

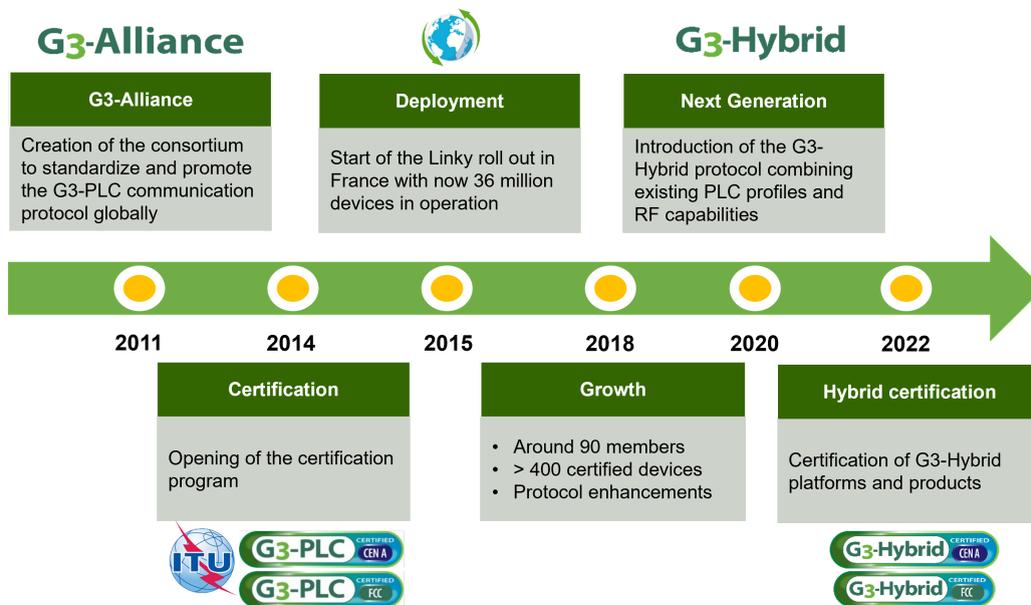
## G3-Alliance

# G3-Alliance Infoletter Q2 2023

Dear G3-Alliance Members and supporters,

Welcome to the second edition of the G3-Alliance Infoletter for 2023! This newsletter aims to keep you informed about the latest developments, achievements, and initiatives within our esteemed alliance. Our goal is to foster collaboration and knowledge sharing among members, driving innovation and progress in the industry.

Since its inception in 2011, the G3-Alliance has achieved significant milestones, reaching nearly 100 members and over 80 million devices deployed in the field. With increasing implementations, growing certification, and expanding applications, the G3-Alliance is poised for a strong future



We are excited to announce that the battery-powered leaf node specification is scheduled for internal publication at the beginning of July. This extension of the G3 technology will support communication with battery-powered devices and, for example, enable multi-utility metering over one single network. To commemorate this milestone, we will organise an information session to share the latest developments in G3-Hybrid, introduce G3 battery-powered leaf nodes, and present a standard methodology how you can make point-to-point connections to a specific node in the G3 network when needed. Manufacturers of gas and water meters, as well as our members, are invited to join either in-person at Enedis lab in Paris, or participate online.

In this edition, we will highlight key activities and milestones from the last quarter. The G3-Alliance has experienced remarkable growth and progress, and we are thrilled to share these updates with you.

Thank you for your continued support and participation in the G3-Alliance. Together, we will drive innovation and shape the future of our industry.

# EU Regulation using Notified Body for G3-Hybrid products

In the EU a G3-Hybrid PLC+RF product is classified as radio equipment and is regulated under the framework of the Radio Equipment Directive 2014/53/EU. Therefore, manufacturers and suppliers of these products in the EU market must prove compliance with this directive.

Compliance is typically proven by testing against harmonized standards like EN 300 220 or EN 303 204. However, for specific use cases a harmonized standard may not exist, so compliance needs to be confirmed by a Notified Body.

To support our members in this process, the Regulatory Advisory Group of G3-Alliance has prepared a presentation, which can be downloaded using the link provided below. It outlines the role of the Notified Body, the technical documentation to be submitted as well as Procedures and Methods for assessment by the Notified Body. G3-Alliance members can download the presentation from our website (please log in to [g3-plc.com](https://g3-plc.com) before opening the link): <https://g3-plc.com/download/91...>

## Upcoming Certification Release

We are excited to announce an upcoming certification release from the G3-Alliance that incorporates the latest advancements in the G3 standard. In March 2022, the G3-Alliance published a new, internal specification known as "Narrowband OFDM specifications for G3-PLC networks March 2022" (Final version). This specification is accessible to members of the alliance upon logging in to our official website at <https://g3-plc.com/g3-plc/specifications-user-guidelines/>. Furthermore, we are pleased to share that this specification will soon be published by the International Telecommunication Union (ITU) and will be made available to the wider public on the ITU website.

This revised specification encompasses several notable enhancements, including:

- Frequency hopping
- Last gasp
- RF/PLC media switching improvements
- Introduction of new RF bands, such as 915 and 920 MHz.

The upcoming release of the G3-Alliance certification will reference this latest version of the specification. Our team has worked hard to develop the necessary certification test tools, and we are currently engaged in the process of validating these tools within our certification laboratories. While we are aiming to issue this new certification release at the beginning of July, the exact timing will depend on lab availability and any potential validation challenges that may arise.

