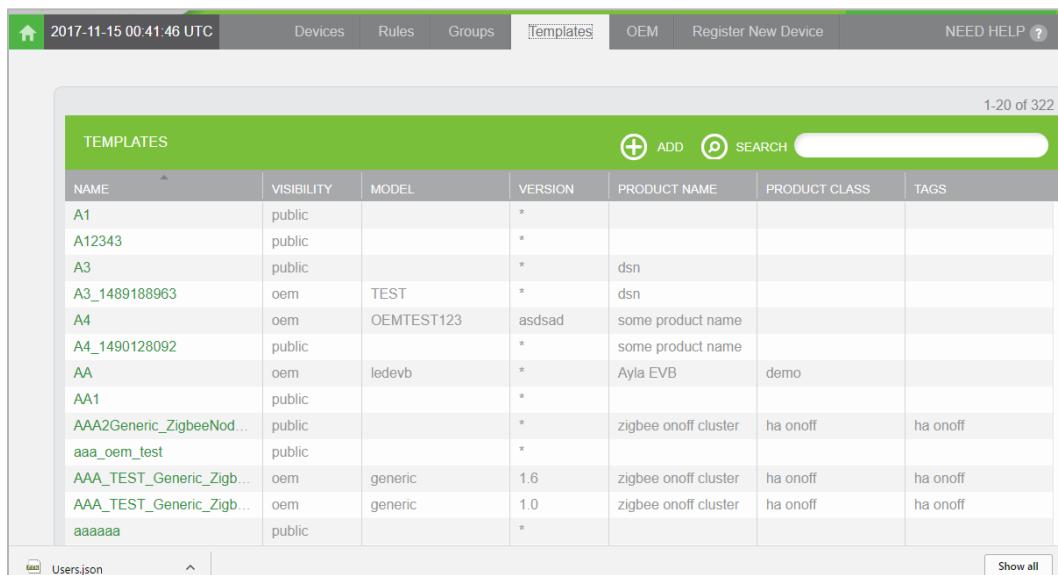
NAME	NUMBER OF DEVICES
Another Group	2
Test	2
testing group	2

2. Click **DELETE** .
3. On the Confirmation dialog box, click **OK**.



8 Templates

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



TEMPLATES						
NAME	VISIBILITY	MODEL	VERSION	PRODUCT NAME	PRODUCT CLASS	TAGS
A1	public		*			
A12343	public		*			
A3	public		*	dsn		
A3_1489188963	oem	TEST	*	dsn		
A4	oem	OEMTEST123	asdsad	some product name		
A4_1490128092	public		*	some product name		
AA	oem	ledevb	*	Ayla EVB	demo	
AA1	public		*			
AAA2Generic_ZigbeeNod...	public		*	zigbee onoff cluster	ha onoff	ha onoff
aaa_oem_test	public		*			
AAA_TEST_Generic_Zigb...	oem	generic	1.6	zigbee onoff cluster	ha onoff	ha onoff
AAA_TEST_Generic_Zigb...	oem	generic	1.0	zigbee onoff cluster	ha onoff	ha onoff
aaaaaa	public		*			

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the text entered.

If there are no matches, the table listing is blank.

To restore the full list, remove/delete all text in the Search field.

Because templates contain a pre-configured set of properties and functions, the template saves development time for similar devices. Templates can have the following visibility:

- Public, - available to all users.
- Private - can only be viewed by the user who entered the template.
- OEM - can only be viewed by users with an OEM assigned role.

The process of applying template settings to the Ayla device is called template association. The template and devices are also associated with the Ayla cloud, so that the Ayla Services know what properties the device has available. Template versioning is also controlled in the Ayla Cloud.

A template property list can be exported using the Export function. Properties can be pushed with an app. These can be imported into another template using the import function. Another process is to clone a template.

Trigger apps, device notifications, notification apps, and a default product name can be modified. Template re-association works across template versions only, not work across models.

Template Properties

Templates can contain:

- Module name
- Your OEM ID
- Template version number
- Collection of properties (shared global variables)
- Triggers (to enable specific responses to specified events - for example, send text message when thermostat reaches a specific temperature)
- Schedules (define when an action takes place - for example, a night light timer)
- Registration type (includes DSN, LAN mode, push button, etc.)
- Enable LAN mode (LAN modes is an optimization that reduces network latency)

Template Naming Conventions

Naming conventions are ASCII strings (up to 27 characters) with these conditions:

- First character must be alphabetic
- Upper and lower-case letters
- Numbers
- Hyphens (-)
- Underscores (_)
- No spaces
- No special characters

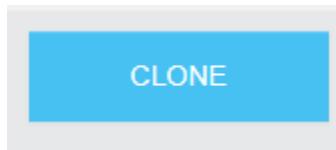
8.1 Template Management

8.1.1 Clone a Template

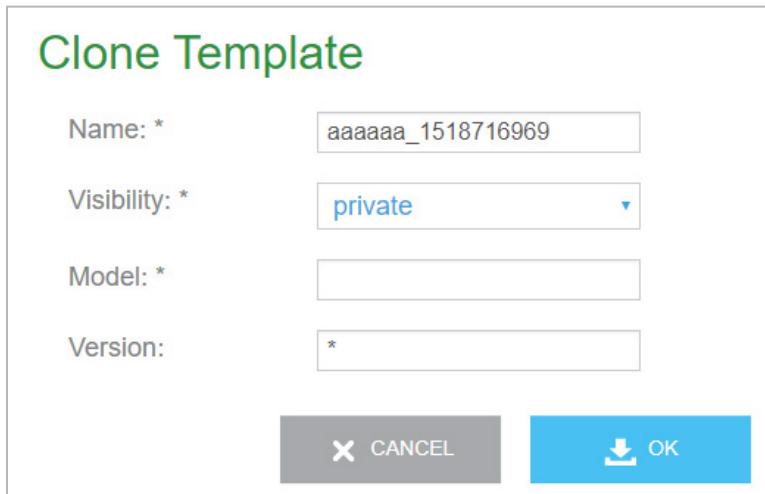
To clone an existing template:

1. On the Template table listing, select a template.

2. At the lower right corner, click the **CLONE** button.



3. On the Clone Template dialog, enter a **Name**.



The dialog box is titled "Clone Template". It contains four input fields: "Name: *" with the value "aaaaaa_1518716969", "Visibility: *" with the value "private" selected from a dropdown, "Model: *" with an empty field, and "Version: *" with the value "*". At the bottom are "CANCEL" and "OK" buttons.

Clone Template	
Name: *	aaaaaa_1518716969
Visibility: *	private
Model: *	
Version:	*

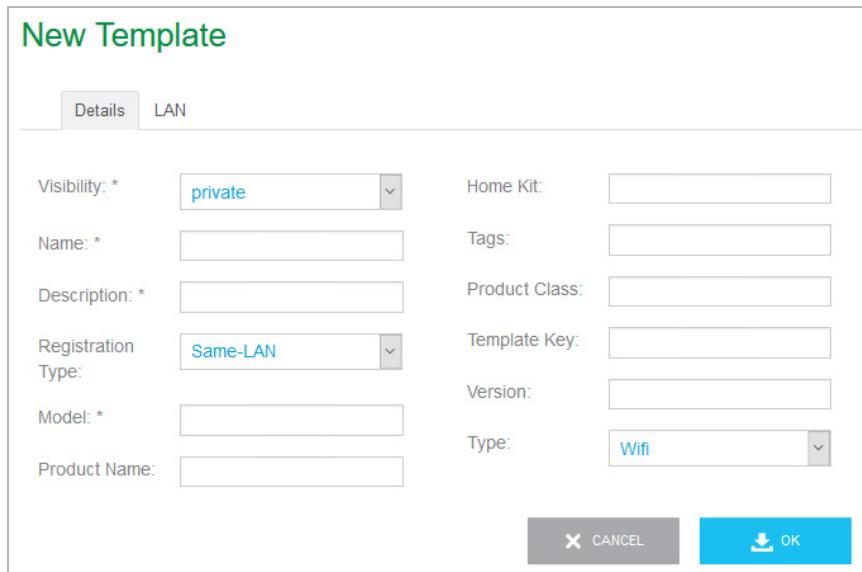
X CANCEL **OK**

4. On the Visibility drop-down, select:
 - **private** (template visible only to the user)
 - **oem** (template visible to all users)
5. In the **Model** text field, enter the OEM Model.
6. Enter the Version.
To apply this template to all versions, enter asterisk "*".
7. Click **OK**. The template is added to the table listing.

8.1.2 Add Template

1. On the Templates table, click **ADD**  **ADD**.

2. On the New Template dialog box, click the Details tab.



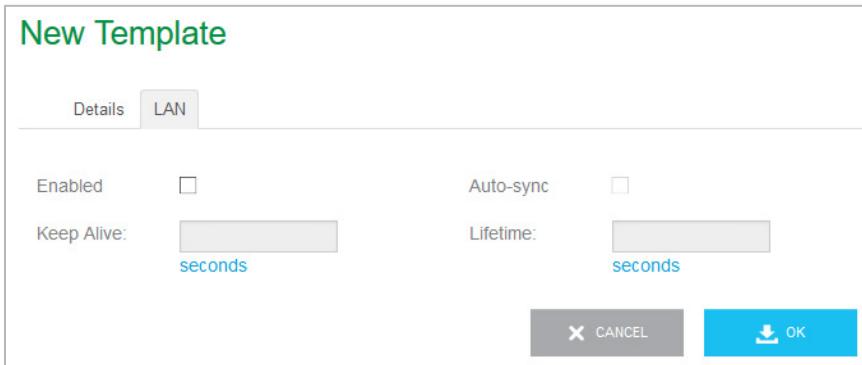
New Template

Details LAN

Visibility: *	private	Home Kit:	
Name: *		Tags:	
Description: *		Product Class:	
Registration Type:	Same-LAN	Template Key:	
Model: *		Version:	
Product Name:		Type:	Wifi

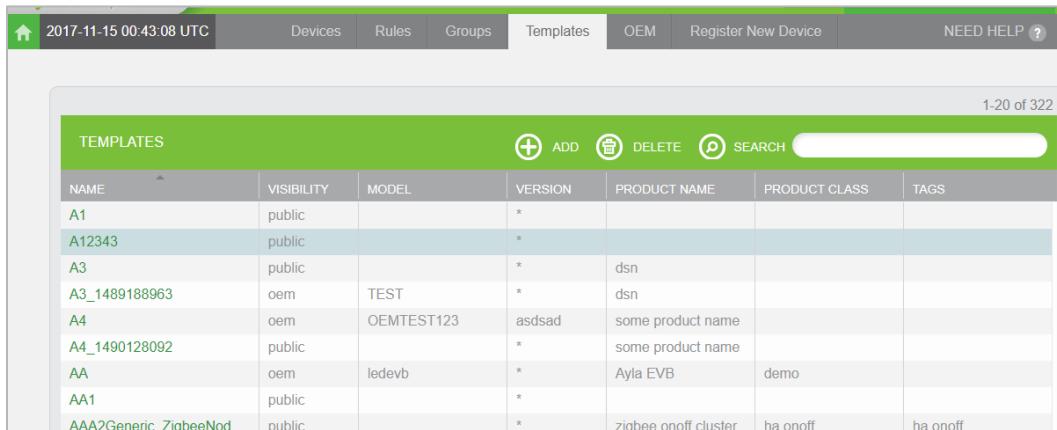
X CANCEL OK

- **Visibility** drop-down, click either:
 - **private** (template visible only to the user)
 - **oem** (template visible to all Ayla customers defined as OEMs in the portal)
- **Name** (enter the name of template)
- **Description** (enter information about this template)
- **Registration Type** drop-down, select:
 - **Same-LAN** (default and most secure; requires least modifications of the target hardware. No displays or buttons are needed. Registering mobile device must be on the same LAN as device being registered.)
 - **Button-Push** (secure, but requires a button on device. Push of button opens a two-minute registration window.)
 - **AP-Mode** (not secure, presents an AP to allow device registration.)
 - **Display** (display a PIN to register the device.)
 - **Dsn** (least secure – use only if no other registration option)
 - **None** (Ayla customer registration only, user registration not required.)
- **Model** (device model)
- **Product Name** (name of the product)
- **Home Kit** (home kit serial number, if available)
- **Tags** (metadata tags for this template, comma-separated.)
- **Product Class** (Ayla customer metadata or tag)
- **Template Key** (for virtual node devices)

