



G3-PLC Alliance Infoletter Q1 2021

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 beginning of this year.

We have welcomed two new members, recently launched the certification programme for the first hybrid PLC&RF standard and again expanded the geographical coverage of G3-PLC.

As the current Chairman and General Secretary were elected in January 2019, both positions were open for election during the Steering Committee meeting held in January 2021. Marc Delandre has been re-elected as the Chairman of the G3-PLC Alliance. Leon Vergeer was re-elected General Secretary of the alliance.

The next General Assembly will be online in June and the exact date will follow later. We hope to welcome you personally during our second G3-PLC General Assembly Meeting at the end of this year!

Read all developments below!

G3-PLC Alliance launches the Certification Programme for first Hybrid PLC & RF Communication Standard!





The G3-PLC Alliance is pleased to announce the launch of its certification programme for the hybrid profile. With this remarkable achievement, the first hybrid platforms and products are now under certification.

The interoperability of the G3-PLC Hybrid standard has already been demonstrated in 2020 among the chipsets from 5 leading international manufacturers: Microchip, Renesas, STMicroelectronics, Semitech Semiconductor and VertexCom Technologies. The hybrid specification has also been published. Today, the hybrid profile is a new feature of our certification programme.

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. This way, the hybrid profile provides an efficient and cost-effective solution for many applications and opens up new use cases as it extends the connectivity of G3-PLC to RF-only devices. The G3-PLC Hybrid profile is fully compatible and interoperable with existing G3-PLC implementations, so it is possible to mix hybrid and non-hybrid nodes.

"A proven and global certification programme allows for the sourcing of interoperable products from multiple suppliers and is a key requirement for any smart grid and IoT application. High-quality certificates will give both manufacturers and customers assurance that their devices have the correct implementation of the G3-PLC standard, that they are interoperable with other certified devices and meet the specified performance levels. Therefore we have spent a lot of time with our members, in close cooperation with our test laboratories LANPARK (France) and TÜV (Japan) to develop and implement tests for the hybrid PLC & RF profile and we are very glad we have now included this in our existing certification programme." said Leon Vergeer - G3-PLC Alliance General Secretary.

Further information about the hybrid solution

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

For members of the G3-PLC Alliance, the information on the certification programme is available on the following website after logging in:

<https://www.g3-plc.com/g3-plc-certification/g3-plc-certification-program/>

Update Technical Working Group

As you may know, last year the G3-PLC Alliance has published several user guidelines to help adopters properly integrate the G3-PLC protocol stack in products and systems. The Alliance recently published an updated version of the user guideline "Upper layer integration with G3-PLC" with Version 2.1, 03/2021. This document provides guidelines making recommendations on the following aspects of the G3-PLC protocol stack integrated in a complete application profile:

- Managing a G3-PLC network for a PAN-Coordinator,
- Joining procedure for a PAN-Device,
- Route discovery and maintenance,
- Network access patterns,
- Upper layer protocols,
- Remote access to network parameters on devices.

All published guideline documents can be found under the following link.

<https://www.g3-plc.com/what-is-g3-plc/user-guidelines/>.

Most guidelines are accessible only for members of the G3-PLC Alliance. So you may need to login to have access and in case have a login yet, please contact alexandra.burke@g3-plc.com.

New members

Membership numbers continue to grow and we are happy to announce two new members accepted by the steering committee in January 2021.



New Alliance member from Egypt: **El Sewedy Electrometer Group (EMG)** has recently joined G3-PLC Alliance. El Sewedy Electrometer Group provides state of the art Metering solutions and Energy Management Services to its customers in 58 countries around the world.

Company website:

<http://www.elsewedymg.com/>

The G3-PLC Alliance extends a warm welcome to El Sewedy Electrometer Group. We look forward to working with the firm in the near future.



New Alliance member from Austria: **IES Ziviltechniker GmbH** has recently joined the G3-PLC Alliance. As a science and industrial services provider, the company is continuously performing PLC-measurements on behalf of a lot of electricity network utilities.

Company website:
<https://www.ies-zt.at/>

The G3-PLC Alliance extends a warm welcome to IES Ziviltechniker GmbH. We look forward to working with them in the near future.

