

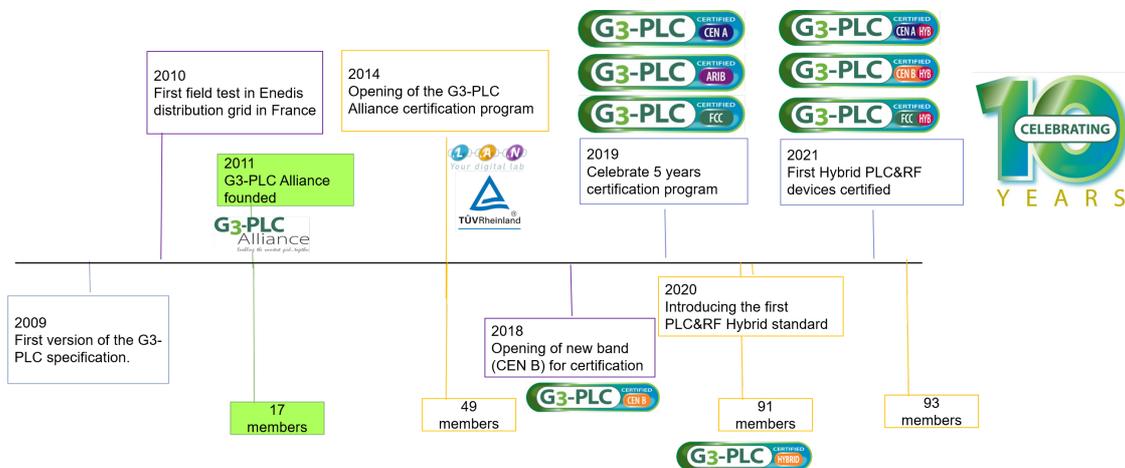


G3-PLC Alliance Infoletter December 2021



Dear G3-PLC Alliance members,

2021 was a very special year for the G3-PLC Alliance as we celebrated our 10th anniversary! In 2011, the G3-PLC Alliance was formed to standardize and promote G3-PLC technology globally. Today, the G3-PLC Alliance counts almost 100 members that are international key stakeholders of the smart grid ecosystem, including utilities, semiconductor companies and equipment manufacturers. Together, they support, promote and implement the G3-PLC technology and established an industrial certification program to guarantee the interoperability of devices from different manufacturers.



Currently, we have over 80 million G3-PLC products in operation in more than 30 countries worldwide. Current implementations include: Netz Burgerland in Austria, Netz Niederösterreich in Austria, Electrica in Romania launched a tender for G3-PLC, Egyptian Canal Distribution Company, four regional utilities in

Slovenia, Tatu Connect Power in Nairobi Kenya, Switzerland, TNB in Malaysia, ST in Latvia, and many other implementations and pilots!

A major achievement this year was the opening of the certification for the G3-PLC Hybrid solution. In May 2021 we had the first certified hybrid platforms and last month we demonstrated the first certified hybrid products at Enlit Europe. We want to thank again all member companies who contributed to this important milestone!

In June this year, the latest release of the G3-PLC specification was issued. This June 2021 release will be the new reference for certification for Certification Version 6 that will be issued later this month.

We were happy to meet many of you at Enlit Europe in Milan where we celebrated our 10th anniversary! And we even had a face-to-face general assembly meeting. Next year we plan to attend many exhibitions globally and we hope to meet all members again!



We were also very excited to launch the newly designed G3-PLC website this year. Our new website is updated with the latest information on G3-PLC, is easier to navigate and has an up-to-date design.

Read all developments below!

We look forward to 2022 and wish you a safe holiday season and a very happy new year!

Marc Delandre, Chairman

Leon Vergeer, General Secretary

**Great interest for certified G3-PLC Hybrid
PLC&RF meters at Enlit Europe**



G3-PLC Alliance took part in three very exciting days at Enlit Europe 2021 in Milan. Many energy professionals from various European Distribution System Operators came to take a look at the demonstration of the first certified hybrid PLC & RF meters in our booth and learn more about the G3-PLC Hybrid standard.

On the first day of the event, Alfredo Sanz, technical fellow of Microchip Technology delivered an inspiring talk on the performance of G3-PLC Hybrid communication systems. On the second day, Wolfgang Lehner, head of metering Netz Niederösterreich presented the NÖ Austria G3-PLC smart meter roll-out and their experience with voltage quality data.

On the second day of the event, we had our General Assembly of the G3-PLC Alliance. Invited speaker Riccardo Fiorelli from STMicroelectronics made a very interesting presentation about the evolution of narrowband Power Line Communication for Smart IoT networks. Another inspiring talk was given by Kaveh Razazian, CTO of Sagemcom who presented the first field results with the Hybrid PLC& RF technology in India.