- **Version** (version number of this template)
 - **Type** drop-down, select one of the following settings:
 - **Wifi** (black box solution and white box end-point target solution)
 - **Gateway** (enables service to create child nodes) – if selected, new drop-down options include:
 - Zigbee
 - Generic
 - **Cluster** (defines template for node)
 - **Node**
 - When done, click **OK**.
3. In the New Template dialog box, click **LAN** tab:
- 
- **Enabled** checkbox (select if LAN mode enabled for the associated device)
If selected, the following are activated:
 - Keep Alive** value (in seconds)
 - Auto-sync** checkbox (select to auto-sync variables on reconnect)
 - Lifetime** value (seconds that unique LAN-paring keys are valid)
4. When done, click **OK**, and the new template is added to the table listing.

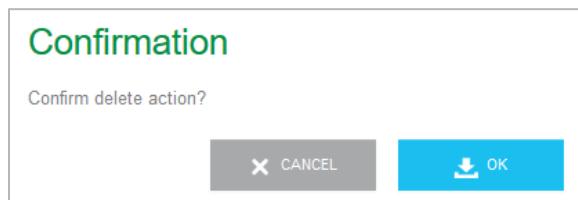
8.1.3 Delete Template

1. On the Templates table listing, select a template.



TEMPLATES						
NAME	VISIBILITY	MODEL	VERSION	PRODUCT NAME	PRODUCT CLASS	TAGS
A1	public		*			
A12343	public		*			
A3	public		*	dsn		
A3_1489188963	oem	TEST	*	dsn		
A4	oem	OEMTEST123	asdsad	some product name		
A4_1490128092	public		*	some product name		
AA	oem	ledevb	*	Ayla EVB	demo	
AA1	public		*	zigbee onoff cluster	ha onoff	ha onoff
AAA2Generic_ZigbeeNod...	public		*			

2. Click **DELETE**  **DELETE**.
3. On the Confirmation dialog box, click **OK**.



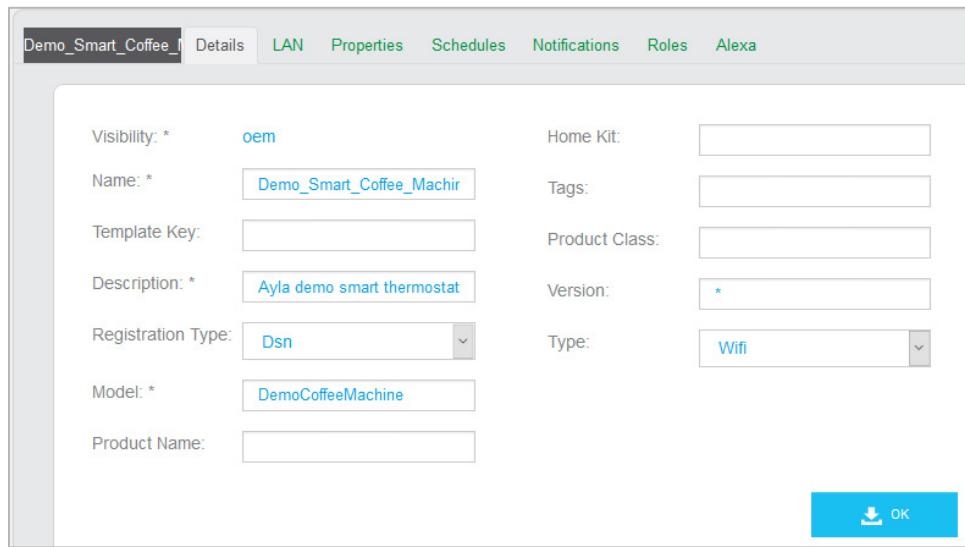
8.2 Review/edit Template Details

On the Templates tab, templates table listing, click the name of the template to edit.

NOTE Templates with Public visibility cannot be edited. Templates with OEM visibility can be edited and updated.

A3	public
A3_1489188963	oem

8.2.1 Template > Details tab



Demo_Smart_Coffee_Machir Details LAN Properties Schedules Notifications Roles Alexa

Visibility: *	oem	Home Kit:	<input type="text"/>
Name: *	Demo_Smart_Coffee_Machir	Tags:	<input type="text"/>
Template Key:	<input type="text"/>	Product Class:	<input type="text"/>
Description: *	Ayla demo smart thermostat	Version:	* <input type="text"/>
Registration Type:	Dsn <input type="button" value="▼"/>	Type:	Wifi <input type="button" value="▼"/>
Model: *	DemoCoffeeMachine		
Product Name:	<input type="text"/>		
<input style="background-color: #0072BC; color: white; border: none; padding: 5px 10px; border-radius: 5px; font-weight: bold;" type="button" value="OK"/>			

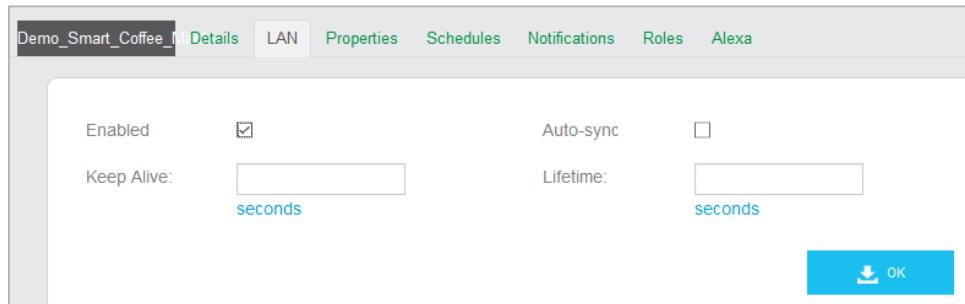
Editable fields are:

- **Name**
- **Template Key** (for virtual node devices)
- **Description**
- **Registration Type** drop-down:
 - **Same-LAN**
 - **Button-Push**
 - **AP-Mode**
 - **Display**
 - **DSN**
 - **None**
- **Model**
- **Product Name**
- **Home Kit**
- **Tags**
- **Product Class**
- **Version**
- **Type** drop-down
 - **Wifi**
 - **Gateway** (if selected, a Gateway Type field displays, click one of the following options)
 - **Zigbee**

- Generic
- **Cluster** (if selected, a Gateway Type field displays, click one of the following options)
 - Cluster ID (ID of the cluster)
- **Node**

If any changes, click **OK**.

8.2.2 Templates > LAN tab



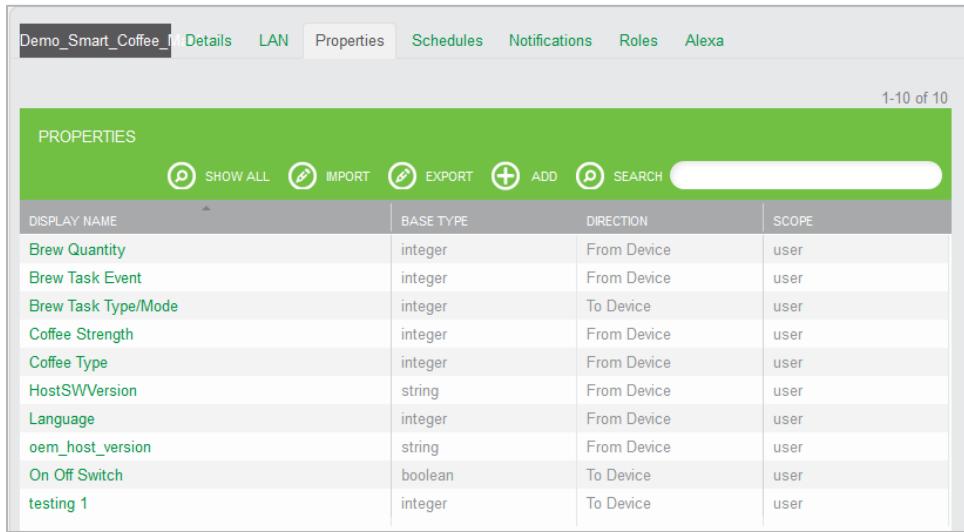
Editable fields are:

- **Enabled** checkbox (LAN mode is enabled for device associated with template)
- **Keep Alive** value (UDP keep alive beacon time – how often mobile app sends a heartbeat to module and keep session alive)
- **Auto-sync** checkbox (select to automatically sync variables on reconnect)
- **Lifetime** value (seconds unique LAN-paring keys are valid – on expiration, device & mobile app must reconnect to cloud to get new LAN keys)

NOTE For 'LAN connect' to function, the device and a mobile app must connect to the Ayla Cloud at least one time. The 'LAN connect' requires an initial connection with the cloud to get the required LAN keys to function.

- If changes, click **OK**.

8.2.3 Templates > Properties Tab



The screenshot shows a table titled 'PROPERTIES' with the following columns: DISPLAY NAME, BASE TYPE, DIRECTION, and SCOPE. The table contains 10 rows of data, with the last row being 'testing 1'. The table is part of a larger interface with tabs for Details, LAN, Properties, Schedules, Notifications, Roles, and Alexa. A search bar is also visible.

DISPLAY NAME	BASE TYPE	DIRECTION	SCOPE
Brew Quantity	integer	From Device	user
Brew Task Event	integer	From Device	user
Brew Task Type/Mode	integer	To Device	user
Coffee Strength	integer	From Device	user
Coffee Type	integer	From Device	user
HostSWVersion	string	From Device	user
Language	integer	From Device	user
oem_host_version	string	From Device	user
On Off Switch	boolean	To Device	user
testing 1	integer	To Device	user

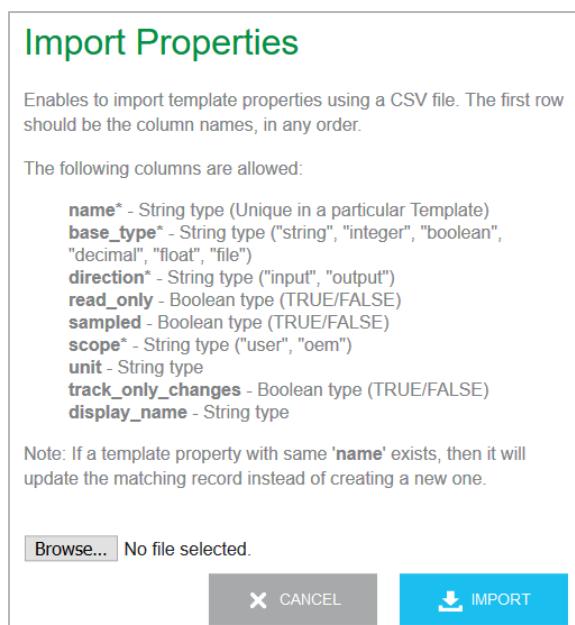
NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

If there are no matches, the table listing is blank.

