



G3-PLC Alliance Infoletter September 2022

Dear G3-PLC Alliance members and supporters,

The G3-PLC Alliance further expands as it welcomes three new members: two from Colombia and one from China. Latin America is a huge potential market for the G3-PLC technology. Projections show the region accounts for over 85 million smart meter deployments by 2029. Countries like Colombia, Brazil, Mexico, Argentina, Chile, Ecuador and Peru are leading the charge and are well on their way to deploying millions of smart meters by that point. We very much welcome our new Colombian members to the Alliance and look forward to G3-PLC deployments in Latin America!

In June, we participated at Enlit Africa in Cape Town as a silver sponsor. The next event is Enlit Asia, which takes place in Bangkok from 20 - 22 September 2022. Join us at Enlit Asia in our booth, key note presentation or for drinks. Further information will be provided in the upcoming weeks on our website: www.g3-plc.com. All members are invited to drop their G3-PLC certified products at the booth so they can be showcased during the exhibition!



We are also delighted to share with you the milestone of reaching more than 1.000 followers on [LinkedIn](#). A big thanks to all our followers for helping us reach this milestone and also for contributing by sharing, liking and commenting on our posts. We love engaging with you all! Our [LinkedIn](#) page is an important tool which enables us to actively engage with our followers alongside our other digital channels. We look forward to welcoming new followers and continue to grow.

We hope you enjoy reading all other developments regarding G3-PLC below!

Marc Delandre, Chairman

Leon Vergeer, General Secretary

First RF Frequency Hopping plugfest successfully completed

In March this year, the latest G3-PLC specification was published which includes

RF Frequency Hopping functionality. We are happy to inform you that the first plugfest for Frequency Hopping was successfully completed in July with three international chip manufacturers: Renesas, Vertecom and Semitech Semiconductor. This plugfest was organised remotely by Dialog to validate the basic interoperability functionalities. A second plugfest for Frequency Hopping will be organised in September with the same manufacturers to validate enhanced interoperability functionalities so we are on track to release the next certification version at the beginning of 2023! In November, an additional plugfest will be organised for other chip manufacturers who are active member and want to participate.

Vattenfall presents a unique connected lighting system for municipalities



Vattenfall, a major European energy company, presented a unique connected lighting system for municipalities based on G3-PLC powerline communication. The largest installation covers more than 1300 connected poles and is still growing. Response times vary but can be as low as 0.1 seconds in small networks. Vattenfall offers very interesting business models to support municipalities and will further expand its solution in Sweden and beyond.

For more information visit: <https://g3-plc.com/vattenfall-presents-a-unique-connected-lighting-system-for-municipalities/>

A low-cost and low-power G3-PLC profile for point-to-point communications

P₂P-PLC

G3-PLC was originally developed for mass smart meter rollouts and designed to offer highly reliable, long-range communication over the existing powerlines. Over 80 million G3-PLC products have already been deployed in more than 30 countries around the world and this will get much more in the coming years.

G3-PLC is constantly evolving to address new applications and challenges, making it successful in different countries and environments. As testified by the high-performance levels obtained, G3-PLC meets the technical and reliability requirements for many applications, including for example environmental monitoring, heating, ventilation & air conditioning systems (HVAC) and solar panel monitoring systems.

For some of these applications, where the topology is very simple or where only limited numbers of devices are present in the network, a lightweight profile with a minimal memory footprint designed for point-to-point (i.e. not-routed) communications can be an advantage.

Therefore, the G3-PLC Alliance has introduced P2P-PLC (Point-to-Point PLC) certification to support G3-PLC technology usage in these specific applications. The P2P-PLC certification covers all the existing certification profiles (CENELEC A / CENELEC B / FCC / ARIB) but limits the protocol stack to the PHY and MAC layers only. The objective of P2P-PLC certification is to allow multi-sourcing of platforms by product manufacturers and is therefore only open to platforms.