An overview of all members and contacts (after logging in) can be found on our website. [Click here for all members.](#)

Event Highlights



PLEASE SAVE THE DATE! ISPLC 2021 October 26th to October 27th. The 25th IEEE International Symposium on Power Line Communications and its Applications (ISPLC2021) is dedicated to scientific and technical advances in the field of communications over power lines. This conference will be held on 26–27 October 2021 at Eurogress in Aachen, Germany, co-located with IEEE SmartGridComm 2021.

Acceptance of submissions will be based on quality, relevance, and originality, with awards for the best submissions. Accepted papers will be published in the IEEE ISPLC 2021 proceedings and in IEEEExplore. The conference will further include a series of keynote and plenary talks, as well as an industry forum and special sessions on hot topics for utilities, system integrators and chip manufacturers.

Please check the website for full details of submission procedures and requirements.

<https://isplc2021.ieee-isplc.org/>



India Smart Utility Week ISUWW2021 is an International Conference and Exhibition on Smart Energy and Mobility for Smarter Cities took place on Digital Platform from 2nd to 5th March 2021. Our keynote speaker was Nabil Sahri, Vice President Of Business Development at SAGEMCOM.



South America Forecast to Invest more than US\$18 Billion in Smart Grid Infrastructure. How does the G3-PLC communication technology contribute to the smart grid in South America? Watch the recording of the webinar on February 5th 2021 for more information.

G3-PLC for Smart Metering in South America from February 5th 2021

Speakers: Martial Monfort - CTO ENEDIS smart metering program, Juan Camacho - Founder and director of Andrea Informatique, Leon Verger - General Secretary of the G3-PLC Alliance

<https://www.youtube.com/watch?v=4H8nWco5fvM>



Sustaining communication network quality is mission critical for smart grid applications. Following the well-appreciated webinar 'Setting-up and maintaining G3-PLC networks' in November last year, the G3-PLC Alliance organized the following webinar on Feb 03, 2021 in which 3 European Distribution System Operators: Enedis from France, EVN from Austria and ST from Latvia shared their experience on maintaining G3-PLC networks.

Webinar: Clean-up after roll-out of G3-PLC smart meters

February 3rd 2021

Speakers: Thibaut Mollier and Rémi Dubaele - ENEDIS, Wolfgang Lehner and Nicole Gugerel - EVN Austria, Vilis Volcenoks - ST Latvia, Leon Verger - General Secretary of the G3-PLC Alliance

[Click Here to Watch the Webinar](#)



Webinar: How does the Digital Transformation of the Energy Sector look like?

G3-PLC Alliance participated the webinar series of EnlitEurope on 4th of February 2021: "IoT, IIoT and AIoT, where is the future taking us?"



Please note our scheduled event roadmap for 2021.



- **11–13 May 2021: African Utility Week in Cape Town**
- **28–30 Sept. 2021: Asian Utility Week in Jakarta**
- **28–30 Sept. 2021 : Expo Ferroviaria in Milan**
- **26–27 Oct. 2021: IEEE ISPLC Conference / IEEE Smartgrid**
- **30 Nov.–2 Dec. 2021: Enlit Europe in Milan**

Member News

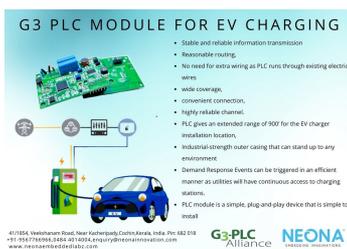


G3-PLC for the Smart Metering Rollout in Romania: It is a great pleasure to announce that Electrică Romania launched a tender for 500,000 smart G3-PLC meters with an estimated value of 36,5 MEUR!

Electrică, 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.

The tender is published in the Official Journal of EU.

<https://ted.europa.eu/udl?uri=TED:NOTICE:I05944-2021:TEXT:EN:HTML&src=0>



G3-PLC for EVs and Charging Infrastructure: Neona is one of the EV charger manufacturers that uses powerline communication, which provides a more stable communication than Wi-Fi, no matter where the unit is installed. It offers a reduced risk of connection interference when there are multiple Wi-Fi devices . G3-PLC gives an extended range of 900' for the EV charger installation location, whereas Wi-Fi only reaches 150' for an indoor installation and 300' for an outdoor installation. This communication provides a continuous connection to the charging station, allowing for remote monitoring and real-time technical support.

[Click here for more details](#)

<https://www.neonaembeddedlabz.com/nb-plcc.php>

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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France

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