To restore the full list, remove/delete the search field text.

Import Properties

1. In the Properties table listing, click **IMPORT** to open the Import Properties dialog box.



2. Click **Browse** to locate and select the file to import.

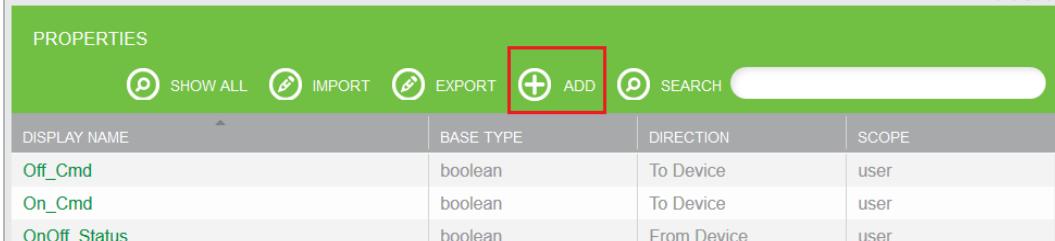
3. Click **IMPORT**.

Export Properties

1. In the Properties table listing, click **EXPORT**  **EXPORT**.
2. The CSV file is saved to the Download folder, i.e., **template-properties-2017-10-23-19-04-46.csv**.

Add Property – Property type

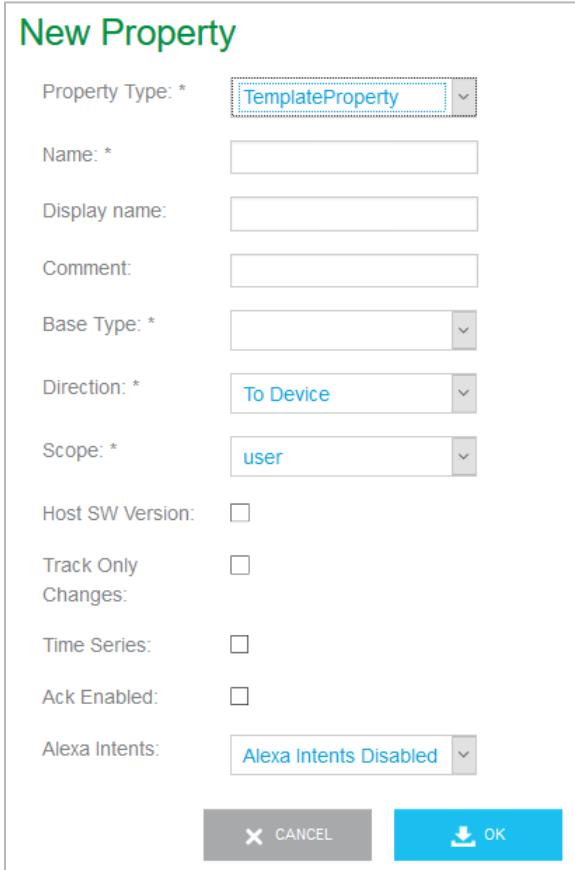
1. In the Properties table listing, click **ADD**.



PROPERTIES			
DISPLAY NAME	BASE TYPE	DIRECTION	SCOPE
Off_Cmd	boolean	To Device	user
On_Cmd	boolean	To Device	user
OnOff_Status	boolean	From Device	user

2. On the New Property dialog box, **Property Type** drop-down, there are two options:

If **Property Type = TemplateProperty**, this is the dialog box:



New Property

Property Type: *

Name: *

Display name:

Comment:

Base Type: *

Direction: *

Scope: *

Host SW Version:

Track Only Changes:

Time Series:

Ack Enabled:

Alexa Intents:

Go to Step 3 for instructions to enter details in the dialog box fields.

If **Property Type** = **TemplateFeedProperty** three fields are displayed:

Property Type: *	<input type="text" value="TemplateFeedProperty"/>
Feed Type: *	<input type="text"/>
Feed Subtype: *	<input type="text"/>
Data Feed Update Interval: *	<input type="text"/>

- For **Feed Type** drop-down = **Air Quality** (connects to the device's air quality feed):
Select **Feed Subtype** drop-down options.

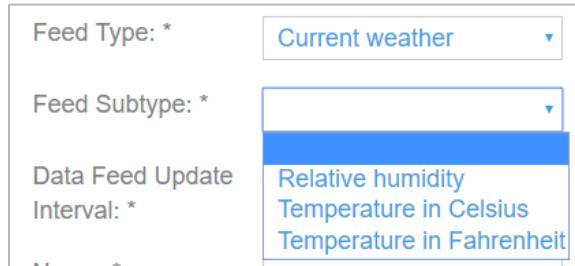
Feed Type: *	<input type="text" value="Air Quality"/>
Feed Subtype: *	<input type="text"/>
Data Feed Update Interval: *	<input type="text"/>
Name: *	<input type="text"/>
Display name:	<input type="text"/>

Select **Data Feed Update Interval** (2 minutes, 30 minutes, 1 hour, 2 hours).

New Property

Property Type: *	<input type="text" value="TemplateFeedProperty"/>
Feed Type: *	<input type="text" value="Air Quality"/>
Feed Subtype: *	<input type="text" value="Carbon Monoxide (CO)"/>
Data Feed Update Interval: *	<input type="text"/>
Name: *	<input type="text"/>
Display name:	<input type="text"/>

- For **Feed Type** drop-down = **Current weather** (connects to the device's weather feed)
Select from the **Feed Subtype** drop-down options:



Feed Type: * **Current weather**

Feed Subtype: *

Data Feed Update Interval: *

Relative humidity
Temperature in Celsius
Temperature in Fahrenheit

Select **Data Feed Update Interval** (2 minutes, 30 minutes, 1 hour, 2 hours)

3. **Name** (enter a name that matches the property name of the host application on the device)

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

4. **Display name** (enter a user-friendly property name to show on the Property table listing)
5. **Comment** (useful tips or information)
6. **Base Type** (select a data type from the drop-down list):
 - **integer** (numeric value)
 - **string** (set of alphanumeric characters)
 - **boolean** (true or false)
 - **decimal** (decimal value – if TemplateFeedProperty is selected, this is the only option)
 - **file** (file to be attached as a property)

The data type selected is associated with this property.

7. **Direction** (select an option from the drop-down list):
 - **To Device** (information flows to the device) If TemplateFeedProperty is selected as the Property Type, *To Device* is the only Direction option.
 - **From Device** (information flows from the device)
8. **Scope** (select an option from the drop-down list):
 - **user** (all users can see the property)
 - **oem** (only customers defined as OEM in the portal can see the property)
9. **Host SW Version** checkbox:
 - **Select** (if host software version affects this property)
 - **Unselect** (if host software version does not apply to this property)
10. **Track Only Changes** checkbox:

- **Select** (log only changes in the property state – if no change in value, no datapoint recorded)
- **Unselect** (no log is kept of changes in the property state)

11. **Time Series** checkbox:

- **Select** (the service queues datapoints to the device if the device is disconnected) Upon connection, all datapoints are sent to the device. For From device to the service, the host MCU queues all data items.
- **Unselect** (service ignores datapoints whether the device is connected or disconnected)

12. **Ack Enabled** checkbox:

- **Select** (service receives an acknowledgement when the property is updated and then sends an update to the device) The Direction field must be "To Device."
- **Unselect** (no acknowledgement sent when there are changes to the property)

13. **Alexa Intents** drop-down:

- **Alexa Intents Disable** (no Alexa intents are applied to the property)
- **ON/OFF** (Ayla device has Alexa-enabled on and off options)
- **Variable Percentage** (Ayla device has Alexa-enabled percentage options, i.e., fan speeds)

NOTE If you configure the Variable Percentage property, the ON/OFF property must be enabled first.

- **Variable Temperature** (Ayla device has Alexa-enabled Temperature options)

13. When done, click **OK**.

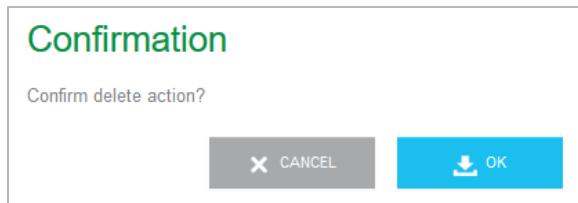
Delete Property

1. On the device Properties tab table listing, select the property to delete.

PROPERTIES			
 SHOW PAGINATED  IMPORT  EXPORT  ADD  DELETE  SEARCH			
DISPLAY NAME	BASE TYPE	DIRECTION	SCOPE
Brew Quantity	integer	From Device	user
Brew Task Event	integer	From Device	user
Brew Task Type/Mode	integer	To Device	user
Coffee Strength	integer	From Device	user
Coffee Type	integer	From Device	user
HostSWVersion	string	From Device	user
Language	integer	From Device	user

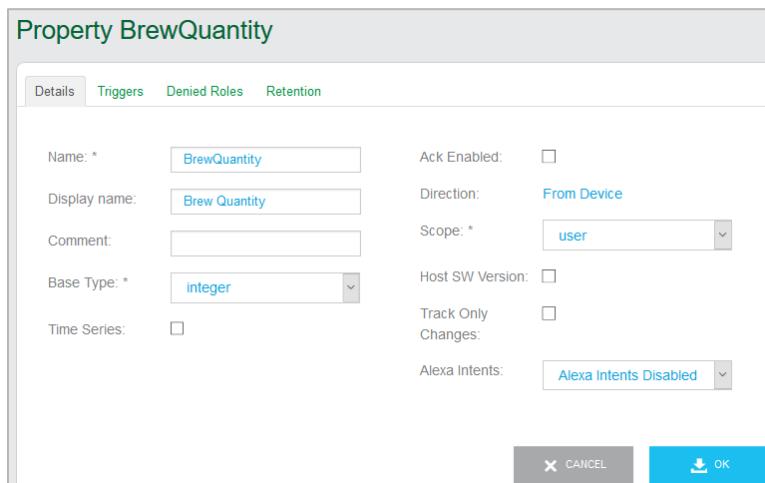
2. Click **DELETE** .

