HTTP Integration

Introduction

- As of most recent release for Tektelic network server, the HTTP integration supports both LoRaWAN uplink and downlink packets.

- **Requirements**
    - Tektelic Network Server account
    - LoRaWAN Gateway
    - LoRaWAN Sensor

- **High-level procedure**

1. Set up HTTP Endpoint to receive data

2. Set up Integration on Tektelic NS

3. Verification of data reaching to endpoint

4. Verification of downlink over HTTP

Note: Before moving forward in this document, ensure you have commissioned your LoRaWAN gateway and sensors on Tektelic Network Server.

Set up HTTP Endpoint to receive data

- Various types of HTTP endpoints can be used to receive the data from the integration.

- In this example, we are using Beeceptor endpoint:

1. Enter an endpoint name and click "Create Endpoint"

2. Copy the URL provided: (i.e https://tektelichttp.free.beeceptor.com), which acts as the application address for the integration.

Set up Integration on Tektelic NS

1. Click on 'Applications' option.

2. Select your newly created Application and click the "Manage Integrations" button

3. Click on the '+' button in the top right corner to add your integration.

4. Enter the integrations name and select HTTP for the type.

5. Select your device's data converter. In this example a Kona Home Sensor is being used.

6. Enter the IP or the URL of the endpoint in "Application Address" field without the http/https prefix.

7. Enter port number as port 80 or configure it to match the open port on your endpoint.

8. Click the Add button

Confirm data reaches endpoint

- On your endpoint, when the device sends an uplink, you should be able to see the packet arrive at your HTTP endpoint.

Confirm downlink functionality over HTTP

1. Download Insomnia tool to send downlink messages to the device:

2. Open Insomnia and set the method as "POST".

3. On the Tektelic NS, open your integration details and copy the HTTP URL Path.

4. Combine the Tektelic Network Server address and HTTP URL Path as seen in the example on the next page.

5. Paste your combined NS/HTTP URL Path into the URL space next to "POST" on Insomnia.

6. Add the body with correct values (JSON type, see next page)

7. Click the Send button

Note: On the Tektelic NS, you should be able to see the downlink posted in your device's downlink queue.

Confirm downlink functionality over HTTP

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