



**Meeting November 21, 2022 (virtual)  
16:30 (CET)**

**Agenda**

1. Approval of the agenda
2. Approval of the previous meeting minutes
3. Report on TC-PLC recertification
4. Report on TC restructure
5. Report on webinars and student challenge organization
6. Conferences activities
  - a. Status of ISPLC 2023
  - b. Status of WSPLC 2023
7. Request for co-Chairs for Globecom 2024 Symposia and SAC tracks
8. Report on regulations and standardization activities
9. Publication activities
10. Any other business

**Make sure to sign up for the meeting  
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# IEEE ComSoc Technical Committee on Power Line Communications (TC-PLC)

## 2. Approval of the previous meeting minutes

Last TC-PLC meeting on May 4, 2022 (virtual)

IEEE ComSoc Technical Committee on Power Line Communications

Meeting, 4 May 2022

When: Meeting begins at 16:00 (CET).

Where: Google Meet (Virtual)

Attendance (10)

Gerd Bumiller (Chair)	Pascal Lorenz
Bamidele Adebissi (Vice-Chair)	Roberto Rojas-Cessa
José A. Cortés (Secretary)	Anil Mengi
Markus Rindchen	Ralf Lehnert
Scott Willy	
Gautham Prasad	

Meeting opened by Gerd Bumiller.

### Agenda

#### 1. Approval of the previous meeting minutes (attached)

Minutes of the last meeting approved.

#### 2. Ratification of elected officers

Gerd Bumiller summarizes the election process and the results:

Chair: José Antonio Cortés Arrabal, University of Málaga (Spain),

Vice-Chair: Cédric Lavenu, EDF – R&D (France)

Secretary: Thokozani Shongwe, University of Johannesburg (South Africa)

Once the results have been approved by the Director of TC and the Vice-President of the Technical and Educational Activities (VP-TEA), they have to be ratified by the TC-PLC. A motion is passed to ratify the elected officers and is unanimously approved.

José A. Cortés thanks Gerd Bumiller for the work during these years as Chair of the TC-PLC.

#### 3. Motion for Policies and Procedures (P&P) Update

José A. Cortés indicates that updating of the P&Ps is requested by the TEA Council and the Director of Technical Committees (TC). The process started in 2018. The main changes with respect to the P&Ps in force are summarized (see slides).

José A. Cortés highlights that there have been some last minute changes with respect to the version sent by e-mail last week (see text in red in the slides). These are made upon the answers given by the Director of TC and the VP-TEA to some doubts posed in the last days.

José A. Cortés indicates that the P&Ps approved by the TC-PLC have then to be approved by the TC Board. Since changes might be requested, and to avoid the need for approving it again at the



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### 3. Report on TC-PLC recertification

- Technical Committees have to be recertified every three years to show their continued relevance and effectiveness to ComSoc aims.
- A Questionnaire was sent on September 7, 2022:
  - Attendance to TC meetings
  - Activities: conferences, workshops, lectures, talks
  - Publication activities: TC members serving as editor, EiC, guest editors
  - Number of members advanced for IEEE/ComSoc awards/ComSoc distinguished lecturer/IEEE fellow in the last 3 years
  - Standardization committees and projects the TC is actively involved in
- **Recertification approved** on October 5, 2022. The following recommendations are made:
  - Please make more efforts to promote the attendance of TC meeting.
  - Please organise more activities to increase the exposure of the TC.
  - Please provide a six-month plan for improvement and provide status of progress before June 2023.



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## 4. Report on TC restructure

- TC restructure process began in 2020 but is been accelerated in 2022 (once meeting per month since May)

### Why should we restructure TC?

- Lack of industry participation
- Lack of diversity in YP & Students members
- Lack of coordination to form SIGs
- Lack of support for local chapters globally
- Lack of support for standard development
- Lack of educational services to members
- Lack of guidelines in creating TC awards
- Significant overlapping areas among some TCs

### Appointed TC Officers (NEW)

- TC Standardization Programs Development Coordinator (appointed)
- TC Industry Communities Coordinator (appointed)
- TC Educational Services Coordinator (appointed)
- TC WICE/YP/Student Services Coordinator (appointed)
- TC Local Chapters Coordinator (appointed)
- TC Newsletter Editor (appointed)