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



Review/edit Property – Details sub-tab

On the Details sub-tab, the editable fields are:


 A screenshot of the 'Property Details' sub-tab interface. The title is 'Property BrewQuantity'. Below it are four tabs: 'Details' (selected), 'Triggers', 'Denied Roles', and 'Retention'. The 'Details' tab contains the following fields:

Name: *	<input type="text" value="BrewQuantity"/>	Ack Enabled: <input type="checkbox"/>
Display name:	<input type="text" value="Brew Quantity"/>	Direction: <input type="text" value="From Device"/>
Comment:	<input type="text"/>	Scope: * <input type="text" value="user"/>
Base Type: *	<input type="text" value="integer"/>	Host SW Version: <input type="checkbox"/>
Time Series:	<input type="checkbox"/>	Track Only <input type="checkbox"/> Changes: <input type="checkbox"/>
Alexa Intents: <input type="text" value="Alexa Intents Disabled"/>		

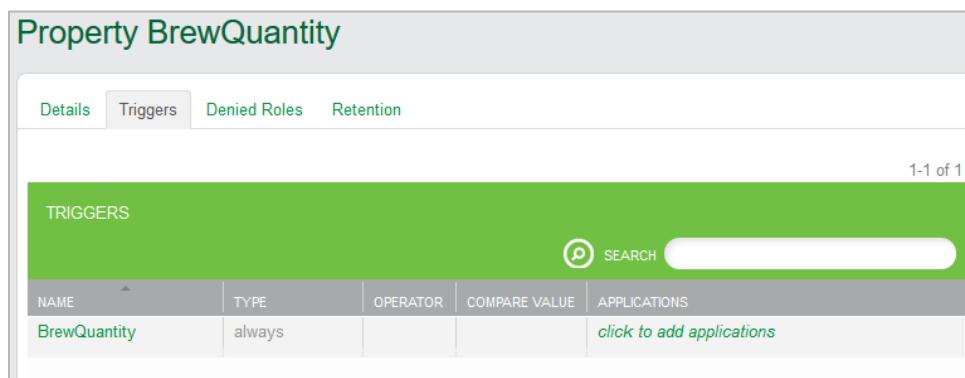
 At the bottom are 'CANCEL' and 'OK' buttons.

- **Display name**
- **Comment**
- **Base Type** drop-down
 - **integer**
 - **string**
 - **boolean**
 - **decimal**
 - **file**
- **Time Series** checkbox:
 - **Select** (if device disconnected, service queues data points to the device. On connection, all datapoints are sent to device. From device to service, host MCU queues all data items.)
 - **Unselect** (ignores datapoints whether device is connected or disconnected)
- **Ack Enabled** checkbox
 - **Select** (if Direction is 'To Device', service receives ack if property is updated & update sent to device)

- **Unselect** (no ack is sent on property change)
- **Scope** drop-down:
 - **user** (user can see the property)
 - **oem** (Customers defined as OEM in the portal can see the property)
- **Host SW Version** checkbox:
 - **Select** (Customers defined as OEM in the portal track host software version)
 - **Unselect** (Customers defined as OEM in the portal do not track software version)
- **Track Only Changes** checkbox:
 - **Select** (log only changes in the property state – if same value, no datapoint recorded)
 - **Unselect** (do not log changes in the property state)
- **Alexa Intents** drop-down:
 - **Alexa Intents Disabled** (select if Alexa functionality is not enabled on the device or this property is not related to Alexa functionality on the device)
 - **ON/OFF** (select if Alexa functionality is enabled on the device and the device has On and Off options)
 - **Variable Percentage** (select if the device can be adjusted with a range of settings, i.e., a fan with different speeds)
- If any changes, click **OK**.

Review/edit Property – Triggers sub-tab

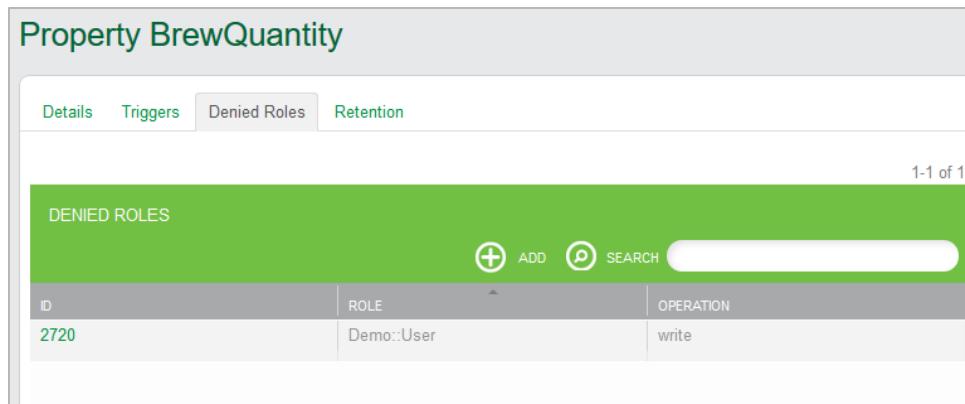
On the Triggers sub-tab, editable fields are:



NAME	TYPE	OPERATOR	COMPARE VALUE	APPLICATIONS
BrewQuantity	always			click to add applications

Review/edit Property – Denied Roles sub-tab

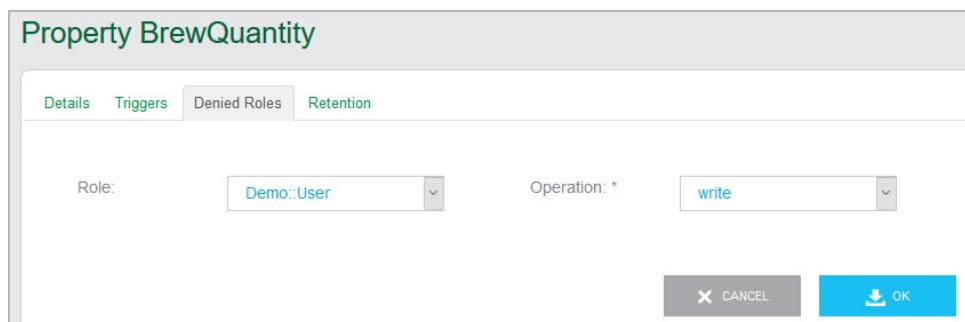
- NOTE** The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.
- If there are no matches, the table listing is blank.
- To restore the full list, remove/delete the search field text.
-



ID	ROLE	OPERATION
2720	Demo::User	write

1. On the table listing, click an ID.

On the page, editable fields are:

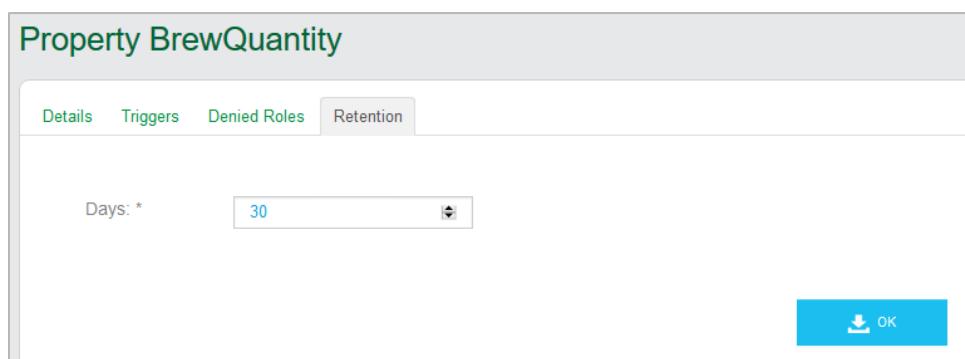


- **Role** drop-down (select from the list)
- **Operation** drop-down
 - **read** (read is disabled)
 - **write** (write is disabled)

2. If any changes, click **OK**.

Review/edit Property – Retention sub-tab

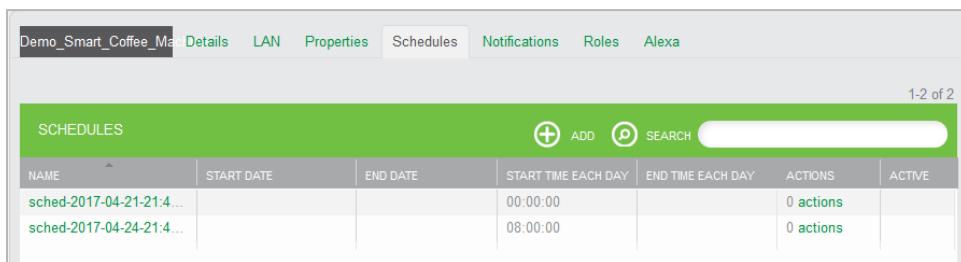
On the Retention sub-tab, editable field is:



- **Days** field – to change, enter (or use up/down arrows) the days the property details are saved.

If changed, click **OK**.

8.2.4 Templates > Schedules tab



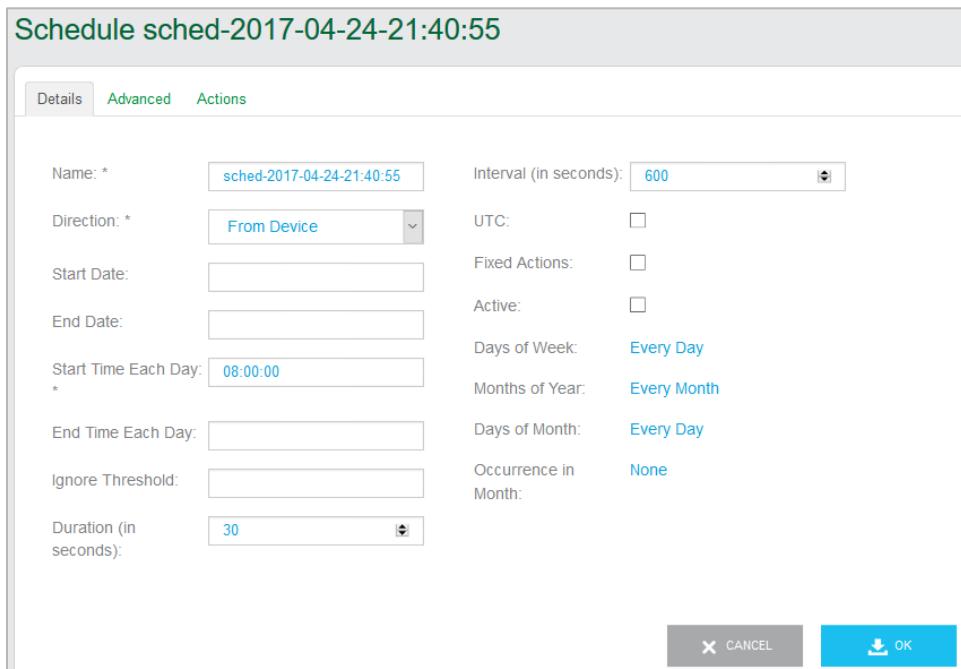
NAME	START DATE	END DATE	START TIME EACH DAY	END TIME EACH DAY	ACTIONS	ACTIVE
sched-2017-04-21-21:4...			00:00:00		0 actions	
sched-2017-04-24-21:4...			08:00:00		0 actions	

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.

If there are no matches, the table listing is blank.

To restore the full list, remove/delete the search field text.

