



Dear Readers,

We are delighted to welcome three new companies to our ranks in this issue of our newsletter. With their diverse expertise and experience, they will enrich our community and help us to achieve new goals. Let us take this opportunity to briefly introduce them:

EFR GmbH

EFR GmbH, based in Munich with locations in Wutha-Farnroda and Berlin, is a system provider for energy management in Germany and Central Europe. Founded in 1993, EFR is a subsidiary of Bayernwerk AG, N-ERGIE AG, and Netze BW GmbH. EFR offers complete solutions for digital network management in the Smart Grid and operates over 1.3 million radio receivers. The company's services include feed-in management, tariff and load control, public lighting control, and e-mobility charging management.

For more information, visit [EFR GmbH](#).

Power Plus Communications AG (PPC)

Power Plus Communications AG (PPC), based in Mannheim, is a leading provider of Smart Meter Gateways and communication technology for the digital transformation of the energy sector. Since its founding in 2001, PPC has grown into a trusted partner for major energy providers and municipal utilities in Germany. With a strong focus on innovation and security, PPC's solutions facilitate reliable data transmission in modern energy networks. The company prides itself on its experienced team, extensive partner network, and commitment to high quality and interoperability standards.

For more information, visit [PPC](#).

Holley Technology Ltd

Holley Technology Ltd., founded in 1970, is one of China's largest manufacturers and suppliers of electricity meters. Based in Hangzhou, the company exports to over 60 countries. Holley focuses on R&D, manufacturing as well as sales of electricity, gas, and water meters, along with power grid accessories. Known for its robust R&D capabilities, stringent quality systems, and advanced production facilities, Holley provides comprehensive solutions and products to utilities and business partners globally.

For more information, visit [Holley Technology Ltd.](#)

We warmly welcome Holley Technology Ltd., Power Plus Communications AG, and EFR GmbH to our community. We look forward to a productive and innovative collaboration with each of these esteemed organisations.

Best regards OMS e.V.

Upcoming Enlit Milan Exhibition

This year, the OMS Group will again be present at the Enlit exhibition in Milan. As in Paris last year, the OMS Group booth will serve as a contact point for members and their customers and is located at a prime position. The booth will be similar to the one in Paris, offering members the opportunity to showcase their metering products.

This year, there will be a presentation-wall with 34 available windows. Members can present up to two products per window.

You can place your binding order using the attached form at marketing@oms-group.org by June 30, 2023.



Order_Sheet_Enlit_Europe_2024.pdf

You can request the form via office@oms-group.org. If not all available windows are allocated in the first round, we will contact you again in July.

The Future of Smart Metering with the Launch of Revolutionary OMS Gen 5

We are pleased to present an interview with Jörg Feuchtmeier, the convenor responsible for developing certification tools for OMS compliance testing devices. Offering intriguing insights into the future of smart metering and the latest developments with OMS Generation 5, Jörg has been instrumental in creating a number of tools used by developers and independent third parties to certify devices.

As we navigate an era increasingly defined by technological advancements and environmental sustainability, the role of smart metering has never been more crucial. The OMS Group continues to lead the way with the introduction of OMS Gen 5, a state-of-the-art communication technology that promises to revolutionise not just metering, but also the broader scope of smart city applications.



Jörg Feuchtmeier on the Evolution of Smart Metering:

"Fifteen years ago, the concept of smart metering was emerging, but the available solutions lacked interoperability, which was crucial for utilities making significant investments in their infrastructure. To secure their investments, utilities needed interoperable solutions from multiple manufacturers. This gap led to the creation of a system specification, ultimately forming the

OMS Group, an association of meter manufacturers and utilities."

Link: <https://www.youtube.com/watch?v=PSqkUwoMzNs>

OMS Generation 5: Low Power and Extended Range, Offering Forwards Compatibility to Existing OMS4 Devices

As a full member of OMS, you will open up new business opportunities and tap into the benefits free of charge.

The new generation offers significant improvements in several areas:

Seamless Integration: OMS4 devices work in OMS5 infrastructure, protecting your investment.

Smart City Ready: Supports diverse applications, making it essential for future utility developments.

