

PSCC Subcommittee Meeting Minutes

Designation: P0	Name: PROTOCOLS AND COMMUNICATION ARCHITECTURE SUBCOMMITTEE
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Meeting Location: Virtual WebEx	Meeting Time: 09:10am CDT	Meeting Date: 2021/05/06	Minutes Revised: 2021/05/18	Minutes Approved: 2021/09/24
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Presiding Officer(s): Benton Vandiver, Chair; Tom Dahlin, Vice Chair	Recorded by: Tom Dahlin	Draft Number: 1.0
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Attendance:

Name	Affiliation	Phone (P) / Web (W) / Local (L)	M/CM/G
Benton Vandiver – Chair	Hitachi ABB Power Grids	W	M
Tom Dahlin – Vice Chair	SEL	W	M
Antonova, Galina	Hitachi ABB Power Grids	W	M
Benou, Marc	Iniven	W	M
Bougie, James	Global Power Technologies	W	M
Cease, TW		W	M
Dood, Mike	SEL	W	M
Farquharson, Ron	Mount Victoria Consulting Ltd	W	M
Formea, James	EATON	W	M
Giarratano, Didier	Schneider Electric	W	M
Holstein, Dennis	OCG	W	M
Hu, Yi	Quanta Technology	W	M
Huntley, Chris	SEL	W	M
Johnson, Tony	SCE	W	M
Martin, Ken	EPG	W	M
McGuire, Dave	Hubbell-RFL	W	M
Mix, Scott	PNNL	W	M
Newell, Ryan	TRC	W	M
Palmer, Craig	PowerComm Solutions	W	M
Preuss, Craig	Black & Veatch	W	M
Thibodeau, Eric	Hydro Quebec	W	M
Brittany Chapman	Commonwealth Associates	W	G
Bruce Muschlitz	Novatech Automation	W	G
Chaitali Naik	Commonwealth Associates	W	G
Chris Hune	AEP	W	G
Colin Gordon	SEL	W	G
David Dolezilek	SEL	W	G
Deryk Yuill	iS5	W	G
Erin Morales	IEEE	W	G
Eugenio Carvalheira	Omicron Energy	W	G
Gayle Nelms	SEL	W	G
Jay Anderson	ComEd - Exelon Corp	W	G
Jean-Sebastien Gagnon	Vizimax	W	G
Jesse Silva	SCE	W	G
Jim Michaelis	Commonwealth Associates	W	G
Karen Leggett Wyszczelski	SEL	W	G
Marcos Velazquez	Doble	W	G
Mickey Schultz	schultzc@bv.com	W	G
Nathan Wallace	IEEE	W	G
Nicholas Kraemer	NuGrid Power	W	G
Priyanka Nadkar	SEL	W	G

Roman Graf	IEEE	W	G
Scott Van Winkle	AEP	W	G
Shane Haveron - AMETEK	Ametek	W	G
Steel McCreery	Omicron Energy	W	G
Tony Bell	Ametek	W	G
Xiangyu.Ding	S&C Electric Company		
M: Member CM: Corresponding Member G: Guest			

Minutes of meeting (continued)

Item no.	Notes	Action by
CALL TO ORDER		BV
INTRODUCTIONS AND QUORUM	Member roll call taken. A quorum was met. There were 21 of 33 members present.	BV
AGENDA APPROVAL	The motion was passed. Motion – Dennis Holstein/ Second – Tony Johnson/ Approved -Yes (21).	BV
APPROVAL OF PREVIOUS MINUTES	The motion was passed. Motion - Tony Johnson/ Second – Dennis Holstein / Approved -Yes (21).	BV
CHAIR'S REMARKS	<p>Announcements Remembering – Ralph Mackiewicz – RIP Kevin Easley submits resignation from PSCCC</p> <p>WG minutes, PLEASE, get them in to Tom within 1 week after your meeting. If not, we cannot complete our SC report to the MC.</p>	BV
REPORTS	Please include what you need for the next meeting (room size, sessions) and revision of the document (draft #); Requirements for Next Session (RNS).	

Minutes of meeting (continued)

