



Dear G3-Alliance members and supporters,

The first half of 2025 has been a strong start for the G3-Alliance, marked by new deployments, advancements in specifications, and the addition of new utility members. Since our last newsletter, we welcomed several new members, including DSOs such as Vorarlberger Energienetze GmbH (Austria) and Electricity Authority of Cyprus (EAC)—a clear sign of growing adoption of G3-PLC and G3-Hybrid technologies worldwide.

In March, Gridspertise hosted our Strategic Steering Committee (SSC) meeting at their Milan headquarters, followed by an insightful lab visit. In April, we held our General Assembly online, where we reviewed technical, financial, and certification progress, and approved the 2024 financial results.

G3-Alliance members have been active on the global stage: we exhibited at Distributech 2025 in Dallas, where G3-Hybrid gained strong visibility alongside our partners STMicroelectronics, Wasion, and Sagemcom. We also presented G3 innovations at Enlit Africa, while preparing for upcoming events at Enlit Asia, SmartGridComm, FISE in Colombia and Enlit Europe.

With over 660 certified devices now, G3-Alliance continues to drive forward with the next specification release — supporting battery-powered leaf nodes, FCC subbanding, and enhanced RF features. The release of the new Certification V8 is on track for release ahead of Enlit Europe 2025 in Bilbao.



Thank you to all our members and supporters for your invaluable contributions to the success of G3 technologies!

Marc Delandre, Chairman

Leon Vergeer, General Secretary

New Version of the G3 Specification and Certification

The G3-Alliance Technical Working Group is preparing to release the latest version of the G3 specification, which will be available to all Alliance members by mid-July 2025. This release consolidates over 15 approved technical contributions and introduces a series of functional enhancements, all while maintaining full backward compatibility.

Key improvements include:

Battery-powered device support: Full integration of a low-power RF profile for Battery Leaf Nodes, enabling use cases such as gas and water metering within a unified G3 infrastructure.

Parenting feature: Allowing hybrid G3 devices to act as relays for battery-powered nodes.

High Data Rate mode: A new modulation scheme for faster PLC communication in clean environments (e.g., in-premises power networks), extending G3's applicability beyond the low-voltage grid used for communication in smart grid applications.

Technical refinements: Enhancements include improved handling of RF background noise, default gateway behaviour, and support for AES-256 encryption at the MAC layer.

This new specification will serve as the baseline for Certification Release V8, scheduled for launch ahead of Enlit Europe 2025. The release will include a new certification profile tailored to battery-powered devices and their unique performance requirements.

Once finalised, the specification and all included contributions will be made available to members via the G3-Alliance website. The formal ITU publication is expected in 2026.

New Whitepaper: G3-Hybrid for EV Load Management

G3-Alliance has published a new whitepaper titled "Grid-Level Load Management for EV Charging Stations: Leveraging G3-Hybrid Communication."

As EV adoption accelerates, Distribution System Operators (DSOs) are facing growing challenges related to grid congestion and energy distribution. This whitepaper explores how G3-Hybrid technology provides a reliable, scalable, and cost-efficient communication backbone for managing EV charging demand, both in public and private infrastructure.

The paper presents real-world use cases, compares G3-Hybrid with other technologies like 5G and LoRa, and highlights field deployments across Switzerland, Austria, and Sweden.

[Click here to download the full whitepaper.](#)



New Members

We're pleased to welcome **three new Distribution System Operators (DSOs)** who joined the G3-Alliance in 2025:

- **Electricity Authority of Cyprus (EAC)** – Rolling out 400,000 smart meters across Cyprus
- **Netz Oberösterreich (Austria)** – Operating nearly 700,000 metering points
- **Vorarlberger Energienetze GmbH (Austria)** – Supplying electricity to over 200,000 households

With nearly 100 DSOs and industry players from over 30 countries, the G3-Alliance continues to grow as a truly international platform for collaboration and innovation.

You can find the complete overview of our members [here](#).



Event Highlights

G3-Alliance was actively present at major energy events in the first half of 2025:

- **Distributech 2025 (Dallas, USA, March)**: Together with our members, we proudly hosted a booth at Distributech alongside ST, Sagemcom, and Wasion, highlighting G3's growing presence in the North American market.
- **Enlit Africa (Cape Town, May)**: We were pleased to showcase G3-PLC and G3-Hybrid technologies and engage with African utilities and regulators. Contributions included:
 - An insightful presentation by Eskom on *"Defining Interoperability Requirements for G3-PLC in Utility Specifications"*
 - A powerful case study by Hany Karawia and Globaltronics on Egypt's G3-PLC smart meter roll-out

[Click here for the presentations.](#)

Coming up:

- **Enlit Asia (Bangkok, Sept 9–11)**
- **IEEE SmartGridComm (Toronto, Sept 29 – Oct 2)**
- **FISE South America (Medellin, Nov 11–13)**
- **Enlit Europe (Bilbao, Nov 18–20)**



G3 News



G3-Hybrid Enhances Connectivity in Pakistan!

In Islamabad, Kaifa successfully deployed over 1 million smart G3-PLC meters for IESCO, with 13,400 G3 DCUs. By installing G3-Hybrid the performance showed dramatic improvements: in field tests, daily data collection rates rose



Hexing Showcases 98%+ Performance Across Continents!

Hexing Technologies highlighted G3-PLC rollouts in Bulgaria and Ghana, achieving 98–99% data success rates. In Ghana, over 100,000 pre-paid meters are now live with G3-PLC, demonstrating the technology's scalability and resilience even in complex environments

[Click here for the related presentation slides.](#)



Globaltronics Powers Egypt's Smart Meter Rollout!

Globaltronics shared deployment insights from the AMI pilots done in Egypt. Emphasizing the importance of interoperability, robust communication, and vendor collaboration. Globaltronics addressed the challenges and lessons learned from

from 87% or even just 37% to 100% after switching to hybrid modules, validating the strength of G3-Hybrid in overcoming challenging PLC conditions.

[Click here for the related presentation slides.](#)

the deployment of 65 thousand G3-PLC smart meters in Egypt.

[Click here for the related presentation slides.](#)

G3-Alliance

www.g3-alliance.com

generalsecretary@g3-alliance.com

4 Place de la Pyramide, TSA 25001 – 92030
Paris La Défense Cedex in France

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