

## **G3-PLC Alliance Infoletter No. 02/2020**



Dear G3-PLC Alliance members,

We hope everyone is well and staying safe in these difficult times. Thanks to the help and support of our members, the G3-PLC Alliance continues to maintain a strong presence within the industry and has made significant progress in the second quarter of this year.

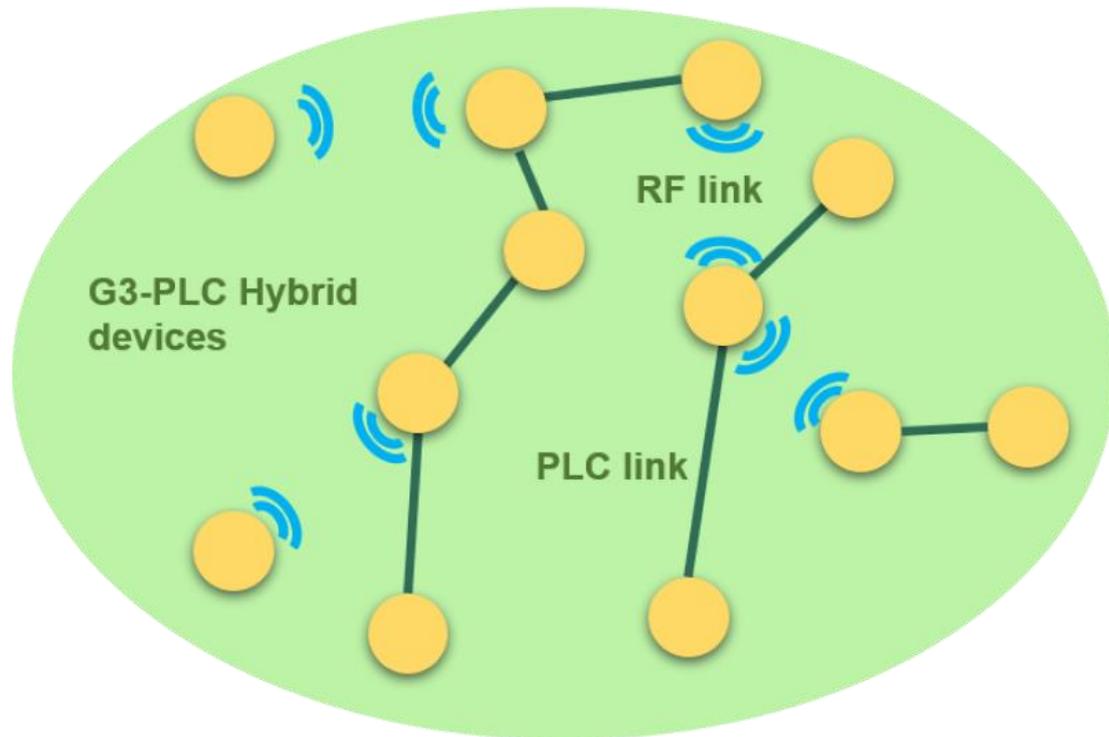
We realised a major milestone in developing the first hybrid PLC&RF standard with the help of many of our members. In March we were sponsor and exhibitor at India Smart Utility Week. India has an ambitious smart meter program and with the hybrid PLC&RF technology we are even better positioned for AMI programs in India and elsewhere.

Unfortunately, Africa Utility Week was postponed due to COVID-19 but we discussed with many African utilities about G3-PLC in a technical webinar we organised.

Our General Assembly in June had to be done online of course but was attended by many members. The presentations about the hybrid technology and the mass roll-out of G3-PLC smart meters in Latvia were well appreciated and are available on the website.

Read all about this and other developments below!

## **G3-PLC Alliance marks Major Milestone in developing the first Hybrid PLC & RF Communication Standard!**



The G3-PLC Hybrid is the first industry hybrid standard offering extended capabilities for smart grid and IoT applications in one seamlessly managed network over both wired and wireless media. We are pleased to announce the successful G3-PLC Hybrid plugfest event which has demonstrated interoperability among multiple G3-PLC Hybrid solution providers. Operated by Trialog in Paris, this remarkable achievement exhibited the correct implementation of the G3-PLC Hybrid standard and accomplished seamless communication among the chipsets from 5 leading international manufacturers (Microchip, Renesas, STMicroelectronics, Semitech Semiconductor, VertexCom Technologies).

Customers want the best of both worlds— so creating a single industry standard for hybrid networking is a significant step forward. The hybrid protocol stack is built using open standards IEEE 802.15.4-2015 in addition to the existing G3-PLC protocol. Each device in the mesh network can use PLC as well as RF for the communication. Depending on the actual conditions in the field, messages between two devices are sent over the 'best' available channel. The channel selection for each link in the network is done automatically and adjusted dynamically. In many grids, none of the communication technologies can consistently realise connectivity >99% on their own. The hybrid solution maximises coverage & connectivity and avoids the very high cost of realizing the remaining 1%

connectivity. This way, the hybrid profile can provide a more efficient and cost-effective solution for smart grids, smart cities and industrial applications.

The hybrid also opens up new use cases as it extends the connectivity of G3-PLC to RF-only devices. For example communication with In-Home Displays, keypads for prepaid solutions, environmental monitors, lighting controllers, industrial sensors and communication with water & gas meters.