Recordings of all these presentations are available on the G3-PLC website. Make sure to take a look as these are all very interesting presentations: <https://g3-plc.com/videos/>.

New reference version for G3-PLC certification

In June this year, the latest release of the G3-PLC specification was issued. This release includes several clarifications/corrections and adaptive power mechanism for the hybrid profile. Regarding PLC, this release covers important enhancements for dense networks such as trickle data broadcast mechanism, RREQ forwarding using jittering and trickle & clusterhead forwarding. These enhancements have been presented in the webinar 'Enhancements for Dense G3 PLC Networks' on October 13th 2021. A recording of this webinar is available here: <https://g3-plc.com/videos/>.

This June 2021 release will be the new reference for certification and is available for members on our website: <https://g3-plc.com/g3-plc/specifications-user-guidelines/> (you need to log in to have access; if you do not have a login, please contact generalsecretary@g3-plc.com).

Together with Trialog and the accredited certification laboratories in France (LANPARK) and Japan (TÜV) we have been working on a new release of the test tools for certification. This new release of the certification test tools ('certification version 6') includes new tests covering the changes in the G3-PLC specification as explained above and support for three RF band plans for the Hybrid PLC&RF feature:

- Single carrier within 863–870 MHz, mode #1 & mode #2 (Europe) (as before plus #2)
- Single carrier within 865–868 MHz, mode #1 & mode #2 (India) (as before plus #2)
- Single carrier within 870–876 MHz, mode #1 & mode #2 (Europe) (new).

This new release for certification will be issued in December 2021. After this new certification version has been released, there will be the usual grace period as described in the Test Procedures:

- 1 month for platforms and 3 months for products
- After this grace period, new certification projects can only use the latest certification version.

The latest information will be available on the website: <https://g3-plc.com/certification-tests/> (you need to log in to have access).

The next release of the G3-PLC specification will be issued latest in March 2022 and will include frequency hopping, last gasp and FCC sub-banding. As shown in the figure below, We aim to release the next version of the certification referencing this new specification in October 2022: Certification version 7.

The G3-PLC Alliance and the DLMS User Association Sign Liaison Agreement

The G3-PLC Alliance and the DLMS User Association (DLMS UA) signed a liaison agreement in September 2021. Under this agreement, both alliances will revise and improve the DLMS/COSEM PLC profile for G3-PLC networks reflecting the upcoming publication of the new version of the G3-PLC specification by the International Telecommunication Union (ITU). Additionally, the two organizations will also work together to extend capabilities for multi-commodity AMI and IOT applications using the DLMS application protocol and data model over G3-PLC Hybrid PLC&RF networks.

For more information visit our website: <https://g3-plc.com/press-releases/>

New members

We are happy to announce another new member to our Alliance! TR Group Ltd. from South Africa joined in December. This year again we welcomed quite a

number of new members in our Alliance. G3-PLC is now supported by an international group of nearly 100 DSO's and industrial players from 30 countries worldwide!

Also, Globaltronics for Electronics S.A.E., a meter manufacturer based in Egypt and KSA, has been a member for a long time already and upgraded to active member this year.



TR Group (Pty) Ltd was established in 2013 with the aim to be a significant contributor to the digitalization of the African continent. The company manufactures smart meters.

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

Company website:

<https://zatrgroup.co.za/>



Our new active member from Egypt: GlobalTronics S.A.E. is a meter manufacturer based in Cairo, Egypt. The company was established in 1998 to fulfil a growing need in the Egyptian market and currently manufactures power meters, covering Digital Meters, Prepaid Meters and Smart Grid Solutions.

Company website:

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

Event Highlights

To promote G3-PLC we plan to join the following smart grid events in 2022. Further events are in discussion and will be announced later.





Rollout News

Currently, the G3-PLC Alliance has over 80 million G3-PLC products in operation in more than 30 countries worldwide.

Current implementations include:

