



Go-IoT LoRaWAN® to BACnet®

How to integrate LoRaWAN® technology transparently into BACnet® based building management systems

OBJECTIVE

To virtualize LoRaWAN® devices as BACnet® devices in the BMS.

Greatly simplify integrating LoRaWAN® devices into the BMS without configuration or programming.

AUTO-CONFIGURATION

As soon as a LoRaWAN® device joins the LoRaWAN® network, it is transformed to a virtual BACnet® device on the BACnet/IP network by template.

HARDWARE

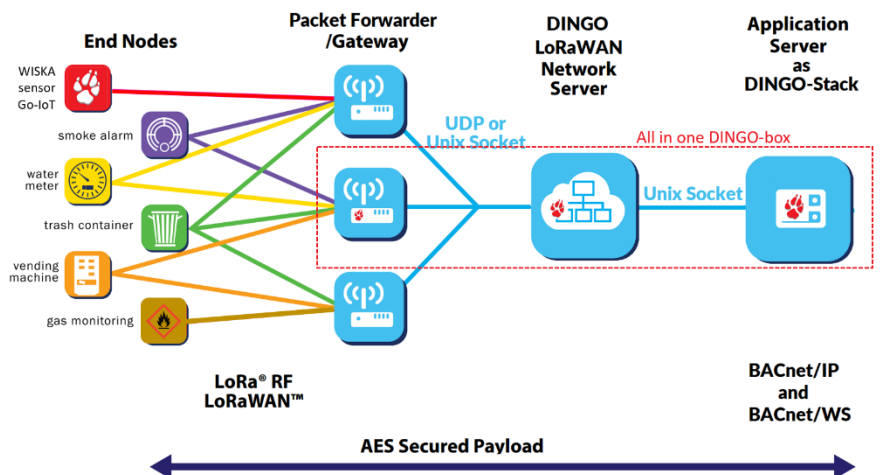


PRESS RELEASE

Iceland & London, UK • Feb. 4th 2021

Go-IoT is an IoT company focusing on virtualizing devices using legacy, present or future protocols as standard BACnet® devices. Today announcing its release of LoRaWAN® support to their software stack; DINGO-Stack and hardware; DINGO BACKbone.

Thereby enabling whatever LoRaWAN® end-device to become a virtual BACnet® device in the Building Management System (BMS)



The solution is currently finishing its trial period in many buildings in Norway, UK and USA, serving both A- and C-class LoRaWAN® sensors and actuators from different vendors.

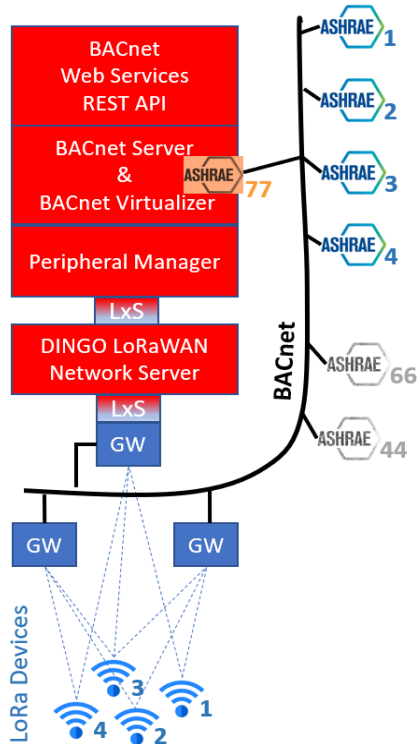
Hardware • DINGO LoRaWAN® Concentrator (DLRWC)

DLRWC is based on Go-IoT's plug-in based DINGO-hardware. Within the box:

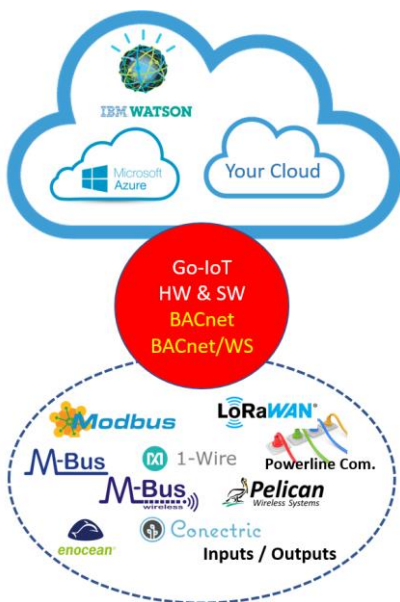
- Industrial-grade Raspberry Pi 3 or 4 based COM: 4 kernel CPU • Up to 8GB RAM • Up to 32GB eMMC.
- LoRaWAN® concentrator plug-in. 8-channels • Listen-before-talk • High sensitivity.
- Up to 3 extra plug-ins. RS485, ModBus, ADC, wMBus, 4G, etc.
- External connectors. 2 x Ethernet, USB, 1Wire, RS232, RS485, Display & LEDs
- Optional internal power supply or POE.

SOFTWARE

LoRa® Devices 1,2,3 & 4 virtualized as BACnet® Devices



ABOUT GO-IOT



BACnet® is a registered trademark of American Society of Heating, Refrigerating and Air-Conditioning Engineers (ASHRAE)

LoRaWAN® and LoRa® are registered trademarks of the LoRa Alliance www.lora-alliance.org

Software • DINGO LoRaWAN® Network Server (DLRWNS) & DINGO-Stack

DLRWNS is a light weight, simple to configure LoRaWAN® Network Server intended for private LoRaWAN® network. It supports:

- LoRaWAN® 1.0.x and 1.1 Specifications.
- Basic ADR, Manual ADR and Fair ADR¹⁾.
- LoRaWAN® OTAA and ABP.
- Class A and Class C devices.
- World-wide regions, EU868, US915, etc.
- Multiple gateways, including on same hardware. installation via lighting fast Unix-socket.
- Down-link configuration.
- DINGO-Manager²⁾ integration for configuration.

DINGO-STACK operates as the LoRaWAN® Application server responsible of virtualizing and auto-configuring each incoming LoRaWAN® device as a BACnet® device. It can manage LoRaWAN® devices simultaneously with other protocol devices like Modbus, MBus, wMBus, Power-line Communication, etc. All virtualized as BACnet® devices.

ABOUT GO-IOT

MAKE EVERYTHING BACNET® • BRING IT TO THE CLOUD • SECURITY

Go-IoT is a UK and Iceland based company. Its main focus is to create open standard based solutions for the Building Management Industry. In particular it focuses on virtualizing different device protocols as BACnet® protocol and bringing BACnet® to the Cloud via its implementation of the BACnet/WS standard (Web Services, REST based).

Currently under development are LoRaWAN® based WISKA sensors which are due for release in Q3 2021.

Go-IoT develops and markets both hardware and software. It also consults and service their customers.

Go-IoT has customers worldwide including Norway, UK, Canada and USA.

Go-IoT sells its products world-wide via their distributor Innovelec in UK.

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