Item no.	Notes	Action by
P1WG	<p>Standard Profile for Use of IEEE 1588 Precision Time Protocol in Power System Applications. Amendment 1: Adding a TLV to indicate the latest IERS-specified UTC Leap Second Event</p> <p>Chair: Chris Huntley</p> <p>DID NOT MEET.</p> <p>The WG had completed its task from the IEEE-SA to reach a consensus for the disposition of the comments received from those who had balloted the C38.238a draft last autumn.</p> <p>The dispositions are now being reviewed by the IEEE-SA for review by their Revcom members. Next Revcom meeting is scheduled for next month.</p>	Chris Huntley
P2WG	<p>Electric Power Systems Communications – Distributed Network Protocol (DNP3)</p> <p>Chair: Ron Farquharson</p> <p>P2 is focused on 1815 (DNP3) – and collaborating with the DNP Technical Committee to develop the next release of 1815. The last release was 1815-2012. Met in a double session.</p> <p>Announced new Amendment to the IP sharing agreement between the IEEE and the DNP-UG to expand scope to include new work beyond 1815 and define two different document types.</p> <p>Been approved for a 3-year extension to the PAR extending our deadline to December 2022. Have experienced delays, due to COVID and other work demands. The current plan is to release to RevCom in Q4 of 2023 but further delays may be coming. In the process of applying a further two-year extension of the PAR.</p> <p>RNS: 20 people, 1 session, HDMI projector, WiFi, teleconferencing</p> <p>Conflicts: S5 – C37.240</p>	Ron Farquharson
P3SG	<p>Exchanging Information Between Networks Implementing IEC 61850 and IEEE Std. 1815.1 (DNP3)</p> <p>Chair: Ron Farquharson</p> <p>DID NOT MEET. P2WG took up this time slot.</p> <p>RNS: 25 people, 1 session, HDMI projector, WiFi, teleconferencing</p> <p>Conflicts: S5 – C37.240</p>	Ron Farquharson
P5WG	<p>Recommended Practice for Network Communications in Substations (IEEE P1615)</p> <p>Chair: James Bougie</p> <p>PAR approved. P5 is now a working group. Kevin Easley resigned from PSCC so James Bougie will now chair the group and Mike Dood will be vice-chair. Work is just beginning</p> <p>RNS: 30 people, 1 session, HDMI projector, WiFi</p> <p>Conflicts:</p>	James Bougie
P6WG	<p>Configuring Ethernet LAN Infrastructure</p> <p>Chair: Eric Udren</p> <p>DID NOT MEET.</p> <p>The report is published. The group has a power point and conference paper they have been presenting to the industry.</p> <p>RNS: No need for meeting in September.</p> <p>Conflicts: N/A</p>	Eric Udren

Minutes of meeting (continued)

<p>P8TF</p>	<p>Recommended Mapping Approach between IEEE C37.118.2 and IEC 61850 Chair: Yi Hu Chair briefly reviewed the assignment of the WG, and the two activities since January meeting: 1) A presentation about the PES-TR74 was made at NASPI meeting by Yi Hu and Ken Martin; and 2) The paper outline has been revised based on discussions and suggestions at January meeting with volunteers who have signed up for contributing. Chair briefly reviewed the revised paper outline with meeting attendees and informed the WG attendee that the writing team will make an effort to have a paper presented at 2021 virtual PAC World conference (August 31 – September 1, 2021). RNS: 20 people, 1 session, HDMI projector Conflicts: PSRC B2/PSCC A2TF, PSRC CTF41, C42, and C43 sessions and PSCCC P9 and P10 sessions</p>	<p>Yi Hu</p>
<p>P9WG</p>	<p>Revision of C37.118.2 Chair: Vasudev Gharpure DID NOT MEET. PAR extension to December 2022. RNS: 20 people, 1 session, HDMI Projector Conflicts: C40, C23, C28, C41, P10</p>	<p>Vasudev Gharpure</p>
<p>P10WG</p>	<p>IEEE Standard for Streaming Telemetry Transport Protocol Chair: Ken Martin Draft 2.6 The Chair reviewed the current draft of the standard and the project status. The WG also approved changes in the several sections. The API reference Annex D was discussed. A reference implementation is given from the GitHub site. It was agreed that we do not need to present a reference implementation, especially since it will easily become out of date. The WG decided that it would be best to not present this detail, so we will delete this in favor of a couple paragraphs about the use of API in implementing the standard. RNS: 20 people, 1 session, HDMI projector Conflicts: P9, C23, C28, CTF41, PSRC-SC-C</p>	<p>Ken Martin</p>
<p>P11TF</p>	<p>Report on Cloud Computing, uses and Requirements of Electric Power Utilities Chair: T.W. Cease DID NOT MEET. RNS: 25 people, 1 session, HDMI Projector Conflicts:</p>	<p>T.W. Cease</p>
<p>P12TF</p>	<p>Analog Leased Line End of Life and Migration Report Chair: Marc Benou The group reviewed the changes made since the last meeting, decided what needs to be updated or filled out and made writing assignments. All writing assignments regarding the new section 4, available leased channel types, should try to imbed the advantages and disadvantages of each type of technology in the write-up, rather than add it at the end of the sub-section or main section. Mickey Schultz will be made a member after volunteering for a writing assignment. RNS: 20 people, 1 session, HDMI Projector Conflicts: H32, P14, H49</p>	<p>Marc Benou</p>

Minutes of meeting (continued)

