



Dear G3-Alliance members and supporters,

As 2024 draws to a close, we at the G3-Alliance send you our warmest holiday greetings and best wishes for the year ahead. This year has been a momentous one for the Alliance as we proudly celebrated **10 years of G3 certification**—a milestone that reflects the growing impact of G3 technologies worldwide. To date, over **600 G3 certificates** have been issued across more than **25 countries**, including certifications for **264 platforms, 276 meters, and 69 DCUs** from 76 manufacturers.

We were also delighted to cap off the year with our General Assembly Meeting during Enlit Europe in Milan. The event featured engaging presentations from members and culminated in a lively and well-attended dinner—a wonderful reflection of the collaboration and camaraderie within our community.



Thank you to all our members and supporters for your invaluable contributions to the success of G3 technologies. We look forward to another outstanding year for the G3-Alliance in 2025!

Marc Delandre, Chairman

Leon Vergeer, General Secretary

New Version of the G3 Specification and Certification

The Technical Working Group has had a productive year, meeting most recently on December 3rd and 4th at Trialog's office in Paris. Significant progress was made toward the next release of the internal G3 specifications, which will serve as the reference for the next version of the certification program. The specification is on track to be finalized by April 2025, with Certification Release V8 planned for October 2025.

The upcoming certification release will include several new features, such as:

- **Support for battery-powered devices:** Enabling water and gas meters ('Battery Leaf Nodes') to integrate seamlessly.
- **Improved security:** Introducing AES-256-CCM encryption at the MAC layer, inspired by the IEEE 802.15.4y-2021 amendment. This upgrade offers post-quantum resilience to Grover's algorithm (if quantum computers capable of cryptography-relevant calculations emerge) while strengthening security compared to AES-128.
- **Turbo Mode:** A new PLC modulation that extends data rates for non-metering applications.

In addition to these highlights, several other corrections and enhancements approved by the Technical Working Group will ensure the G3-Alliance continues to set the standard for innovation in G3 technologies. Stay tuned for more updates as we continue to expand the capabilities of G3 technology!

Successful plugfests for battery-powered devices and FCC subbanding

G3-Alliance continues to drive innovation! In 2023, we introduced an extension to the G3 specification to support battery-powered devices, such as water and gas meters. Building on this milestone, the Interoperability Working Group has been hard at work developing tests to ensure seamless interoperability across various implementations of the MAC and 6LoWPAN layers in G3-Hybrid devices with parenting support and battery-powered devices.

After months of collaboration, including test vector exchanges, the group organized a successful plugfest in October : this event demonstrated the interoperability of the first implementations for this new feature, marking a significant step forward in advancing G3 technology. A similar process is also ongoing for the FCC subbanding feature, which will allow more versatile and efficient use of PLC communications within the FCC band in case of frequency-selective channels or when high attenuation is experienced.

New Members



**Distribuție Energie
Electrică Romania**



We are happy to announce 7 new members to our Alliance in the second half of 2024. G3-Alliance is now supported by an international group of nearly 100 DSO's and industrial players from 30 countries worldwide!

Event Highlights

This year, Enlit Europe took place from 22 until 24 October 2024 **in Milan, Italy**. The G3-Alliance booth featured many G3 applications and offered many networking opportunities. This year, we also celebrated our 10th anniversary of certification. Watch the video below about G3-Alliance at Enlit Europe!



G3-Alliance at Enlit Europe!

Looking ahead, the Alliance currently plans its presence at relevant fairs and conferences for 2025. The next big event is Distributech, which takes place in Texas, USA from 24 – 27 March 2025.

Further information will be provided in the coming weeks.

For our recent posts and other updates, please check our LinkedIn page:

<https://www.linkedin.com/company/g3-alliance>

G3 News



Cyprus' Energy Transition with G3

We're proud to see G3-PLC technology at the heart of Cyprus' national smart meter rollout, enabling seamless communication and efficient energy management. 400,000 smart meters are to be



G3 is transforming Africa's energy landscape!

In his interview, Shawn Papi from Eskom shares how G3-PLC technology is driving cost-efficiency, reliability, and interoperability across the continent. A must-read for anyone



Large tender for G3-PLC smart meters in Croatia!

Hrvatska Elektroprivreda (HEP) has launched a €86.5M tender for G3-PLC smart meters in Croatia! This project, co-funded by the EU's National Recovery and

deployed in 3 years covering homes and businesses across the country. This milestone marks a significant step in modernizing the country's electricity distribution network and building a more sustainable energy future.

<https://www.landisgyr.eu/news/...>

invested in Africa's energy future.

<https://smarttalkswithjovan.co...>

Resilience Plan, aims to upgrade nearly 2.5 million metering points by 2029, following the successful deployment of 700,000 interoperable G3-PLC smart meters from multiple vendors.

<https://www.smart-energy.com/i...>



G3-Alliance wishes all members a Merry Christmas and a Happy New Year!

G3-Alliance

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