1. On the Schedules table listing, click a schedule.
2. On the Settings tab, you can modify these fields:



Name: *	<input type="text" value="sched-2017-04-24-21:40:55"/>	Interval (in seconds):	<input type="text" value="600"/>
Direction: *	<input type="text" value="From Device"/>	UTC:	<input type="checkbox"/>
Start Date:	<input type="text"/>	Fixed Actions:	<input type="checkbox"/>
End Date:	<input type="text"/>	Active:	<input type="checkbox"/>
Start Time Each Day:	<input type="text" value="08:00:00"/>	Days of Week:	<input type="text" value="Every Day"/>
*		Months of Year:	<input type="text" value="Every Month"/>
End Time Each Day:	<input type="text"/>	Days of Month:	<input type="text" value="Every Day"/>
Ignore Threshold:	<input type="text"/>	Occurrence in Month:	<input type="text" value="None"/>
Duration (in seconds):	<input type="text" value="30"/>		
		<input type="button" value="CANCEL"/>	<input type="button" value="OK"/>

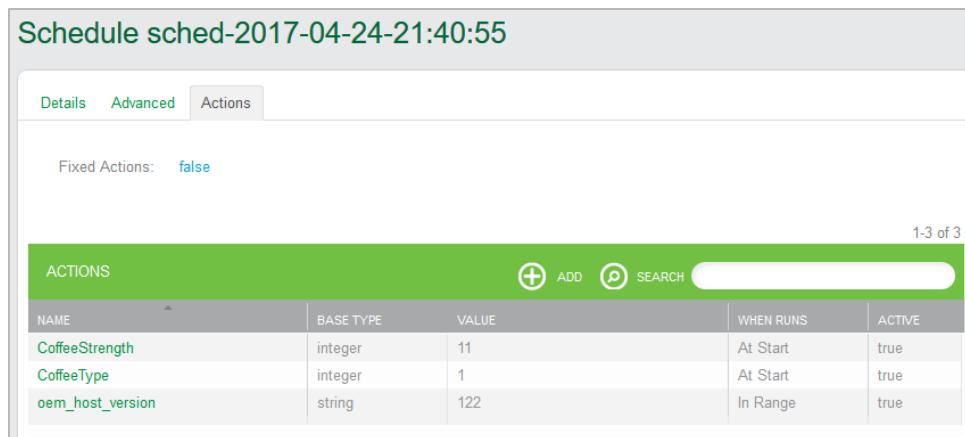
- **Name**
- **Direction** drop-down
 - **To Device**

- **From Device**
 - **Start Date** (select the date to start schedule)
 - **End Date** (select the date schedule ends)
 - **Start Time Each Day** (select the time to start each day)
 - **End Time Each Day** (select time to end each day)
 - **Ignore Threshold** (enter time to ignore threshold)
 - **Duration (in seconds)** (ignore threshold time period)
 - **Interval (in seconds)**
 - **UTC** checkbox
 - **Select** (use UTC time)
 - **Unselect** (use local time)
 - **Fixed Actions** checkbox
 - **Select** (cannot add new actions to schedule)
 - **Unselect** (allow new actions to be added)
 - **Active** checkbox
 - **Select** (if schedule template is active)
 - **Unselect** (if schedule template is inactive)
3. On the Advanced tab, you can select/unselect any of the checkboxes (as needed).

Schedule sched-2017-04-24-21:40:55

	Details	Advanced	Actions
Days of Week:	<input checked="" type="checkbox"/> Sun <input checked="" type="checkbox"/> Mon <input checked="" type="checkbox"/> Tues <input checked="" type="checkbox"/> Wed <input checked="" type="checkbox"/> Thurs <input checked="" type="checkbox"/> Fri <input checked="" type="checkbox"/> Sat		
Months of Year:	<input checked="" type="checkbox"/> Jan <input checked="" type="checkbox"/> Feb <input type="checkbox"/> Mar <input type="checkbox"/> Apr <input type="checkbox"/> May <input checked="" type="checkbox"/> Jun <input type="checkbox"/> Jul <input type="checkbox"/> Aug <input type="checkbox"/> Sept <input type="checkbox"/> Oct <input type="checkbox"/> Nov <input checked="" type="checkbox"/> Dec		
Days of Month:	<input checked="" type="checkbox"/> 1 <input checked="" type="checkbox"/> 2 <input type="checkbox"/> 3 <input checked="" type="checkbox"/> 4 <input 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"/> <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:	<input type="checkbox"/> First <input type="checkbox"/> Second <input type="checkbox"/> Third <input type="checkbox"/> Fourth <input type="checkbox"/> Fifth <input type="checkbox"/> Last		

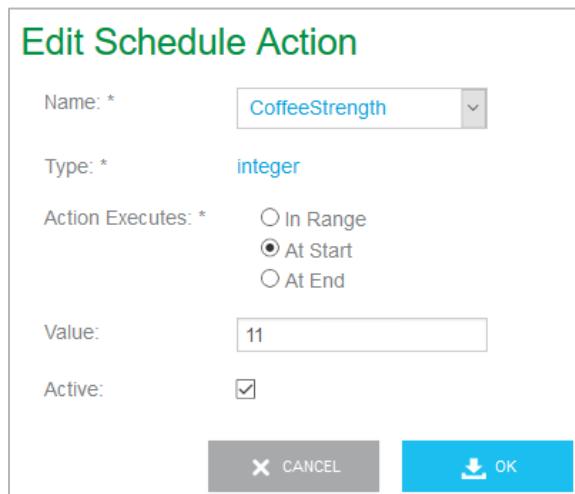
4. On the Actions tab, select an action name to edit details.



ACTIONS				
NAME	BASE TYPE	VALUE	WHEN RUNS	ACTIVE
CoffeeStrength	integer	11	At Start	true
CoffeeType	integer	1	At Start	true
oem_host_version	string	122	In Range	true

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.
If there are no matches, the table listing is blank.
To restore the full list, remove/delete the search field text.

5. On the Edit Schedule Action dialog box, the following can be changed:



Edit Schedule Action

Name: *

Type: *

Action Executes: * In Range At Start At End

Value:

Active:

Action Executes radio button

- In Range**
- At Start**
- At End**

Value

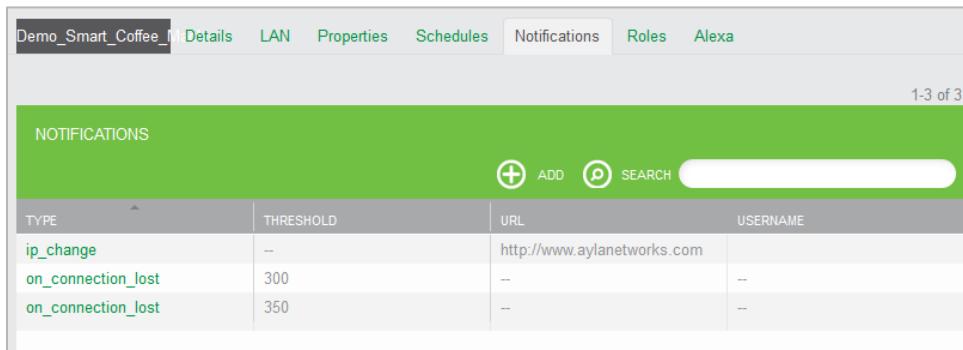
Active checkbox

- Select** (if schedule action is active)
- Unselect** (if schedule action is inactive)

6. To save changes, on the Settings tab, click **OK**.

8.2.5 Templates > Notifications tab

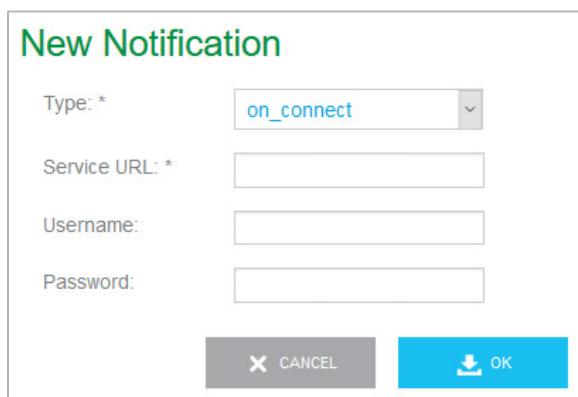
On the Notifications table listing, click the Type.



NOTIFICATIONS			
TYPE	THRESHOLD	URL	USERNAME
ip_change	--	http://www.aylanetworks.com	--
on_connection_lost	300	--	--
on_connection_lost	350	--	--

Add Notification

1. Click **ADD**  (only for an OEM template). On the New Notification dialog box:



- a. **Type** drop-down:
 - **on_connect** (notification is sent when device is connected)
 - **ip_change** (notification when IP address changes)
 - **on_connection_lost** (notification when device loses connection)
 - **on_connection_restore** (notification when device recovers connection)
- b. **Service URL** (URL to which notification should be sent)
- c. **Username** (login credentials to service URL – if needed)
- d. **Password** (login credentials to service URL – if needed)
2. Click **OK**.

Review/Edit Notification

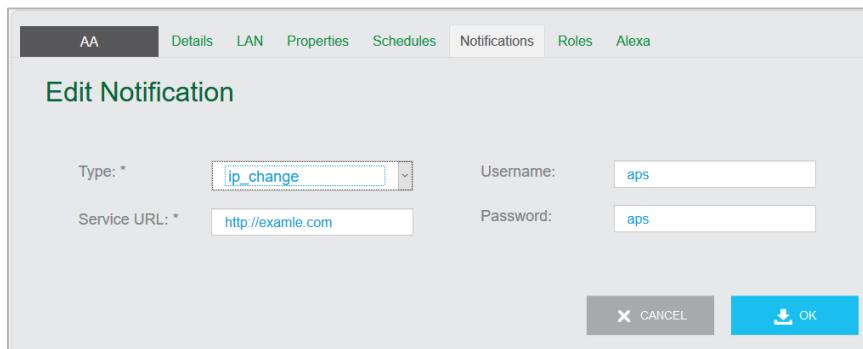
On the Notifications table listing, click the notification name.



TYPE	THRESHOLD	URL	USERNAME
ip_change	--	http://www.example.com	aps
on_connect	--	http://www.example.com	aps
on_connect	--	http://www.example.com	aps
on_connection_lost	600	--	--
on_connection_lost	300	--	--
on_connection_restore	300	--	--

On the Edit Notification page:

1. Type selection of: **on_connect** and **ip_change** displays this page:



AA Details LAN Properties Schedules Notifications Roles Alexa

Edit Notification

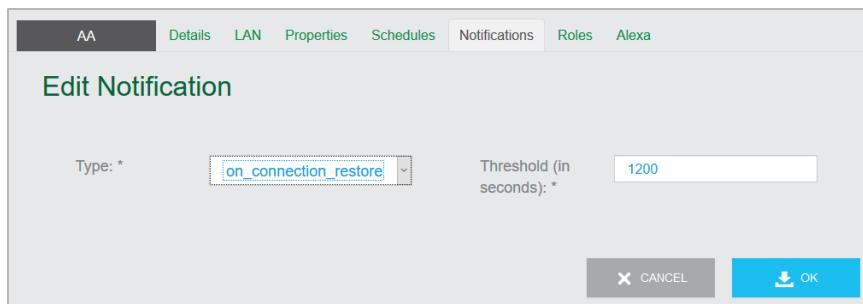
Type: * Username:

Service URL: * Password:

2. As needed update:

- o **Service URL** (URL to which notification should be sent)
- o **Username** (login credentials to service URL – if needed)
- o **Password** (login credentials to service URL – if needed)
- o If changes, click **OK**.