For more information, please visit <https://g3-plc.com/g3-plc-p2p-certification/>. The P2P-PLC certification is now open for platform manufacturers and is included in the latest G3-PLC Test Procedures available on our website for members of the Alliance: <https://g3-plc.com/certification-program/>.

New members

Colombia is an important emerging market for G3-PLC technology, due to its size and high ambitious plans regarding smart meters. We are happy to announce two new members to our Alliance from Colombia! Unión Eléctrica S.A. and Gatria SAS joined the G3-PLC Alliance in June 2022. Next to that we also have a new member from China: Shenzhen Friendcom Technology Co., Ltd.



Unión Eléctrica S.A. has been developing communication devices compatible with IoT technologies for the last 10 years. The company also provides maintenance and administration services for AMI networks for utility operators. Triggered by the local market requirements in Colombia, Unión Eléctrica implements G3-PLC in their concentrators to communicate with the meters.

The G3-PLC Alliance extends a warm welcome to Unión Eléctrica. We look forward to working closely with them in the near future!

Company website:

<https://ams-union.com/>

Our second new member from Colombia is a meter manufacturer; Gatria SAS. The company is



extending its smart metering solutions with G3-PLC communication technology to be deployed in Latin America region.

The G3-PLC Alliance extends a warm welcome to GATRIA SAS. We look forward to working closely with them in the near future!

Company website:

<https://gatria.co/>



Friendcom focuses on smart grid, smart water, smart gas, smart fire protection, smart street lights, integrated energy management and other fields and is committed to promoting the development and construction of smart cities with IoT technology, making the internet of Everything easier. Friendcom was founded in 2022, is based in Shenzhen and today employs over 800 people.

Company website: www.friendcom.com

Event Highlights

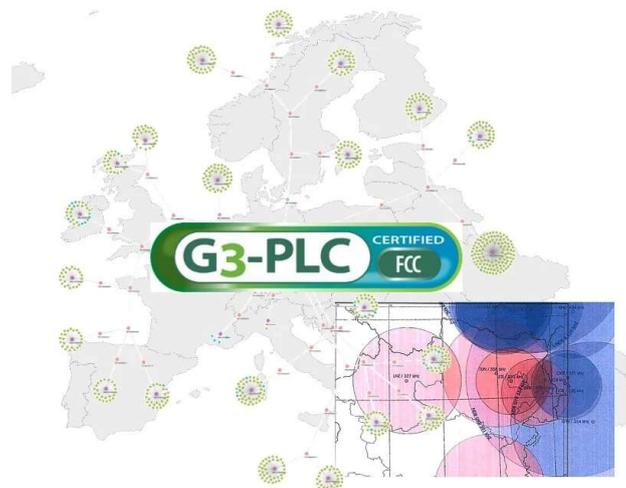


The Alliance organized a one-day live event in Paris on June 22nd for its members including a talk by Prof. Dr. Andrea Tonello from Klagenfurt University on the relation between the network topology and G3-PLC routing. The presentation is available on our website to [download](#) for our members. After you sign in as a member, the slides are available under "Presentations" under G3-PLC meetings.



Enlit Africa , the leading platform for the energy community in Africa took place in Cape Town, South Africa from 07-09 June. G3-PLC Alliance attended the event as a silver sponsor. Landis+Gyr together with G3-PLC Alliance representatives presented the benefits of G3-PLC and the enhanced capabilities of the G3-PLC Hybrid solution for the smart grid.

All presentations are available here: <https://g3-plc.com/videos/presentations/>



The alliance organised a webinar on June 15th on regulatory regime and G3-PLC deployments in FCC band in Europe. Together with the alliance representatives, the utility “Netz NÖ from Austria” shared their experience on the G3-PLC smart meter roll-out in FCC band.

