



## G3-PLC Alliance Infoletter December 2022



Dear G3-PLC Alliance members and supporters,

As 2022 comes to an end, from everyone at G3-PLC Alliance, we wish you the best for the holiday season and the upcoming year!

This past year, our Alliance further expanded in members as it welcomed seven new members: three from China, two from Colombia, one from Tunisia and one from Italy. The G3 technology is constantly evolving to address challenges and find new applications such as connected (street) lighting, building & industrial automation and smart solar connectivity. The latest generation standard, the G3-Hybrid, is the first industry hybrid standard offering extended capabilities in one seamlessly managed network over both wired and wireless media, PLC and RF. The revolutionary hybrid profile provides an efficient and cost-effective solution for many applications and attracts a lot of attention

In 2022, we participated in 7 major international events to provide a networking platform for our members and to promote our technology to potential customers. One of the highlights of these events was Enlit Europe, which took place in Frankfurt, Germany. During this event, we also organized the last General Assembly Meeting of 2022 followed by a well-attended and lively dinner.



Our next General Assembly meeting will be online on Thursday March 30<sup>th</sup> from 1-3 pm CET.

We hope you enjoy reading the latest developments below and look forward to another great year together!

Marc Delandre, Chairman

Leon Vergeer, General Secretary

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## Whitepaper RF Regulation Published

G3-Hybrid is a fully-fledged RF as well as PLC mesh communication protocol. It combines PLC and RF in a single solution, maximising the coverage and connectivity of the network while reducing the cost and complexity of the installation.

With the latest release of the specification published this year, the G3-Hybrid now is a truly global solution. With the introduced mechanisms such as frequency hopping, adaptive power control (APC) and duty-cycle handling, the hybrid complies with regulatory requirements in any part of the world!

Our regulatory working group did a great job analysing the sometimes-complex RF regulations in many regions. Members can download their whitepaper 'RF Regional Regulations' on our website: <https://g3-plc.com/g3-plc/hybrid-plc-rf-2/>. The webinar presentation and recording on this topic are available for anyone on <https://g3-plc.com/videos/>

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## New members

We are happy to announce 7 new members to our Alliance in 2022. G3-PLC is

now supported by an international group of nearly 100 DSO's and industrial players from 30 countries worldwide!

Comcore

Friendcom



Grupo  
Unión

gridspertise

HUAHONG



## Event Highlights

This year, Enlit Europe took place from November 29<sup>th</sup> till December 1<sup>st</sup> in Frankfurt, Germany. The G3-PLC Alliance booth featured many G3-PLC applications and offered many networking opportunities.

Watch the video below about G3-PLC Alliance at Enlit Europe!



Looking ahead, the Alliance currently plans its presence at relevant fairs and conferences for 2023. The next big event is Distributech, which takes place in San Diego, USA from 7 - 9 February 2023.

Further information will be provided in the coming weeks.

The first General Assembly meeting for 2023 is planned online on Thursday March 30<sup>th</sup> from 1-3 pm CET.

For our recent posts and other updates, please check our LinkedIn page: <https://www.linkedin.com/compa...>



## Application News



Currently, the G3-PLC Alliance has over 80 million G3-PLC products in operation in more than 30 countries worldwide for many application scenarios, which include:

- Smart Metering
- Street Lighting
- Railway Applications
- Building & Industrial Automation
- Grid Control/Monitoring
- E-Mobility & Renewables
- many other implementations.

In this infoletter, we would like to highlight three growing applications with great potentials.



**Street Lighting:** Vattenfall, a major European energy company, deployed a unique connected lighting system for municipalities based on G3-PLC powerline communication. Vattenfall Dynamic Grid Control is a unique technology used by Vattenfall for connected lighting. Control systems are installed in each lighting pole and each pole is assigned a distinctive IP address. Communication with each pole uses G3-PLC technology. The

lighting can be controlled at both group and individual level and light intensity can be managed on individual lighting poles. Optimised lighting schedules can be set for different types of areas such as city centres, industrial areas, and parks.

The Dynamic Grid Control system from Vattenfall is now operational in four municipalities in Sweden. The largest installation covers more than 1300 connected poles and is still growing.

