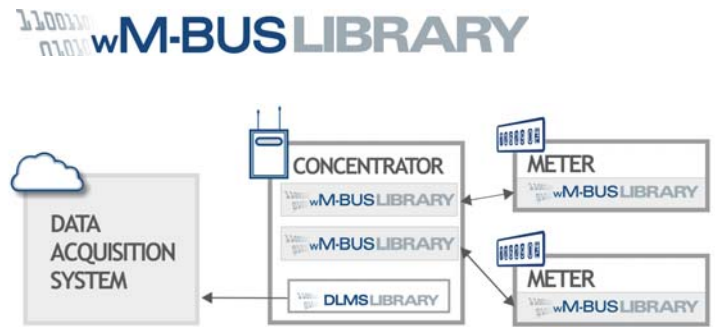
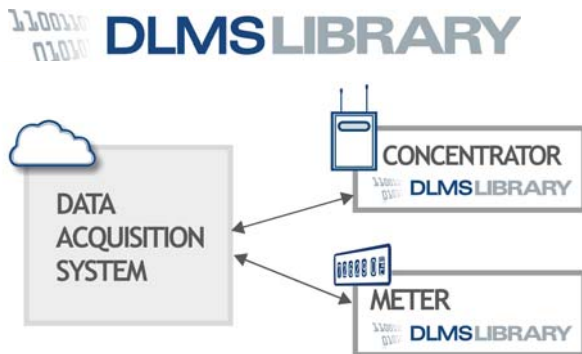


Smart Meter Library Suite

For the Open AT Application Framework

Terranova, leading provider of software solutions for Utilities (electricity, gas, water), has developed a Smart Meter Library Suite compatible with Sierra Wireless AirPrime embedded modules (SL Series and Q Series) and AirLink Programmable Gateways (GL Series and FX Series) supporting the Open AT Application Framework. This library includes a DLMS Library and a Wireless M-BUS Library. The DLMS Library provides everything you need to easily implement a smart metering system (gas, electricity, and water) using the DLMS/COSEM protocol. The Wireless M-BUS Library was designed to be placed in both concentrators and meters. The version for concentrators has an integrated software DMLS Library, forming part of the Smart Meter Libraries Suite.



CHARACTERISTICS OF THE SOLUTION

The DLMS part of the protocol describes:

- how the applications must communicate
- how the metering data is exchanged
- how the application association must be done

The COSEM part of the protocol describes how the meter data must be maintained by the server.

KEY FEATURES & BENEFITS

- Abstracts from the communication channel (can be used on GPRS sockets, optical port, serial port, etc)
- Follows the MISRA-C (Motor Industry Software Association) syntactic rules to facilitate code safety, portability and reliability in embedded systems context
- Integrates the logic for message handling and secure remote data access
- Provides a dynamic memory allocator ad-hoc optimized for embedded systems to avoid internal and external fragmentation problems
- Supports scalable and adaptable library architecture for an easy integration with future protocols
- Supports GCM-AES128 message ciphering and authentication
- Allows the consultation of the server objects through Logical Names or Short Names referencing
- Allows a easy to use object model with more than 40 COSEM derived classes implemented
- Supports for High and Low level security client authentication
- Provides support for the evolution of the protocol DLMS/COSEM

CHARACTERISTICS OF THE SOLUTION

The software Wireless M-BUS Library manages the data acquisition from the central system and it is able to communicate with the concentrators.

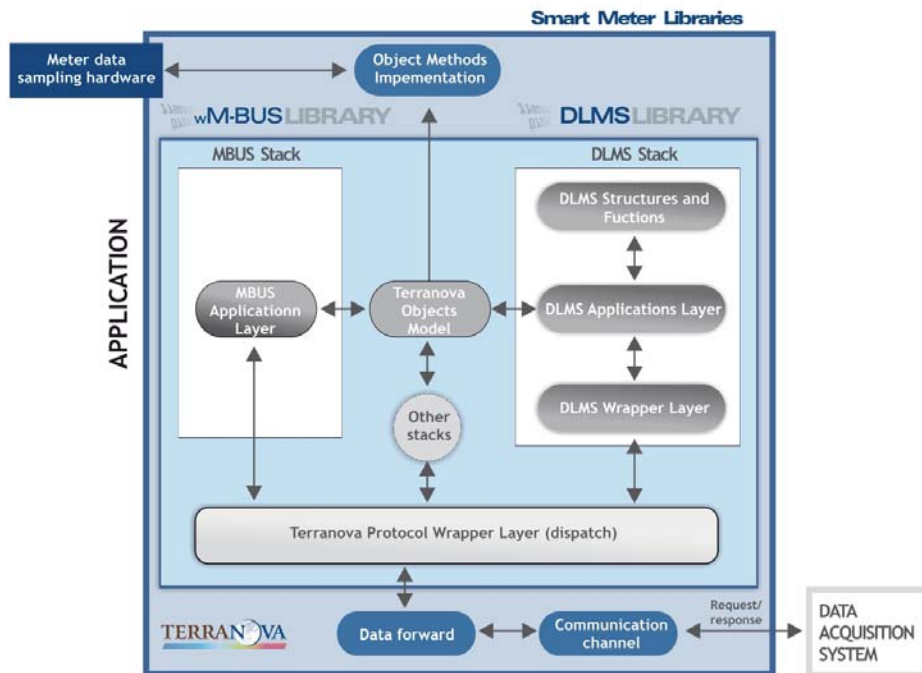
The concentrator itself, thanks to the Wireless M-BUS Software Library, manages measurement data to communicate with several meters.

KEY FEATURES & BENEFITS

- Abstracts from the communication channel (can be used on GPRS sockets, optical port, serial port, etc)
- Follows the MISRA-C (Motor Industry Software Association) syntactic rules to facilitate code safety, portability and reliability in embedded systems context
- Integrates the logic for message handling and secure remote data access
- Provides a dynamic memory allocator ad-hoc optimized for embedded systems to avoid internal and external fragmentation problems
- Scalable and adaptable library architecture for an easy integration with future protocols
- Terranova provides support for the evolution of the protocol MBUS

Smart Meter Library Suite

For the Open AT Application Framework



UNIQUE IN THE MARKET

In the Smart Meter Libraries Suite Architecture, the Wireless M-BUS Library and the DLMS Library, developed by Terranova, can be used together or separated by sharing the interface Terranova Object Model.

THE ARCHITECTURE BEHIND THE SOLUTION

In support of DLMS Library and Wireless M-BUS Library can be supplied software tool for testing and speed up the integration activities of the protocols.



ABOUT TERRANOVA

Terranova is one of the market leaders in Italy for Software solutions designed for the utility markets. The company began to focus on this field from the early years of the new millennium, when the unbundling of the latter had already been accomplished. Market performance then confirmed the validity of the solutions offered, allowing Terranova to become one of the key players in Italy amongst operators in the utility sector for the distribution and sale of gas, electricity and water. Pietro Fiorentini has been partner with Terranova since 2011. The company's mission is to transform its expertise into applications capable of supporting business processes and resolving the problems faced daily by all companies. Terranova offers flexible, modular solutions that can be customised to fit clients' individual requirements, solutions that range from metering, to settlement, billing, CRM and Work Force Automation.

TRY THE DLMS LIBRARY

Visit www.sierrawireless.com/XXXXXXX to download the library and get started today.

WANT MORE INFORMATION?

For more information about the DLMS Library or Wireless M-BUS Library licensing, please contact your local Sales Representative or visit

http://www.terranoftware.eu/eu/dlms_library or

http://www.terranoftware.eu/eu/wireless_mbus_library



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