The recording of the webinar is available here: <https://g3-plc.com/videos/>

Looking ahead, the Alliance currently plans its presence at relevant fairs and conferences for 2022. The next big event is Enlit Asia, which takes place in Bangkok from 20 - 22 September 2022. G3-PLC certified devices from members can be displayed in the booth; please contact generalsecretary@g3-plc.com. We also plan to participate in the Smart City Expo World Congress which will held on November 15th till 17th and in the Smart Grid Forum Latin America which will held on November 29th and 30th this year. Members who want to join the

alliance in Barcelona and Brasil, please contact generalsecretary@g3-plc.com



Rollout News



The rollout of the Linky smart meter is completed: 35 million meters have been installed with 99% daily collection rate. This is fully in line with the initial target. With this big success, Enedis achieved the number one position in the Singapore Smart Grid Index for the world's smartest grid, competing against 86 utilities across 37 countries.

The link to the smart grid index:

<https://www.spgroup.com.sg/sp-powergrid/overview/smart-grid-index>

Key achievements

SCHEDULE ON TRACK



35,000,000
meters installed

30,000 meters/day



750,000 meters
produced/month



4,000 operators
in the field/day



QUALITY



99% success rate
of remote operation



99% daily
collection rate
(23h59)

BUDGET



4.2 billion €

(updated forecasts vs. initial cost)
CAPEX by 2021

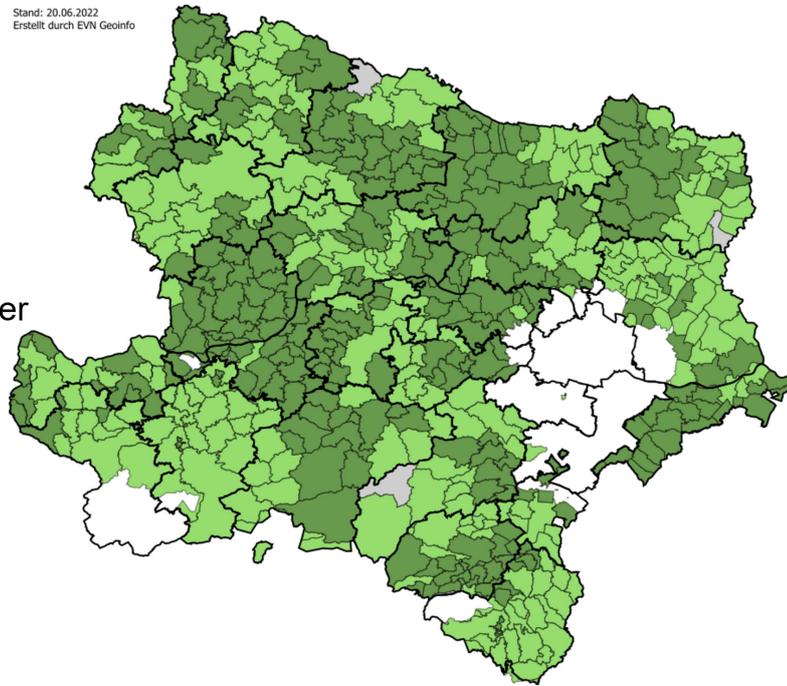
ENEDIS
L'ELECTRICITE EN RESEAU

EVN

G3-PLC for the Smart Metering Rollout in Austria: The roll-out at NÖ Netz in Austria started in September 2020. On balance, 844.000 meters have to be replaced in Lower Austria from Netz Niederösterreich. 95 percent of all meters are legally required to be smart by 2022 in Austria. Netz Niederösterreich has installed 737.000 meters by June 2022 which is 87% of their total meters. The goal is to finish the rollout by September 2022 reaching the 95% of total meters to be smart. Netz NÖ also uses the power quality data of the smart meter and they read all the data with a daily readout rate of 99.3 %.

Please see the presentation for more details on our website: <https://g3-plc.com/videos/>


> 95 % Smart Meter



Good news from Poland: Stoen Operator has been awarded a tender to supply 180.000 G3-PLC based smart meters by the consortium of Esmetric and Elgam Elektronika. Completion of the project is planned by the end of 2023 and will allow the achievement of the 1st milestone required by the Polish Energy Law, i.e. 15% of remote reading meters.

Please see the following article for more details:
<https://evertiq.pl/news/29601>

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G3-PLC Alliance

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