Item no.	Notes	Action by
P13TF	<p>Beginners guide to IEC 61850 Chair: Eugenio Carvalheira</p> <p>The group met for the first time as a task force to produce a technical report. We confirmed the title to be “A beginner’s guide to IEC 61850 and Related Standards” and discussed the scope should be as an entry level guide for utility engineers. In order to keep within PSCC scope, the group agreed to focus on the protocol and architecture aspects and to not address specific protection applications within this report. We started working on the draft outline we received from the study group and recruited first volunteers to start with writing assignments.</p> <p>RNS: 30+ people, 1 session, HDMI projector, WiFi Conflicts: H45, H27, H31, H30, H6, H44, TFH47,</p>	Eugenio Carvalheira
P14WG	<p>Review of C37.236, IEEE Guide for Power System Protective Relay Applications Over Digital Communication Channels Chair: Tom Dahlin</p> <p>Reviewed writing assignments from January. Submittal topics included:</p> <ul style="list-style-type: none"> • MPLS and Carrier Ethernet • Mesh Topologies • Wireless/Cellular Communications <p>During the review of the writing assignments the group made several recommendations that will need to be added and reviewed at the next meeting. Need to add table of contents to draft.</p> <p>RNS: 20 people, 1 session, HDMI projector Conflicts: P12, H42, H41, H49</p>	Tom Dahlin
P15WG	<p>Standard Profile for Communications with Distributed Energy Resources (DERs) using IEEE Std 1815 [Distributed Network Protocol (DNP3)] Chair: Eric Thibodeau</p> <p>The working group is finally ready to get going. Last week, the DNP-UG and IEEE agreed to extend their existing agreement for IEEE 1815 (DNP3). AN2018-001 is now covered by the agreement. Chair will be contacting the IEEE SA to see if a member of the editorial team could help with converting AN2018-001 to a base draft in the IEEE standard template. Work was assigned to volunteers present to start reviewing the existing document. Chair will setup iMeet Central and provide a template comment sheet within the next few weeks to launch activities.</p> <p>RNS: 25 people, 1 session, HDMI projector, WiFi Conflicts: S1, P2, P3, K25</p>	Eric Thibodeau
P16WG	<p>P1854 Review by PSCC for Communications and Cybersecurity Requirements Chair: Craig Preuss</p> <p>The work is transitioning from a SG to a WG with potential chair of Jason Lombardo. Trying to figure out how to organize with the T&D Committee.</p> <p>RNS: 20 people, 1 session, HDMI projector, WiFi, Conflicts: I31, H46</p>	Craig Preuss

Minutes of meeting (continued)

<p>P18SG</p>	<p>Guide for Smart Grid Interoperability of Energy Technology and Information Technology Operation with the Electric Power System (EPS), End-Use Applications, and Loads Chair: Anthony Johnson P0 Joint Working Group with SCC21 for revision of IEEE 2030. Reviewed Copywrite and Patent slides. Presented the proposed work plan. This work plan identified the schedule and subgroups that will be established to perform the work. RNS: 25 people, 1 session, HDMI projector, Conflicts: S13</p>	<p>Anthony Johnson</p>
<p>P19SG</p>	<p>Study Group on Universal Utility Data Exchange (UUDEX) Chair: Scott Mix Concerns raised by Ralph Mackiewicz were shared, along with PNNL responses. Following a discussion of the issues, the SG determined to continue the work and work over the summer to develop the P19 report to P0 and the PAR through bi-weekly meetings starting in late May. Continue the study group efforts to develop the report to P0 as expeditiously as possible and complete the report and PAR over the summer for approval by P0 in September. Once approved by P0, migrate from SG to WG. P19 respectfully requests to be allowed to continue this work and present the report and PAR request in September RNS: 20 people, 1 session, HDMI projector, Conflicts:</p>	<p>Scott Mix</p>
<p>P20SG</p>	<p>Joint Revision of IEC 61850-9-3 Chair: Benton Vandiver Establish the DLMT from IEC and IEEE members. All P20 WG Members are part of the DLMT. IEC list provided by Hubert Kirrmann Review of approved PAR – Scope and Need. Group discussion on scope and what is expected, document access was reviewed and will be provided by download link until iMeet workspace is ready. Discussion of other related standards and what impacts this revision may have. Clarification of IEC/IEEE DLMT process moving forward, flow chart was reviewed. IEC SC65C needs to be informed if the DLMT has objections and/or comments on the IEC/IEEE 61850-9-3 draft as their document IEC 62439-3 will close May 12th. To expedite our feedback, the DLMT will meet on May 10th to address this timeline. RNS: 30 people, 1 session, HDMI Projector Conflicts: H50</p>	<p>Benton Vandiver</p>
<p>P21SG</p>	<p>System architectures supporting the virtualization of substation protection and control applications Chair: Craig Preuss P21 Study Group met for the first time with approximately 38 attendees. Two volunteers for vice-chair/secretary were received and will be reviewed by the chair. The Study Group decided to meet again in the near future, at least two weeks out from the first meeting to meet meeting notification requirements. A regular cadence of meetings was discussed, and bi-weekly meetings will be used until the group decides a different cadence is needed. The next few meetings will have presentations scheduled so that the Study Group can learn about related ongoing activity.</p>	<p>Craig Preuss</p>
<p>OLD BUSINESS</p>	<p>None.</p>	

<p>NEW BUSINESS</p>	<p>None.</p>	
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Minutes of meeting (continued)

TIME OF FINAL ADJOURNMENT	10:10am CDT	TD
NEXT FACE TO FACE MEETINGS	September 2021 Virtual Meeting	BV
FUTURE MEETING ROOM REQUIREMENTS	For the next meeting we will need to meet for 1 session in a room for 50 people. We do not want to meet at the same time as the PSRC H SC or the PSCCC S SC.	