truesync
IOT SYSTEMS

Truesync Cloud Bridge

R-D-T

with Truesync IoT Solutions, you can

#1 COLLECT

#2 CONNECT

#3 PROCESS

#4 ANALYZE

#5 INSIGHTS

#6 BENEFITS

ABOUT TRUESYNC.IO

Truesync IoT Systems is an IoT hardware and software comapany registered in United Kingdom.

Our vision is to become a distinguished IoT solution provider in the IoT space which covers Smart City, Utilities, Energy, Industries & Manufacturing, and Farming sectors.

We conceptualize, design, develop, test, integrate, deliver, and support solutions for the client's needs and challenges.

By utilising our IoT Sensor Nodes, Gateways and Cloud solutions, we are helping in the front line of turning cities into Smart Cities, traditional grids into Smart Grids & Smart Energy entities with benchmarking references.

Reach us for your use cases and challenges via www.truesync.io.

TRUESYNC CLOUD BRIDGE

Truesync cloud bridge some time referred as "TS-CB" enables fast, secure, and scalable connection of things to the cloud of any choice with multiple protocols, encryptions, and any payload formats. It can be hosted on your premise privately or any public cloud platforms.

The Constrained devices communicates through different LPWAN technology (NB-IoT, LoRaWAN™, etc) to the Truesync cloud bridge, where the incoming data gets processed, analysed, and evaluated in the form of telemetry, graphs etc. This evaluated data can be forward to any of the platforms like Microsoft Azure IoT hub, AWS, etc based on the customer's choice. This will enable customers wide flexibility to use their own IoT platforms or existing IoT Platforms.

The IoT cloud bridge with full device management capabilities will enable your enterprise to centrally manage the entire fleet of IoT devices through a single pane of glass and greatly reduce operating costs.
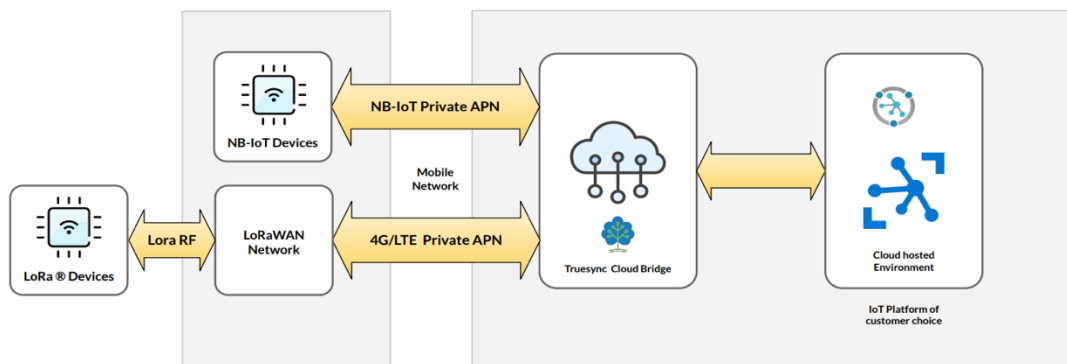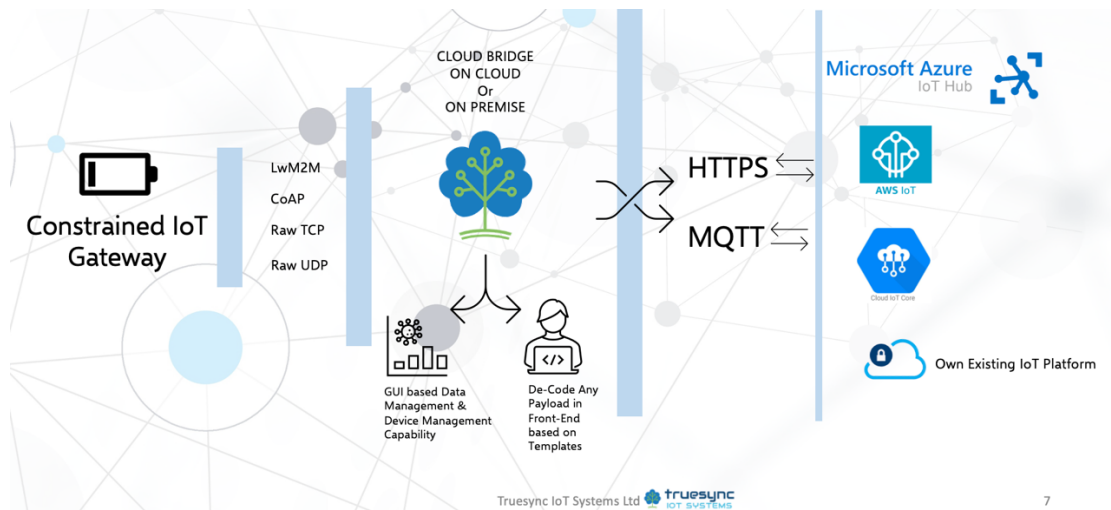
TRUESYNC CLOUD BRIDGE ADVANTAGES AND FEATURES

- Truesync Cloud bridge can support NB-IoT, LTE-M, LTE, 5G, LoRa® and LoRaWAN® technologies and its employed devices.

- Install Locally on your server or Install on any VM hosted on Public Cloud as well.

- Switch between Various IoT Platforms without any dependencies.

- The data sent by the devices are routed to Truesync cloud bridge.

- Cloud bridge collects data from downstream devices, transforms and converts it to JSON, and then sends it to any IoT Platform of Choice.

- Local Visualisation for basic Monitoring of Collected Data (if required).

- C2D messages from the IoT Platform are queued and delivered to downstream devices.

- Support Disaster Recovery.

- Highly scalable to tens of thousands of devices.

- Industry standard security features.

- Data retention of minimum 30 days and is configurable.

- Microservice architecture with no Single point of failure.

- Intuitive GUI based management.

- Decode any payloads in front end enabling easy and efficient data streaming.

- Directly supporting following protocols such as Raw UDP, TCP, CoAP, MQTT, https etc.

FEATURES IN PROGRESS

The following features are under implementation and planned to release in Q2-2023.

- Non-IP Data Delivery through NB-IoT/LTE-M Network.
- Email, SMS Notification based on custom rules defined by Administrator.
- Enhanced Dashboard Visualisations, Graphs along with derived values.
- Maps and GPS Location based mapping.
- Custom alarms and actions using Rule engines defined by Administrator.
- Custom Downlink Actions using Rule engines defined by Administrator.
- Single mobile app which can be used for all use case.
- Access controls and levels.

End to End Architecture

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