



PSCC Subcommittee P1 Meeting Minutes

Designation: P1	Name: 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.
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Meeting Location: Teams	Meeting Time: 10:00 CDT	Meeting Date: 2022/12/02	Minutes Revised: 2022/xx/yy	Minutes Approved: 20230110
PAR Submission Date: 2020-01-23	PAR Approval Date: 2020-03-05	PAR Expiration Date: 2024-12-31	Target Sponsor Ballot Date: N/A	Target Completion Date: N/A

Presiding Officer: Chris Huntley, Chair	Recorded by: J. Anderson	Draft Number: D3.0
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Attendance:				
	Name	Affiliation	Attending via Phone (P) / Web (W) or Local (L)	M/CM/G
<u>Members</u>	<u>Present?</u>			
Christopher Huntley	X	SEL	W	M
Jay Anderson	X	SEL	W	M
Galina Antonova	X	Hitachi Energy	W	M
Ken Fodero	X	SEL	W	M
Jalal Gohari	X	WSP	W	M
Nicholas Kraemer	X	NuGrid Power Corp	W	M
Ya-Shian Li-Baboud	X	NIST	W	M
Sakis Meliopoulos		Georgia Tech.		M
Bruce Muschlitz	X	Novatech		M
Benton Vandiver		Hitachi Energy	W	M
Harsh Vardhan	X	GE	W	M
Jeff Dagle	X	PNNL	W	G
Jean-Sebastien Gagnon	X	Vizimax	W	G
Dean Ouelette	X	RTDS - Ametek	W	G
Philip Winston	X	IEEE Revcom	W	G

M: Member
 CM: Corresponding Member
 G: Guest

Minutes of meeting (continued)

Item no.	Notes	Action by
CALL TO ORDER	Performed by Chair 10:05 CDT	C. Huntley
CALL FOR PATENTS	IEEE-SA slides presented to group. Response : negative.	C. Huntley
COPYRIGHT POLICY	IEEE-SA slides presented to group.	C. Huntley
BEHAVIOR SLIDES	Participant behavior in IEEE-SA activities slides presented to group.	C. Huntley
Attendees/Quorum	9 of 11 members attending; 13 total. Quorum achieved.	All
APPROVAL OF PREVIOUS MINUTES	Minutes of 2022-10-14 meeting were emailed to all attendees and were approved.	Motion to approve from J. Gohari 2 nd K. Fodero
AGENDA APPROVAL	The proposed agenda for this meeting from the Chair was emailed to all attendees and was presented. Agenda was approved.	Motion to approve from N. Kraemer; 2 nd J. Gohari

Item no.	Notes	Action by
<p>Presentation & Discussion</p>	<p>Recirculation ballot results: Ballot pool: 61 Responses: 50 (81% of ballot pool) Yea: 46 (93% of responses) Nay: 3 (6% of responses; note: one of the negative responses is from a member that passed away following the initial ballot, and is unable to change his response) Abstain: 1 (2% of responses) Comments received: 78</p> <p>Discussion of comments: Comment 1: change PICS entry for boundary clocks Extensive discussion about time inaccuracy and clockClass for boundary clocks. The discussion focused on a deficiency in the base C37.238 standard, where a BC can have a 200 ns error, and a GM can have up to a 250 ns error. Consequently a BC may (unless it has its own connection to a reference like GNSS) have at best 450 ns error.</p> <p>Proposal to continue discussion on this topic via email and discuss results at the next meeting (JTCM). We may need representation from the 9-3 group.</p> <p>Comment 2: Language on distributing leap second info in advance in the Abstract: Revised per suggestion</p> <p>Comment 3: Draft under consideration in "Introduction" text box: accepted</p> <p>Comment 4: Formatting of BC PICS. Resolution: SA to clean up.</p> <p>Comment 5: Provide ability to disable TLV processing. Resolution: should not be required.</p> <p>Comment 6: issues with processing workload and ability of subscribers to ignore the TLV if they don't understand it. Move TLV to a 1588 signaling message. Resolution: rejected. Devices that can't ignore the TLV are non-compliant to the standard; the additional bandwidth usage is on the order of one part per million. The signaling message is presently not implemented in C37.238 or IEC 61850-9-3; this was proposed as something for future editions of C37.238 (or 9-3) to consider.</p> <p>Additional comment disposition to be performed either via email or iin future meetings.</p> <p>Note: some discussion about the BIPM's move to obsolete the leap second. Noted that the proposal still has a way to go and that the leap second will be with us until at least 2035.</p> <p>Proposal from the Chair: At the last meeting in September, the PSCCC discussed (and passed) a proposal to conduct business (such as completion and approval of comment disposition) via email. The Chair proposes using this process to complete the disposition of the received ballot recirculation comments via this process. Do the P1 WG members agree with this proposal?</p> <p>The members chose to resolve as much as possible via email and validate</p>	<p>C. Huntley, J. Anderson, and members</p>

Item no.	Notes	Action by
<p>Next steps</p>	<p>Next meeting date will be the 2023 January JTCM. In the interim, members will be asked to consider the recirculation comments via email.</p> <p>Officers will try to contact members from the 9-3 WG (P20) to bring up the BC discussion.</p> <p>The minutes for today's meeting will be distributed by email for review, to be voted on at that meeting.</p> <p>Edited documents will be sent to members.</p> <p>The agenda for the next meeting will be sent out (expected to be continued review of ballot comments). Any changes will be incorporated and the agenda will be re-sent if required.</p>	<p>All</p>
<p>TIME OF FINAL ADJOURNMENT</p>	<p>11:28 CDT</p>	<p>Motion by the Chair; second by B. Muschlitz. Meeting adjourned.</p>