

PSCC Subcommittee Study Group Meeting Minutes

Designation: P21		Name: System Architectures Supporting the Virtualization of Substation Protection and Control Applications			
Meeting Location: Teleconference		Meeting Time: 10:00 AM	Meeting Date: 2021/10/18	Minutes Revised:	Minutes Approved: 2021/11/01
PAR Output: N/A	PAR Output: N/A	PAR Approval Date: N/A	PAR Expiration Date: N/A	Target Sponsor Ballot Date: N/A	Target Completion Date: N/A
Presiding Officer: Craig Preuss, Chair			Recorded by: Craig Preuss		Draft Number: N/A
Attendance:					
Name		Affiliation		Attending via Phone (P) / Web (W) or Local (L) M/CM/G	
Craig Preuss		Black & Veatch		W	M
Shane Haveron		AMETEK		W	M
Noor Mohd Fadzli B Hj. Othman		PETROLIAM NASIONAL BERHAD (PETRONAS)		W	M
Jean Raymond		Hydro Québec		W	M
Cole Weber		Advantech		W	M
Scott Mix		PNNL		W	M
Greg Zweigle		SEL		W	M
Prasad Shrawane		Greater Sudbury Hydro Inc.		W	M
Paul Myrda		EPRI		W	M
Sai Chandra Reddy Thota		Megger Ltd		W	M
Thomas Rudolph		Schneider Electric GmbH		W	M
Anthony Sivesind		SRP		W	M
Ibrahim Abdulhadi		University of Strathclyde, Glasgow		W	M
James Formea		Eaton		W	M
Gayle Nelms		SEL		W	M
Veselin Skendzic		SEL		W	M
Ted (Charles) Witham		Eaton		W	M
Madhab Paudel		Eaton		W	M
Jay Anderson		ComEd		W	M
Mike Dood		SEL		W	M
Andre Melo		Schneider Electric		W	M
Dean Samara-Rubio		Intel		W	M
Farzad Khalilpour		SCE		W	M
Eugenio Carvalheira		OMICRON		W	M
Miguel Rios		Southern Company		W	M
Austin Wade		SEL		W	M
Hao CHEN (来宾)		State Grid Corporation of China		W	M
Adam Caballero		Eaton			M
Chris Heron		Integrated Power Services			M
Prithpal Khajuria		Intel			M
Joseph Yang		Advantech			M

Jeff Brown	Advantech		M
Alex Apostolov	OMICRON		M
Anthony Johnson	SCE		M
Antonello Monti	RWTH Aachen University		M
Arun Shrestha	IEEE		M
Benton Vandiver	Hitachi Powergrids		M
Byungtae Jang, KR			M
Chand Tailor	Eaton		M
Charles Adewole	ERL Phase Technologies		M
Chris Huntley	SEL		M
Daniel Ridenour	Dominion Energy		M
Daqing Hou	SEL		M
David Dolezilek	SEL		M
Deepak Maragal	NYPA		M
Dennis Holstein	OPUS Consulting Group		M
Deryk Yuill	is5		M
Eric Thibodeau	Hydro Québec		M
Florian Ainhirn	Versuchsanstalt für Hochspannungstechnik Graz GmbH High Voltage Test Laboratory Graz Ltd.		M
Fred Agyekum	SEL		M
Gurudatha (Guru) Pai	GE Digital		M
James Bougie	GPT		M
Jay Herman	EPRI		M
Jeff Pack	POWER Engineers		M
Jeremy Slimmer	Cybirical		M
Jesse Silva	SCE		M
Jim Michaelis	Commonwealth Associates. Inc.		M
Jose Ruiz	Doble		M
Joshua Hughes	Patterson Power Engineers		M
Juan Placid	J J Power & Energy Inc.		M
Laurel Brandt	TVA		M
Luke Hebert	Cybirical		M
Michael Thompson	SEL		M
Mickey Schultz	Black & Veatch		M
Mital Kanabar	GE Renewable Energy		M
Murty Yalla	Hubbell		M
Nathan Wallace	Cybirical		M
Nirmal Nair	University of Auckland, New Zealand		M
Priyanka Nadkar	SEL		M
Ramakrishna Gokaraju	University of Saskatchewan		M
Richard Kephart	Emerson		M
Steve Klecker	MidAmerican		M
Steven Blair	Synaptec		M
Thai Li	Hubbell		M
Wayne Stec	Distregen		M
Xavier Manel-la	Siemens		M
Zeus Xioco	SCE		M

M: Member
 CM: Corresponding Member
 G: Guest

Item no.	Notes	Action by
CALL TO ORDER	Meeting was called to order by the chair at approximately 10 AM Eastern	
INTRODUCTIONS AND QUORUM	Introductions were not undertaken, the participants list was used. Quorum does not apply to study group per IEEE-SA rules all attendees are considered voting members.	
CALL FOR PATENTS	Pre-PAR patent slides were shown.	
IEEE-SA COPYRIGHT	IEEE-SA copyright slides shown.	
CHAIR'S REMARKS	General welcome given.	
AGENDA APPROVAL	James Formea motion to approve agenda, Thomas Rudolph second. No objections or abstentions.	
APPROVAL OF PREVIOUS MINUTES	Sept 22 – Jay Anderson motion to approve, James Formea second. No objections or abstentions. Oct 4 – Shane Haveron motion to approve, Mike Dood second. No objections or abstentions.	
Regular Web Meetings	EPRI (X) SCE (X) SRP (X) Intel (X) Advantech (X) LF Energy SEAPATH project and CIGRE B5.60 (October 18) PSRC H45 PC37.300 (October 18) TTTech Industrial North America (Nov 1) VMWare (Nov 15) PSCCC S1 P1686??? PSRC H46 PC37.1.3??? PSRC H27 COMSET PC37.251??? PSCCC S7 ISO TS 23167, general cloud that is applicable Others???	
PRESENTATION	LF Energy SEAPATH project and CIGRE B5.60	
PRESENTATION	PSRC H45 PC37.300. Paul Myrda noted during his presentation that anyone interested in participating in a substation virtualization demonstration and testing project being run by EPRI can contact him at pmyrda@epri.com.	
Action Items	Still no update from Erin about setting up an iMeet site for P21 Chair to request from PSRC H45 chair the current draft of PC37.300 for distribution to the P21 Study Group.	Chair will contact Erin. Chair
ITEMS REPORTED OUT OF EXECUTIVE SESSION	There was no executive session.	
TIME OF FINAL ADJOURNMENT	The meeting was adjourned at approximately 11:23 AM Eastern.	

Item no.	Notes	Action by
NEXT FACE TO FACE MEETINGS	Meeting bi-weekly on Nov 15, Nov 29, Dec 13.	
FUTURE MEETING ROOM REQUIREMENTS	N/A for room size, projector, conflicts.	



P21SG

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Centralized

Substation Protection



SEAPATH-CIGRE
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