3. Type selection of: **on_connection_lost** and **on_connection_restore** displays this page:



AA Details LAN Properties Schedules Notifications Roles Alexa

Edit Notification

Type: * Threshold (in seconds): *

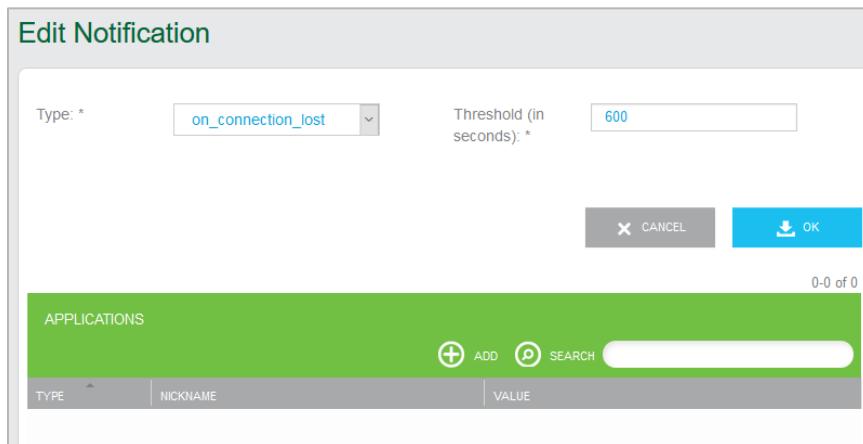
4. As needed, update:

- **Threshold in Seconds** (length of time required for the condition before the notification is activated, must be ≥ 300)
- If changed, click **OK**.

Add Application to Notification

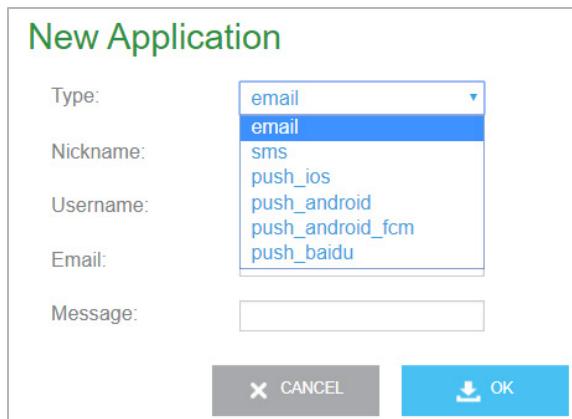
One or more applications can be added to a notification.

1. On the Edit Notifications page, Applications table, click **ADD** .



The dialog box is titled "Edit Notification". It has fields for "Type: *" (set to "on_connection_lost") and "Threshold (in seconds): *" (set to "600"). Below these are "CANCEL" and "OK" buttons. The main area is titled "APPLICATIONS" and shows "0-0 of 0". It has a "TYPE" column header and a search bar with "SEARCH" and "OK" buttons. The "TYPE" column has "ADD" and "SEARCH" buttons.

2. On the New Application dialog box, Type drop-down, select the application.



The dialog box is titled "New Application". It has fields for "Type" (set to "email"), "Nickname", "Username", "Email", and "Message". The "Type" field has a dropdown menu with options: email, email (selected), sms, push_ios, push_android, push_android_fcm, and push_baidu. Below these are "CANCEL" and "OK" buttons.

3. For each of the following Application choices, enter details and click **OK**.

- Type drop-down = **email**

New Application

Type:	<input type="text" value="email"/>
Nickname:	<input type="text"/>
Username:	<input type="text"/>
Email:	<input type="text"/>
Message:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

- Enter **Nickname** (user-friendly name)
- Enter **Username** (greeting in the notification message)
- Enter **Email** (email address to receive notification)
- Enter **Message** (message to be sent to the recipient)
- Click **OK**

- Type drop-down = **sms**

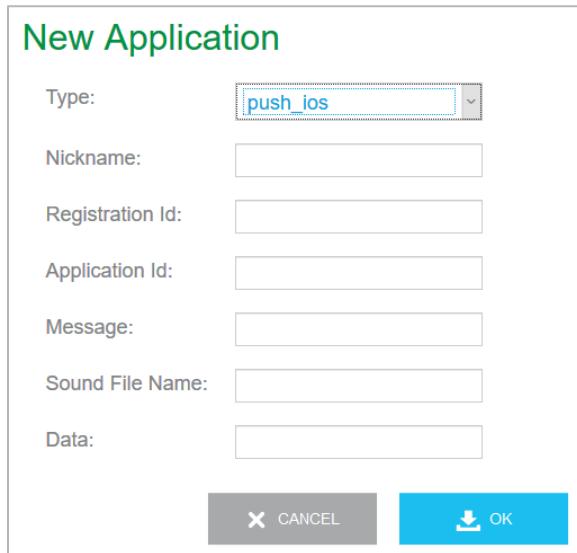
New Application

Type:	<input type="text" value="sms"/>
Nickname:	<input type="text"/>
Username:	<input type="text"/>
Country Code:	<input type="text"/>
Phone Number:	<input type="text"/>
Message:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

- Enter **Nickname** (user-friendly name for the application).
- Enter **Username** (greeting in the notification message)
- Enter **Country Code** (phone country code)
- Enter **Phone Number** (phone number to contact)
- Enter **Message** (message to be sent to the recipient – sms messages longer than 160 is split into two messages)

NOTE Message length should be maximum of 120 characters to allow for overhead (i.e, notification object name length is 20, etc.).

- Click **OK**
- **Type** drop-down = **push_ios**



New Application

Type:

Nickname:

Registration Id:

Application Id:

Message:

Sound File Name:

Data:

- Enter **Nickname** (user-friendly name)
- Enter **Registration Id**
- Enter **Application Id**
- Enter **Message** (message to be sent to the recipient – up to 4K characters)
- Enter **Sound File Name** (sound to be played when message is received)
- Enter **Data** (contextual information)
- Click **OK**

- Type drop-down = **push_android**

New Application

Type:	<input type="text" value="push_android"/>
Nickname:	<input type="text"/>
Registration Id:	<input type="text"/>
Message:	<input type="text"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

- Enter **Nickname** (user-friendly name)
- Enter **Registration Id**
- Enter **Message** (message to be sent to the recipient – up to 4K characters)
- Enter **Sound File Name**. (sound to be played when message is received)
- Enter **Data** (contextual information)
- Click **OK**

- Type drop-down = **push_android_fcm** (Firebase Cloud Messaging)

New Application

Type:	<input type="text" value="push_android_fcm"/>
Nickname:	<input type="text"/>
Registration Id:	<input type="text"/>
Message:	<input type="text"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

- Enter **Nickname** (user-friendly name)
- Enter **Registration Id**
- Enter **Message** (message to be sent to the recipient – up to 4K characters)
- Enter **Sound File Name**. (sound to be played when message is received)
- Enter **Data** (contextual information)

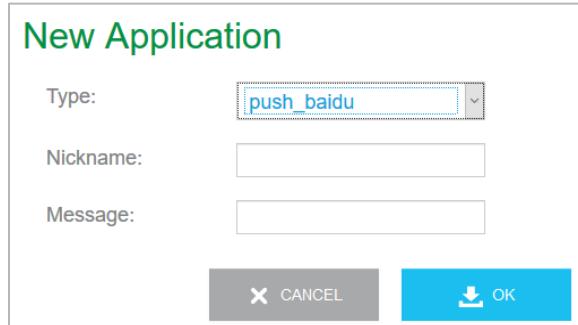
- Click **OK**
- Type drop-down = **push_baidu**

New Application

Type:

Nickname:

Message:



- Enter **Nickname** (user-friendly name)
- Enter **Message** (message to be sent to the recipient – up to 4K characters)
- Click **OK**

Review/edit Notification Application

The Type drop-down has several options:

New Application

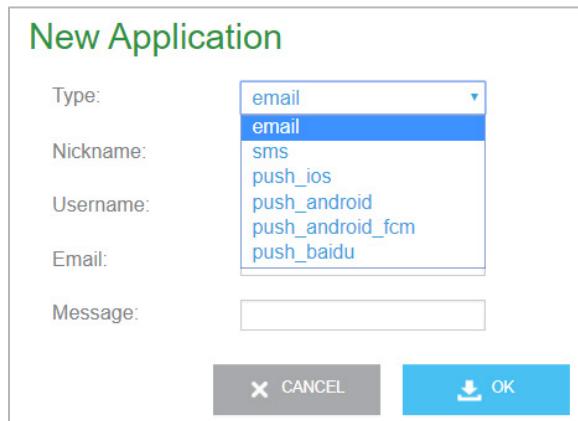
Type:

Nickname:

Username:

Email:

Message:



Edit Notification Application – email

- In the table listing, Type drop-down, select **email**.

Edit Application

Type:	<input type="text" value="email"/>
Nickname:	<input type="text" value="aps"/>
Username:	<input type="text"/>
Email:	<input type="text"/>
Message:	<input type="text" value="this is up"/>

- Editable fields are:
 - **Nickname**
 - **Username** (greeting in the notification message)
 - **Email**
 - **Message** (up to 4K characters)
- If any changes, click **OK**.

Edit Notification Application – sms

- In the table listing, Type drop-down, select **sms**.

Edit Application

Type:	<input type="text" value="sms"/>
Nickname:	<input type="text" value="asdf"/>
Username:	<input type="text" value="asdf"/>
Select Contact?:	<input type="checkbox"/>
Country Code:	<input type="text"/>
Phone Number:	<input type="text"/>
Message:	<input type="text" value="this is up"/>

- Editable fields are:
 - Nickname**
 - Username** (greeting in the notification message)

Country Code**Phone Number**

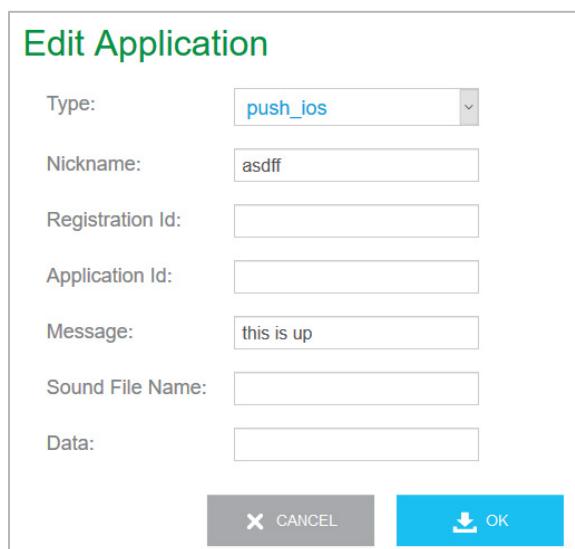
Message (message to be sent to the recipient – sms messages longer than 160 is split into two messages)

NOTE Message length should be maximum of 120 characters to allow for overhead (i.e, notification object name length is 20, etc.).

- If any changes, click **OK**.

Edit Notification Application – push_ios

- In the table listing, Type drop-down, select **push_ios**.



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

Type:	push_ios
Nickname:	asdff
Registration Id:	
Application Id:	
Message:	this is up
Sound File Name:	
Data:	

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

- Editable fields are:
 - **Nickname**
 - **Registration Id**
 - **Application Id**
 - **Message** (up to 4K characters)
 - **Sound File Name**
 - **Data** (contextual information)
- If any changes, click **OK**.

Edit Notification Application – push_android

- In the table listing, Type drop-down, select **push_android**.

Edit Application

Type:	<input type="text" value="push_android"/>
Nickname:	<input type="text" value="asdf"/>
Registration Id:	<input type="text"/>
Message:	<input type="text" value="this is up"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

- Editable fields are:
 - **Nickname**
 - **Registration Id**
 - **Message** (up to 4K characters)
 - **Sound File Name**
 - **Data** (contextual information)
- If any changes, click **OK**.