Thokozani Shongwe (Secretary of the TC-PLC)  
appointed on 27/06/2022



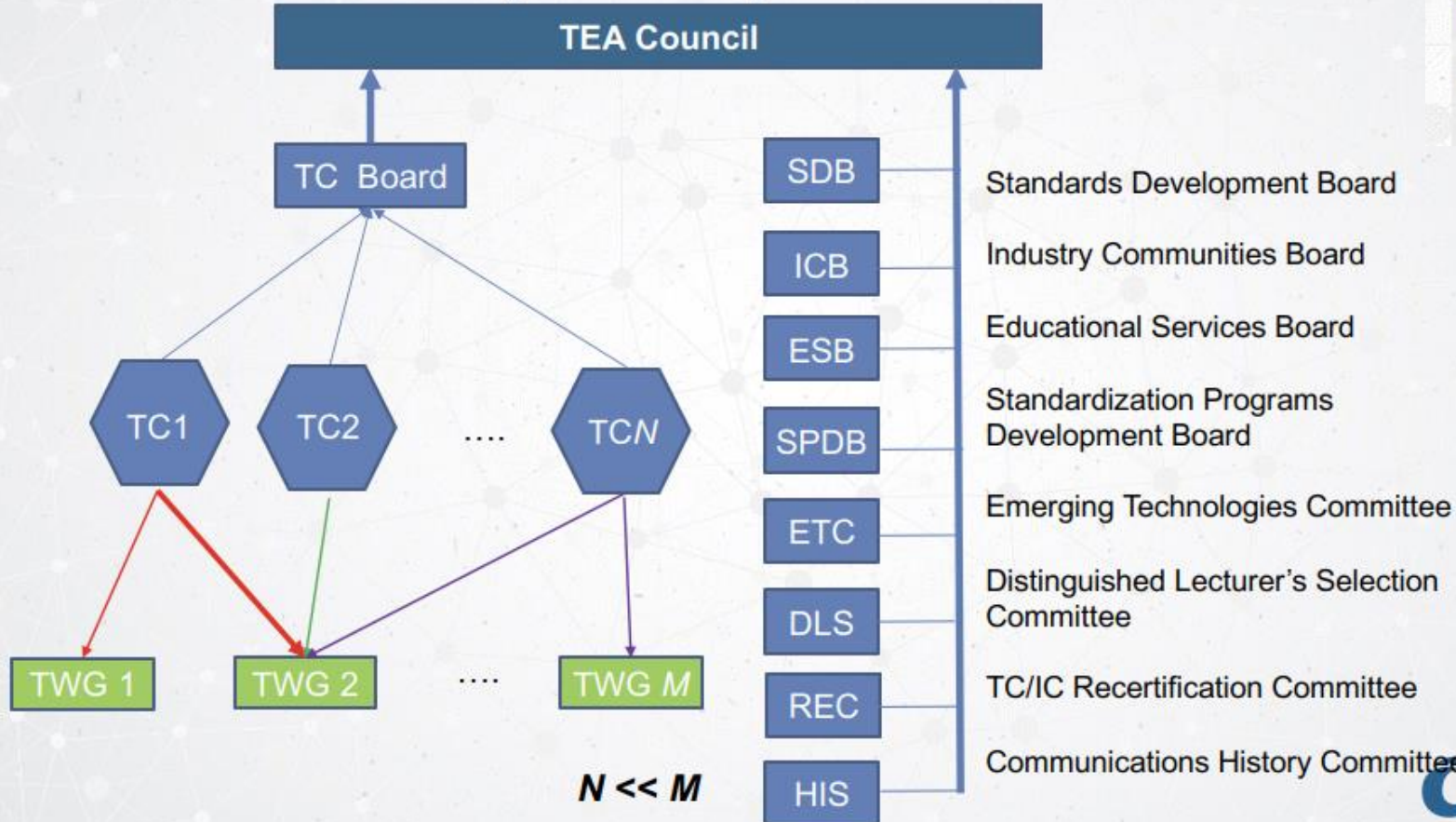


# IEEE ComSoc Technical Committee on Power Line Communications (TC-PLC)

## 4. Report on TC restructure

- Proposal for new TC structure

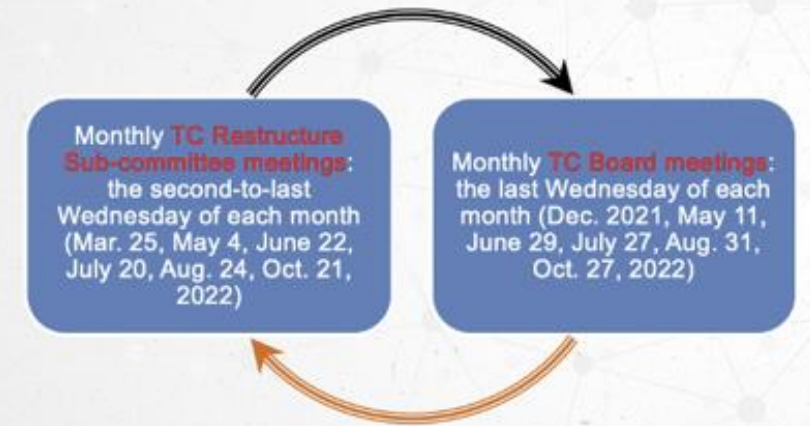
### Macro-restructure (Inter-TC)



