

# DUAL STACK

# OMS® v4.5.1 + OMS® over LoRaWAN® (TRO6)

Smart utilities need more than a good network. They need a great connection with the best possible flexibility for different application scenarios. Why not offer your customers exactly that?

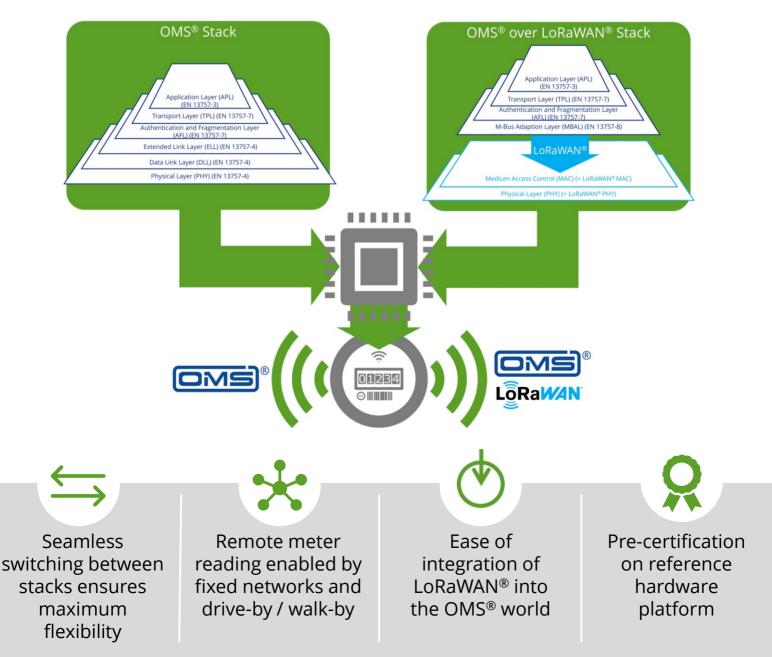
By integrating our dual stack for end points, you enable your customers to have interoperable devices with the latest OMS<sup>®</sup> v4 and TR06 specified communication.

OMS over LoRaWAN® defines how OMS®

compliant data packets can be exchanged bidirectionally via LoRaWAN<sup>®</sup>.

The dual stack enables both remote meter reading via fixed networks and via walk-by / drive-by to ensure 100% data collection.

Take advantage of these standards in your product development – this way you can meet your customers' requirements with strong OMS<sup>®</sup> solutions.



#### SUPPORTED SPECIFICATIONS

OMS<sup>®</sup> v.4.5.1 Protocol Stack compliant according

- EN 13757 (Wireless M-Bus)
- Open Metering Standard (OMS®)

OMS<sup>®</sup> over LoRaWAN<sup>®</sup> Protocol Stack compliant according

 OMS<sup>®</sup> over LoRaWAN<sup>®</sup> (acc. to TR06 v2.0.8) specification

#### **STACK FEATURES**

- Switching of stacks "on-the-fly"
- User-defined protocol priority to be set for each possible state of a system
- Compile time selection of stacks
- Open platform driver enabling customizations (e.g., radio frequency)

#### New in the OMS® v4.5.1 Stack

- Enable optimization of TRX timing
- Security profile D

#### OMS<sup>®</sup> over LoRaWAN<sup>®</sup>

- OMS<sup>®</sup> Up- & Downlink via LoRaWAN<sup>®</sup>
- Security profiles A, B & D

### **REFERENCE HARDWARE**

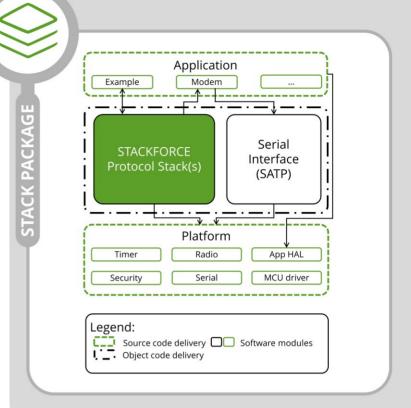
ST Nucleo-WL55JC (STM32WL55JC)

#### **STACK CHARACTERISTICS**

Memory requirements\*

	Library	Applications, HAL, drivers, other software
Flash	~ 89 kB	~ 25 kB
RAM	~ 6 kB	~ 7 kB

\* The code sizes described above specify the typical required memory for operating the full featured protocol stack as a library including related drivers. Values based on reference hardware. The RAM requirements for LoRaWAN<sup>®</sup> FUOTA are not included in the values, as these are very dependent on the application.



## YOUR BENEFITS



Exchange of standardized OMS<sup>®</sup> data points, which facilitates the reuse of existing systems for data processing

Platform Interface now available as source code:

- Customization and fine tuning of platform driver
- Customization of radio settings (e.g., frequency)

Optimized footprint when using a dual stack compared to using two single stacks



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## STACK PACKAGE