

IZAR SOLUTION FOR mioty®4OMS CONNECTIVITY

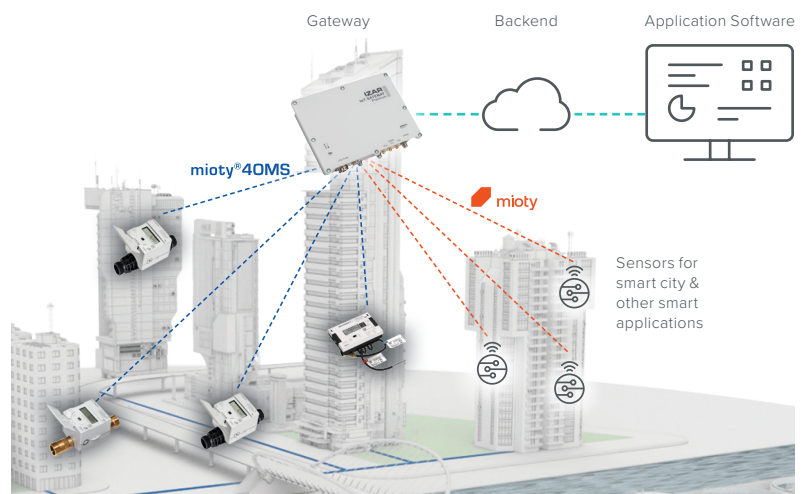
**Harnessing the power of mioty®
with full OMS compatibility**

The future-proof solution for scalable AMI and smart city integration

Diehl Metering is enhancing its IZAR Solution by integrating the latest generation of OMS (Open Metering System) specification with mioty®4OMS.

mioty®4OMS combines the trusted OMS standard with advanced mioty® technology. By using mioty®4OMS, cities aiming to build or upgrade their smart metering systems profit from a robust, scalable and reliable solution.

AMI - Advanced Metering Infrastructure



THE INNOVATION BEHIND THE NEXT GENERATION OF SMART METERING CONNECTIVITY

OMS Generation 5 is the latest release of the OMS specification, supporting both uni- and bidirectional meters, sensors, and gateways for wired and wireless M-Bus communication.

This new protocol utilizes traditional burst mode and a new splitting mode for data transmission; the **splitting mode** offers longer range, higher robustness, and greater scalability.

In **mioty®4OMS**, OMS ensures standardized data storage in radio messages, while mioty® technology securely and efficiently transmits these messages over the air.

This release also defines a new radio protocol tailored to **Low Power Wide Area Networks (LPWAN)**, offering reliable communication and extended battery life for metering and IoT applications.

mioty®, a robust, long-range radio technology, uses this new telegram splitting mode for communication. Combined with OMS Generation 5, it forms mioty®4OMS.

This combination allows mioty®4OMS to provide **seamless interoperability** for mobile and fixed networks, easy integration with **smart city IoT applications**, and scalable growth for utilities.

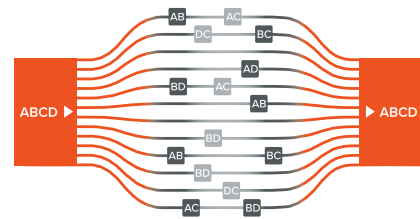


mioty® AND

- Open LPWAN standard (ETSI TS 103 357).
- Extended range in dense networks.
- Ultra low power usage.

ITS TELEGRAM SPLITTING TECHNOLOGY

- mioty® splits the telegram into small subpackets and transmit it at different times and frequencies.
- If interference occurs, not all subpackets are affected.
- The original telegram is easily rebuilt at the Gateway.



DELIVERING SUPERIOR VALUE: KEY BENEFITS EXPLAINED

Ease of operation

- OMS simplifies data encryption from meter to the software level, allowing easy scalability and adaptability.
- Lower system complexity to optimize Total Cost of Ownership (TCO).

Seamless interoperability

- Seamlessly integrates with existing OMS infrastructure.
- Easily expand and connect with other massive IoT applications like smart cities.

Lowest Total Cost of Ownership

- Reliable coverage of large areas with a lower number of receivers.
- Minimize CAPEX and OPEX - installation, planning, rental and maintenance costs.

Future-proofness and scalability

- Delivers highly granular data at outstanding Service Level Agreement.
- Open standard supporting a multi-vendor approach.

Extreme robustness and scalability

- mioty® minimizes data loss risks as more devices crowd the radio spectrum.
- Exceptional capacity to connect countless devices effortlessly.

Highest security and energy efficiency

- Ensures secure communication between meters and central systems.
- Achieve extended battery lifetime, thanks to optimized protocol.

OUR SOLUTION FOR YOUR ADVANCED INFRASTRUCTURE

mioty®4OMS PORTFOLIO		SOFTWARE PORTFOLIO	
METERS	DATA COLLECTORS	METER DATA MANAGEMENT	DATA ANALYTICS SOFTWARE
 HYDRUS 2.0 Ultrasonic smart water meter SHARKY 775* Ultrasonic compact energy meter	 IZAR IoT GATEWAY Premium Multi-connectivity gateway	 IZAR@NET 2 IZAR PLUS Portal Meter Data Management software	 WATER LOSS MANAGEMENT Water network analytics ENERGY FORECAST MANAGEMENT Energy network analytics

NEW HYDRUS 2.0 WITH mioty®4OMS CONNECTIVITY

1st mioty® alliance certified IoT product in the market

EXPLORE IN DETAIL

*Available mid-2025



160+ YEARS
OF EXPERIENCE IN
METERING TECHNOLOGY



CO-FOUNDER
OF THE mioty® alliance

INTERESTED?
LET'S TALK ABOUT
YOUR CHALLENGES!