### What we've done in 2022?

#### Iterative Procedure

- ▶ Iterative procedure to involve TCs/ICs in the process:





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## 5. Report on webinars and student challenge organization

- Need to carry out activities aimed at increasing the visibility of PLC technology, to increase participation and to engage the community
- **Webinar** aimed at disseminating the potential of PLC (free event)
  - Jointly organized with the TCSGC (chair Andrea M. Tonello)
  - Tentative title: PLC for the Smart Grid
  - Duration: 1h/1.5h: introduction to PLC (likely by Academia person) + 2 industry presentations focused on standardization, applications and challenges + Q&A
  - Date: end of 2022 / beginning 2023
- **Student challenge** aimed at attracting M.Sc./Ph.D. students to ISPLC/WSPLC and engage the PLC community
  - Firstly carried out in WSPLC 2016 (org. Cédric Lavenu) but with no continuity in successive events
  - Theoretically oriented for ISPLC and practically oriented for WSPLC.
  - Help requested to Academia/Industry members to define the challenge



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## 6. Conferences activities. b. Status of WSPLC 2023

- WSPLC 2023 was originally scheduled for September 2020. Organized by PPC. Successively delayed because of COVID and collision with ISPLC.
- PPC is standing by its commitment to host the event and so does the TPC.
- Timing: rescheduled to Q4 2023 (as ISPLC is in March) with September preferred.
- Estimated registration fees: €200- 250.
- Venue: initially planned in PPC premises but they are no longer available. It will be made in an external venue, which will incur upfront costs.
- Organizers are concerned about the number of attendees.

WSPLC 2023 web site: <https://wsplc2022.com/>



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## 7. Request for co-Chairs for Globecom 2024 Symposia and SAC tracks

- No nominations received
- Last co-chair for Globecom/ICC from the TC-PLC in 2019
- Reduced visibility of PLC technology & community



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## 8. Report on regulations and standardization activities

### **NB-PLC**

- G3-PLC Alliance : 2022 spec has been released in March (beta version) and a final version is expected end of 2022. The next version of the certification program is under preparation and is expected early 2023. Main new features are:
  - Enhanced broadcast for data packets and LOADng routing protocol “RREQs” (enhanced flooding)
  - New extensions of the hybrid profile : new RF frequencies, frequency hopping to comply with worldwide RF regulation, last gasp feature
  - New PLC bandplans : FCC sub-banding (possibility to split the FCC bandplan 154-487 kHz into two sub-bands)
- ITU-T SG15 : G.9903 and G.9901 are under revision (Last Call comment resolution stage) to reflect the latest changes agreed within the G3-PLC Alliance.
- IEC CISPR/H & SC77A JWG6 : CDV stage reached for IEC 61000-6-3 which intends to limit non intentional emissions in the range 9-150 kHz of general electrical devices connected to LV in residential areas. Next step is the revision of IEC 61000-6-8 which covers commercial and light-industrial environments.
- CENELEC TC219/WG9 works on revision of EN 50065-1 with an attempt to extend the NB-PLC frequency range up to 500 kHz (or more; up to 1,6 or even 3,7 MHz) in Europe for both AC (typically distribution grid and LV installations) and DC (typically PLC over DC bus between different components of a photovoltaic plants) networks. Measurements are being conducted to make sure radio services are not disturbed, in close cooperation with CENELEC TC210/WG11.



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## 9. Publication activities

### Report on PLC DocSearch status

TC-PLC meeting november 2022



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- Remember that the database is **available** at  
[www.plcdocsearch.uma.es/](http://www.plcdocsearch.uma.es/)  
(at a server hosted and maintained by Universidad de Málaga)
- A recent **significant update** has been carried out
- **453 new papers** included (not all of them are brand-new)
  - 182 are docs 2021-2022, at [IEEEExplore](#)
  - 122 are since 2001, at [Springer](#) database
  - 100 are since 2008, at [MDPI](#) database
  - 49 are since 1981, at [Elsevier](#) database



## 9. Publication activities

### Report on PLC DocSearch status

TC-PLC meeting november 2022



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- Currently, the **database** contains **5026 total entries**, all documents devoted to PLC corresponding to:
  - papers in **IEEE Xplore** up to now, 2022
  - All papers of **ISPLC** (1997-2021)
  - Papers of **WSPLC** (2009-2012)
  - Some other papers published outside IEEE: **Springer, Elsevier, MDPI** (in a more or less manual way)
- Likely there are omissions and errors (it is not always easy to identify PLC-devoted papers)
- If you want to include publications, from these or any other sources, you can send me the papers; or
- If you missed any paper,

contact to [francis@ic.uma.es](mailto:francis@ic.uma.es)



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