

IEEE Waveform Generation Measurement and Analysis Technical Committee (TC10)  
Approved Minutes of IEEE P181 Working Group (WG181) Meeting  
13 August 2024 / 1200 to 1330 (UTC-4)

1. Call to Order, approximately 1205 (UTC-4)
2. Introductions and Roll Call
  - a. Quorum achieved (14 members attended)
3. Presentation of IEEE SA patent policy
  - a. This information must be presented at the beginning of each meeting. Specifically, The following must be read “If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing g relevant information to the WG Chair.” Document is available at iMeetCentral (<https://iee-SA.imeetcentral.com/p181-wg/folder/WzlwLDE3ODA0MDcwXQ/WzlsODUzMTgyOTld/>) and was e-mailed to attendees.
4. Agenda: Ion Tudosa motioned to approve, John Jendzurski seconded the motion , no dissenting motions.
5. Meeting minutes approval (2 July 2024) motion for approval by Gearóid ó hEidhin, second by Nick Paulter, no dissenting motions.
6. Next meeting 18 September 2024, starting at 1200 (UTC-4), duration of 90 minutes.
7. P181 review process
  - a. Reviewed definitions, Clause 3.1
    - i. Significant discussion on “signal” - phenomenon vs physical quantity
    - ii. Significant discussion on “synchronizing” – use of “aligning” vs “making coincident” and need to accommodate a delay/advance
  - b. Reviewed Clauses 3.2, “Symbols,” and 3.3, “Deprecated Terms”
    - i. Consensus to add sentence to acknowledge that deprecated terms are still used in practice.
  - c. Jitter plot – add note to include reference to IEEE Std 2414 on jitter and phase noise and jitter figure (Nick and Razvan)
8. Next steps
  - a. Review definitions of “signal” and “synchronizing.”
  - b. Review comment for Deprecated terms.
  - c. Review new Figure 12.
  - d. Review Annex A, “Waveform Examples.”
  - e. Review Annex B, “Bibliography.”
  - f. Review Clause 4, “Measurement and analysis techniques.”

9. Tasks
  - a. Complete assignments according to initial table
10. Adjourn: around 1:35 PM, no dissent.

11. Attendees

Attendee name		Affiliation
Last	First	
Chong	Ang Boon	Intel, Malaysia
Ciocan	Razvan (Secretary)	Draper Laboratories, USA
Dadkhah	Peiman	NuGrid Power, Canada
Gendai	Yuji	THine Electronics, Inc., Japan
Hudson	Bruce	Self, USA
Iadarola	Grazia	Polytechnic University of Marche, Italy
Jendzurski	John	National Institute of Standards and Technology, USA
Liccardo	Annalisa	University Federico II of Naples, Italy
Milicevic	Kruno	University of Osijek, Croatia
Nied	Eric	Hubbell Power Systems, Canada
ó hEidhin	Gearóid	GE Renewables, UK
Paulter	Nicholas (Chair)	National Institute of Standards and Technology, USA
Tudosa	Ioan	University of Sannio, Italy
Yoo	Han Woong	Automation and Control Institute, Austria