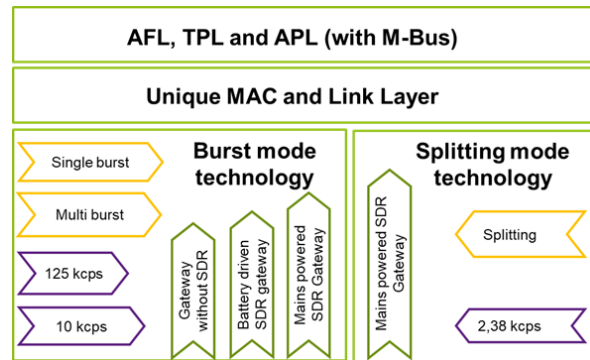
Scalability: OMS Gen 5 LPWAN provides the scalability to adapt for different applications whether it is extending range or increasing data actuality, making it an ideal choice for different UseCases and diverse operational environments. OMS Gen5 is a technology for low power wide area networks (LPWAN), offering the flexibility to balance range and data actuality according to specific needs.

Energy Efficiency: OMS LPWAN is more energy-efficient compared to existing technologies like LoRaWAN®, while providing similar ranges. The integrated intelligence of OMS devices can switch to a more energy-efficient mode when long-range communication is not required, optimizing battery life and reducing operational costs. This feature is crucial as it supports extended battery life, a key requirement in metering.

Robustness and Reliability: In an increasingly crowded radio bandwidth, OMS Gen 5 LPWAN ensures robust performance, minimizing interference and enhancing the reliability of data transmission. Improved robustness is essential as it ensures consistent data communication even in dense urban environments.

Burst Mode:

- Utilises FEC (forward error correction), multi-frequency, and time diversity for robustness.
- Features single burst transmissions for higher energy efficiency, and multi-burst transmissions for reduced transmit duration.
- Compatible with existing meter hardware (mode C), and traditional or Software Defined Radio (SDR) receivers in the gateway can be used.
- SDR in the gateway can enhance the range.
- Offered free-of-charge to OMS-members.



Splitting Mode (TS-UNB):

- Employs telegram splitting technology for robust communication, a technology also used by the mioty alliance.
- Consists of short bursts using many sub-carriers per transmission, leading to a very low transmit duration but higher overall energy consumption, which in turn increases the range and robustness.
- Requires SDR receivers in both transmission and reception for operation.
- IPR: Splitting Mode technology is licensed outside the OMS Group
<https://www.sisvel.com/licensing-programs/wireless-communications/mioty/introduction>

Additional Details:

- Offers three data rates: 125 kcps, 10 kcps, and 2.38 kcps. The lower speeds enhance the transmission range.
- Both modes support varying burst durations and data rates, adjusting range and transmission efficiency as needed.
- Splitting mode is specifically highlighted for its capability to maximise range.

In summary, these technologies are tailored to optimise data transmission efficiency, range, and robustness, catering to specific requirements of network devices, while also considering hardware compatibility and licensing stipulations.

Board Elections at the December General Meeting

This year, our General Meeting in December will include the election of new board members. This is a significant opportunity to actively shape the future direction of our organisation. Your participation and engagement are essential to elect the best candidates for the board positions. We look forward to your active involvement and a constructive meeting.

The OMS Board as of now: (left to right)
Axel Sikora, Jürgen Frech, Andreas Bolder,



Ulrich Eff, Jens Hørdum and Wolfgang Esch.
Not present: Volker Eck Volker Meyer, Heinz Lux
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Licensing of the OMS Logo



From now on, certified products can be labelled with the OMS logo. This opportunity is available to companies that have undergone the certification and licensing process through DVGW. DVGW monitors compliance with strict OMS standards and ensures that all products meet OMS requirements.

Certified products will be marked with the OMS logo, making OMS compatibility visible at a glance and strengthening user confidence.

For further information on licensing the OMS logo, please contact the OMS Group.

Events 2024

Meet the OMS experts! Here are some important dates to mark in your calendar:

- Enlit Europe, Milan, October 22–24, 2024
- OMS General Meeting, December 10, 2024
(for OMS members only)

 [OMS Events on Website](https://oms-group.org/en/events)
Link: <https://oms-group.org/en/events>