

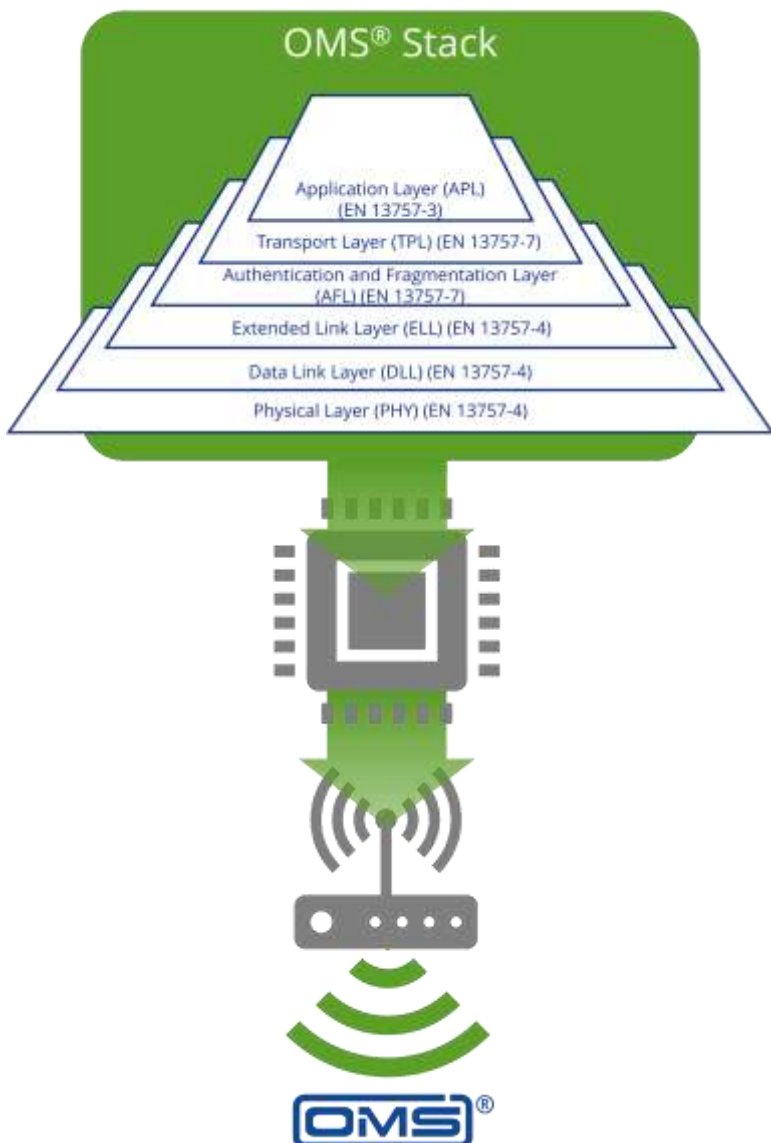
# OMS<sup>®</sup> v4.5.1 FOR GATEWAY DEVICES

The OMS<sup>®</sup> Stack for Gateway Devices plays a central role within a smart metering network. It enables data transmission from numerous meters and sensors and allows the device to manage a large number of connections simultaneously.

The OMS<sup>®</sup> v4.5.1 stack implements all the protocol elements required for Wireless M-Bus compliance.

It also covers a large part of the options and features specified in EN 13757 and its sub-standards, with a focus on the most commonly used options and features.

Version 4.5.1 of the OMS<sup>®</sup> Stack offers several new features and you can be sure that you are equipping your products with a proven and constantly evolving software solution.



Compliant to EN 13757 -3/-4/-7 (Wireless) M-Bus and OMS<sup>®</sup> Specification



Twenty end devices can be connected to one gateway device



Bidirectional as well as unidirectional communication possible



Pre-certification on reference hardware platform

## SUPPORTED SPECIFICATIONS

Compliant according

- EN 13757-3/-4/-7
- OMS® Specification

## STACK FEATURES

- EN 13757-3/-4/-7 (Wireless M-Bus) compliant protocol stack for gateway devices
  - Operation modes S, T or C
  - Encryption modes 5 and 7
- Compliant to specification OMS® v4.5.1 by OMS® group, referring to EN 13757
  - Security profiles A or B

New

- Security profile D (encryption mode 10)<sup>1</sup>
- Enables application to support all use cases specified by Annex M „Requirements for OMS® use case support“
- Enables optimization of TRX timing

## REFERENCE HARDWARE

STM32WL3

## STACK CHARACTERISTICS

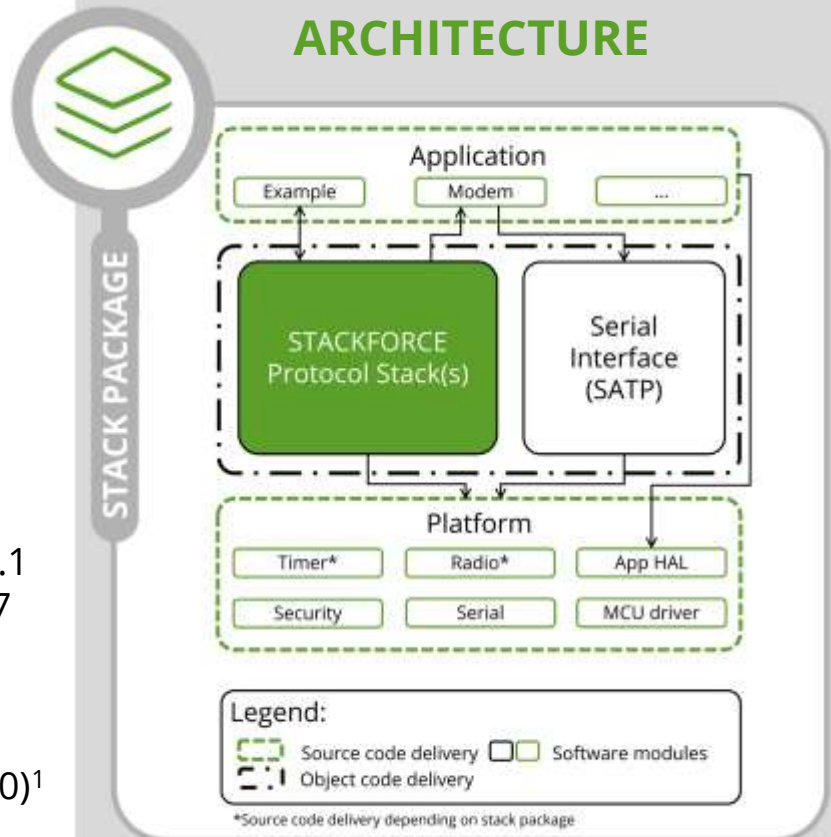
Memory requirements\*

	Library	Applications, HAL, drivers, other software
Flash	~ 86 kB	~ 25 kB
RAM	~ 13 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.

<sup>1</sup> Feature will be implemented in a later product version.

## STACK PACKAGE ARCHITECTURE



## YOUR BENEFITS



Example application allowing an easy start-up of the stack



Platform Interface enabling customization and fine tuning of Platform Driver



Customization of this OMS® v4.5.1 stack to your requirements is possible



Professional support and long-term maintenance and availability