Read more: <https://g3-plc.com/smart-cities-street-lighting/>

During the Smart City Expo World Congress 2022, the G3-PLC Alliance presented this unique application in street lighting and initiated the discussion for many new pilot projects and deployments in different countries.



Another unique application of G3-PLC for smart solar applications has been developed and presented by ST Microelectronics during Enlit Europe 2022.

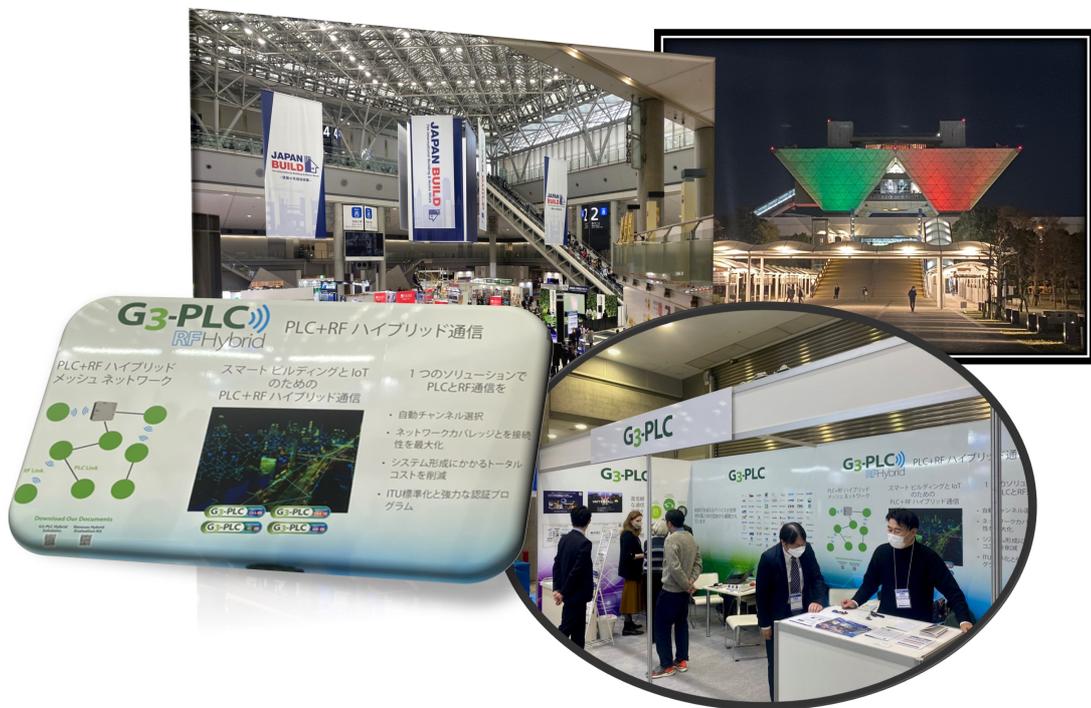
A G3-Hybrid PLC+RF network connects the energy management system and the battery energy storage system with inverters. The technology provides high-availability and a high-performance networking for large-scale installations by reducing the construction and maintenance costs.

Link to the presentation of ST Micro: <https://g3-plc.com/videos/presentations/>

## Japan Build Expo:

This month G3-PLC Alliance participated in Japan Build Expo in Tokyo. JAPAN BUILD is a leading show in Asia covering building and housing industries. It consists of 7 shows including Smart Building expo. The primary reason for participating was to promote the G3-Hybrid solution which is included in the latest specification for the ARIB PLC bandplan as well.

The event was successful with over 30k visitors over 3 days and we had many interesting discussions with potential users of the hybrid technology for example in building automation and building energy management systems.



## New release for certification in Q1 2023

The new release for certification is expected to be ready for certification in our test labs in March next year. This certification will cover the latest G3 specification published in 2022. This certification version includes among others support for additional RF frequencies in 915-920 MHz, new mechanisms for G3-Hybrid (Frequency Hopping, Adaptive Power Control, Duty-cycle handling, Last gasp), addition of RF Performance testing and general improvements in test coverage.

You can find more information in the presentation made during the General Assembly meeting (<https://g3-plc.com/videos/presentations/> on the bottom of the page for members). We will share more information beginning of next year.

# Follow G3-PLC Alliance on Social Media

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## G3-PLC Alliance

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