Edit Notification Application – push_android_fcm (Firebase Cloud Messaging)

- In the table listing, Type drop-down, select **push_android_fcm**

New Application

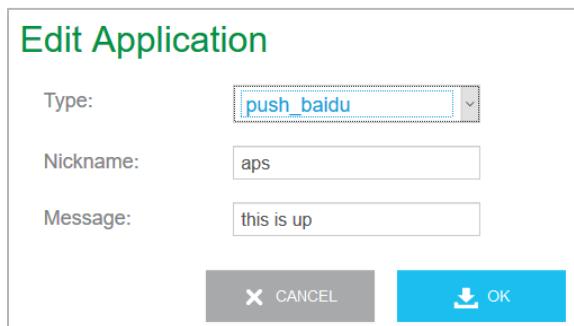
Type:	<input type="text" value="push_android_fcm"/>
Nickname:	<input type="text"/>
Registration Id:	<input type="text"/>
Message:	<input type="text"/>
Sound File Name:	<input type="text"/>
Data:	<input type="text"/>
<input type="button" value="X CANCEL"/> <input type="button" value="OK"/>	

- Editable fields are:
 - **Nickname**
 - **Registration Id**

- **Message** (up to 4K characters)
- **Sound File Name**
- **Data** (contextual information)
- If any changes, click **OK**.

Edit Notification Application – push_baidu

- In the table listing, Type drop-down, select **push_baidu**.



Edit Application

Type:

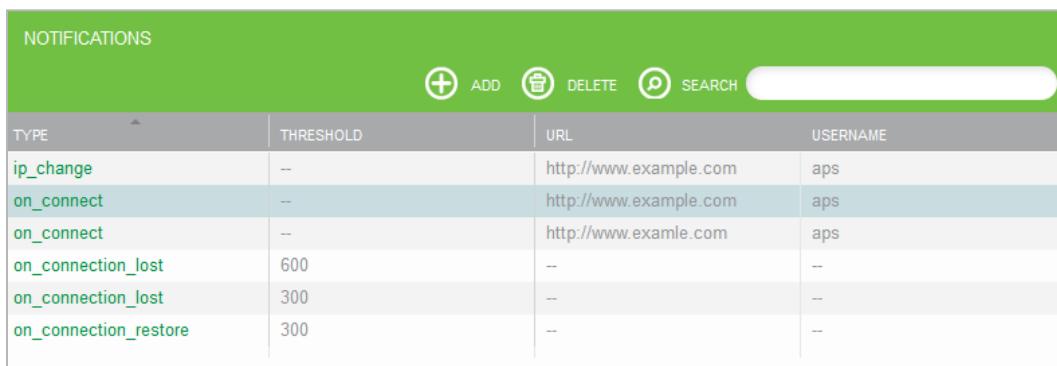
Nickname:

Message:

- Editable fields are:
 - **Nickname**
 - **Message** (up to 4K characters)
- If any changes, click **OK**.

Delete Notification

1. On the Notifications table listing, select the notification to delete.



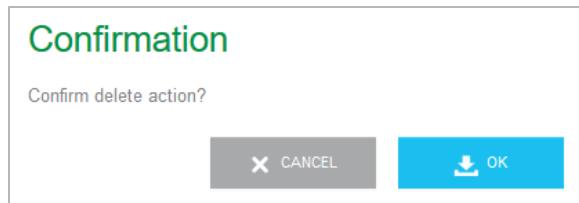
NOTIFICATIONS

ADD **DELETE** **SEARCH**

TYPE	THRESHOLD	URL	USERNAME
ip_change	--	http://www.example.com	aps
on_connect	--	http://www.example.com	aps
on_connect	--	http://www.examle.com	aps
on_connection_lost	600	--	--
on_connection_lost	300	--	--
on_connection_restore	300	--	--

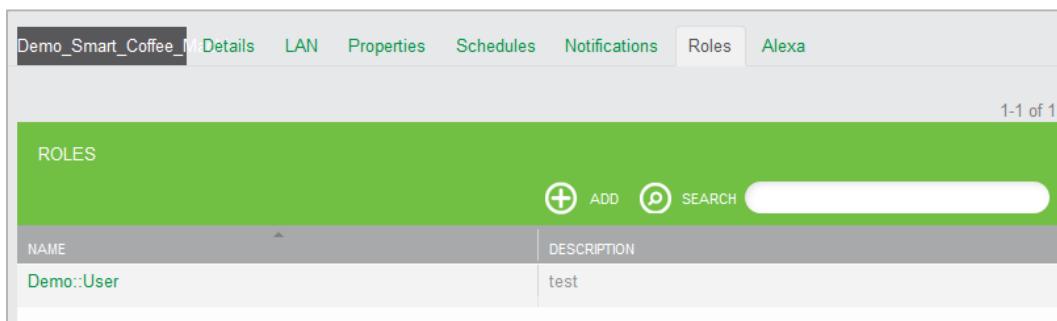
2. Click **DELETE** .

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



8.2.6 Templates > Roles tab

Roles define user permissions and restrictions. These roles can be added to the device. To get to the page, on the Template table listing, click the device. Then click the Roles tab.

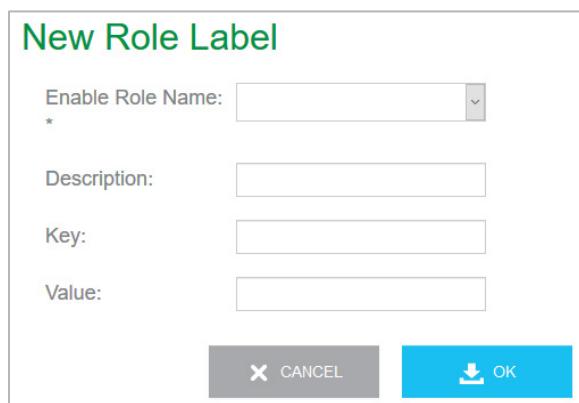


The screenshot shows the 'Roles' tab selected in the 'Templates' section. The table has columns for 'NAME' and 'DESCRIPTION'. One row is visible with the name 'Demo::User' and the description 'test'. There are 'ADD' and 'SEARCH' buttons at the top of the table.

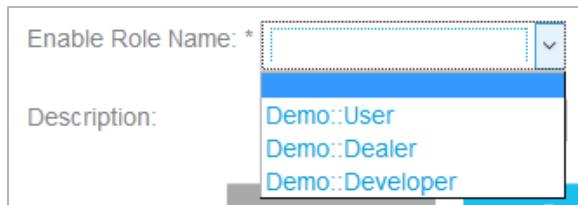
NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters.
If there are no matches, the table listing is blank.
To restore the full list, remove/delete the search field text.

Add Role

1. On the Roles table, click **ADD** . This displays the New Role Label dialog box:



2. On **Enable Role Name** drop-down, select role.



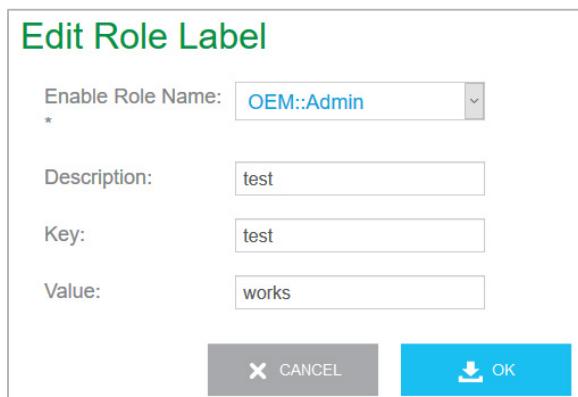
3. Enter **Description** information.
4. (optional) Enter a **Key** and **Value** (this is the metadata key/value pair for the role)
5. Click **OK**.

Review/edit Role

1. On the Role table listing, click the Role name.

ROLES	
NAME	DESCRIPTION
Demo::User	User Role - Access to device functions.

2. On the Edit Role Label dialog box, make changes (as needed) to **Description**.



Enable Role Name: OEM::Admin

Description: test

Key: test

Value: works

OK

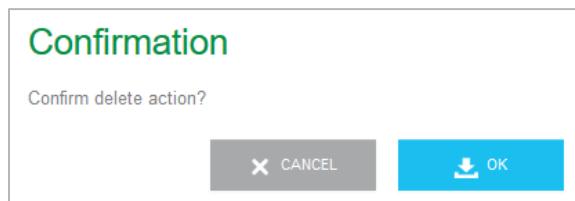
3. When done, click **OK**.

Delete Role

1. On the Roles table listing, select the role.

ROLES	
NAME	DESCRIPTION
Demo:Dealer	Dealer role permissions
Demo:User	User Role - Access to device functions.

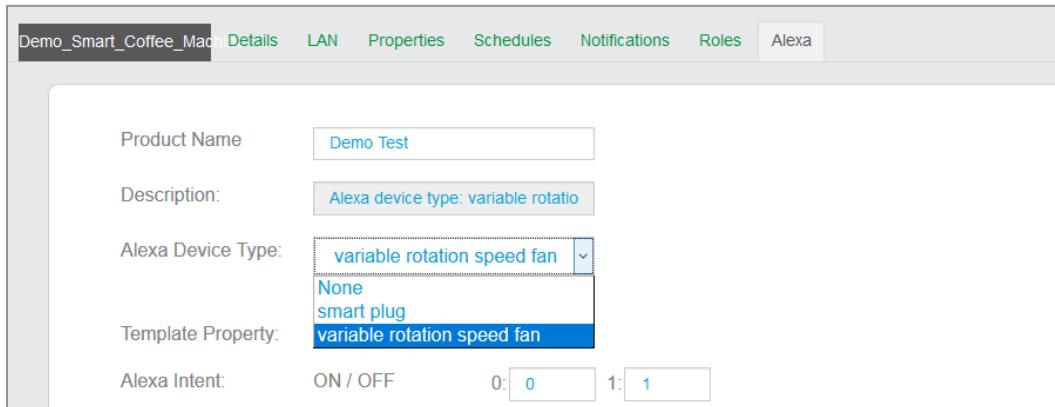
2. Click **DELETE** .
3. On the Confirmation dialog box, click **OK**.



8.2.7 Templates > Alexa tab

The Alexa tab is for devices that have On/Off options. You use this tab when configuring Alexa functionality for these devices.

NOTE You can configure Alexa for any Ayla device that has On/Off capabilities. To do this, just choose *smart plug* for the Alexa Device Type.

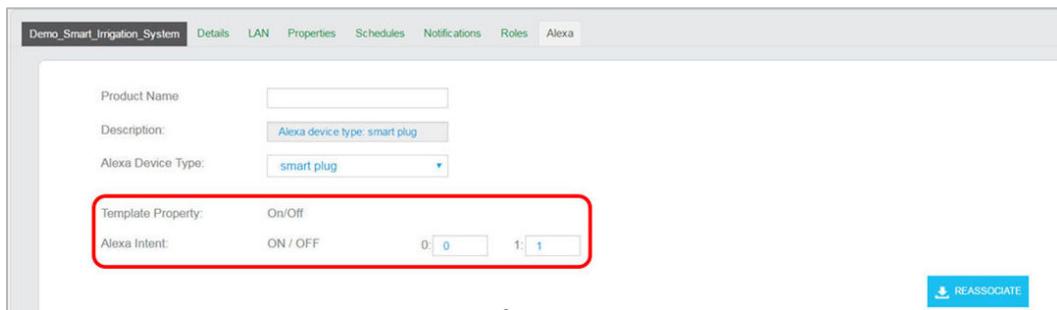


Fill out the fields as follows:

- **Product Name** (name of the product)
- **Description** (description of the product)
- **Alexa Device Type** drop-down (select from the list)

The Template Property and Alexa Intent fields display, as shown below. Values can be edited for the 0=OFF, 1=ON for the Alexa Intent.