Further information, including a presentation and first field experiences, can be found on our website:

<http://www.g3-plc.com/what-is-g3-plc/g3-plc-hybrid-plcrf/>

For members of the G3-PLC Alliance, the latest version of the G3-PLC hybrid PLC&RF specification is now available on the website:

<http://www.g3-plc.com/what-is-g3-plc/g3-plc-specifications/>

## Update Technical Working Group

The technical working group of G3-PLC Alliance had an intensive year so far. Apart from developing the first industry hybrid standard, one of the topics they have been working on is the development of user guidelines. These guidelines will help adopters to properly integrate the G3-PLC protocol stack in their products and systems. Several user guidelines have been finalized and are ready for publication on the [G3-PLC website](#). These include user guidelines for IPv6 route establishment, attribute usage and upper layer integration as well as an interesting introduction to the G3-PLC protocol. Other guidelines will follow later this year!

## Thank you Eric and Welcome Martial



After having served for no less than 5 years as treasurer of the Alliance, Eric de Benedictis requested to hand over his duties. We thank Eric for his contributions and welcome Martial Monfort from Enedis as the new Treasurer as per June 3rd 2020 for the next 2 years. Martial is Chief Technical Officer of the ENEDIS smart metering program LINKY where he is specially focused on the strategic relationship with industrial partners. He has been involved in G3-PLC development and field experiments for more than 10 years

## New members

Membership numbers continue to grow and we are happy to announce two new members as well as a membership upgrade.



**Allion Labs, Inc.:** Founded in 1991, Allion Labs, Inc. is an international engineering company that provides customized product testing, validation and consulting services for IT, automotive, entertainment, and interoperability with the whole AIoT ecosystem. Headquartered in Taipei, Taiwan, Allion has world-wide branches in the US, Europe, Japan, China, and Korea, with the mission to bring customers and partners localized and timely testing and validation services around the world.



**ELTEK BROJILA:** ELTEK BROJILA is a start-up company aimed at developing next generation smart electricity meters. With a long-term strategy to provide full stack of next generation systems: from electricity meters and concentrators to head-end systems, the company has developed prototype of single- and poly-phase meter.

Following the link below you find a current membership overview. Please note that this is for internal use only.

[G3-PLC Alliance members overview](#)

## Events in 2020



At the beginning of March, we were a silver partner and exhibitor at India Smart Utility Week. India is embarking on a very large smart meter program and G3-PLC is an ideal technology for advanced meter infrastructure (AMI) systems in India.

It was unavoidable that the spread of coronavirus has affected the staging of many events. Originally scheduled from 31 March to 3 April 2020 in Málaga (Spain), the international Symposium on Powerline Communication (ISPLC) 2020 was organized “virtual”, using online conferencing tools, without any physical participation of attendees. The G3-PLC Keynote speech on Hybrid PLC/RF Solution from Cédric Lavenu successfully took place in an interactive session.

Enlit Asia, originally scheduled to take place on 22-24 September 2020, will now be held at ICE, BSD City, Jakarta, Indonesia on 23-25 March 2021.

Clarion Events Africa, which was due to take place from 12-14 May, will now run from 24 - 26 November 2020. The venue - CTICC in Cape Town, South Africa – remains unchanged.

Enlit Europe, originally scheduled to take place on 27-29 October 2020, is now rescheduled to 30 November through to 2 December 2021 at the Fiera Milano di Rho, in Milan, Italy.

## Next General Assembly

The next General Assembly will be held online on October 27<sup>th</sup> from 10-12 am CET. Further information will follow after summer. If there is a project you want to share with the members or another interesting development, please let us know!

## Member News

- **G3-PLC is selected as PLC technology in Romania:** [ELECTRICA](#), the major player in the Romanian energy market, with three companies acting as Distribution Services Operator (SDEE Transilvania Nord, SDEE Transilvania Sud and SDEE Muntenia Nord) has chosen for G3-PLC as the PLC communication technology for their smart meter roll-out. They plan to launch a tender to purchase 500,000 smart meters in September 2020. Those meters will cover the needs for the next three years; there are more than 800,000 other meters to be purchased until the end of 2028, with a solid perspective to increase this number up to 3 million meters. ELECTRICA just published a market survey as a first step in their tender process and G3-PLC members are encouraged by ELECTRICA to participate: [Click here for the market survey](#)
- ADD Grup field experience with large G3-PLC Hybrid deployment in a harsh grid in Russia, [read more here](#).
- Iskraemeco has successfully entered the “Go Live” stage with Egyptian Canal Distribution Company, [read more here](#).
- Big success for Iskraemeco who won a major project in Slovenia with G3-PLC communication, [read more here](#).
- Cedric Chauvenet from Enedis made a presentation at the Elaad event on June 10-11 about the impact of EV charging on G3-PLC communication. Positive results again for G3-PLC! [Click here for the presentation](#).
- G3-PLC organised a webinar on May 12th for African DSO's about the G3-PLC communication. With participants from 8 African countries, the webinar addressed key considerations that African utilities need to take for their smart grid rollout: Performance, Enhanced Grid Operations and hybrid G3-PLC/RF. [Click here for the webinar](#).
- KNX Protocol over G3-PLC by Renesas, [read more here](#).
- Tunisia: SIAME, first African and Arab company to be G3-PLC certified, [read more here](#).

## Follow G3-PLC Alliance on Social Media

Support the Alliance on Social Media! The Alliance has accounts on Twitter and LinkedIn. Feel free to follow, like and share. The more interactions we get on Social Media, the better the coverage we gain.



Best regards

**Leon Vergeer**

G3-PLC Alliance General Secretary

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### G3-PLC Alliance

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