

G: Guest

PSCC Subcommittee Working Group Meeting Minutes Designation: Name: S15 Guide for Securing Generic Object Oriented System Events (GOOSE) and Sampled Values (SV) Protocols of IEC 61850 using IEC 62351-6 and IEC 62351-9 Meeting Location: Meeting Time: Meeting Date: Minutes Revised: Minutes Approved: Nashville Hermitage A/Hybrid 1420 CDT 2022/09/13 YYYY/MM/DD [2023/01/10] PAR Output: Target Sponsor Ballot Date: Target Completion Date: PAR Approval Date: PAR Expiration Date: PAR Output: New Guide 2021/02 2025/12 2023/11 2024/05 Presiding Officer: Recorded by: Draft Number: Jay Anderson, Shane Haveron, Dean Ouellette Dean Ouellette 0.02 Attendance: Attending via Phone (P) / Web Name Affiliation (W) or Local (L) M/CM/G SEL Jay Anderson L M Shane Haveron **AMETEK Power Instruments** W M W Dean Ouellette RTDS Technologies Inc. M Alex Apostolov PacWorld L M Eugenio Carvalheira Omicron M L W Colin Gordon SEL M W Nicholas Kraemer NuGrid Power Corp M Scott Mix Pacific Northwest National Laboratory L M Craig Preuss Black & Veatch L M Eric Thibodeau Hydro Quebec M L Dinesh Baradi ABB CM Marc Lacroix **EMCREY Canada** L CM Yuchen Lu **EPRI** W CM W CM Marcos Velasquez **Doble Engineering** W CM Deryk Yuill iS5 Communications Mark Adamiak Adamiak Consulting LLC W G W S&C G Markus Epting W G Chris Huntley SEL **KEPCO** W Byungtae Jang, KR G SCE L G Farzad Khalilpour Chikashi Komatsu W G Hitachi Andre Melo Schneider Electric W G Gayle Nelms SEL W G W G Jose Ruiz **Doble Engineering** W G Mauricio Silveira SEL Harsh Vardhan W G GΕ M:Member CM: Corresponding Member

Item no.	Notes	Action by
item no.	NOTE2	ACTION I

Minutes of meeting (continued)

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Item no.	Notes	Action by
CALL TO ORDER	Jay Anderson presided over the meeting; vice-chair Shane Haveron and secretary Dean Ouellette were on-line.	Jay
INTRODUCTIONS	Officers were introduced.	Jay
AND QUORUM	Establishment of a supermy 26 in otton days a 10 manufacturer and	
	Establishment of a quorum: 26 in attendance. 10 members were present	
	(including three officers); we have 19 voting members. Quorum was achieved.	
	Patent and copyright policy slides were shown	Jay
REVIEW OF		
COPYRIGHT SLIDES	New IEEE Participant Behavior slides were shown	
New IEEE Participant		
Behavior Slides		
CHAIR'S REMARKS	The approved project scope of was reviewed.	Jay
AGENDA APPROVAL	The agenda was presented but not approved due to lack of Quorum	Jay
APPROVAL OF	Approval of Minutes from 9/21/21:	Move to approv
PREVIOUS MINUTES	Approval of Minutes from 1/11/22:	by C. Preuss,
And Agenda	Approval of Minutes from 5/10/22:	second by A.
	All past minutes were approved (one correction: header on 9/21/21 minutes	Apostolov
	corrected to WG status).	
	Agenda for this meeting approved.	
OLD BUSINESS:	Scope of PAR was reviewed with reference material stored on IMeet	Jay; members
REVIEW OF SCOPE	A submission was received from Marc Lacroix, who updated the Table of Contents and corrected formatting.	
PRESENTATION &	The Chair discussed recent developments concerning the use of the subject	Jay
DISCUSSION	62351 standards, including the successful demonstration of a Key	50
	Distribution Centre (KDC) system delivering cryptographic keys to an IED at	
	the 2022 UCA IOP in Milan, Italy in July, and increased interest from other	
	vendors in KDCs and integrity and confidentiality systems, and a proposal to	
	IEC TC57 WG 15 to consider adding MACsec for SV communications.	
	We began to review the document, including the changes made by Marc.	
	The group began a discussion on another potential attack vector, where	Jay, Alex A.,
	configuration information could be retrieved from connected IEDs and used to	
	inform attack methods. We also discussed the potential to corrupt a	
	configuration in an IED. Other vectors discussed included the possibility of	
	someone replacing an IED within an ESP but outside of a PSP, which could	
	look like another form of spoofing that might be addressed using authentication protection.	
	Writing contributions were solicited and promised.	
	Transport of the solution of t	
	Additional sections to be considered for addition to the Guide include testing	
	information (including considerations for Transient Cyber Assets) and use	
	cases.	
	The Chair called for additional participation.	
New Business	Colin Gordon volunteered to develop a short presentation on 62351-9.	Jay
	Mark Adamiak and Farzad Khalilpour requested group membership.	
	Prair Adamak and Farzad Khampour requested group membership.	

Minutes of meeting (continued)

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FUTURE MEETING	Avoid H50, P1, H44, H47, C33, S2, H52	
ROOM REQUIREMENTS	Will need room for 35 with Webex access and a projector.	
Future Meetings	A meeting will be scheduled for early November to continue discussion. A Doodle Poll and subsequent Webex invitation will be sent out. The next regularly scheduled meeting will be January 8-12 2023 at the JYCM in Jacksonville, FL.	
NEXT FACE TO FACE MEETINGS	Avoid H50, H44, H47, C33, S2	
ADJOURNMENT	Meeting adjourned at 15:30 CDT	

PSCC Committee Minutes of Meeting