From:	Anastasiia Komar <akomar@thingsboard.io>
Sent:	viernes, 7 de octubre de 2022 7:52
To:	lmulero@safexain.com
Cc:	Nizar Ali; sdepascali@gmail.com; Rayhan; Olha Zaporozhets
Subject:	Re: NDAs

Hi all,
Sorry for the late response. Here is the flow description:

Host for MQTT msgs : *mqtt.thingsboard.cloud https://thingsboard.io/docs/paas/user-guide/device-profiles/#mqtt-device-topic-filters*
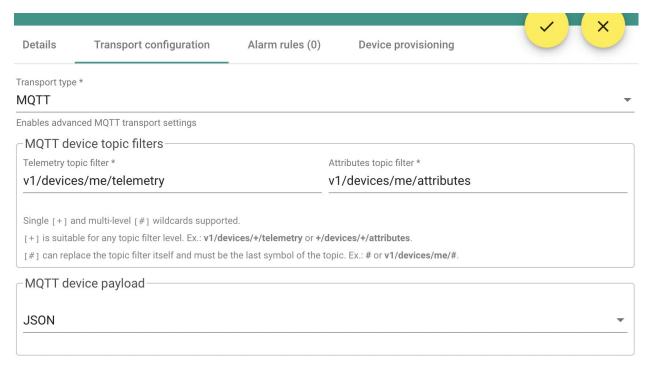

Step 1:
Create device profile for device provisioning: https://thingsboard.io/docs/paas/user-guide/device-provisioning/#device-profile-configuration

Provision strategy *

Allow to create new devices

Configure the transport setting (here is the place to modify topics for sending data from device)

Details	Transport configuration	Alarm rules (0)	Device provisioning

Transport type *
MQTT

Enables advanced MQTT transport settings

MQTT device topic filters

Telemetry topic filter *	Attributes topic filter *
v1/devices/me/telemetry	v1/devices/me/attributes

Single [+] and multi-level [#] wildcards supported.

[+] is suitable for any topic filter level. Ex.: **v1/devices/+/telemetry** or **+/devices/+/attributes**.

[#] can replace the topic filter itself and must be the last symbol of the topic. Ex.: **#** or **v1/devices/me/#**.

MQTT device payload

JSON

☐ Send PUBACK on PUBLISH message validation failure
By default, the platform will close the MQTT session on message validation failure. When enabled, the platform will send publish acknowledgment instead of closing the session.

Step 2:
Send the message to register the device to the topic */provision*
Message payload:

```
{
  "deviceName": "DEVICE_NAME",
  "provisionDeviceKey": "PUT_PROVISION_KEY_HERE", // from device profile
  "provisionDeviceSecret": "PUT_PROVISION_SECRET_HERE", // from device profile
  "credentialsType": "ACCESS_TOKEN",
  "token": "DEVICE_ACCESS_TOKEN" //this is the first secret key, its unique per device
}
```

In case you don't have the access_token for the device, you can send the message without them, it will be generated by TB.

https://thingsboard.io/docs/user-guide/device-provisioning/?mqttprovisioning=access-token#mqtt-device-apis

Step 3:
Once the device is registered, you can send the messages to post telemetry and attributed from device side
Post the message to the topic for attribute sending:
        Example:

 # Publish client-side attributes update. Replace $THINGSBOARD_HOST_NAME and $ACCESS_TOKEN with corresponding values.
mosquitto_pub -d -h "$THINGSBOARD_HOST_NAME" -t "v1/devices/me/attributes" -u "$ACCESS_TOKEN" -m "{"attribute1": "value1", "attribute2": true}"
 # For example, $THINGSBOARD_HOST_NAME reference live demo server, $ACCESS_TOKEN is ABC123:
mosquitto_pub -d -h "demo.thingsboard.io" -t "v1/devices/me/attributes" -u "ABC123" -m "{"attribute1": "value1", "attribute2": true}"

The message should contain the values for Power_suppier_secret_key and CUPs; This message should be sent only once, after that the rule chain that will be developed for you from our side will attach the device to the needed Power supplier and exact grid.

https://thingsboard.io/docs/paas/reference/mqtt-api/#mqtt-basics

Regards,
Anastasiia

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