

Designation: Na		Name:							
P21	Syst	em Architect	ures Supporting	the Virtualization of S	Substation Prote	ction an	d Control Applica	itions	
Meeting Locat	tion:		Meeting Time:	Meeting Date:	Minutes Revised:		Minutes Approved:		
	Teleconference	e	10:00 AM	2021/08/09	,		2021/08/23		
PAR Output:	AR Output: PAR Output:		PAR Approval Date	,	Target Sponsor Ballot Date:				
N/A	N,	/A	N/A	N/A	N/A		N/A		
Presiding Office	er:			Recorded by:		Draft Nu	mber:		
Craig Preus				Craig Preuss N/A					
Attendance	· · · · · · · · · · · · · · · · · · ·								
, ccciiaanec							Attending via		
							Phone (P) / Web		
Craia Drau		ame			ffiliation		(W) or Local (L)	M/CM/G	
Craig Preu Shane Hav				Black & Veatch				+	
Ibrahim Al				AMETEK	clyde Glasgow		W	M	
Prithpal Kl				University of Strathclyde, Glasgow			W	M	
	-			Intel Schneider Electric			W	M	
Thomas Rudolph Prasad Shrawane			Greater Sudbury Hydro Inc.			W	M		
Mike Doo				SEL			W	M	
Priyanka N				SEL			W	M	
Gayle Nelr				SEL			W	M	
Austin Wade				SEL			W	М	
Fred Agye				SEL			W	М	
Steven Bla				Synaptec			W	М	
Zeus Xioco)			SCE			W	М	
Noor M Fa	ndzli B Othma	n		Petronas			W	М	
Scott Mix				PNNL			W	М	
Farzad Kha	alilpour			SCE			W	М	
Michael Th	hompson			SEL			W	М	
Adam Cab	allero			Eaton			W	М	
Juan Placio	d			J J Power & Energy Inc.			W	М	
Chris Hero				Integrated Power Services			W	М	
Madhab P				Eaton			W	М	
Jay Anders				ComEd			W	М	
Nathan W				Cyberical			W	М	
Charles W	itham			Eaton			W	M	
Ramakrish	ına Gokaraju			University of Saskat	chewan				
Daniel Ridenour			Dominion Energy						
Veselin Skendzic			SEL						
James Formea			Eaton						
Mital Kanabar			GE Renewable Energy						
Charles Adewole			ERL Phase Technologies						
Chand Tailor			Eaton						
Deryk Yuill			is5						
Xavier Manel-la			Siemens						

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Jeff Pack	POWER Engineers	
David Dolezilek	SEL	
Anthony Johnson	SCE	
Jean Raymond	Hydro Québec	
Deepak Maragal	NYPA	
Eugenio Carvalheira	OMICRON	
Priyanka Nadkar	SEL	
Steve Klecker	MidAmerican	
Jim Michaelis	Commonwealth Associates. Inc.	
Sai Chandra Reddy Thota	Megger Ltd	
Anthony Sivesind	SRP	
Miguel Rios	Southern Company	
Arun Shrestha	IEEE	
Chris Huntley	SEL	
Jesse Silva	SCE	
Eric Thibodeau	Hydro Québec	
James Bougie	GPT	
Dean Samara-Rubio	Intel	
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	Introductions were not undertaken, the participants list used. Quorum does	
AND QUORUM	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	Mike Dood motion to approve agenda, Prithpal Khajuria second. No objections or abstentions.	
APPROVAL OF	Minutes from inaugural May meeting were shown, but chair has not	Chair to get
PREVIOUS MINUTES	distributed yet, still looking for affiliations.	missing
		affiliations and
		update meeting
		minutes and
		roster.

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Item no.	Notes Notes	Action by
PRESENTATION	Intel, SCE, and SRP presentation on their experience with virtualization in	Is it possible to
	substations. Presentation embedded in meeting minutes. There was discussion around the presentation content and implications to the P21 work.	organize a vendor
	There is interest in vendor presentations on their stack.	demonstration
	There is interest in vendor presentations on their stack.	on their stack
		organized by
		Intel for next
		time?
		Prithpal showed
		a slide that will
		be provided
		with meeting
		minutes.
		Importance of
		COMSET in P21
		work.
Regular Web	How much background / reference / presentation is needed	
Meetings	• PSRC H5 PC37.300???	
	EPRI (next time)	
	• SCE (X)	
	• SRP (X)	
	• Intel (X)	
	LF Energy SEAPATH project???	
	• PSCCC S1 P1686???	
	• PSRC H46 PC37.1.3???	
	• Others???	
	Work started in May so, completion of work in November not realistic, goal to	
	finish with report to P0 subcommittee in Jan 2022.	
	Bi-weekly calls will continue.	
ITEMS REPORTED	There was no executive session.	
OUT OF EXECUTIVE	There was no executive session.	
SESSION		
TIME OF FINAL	The meeting was adjourned at approximately 11:30 AM Eastern.	
ADJOURNMENT		
NEXT FACE TO FACE	Meeting bi-weekly starting on Aug 9. PSRC/PSCCC September meeting will be	
MEETINGS	Sept 22 so P21 will not meet on Sept 20.	
FUTURE MEETING	N/A for room size, projector, conflicts.	
ROOM		
REQUIREMENTS		





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