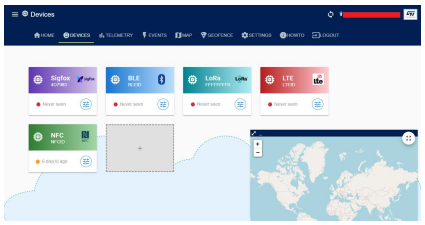
DSH-ASSETRACKING

Data brief

Cloud Amazon-based web application for asset tracking



Product summary	
Cloud Amazon-based web application for asset tracking	DSH-ASSETRACKING
ST Asset Tracking app to configure a Sigfox or a BLE node	STAssetTracking
STM32Cube function pack for asset tracking with LTE connectivity, GNSS and MEMS sensors	FP-ATR-LTE1
STM32Cube function pack for asset tracking using BLE connectivity for SensorTile.box	FP-ATR-BLE1
STM32Cube function pack for IoT tracker node with LoRa connectivity, GNSS and sensors	FP-ATR-LORA1
STM32Cube function pack for IoT node with Dynamic NFC Tag, environmental and motion sensors	FP-SNS-SMARTAG1
STM32Cube function pack for IoT tracker node with Sigfox™ connectivity and sensors	FP-ATR-SIGFOX1
Applications	Tracking

Features

- Application framework powered by AWS
- Asset tracking position and overview map
- Event monitoring with historical trends (i.e. wake-up, tilt, 6D orientation, overtemperature, over pressure)
- Sensor data visualization, device live monitoring and historical trends for:
  - temperature
  - humidity
  - motion
  - pressure
- Multitechnology connectivity solution:
  - NFC
  - Bluetooth Low Energy
  - Sigfox
  - LoRa
- Data Volumes Limits can be applied

Description

The DSH-ASSETRACKING dashboard is a cloud application powered by Amazon Web Services (AWS). It provides a highly functional and intuitive interface tailored for the collection, visualization and analysis of asset tracking position as well as data from motion and environmental sensors such as temperature, humidity and pressure.

You can use the dashboard to plot and graph real-time or historical position data and sensor values, and to monitor operating conditions such as running temperature and events.

The cloud package can receive and process data streamed directly from compatible ST devices such as NFC Sensor Tag, STEVAL-STRKT01 IoT LoRa tracker and SensortTile.box with Bluetooth Low Energy, Sigfox and LTE nodes.

STMicroelectronics offers this service for free of charge evaluation as specified in the Terms of Usage.
Additional monitoring and limitations may be applied based on resource consumption to keep account usage under control.

1 Asset tracking cloud application overview

After creating your personal device group in the web dashboard, the asset tracking cloud application allows you to:

- create your account using st.com username
- sign the Terms of Usage
- register a new device
- connect the new device to the cloud application
- check the device status and its network connection (a device is considered disconnected if it does not send data for more then six minutes)
- view telemetry data sent by your devices
- select a device and sensor data (temperature, pressure or humidity) plotted on chart
- filter data by choosing a particular time window
- geolocate your devices

Figure 1. Asset tracking cloud application main page

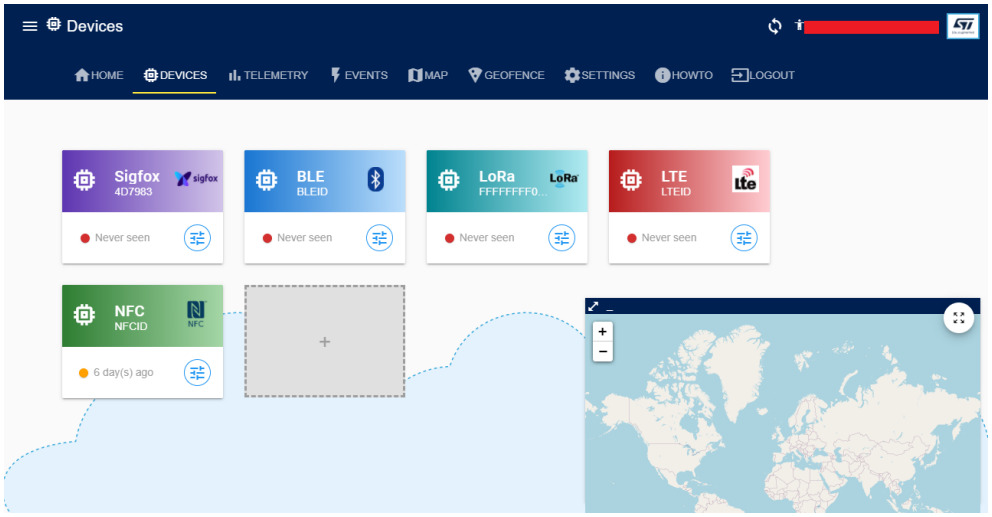
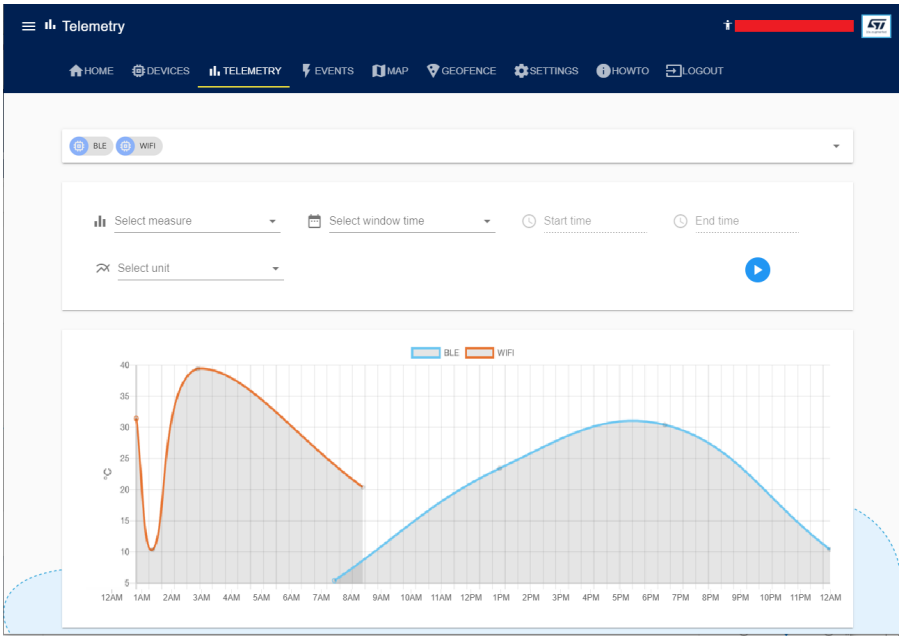


Figure 2. Asset tracking cloud application telemetry page



Revision history

Table 1. Document revision history

Date	Version	Changes
22-Apr-2020	1	Initial release.
09-Jun-2020	2	Minor text changes.
08-Feb-2021	3	Updated cover page image and Section 1 Asset tracking cloud application overview.