As soon as this new certification release is issued, all members of the G3-Alliance will be notified. We understand the importance of staying up-to-date with the latest advancements in the industry, and we are committed to ensuring that our members have access to the most current resources and information.

We look forward to sharing this new certification release with you and continuing our collaborative journey in driving excellence and innovation within the G3-Alliance.

Stay tuned for further updates!

## User Guidelines

To support adopters in integrating the G3-PLC protocol stack effectively, a set of user guidelines has been developed. We just published a new version of the guideline 'Introduction to the Hybrid PLC and RF Profile' which is also accessible for non-members through the following link: [Click here for the guideline](#)

## New Member Introductions

We are excited to welcome three new members to the G3-Alliance family: Corinex, Ningbo Siwave Microelectronics, and Plexigrid. These new additions bring valuable expertise and perspectives to our alliance.



Plexigrid ([www.plexigrid.com](http://www.plexigrid.com)) specializes in making electricity grids fit for the energy transition, providing advanced monitoring, computation, and flexibility solutions.

Corinex ([www.corinex.com](http://www.corinex.com)) is a technology company that specializes in powerline communication (PLC) solutions. Their expertise can enhance the efficiency, reliability, and security of G3 communication networks.

Ningbo Siwave Microelectronics ([www.siwave.com.cn](http://www.siwave.com.cn)) focuses on high-performance AIOT chips and system solutions for smart IoT applications, contributing to the promotion and development of G3 products worldwide.

We are thrilled to have these new members on board, driving innovation and collaboration in the G3-Alliance.

Welcome to our alliance!

## Event Highlights

This year, the G3-Alliance made its presence at various events, strengthening its global reach. Here are some of the highlights:

1. DistribuTECH (7-9 February): G3-Alliance participated for the first time, generating productive discussions and increasing G3-Hybrid awareness in North America. Ongoing discussions about marketing strategies in the region and plans to raise awareness through articles and webinars were also made.
2. India Smart Utility Week (1-4 March): Exciting news as G3-Hybrid technology is set to be deployed in India's distribution network. The growing market for G3-Hybrid in India and a strong connection with the India Smart Grid Forum were key focus points.
3. IEEE ISPLC 2023 Conference in Manchester (21-23 March): G3-Alliance proudly served as the Platinum Sponsor. The conference highlighted PLC

technologies in the smart grid, including machine learning and hybrid approaches. Collaborations with universities ensure continuous technological advancements.

4. MASS Integrated Independent PLC-RF Communication Protocol and Product Development Project Workshop in Diyarbakir, Turkey (9-11 May): G3-Alliance participated in this workshop with a keynote speech, further expanding its presence in Turkey.
5. Enlit Africa in Cape Town (16-18 May): Stewart Gebbie, Semitech's EMEA Sales Director, presented "G3-PLC: A Powerful Communication Backbone for the Smart Grid." This talk delved into the future of smart grid technology, featuring G3-PLC and G3-Hybrid.



Looking ahead, mark your calendars for these upcoming events:

- Enlit Asia in Jakarta (14-16 November 2023)
- Enlit Europe in Paris (28-30 November 2023)
- Sendi 2023 in Vitoria (7-10 November 2023)

November promises to be a month filled with exciting opportunities for the G3-Alliance.

Stay tuned for more updates and join us at these upcoming events!

## Application News



Congratulations to Sadales tīkls AS in Latvia for completing the smart meter rollout to 1.1 million metering points! With nearly 790,000 customers now equipped with smart meters, Sadales tīkls has transformed the energy landscape, leaving only a tiny fraction untouched.

Let's applaud Sadales tīkls for their dedication, resulting in estimated annual savings of €40 million (\$43 million)!

Check out the article to learn more: [Click here](#)

We are delighted to announce that Gridspertise, in collaboration with Tata Power, will be commencing a smart meter pilot project in India utilizing G3-Hybrid technology.



Key details about this exciting development include:

- Gridspertise has signed a Memorandum of Understanding (MoU) with Tata Power.
- Tata Power Delhi Distribution Ltd. (TPDDL), which serves 1.9 million customers in North Delhi, will be involved in the project.
- The primary objective is to deploy smart metering and automation technologies within India's distribution network.
- G3-Hybrid technology will be utilized for the smart meter pilot project.

For further information on this significant milestone, please refer to the following link: [Click here](#)



Poland's Stoen Operator is set to launch a massive phase 2 rollout of 400,000 smart meters, leveraging the power of G3-PLC technology. This initiative by Stoen Operator aims to enhance efficiency and improve customer experience in Poland's energy transition.

Read more about this development and the company's plans in the following link: [Click here](#)



Energie Netze Steiermark is rolling out G3-PLC technology to enable more efficient management of their smart meters. With approximately 420,000 PLC smart meters, of which 275,000 are already installed, this deployment allows for the collection of energy consumption data at daily and 15-minute intervals, providing accurate and up-to-date insights into energy usage. This March 2023, the current status of the deployment was presented at ISPLC, and the slides are now available on the G3-Alliance website:

<https://g3-plc.com/videos/presentations/>



The G3-Alliance is driving innovation in the energy sector, and the latest breakthrough is GridFlex Control. Developed by our member Landis+Gyr in collaboration with AEW Energie AG, GridFlex Control is a smart metering and load management solution powered by G3-PLC technology. This revolutionary solution provides unparalleled flexibility to local energy distribution companies. To learn more about GridFlex Control, please visit the following link: [Click here for the article](#)

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**G3-Alliance**

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