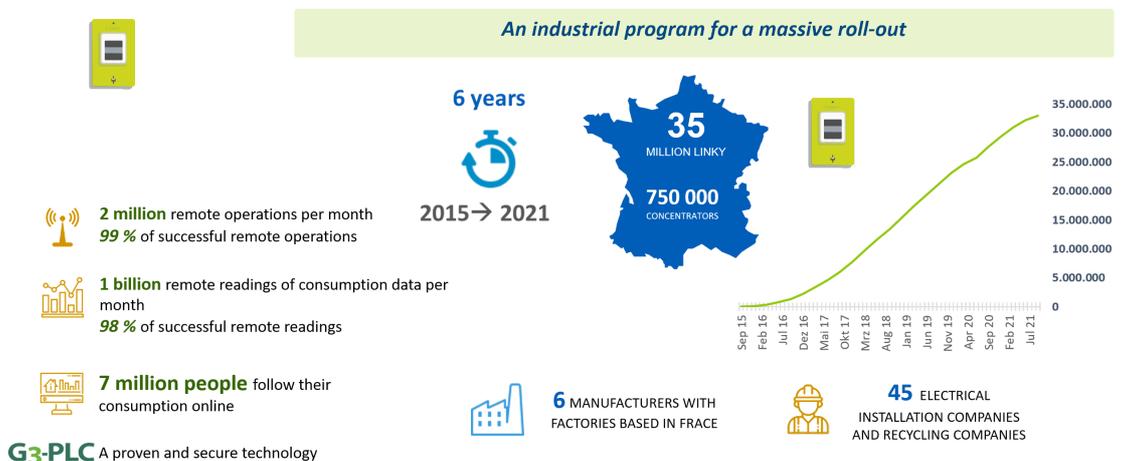
- Netz Burgerland in Austria
- Netz Niederösterreich in Austria
- Electrica in Romania launched a tender for G3-PLC
- Egyptian Canal Distribution Company
- Four regional utilities in Slovenia
- Tatu Connect Power in Nairobi Kenya
- Switzerland
- TNB in Malaysia
- ST in Latvia
- Multiple pilots with hybrid PLC&RF technology
- And many other implementations and pilots.



G3-PLC for the Smart Metering Rollout in France: In the Linky program now over 35 million meters have been installed. Seven million people follow their consumption online and the program has been very successful. The roll-out is planned to be finalized in 2021.

Opening

Linky roll-out in France: Where are we now ?



G3-PLC A proven and secure technology



G3-PLC for the Smart Metering Rollout in Austria: The roll-out at NÖ Netz in Austria started in September 2020. On balance, 800.000 meters have

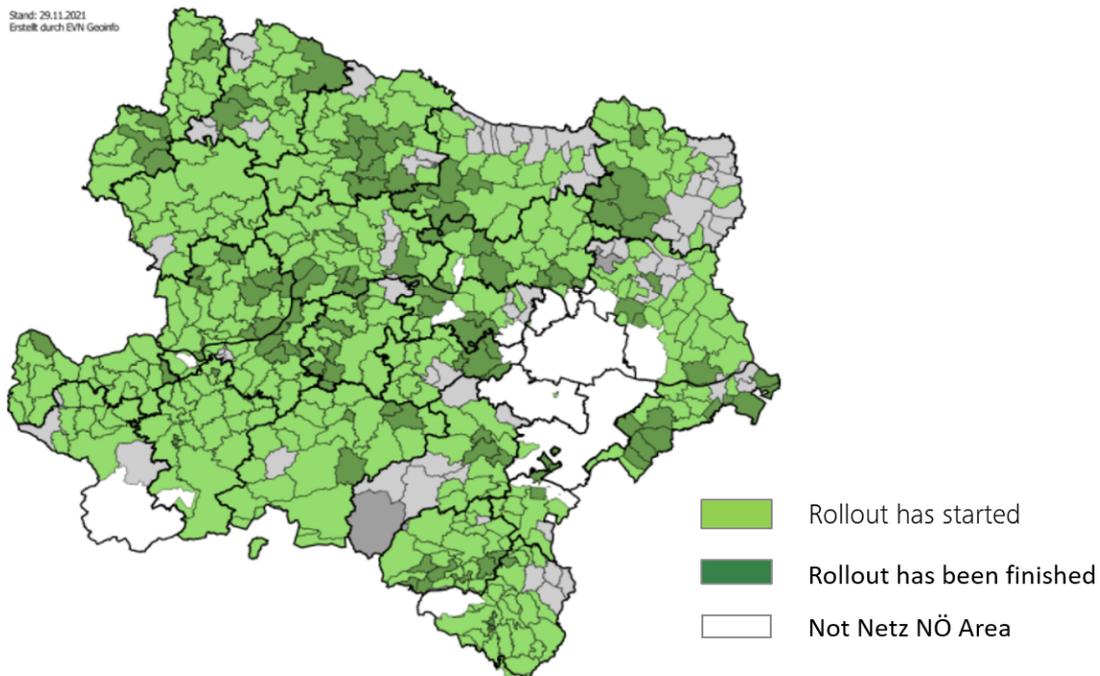
to be replaced in Lower Austria from Netz Niederösterreich. 95 percent of all meters are legally required to be smart by 2022 in Austria. The rollout plans of the company Netz Niederösterreich are oriented to this. The company is now installing 10 thousand meters per week and have installed more than 400 thousand meters which is above 50% of their total meters.

Netz NÖ also uses the power quality data of the smart meter and they read all the data daily from all 400 thousand meters with a daily readout rate of 98,5 %.

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

In more than 150 municipalities >90% are Smart Meter

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G3-PLC Alliance

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