In most cases, values can be 0 and 1. Order of values can be reversed: 0 = ON, 1=OFF.



Demo_Smart_Irrigation_System Details LAN Properties Schedules Notifications Roles Alexa

Product Name:

Description: Alexa device type: smart plug

Alexa Device Type: smart plug

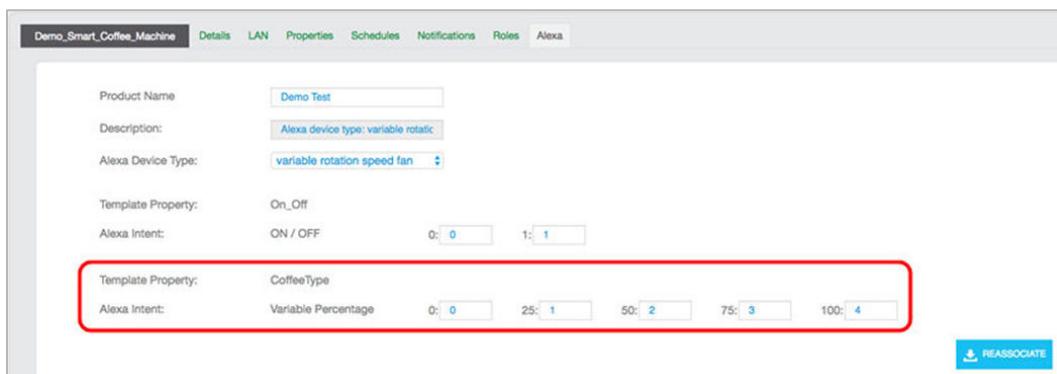
Template Property: On/Off

Alexa Intent: ON / OFF 0: 1:



If *fan* is the Alexa Device Type, click **variable rotation speed fan** in the drop-down list.

Additional fields display for the Variable Percentage Alexa option, as shown below. Notice that you can edit the values for Variable Percentage.



Demo_Smart_Coffee_Machine Details LAN Properties Schedules Notifications Roles Alexa

Product Name: Demo Test

Description: Alexa device type: variable rotatc

Alexa Device Type: variable rotation speed fan

Template Property: On_Off

Alexa Intent: ON / OFF 0: 1:

Template Property: CoffeeType

Alexa Intent: Variable Percentage 0: 25: 50: 75: 100:



- Click **REASSOCIATE** to complete the Alexa configuration for the Ayla device.

9 OEM

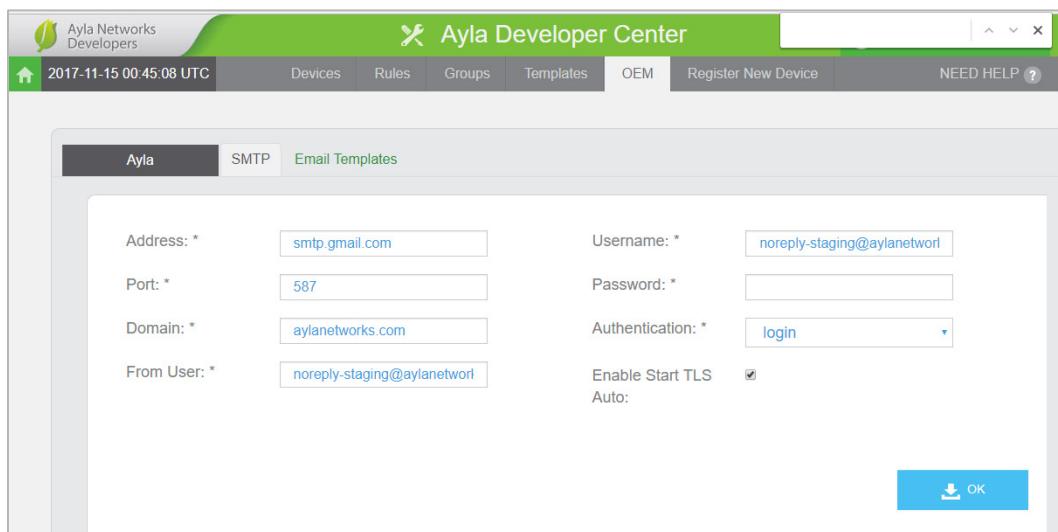
The OEM section of the Ayla Developer Portal allows you to setup and configure your SMTP server and Email Templates.

NOTE Only customers defined as OEMs in the Ayla Developer Portal can setup and edit SMTP settings and Email templates.

9.1 Edit SMTP Settings

To edit your SMTP settings, perform the following steps:

On the OEM tab, you can edit settings on the SMTP tab.

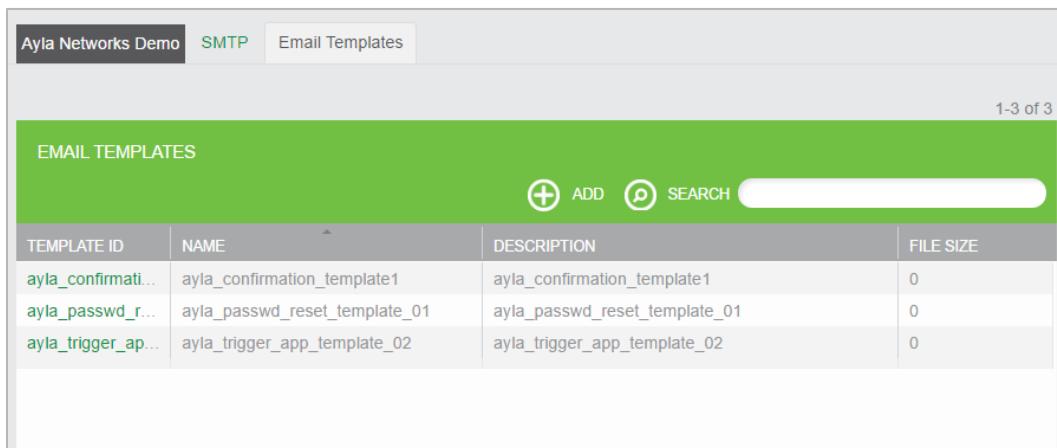


- **Address** (email address).
- **Port** number
- **Domain**
- **From User**
- **Username**
- **Password**
- **Authentication:**
 - **plain**
 - **login** (login required for authentication)
 - **cram_md5**
- **Enable Start TLS** **Auto** checkbox:
 - **Select** (enable start TLS)

- **Unselect** (disable start TLS)
- When done, click **OK**.

You should receive a message indicating the SMTP setting have been updated.

9.2 Email Templates

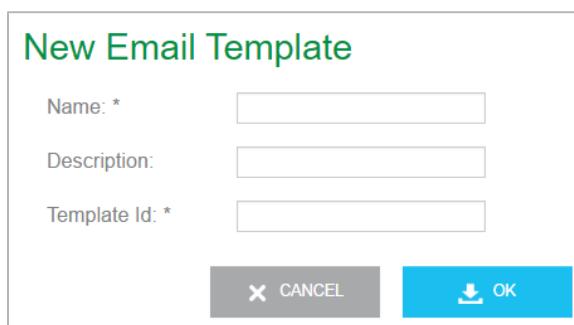


TEMPLATE ID	NAME	DESCRIPTION	FILE SIZE
ayla_confirmation_template1	ayla_confirmation_template1	ayla_confirmation_template1	0
ayla_passwd_reset_template_01	ayla_passwd_reset_template_01	ayla_passwd_reset_template_01	0
ayla_trigger_app_template_02	ayla_trigger_app_template_02	ayla_trigger_app_template_02	0

NOTE The Search function is interactive. As text is entered in the Search field, the table listing refreshes to show all matches with the entered characters. If there are no matches, the table listing is blank. To restore the full list, remove/delete the search field text.

9.2.1 Create Email Template

On the Email Template table listing, click **ADD** .



New Email Template

Name: *

Description:

Template Id: *

X CANCEL **OK**

1. Enter:

- **Name** (name of the template)
- **Description** (information about this template)
- **Template Id** (ID to refer to this template – used to specify this template)

2. When done, click **OK**.

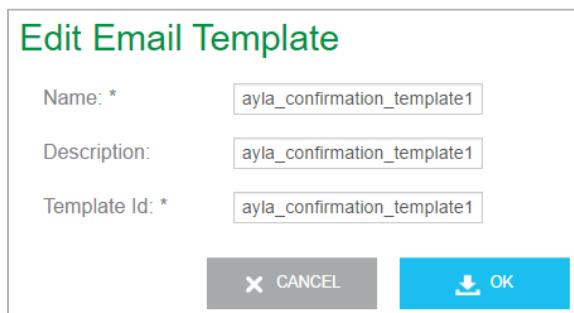
The new email template is added under your OEM email templates.

You should receive a message indicating the Email settings have been created.

9.2.2 Review/edit Role

In the table listing, click the **Template ID**.

On the Edit Email Template dialog box:



The dialog box is titled "Edit Email Template". It contains three input fields: "Name: *" with value "ayla_confirmation_template1", "Description:" with value "ayla_confirmation_template1", and "Template Id: *" with value "ayla_confirmation_template1". At the bottom are "CANCEL" and "OK" buttons.

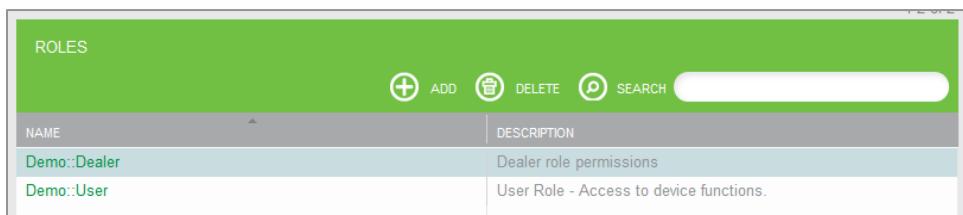
Editable fields are:

- **Name**
- **Description**
- **Template Id**

If any changes, click **OK**.

9.2.3 Delete Role

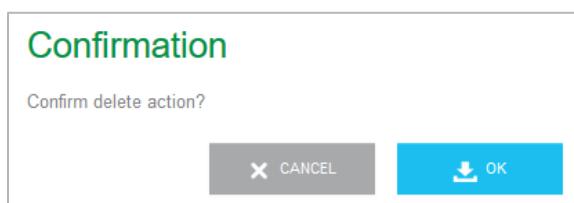
1. On the Roles table listing, select the role.



ROLES	
NAME	DESCRIPTION
Demo::Dealer	Dealer role permissions
Demo::User	User Role - Access to device functions.

2. Click **DELETE** .

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



The dialog box is titled "Confirmation". It contains the text "Confirm delete action?". At the bottom are "CANCEL" and "OK" buttons.

10 Glossary

Cloud templates	Ayla Networks' predefined cloud templates that are designed to reduce the work requirement for a customer to create a product.
RBAC	Role Based Access Control (RBAC) is the MCU of the device that communicates directly with Ayla enabled Wi-Fi module.
Wi-Fi Module	A hardware component that has an MCU containing the Ayla agent and Wi-Fi component used to allow connectivity to Ayla Cloud Services.

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