SENSUM
Connecting your things

LoRaWAN™

LORANEXUS is an enabling mash-up layer for LoRa devices. It provides web-tools for planning, deployment and commissioning. It combines the experience with conventional wireless protocols with the advantages of new IoT technologies like LoRaWAN.

LoRaWAN™ is a wireless technology with characteristics such as large coverage areas, low bandwidth, very small payloads and application layer data sizes and long battery life operation.

LORANEXUS supports different LoRaWAN network structures as a Management and Connectivity layer. It forms a seamless architecture between the LoRa devices and the application.

MAIN FEATURES

- Cloud based on a secure web-server
- On Premise with Nano Server
- Supports different LoRaWAN™ networks
- Direct connection of in-house gateways
- Tenant, Client & User Management
- Create LoRaWAN™ projects
- LoRa Device configuration per Downlink*
- Deployment & Commissioning tools*
- Remote Device Management*
- ModBus, API and MQTT interface

* With LORANEXUS enabled devices & sensors

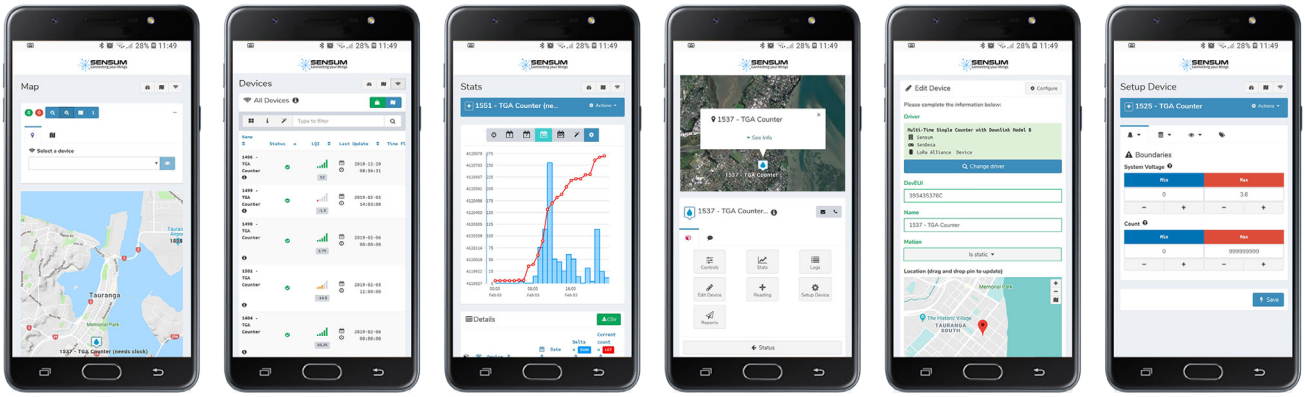
LORANEXUS VERSIONS

CLOUD Hosted version for unlimited devices. As End to End monitoring, data collection or middleware to target applications

ON PREMISE Supports a local installation on a industrial Linux PC (Nano Server). Same functionality as the CLOUD version but with limited devices.

RESPONSIVE VIEWS

LORANEXUS supports a mobile friendly & responsive user interface. It provides different views for client, tenant and technical staff.
The mobile view is used for deployment, configuration, commisioning and trouble shooting. It's a valuable and necessary tool during planning and in the field.



LORANEXUS KEY FEATURES

LoRaWAN™ Device Support

LORANEXUS supports any conventional LoRaWAN™ device which is certified by the LoRa® Alliance or follows the LoRa® Alliance Specifications.

The devices have to be OTAA enabled to prevent a manual configuration in the network layer.

LORANEXUS Enabled Devices

The configuration, deployment and commissioning of LoRaWAN™ devices is not defined in the LoRa® Alliance Specifications. This is also a fact for the decoding of the payload. Wireless M-Bus went through the same development like LoRa® and had several iterations over the last 20 years. Leading to the Open Metering Standard (OMS). Most sensor suppliers are not aware about the practical advantages of OMS. LORAnexus is combining the experience and structure of a established standard into LoRaWAN™.

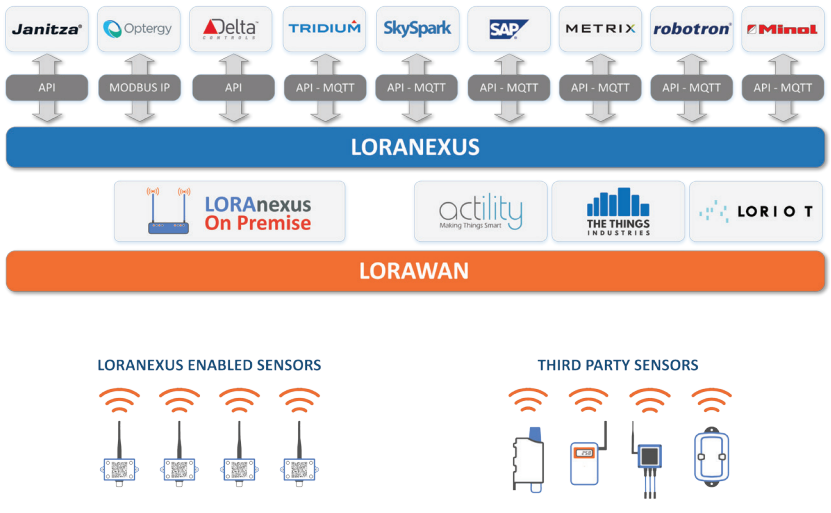
Due to the capability of LoRaWAN™ devices to receive a downlink with every Uplink (message) configurations and commands can be transmitted. Even as a Class-A device. A LORAnexus enabled device contains a configuration and command set which is received with every downlink and determines the functionality of the device or sensor. A direct configuration via USB, NFC, DIP-Switches or jumper is not necessary any more.

Transparent Deployment & Commissioning

Key factors for complex LoRaWAN™ metering devices like Pulse-Totaliser, ModBus Transceiver, Analog Input or Digital I/O, Temperature or Air-Quality sensors are the configuration of transmission cycle, behaviour (Periodic and Event-Based Sampling) and the assignment to slave devices (e.g ModBus).

This leads to time consuming pre-configuring to pair the sensor/transceiver to the meter.

LORAnexus supports this pre-configuration, the deployment and the commisioning in a unique way to facilitate the task for the project manager and the field staff.



SENSUM
P +64 7 9287972
E sales@sensum.co.nz
W www.sensum.co.nz

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