

Designation:	Name:						
P19	Working Gro	ıp on Universal Utili	ity Data Exchange (UU	IDEX)			
Meeting Locati	on:	Meeting Time:	Meeting Date:	Minutes Revised:		Minutes Approv	ved:
Las Vegas, NV / Web-conference		8:00 AM PDT	2023/05/09	[YYYY/MM/DD]		[2023/09/19]	
PAR Output:	PAR Output:	PAR Approval Date	: PAR Expiration Date:	Target Sponsor Ballot Date:		Target Completion Date:	
n/a	n/a	2022/03/24	2026/12/31	2023/09/3	30	2025	/12/31
Presiding Office	er:		Recorded by:		Draft Nu	mber:	
Scott Mix, C	hair		Jim Michaelis, Vic	e-Chair n/a			
Attendance:							
						Attending	via
						Phone (P)	Web
C + + N 45	Name			ffiliation		(W) or Loca	` '
Scott Mix	• .		PNNL			L	M
Jim Michael	IS		Commonwealth Associ	ciates, Inc.		L	M
Jim Bougie			Albireo Energy				M
Mike Dood			SEL			L	M
James Form			Eaton			L	M
Tom Hofstet	tter		NERC			W .	M
Jeff Pack			Power Engineers		L	M	
Eric Thibode	eau		Hydro Quebec				M
NA. 1 A 1	-1		Advist Complete				211/04
Mark Adami			Adamiak Consulting			L	NVM
J Richie Carr			GPA NEDC			L	NVM
Larry Collier			NERC			L	NVM
Peiman Dadkhah			NuGrid Power				NVM
Dan Goodlett			NERC			L	NVM
Ali Ipakchi			OATI SCE			1	NVM NVM
Anthony Johnson Theo Laughner			Lifescale Analytics			L W	NVM
			Eureka Power Solutions, LLC			VV	
Deepak Mar			INL				NVM NVM
Craig Rieger Nathan Wal			Cybirical			W	NVM
ivatilali vvai	iace		Сурптсат			VV	INVIVI
Byungtae Ja			KEPCO		W	G	
Eugenio Carvauteira			Omicron			G	
Ed Cenzon			?????		W	G	
Shane Haveron			Ametek Power Instruments				G
Yi Hu			Quanta Technology				G
Tom Thompson			IEEE			L	G
M:Member							
NVM: Non-Voting	- Manakan						

Item no.	Notes	Action by
CALL TO ORDER	The chair called the meeting to order at 8:00 AM PDT	Chair
INTRODUCTIONS AND QUORUM	This meeting of the P19 Working Group was welcomed by Scott. Attendee introductions were handled for those in the room and online, with 6 Members, 7 Non-Voting Members, and 3 Guests. The quorum was met.	Chair
AGENDA APPROVAL	Agenda for the meeting was reviewed, motion to approve by Mike Dood, second by Theo Laughner, passed without objection.	Chair
APPROVAL OF PREVIOUS MINUTES	Meeting minutes from the January meeting were reviewed, motion to approve by Mike Dood, second by Mark Adamiak, passed without objection.	Chair
CALL FOR PATENTS	Post-par patent slides were shown.	Chair
Review of Copyright	IEEE SA copyright policy slides were reviewed.	Chair
Review of Behavior	IEEE SA participant behavior policy slides were reviewed.	Chair
Old Business	Reviewed the current state of the draft UUDEX standard, referencing the following characteristics. Version D0-E10 is posted to iMeet Accessible to Members and Non-Voting Members There has been no change to the GITHUB implementation There are several updates in process at PNNL There is ongoing discussion on using the existing location versus moving this to the IEEE Open Source Initiative GITLab implementation Part of this discussion relates to who will manage the reference implementation after the standard is published Current work is focused on the following: Identifying existing gaps and holes Identifying open items Implementing control capabilities UML diagram updates Minimum operational Power System element data exchanges Discussed using ICCP Emulation at a minimum Potential for extensions beyond what ICCP supports Areas under evaluation include Transmission Generation Review and verify with NERC Functional Model Distribution DER information models Scott is involved in a separate project specifically looking at the model needs for solar (2030.5) Other information models PSAP CalFire experiences Others?	Chair

Item no.	Notes	Action by
Old Business (cont.)	Other development initiatives include:	
	Scott has started writing an introduction for the standard	
	Need to verify the API	
	 Follow up discussion on AVRO as a potential compression option 	
	 AVRO was discussed early on 	
	 This has not been worked on yet 	
	 Suggesting that this option be dropped, at least for now 	
	 Introduced potential to use the "REST" interface description like used 	
	in 2030.5	
	o <add agenda="" from="" link=""></add>	
	Shared the following list of US Centric or "American" language sections	
	as areas needing further evaluation and discussion	
	o NERC	
	o <pull agenda="" from="" list=""></pull>	
	Reviewed some of the sections that are missing UML diagrams	
	Discussed topics that may be overkill in the current version	
	Quality Codes	
	Compression Algorithms	
	Theo provided the information that PQ Diff uses G-Zip	
	Encoding Algorithms	
	• UUDEX currently references both 64 and 84 ???	
	It might not need to support both	
	Tony asked about PMU data	
	Scott has been asked to include this topic	
	 Discussion on whether this topic should not be included since 	
	it is a subject that is covered by other standards	
	There was general agreement to not include this topic	
	There was general agreement to not include this topic	
New Business	Discussion of the IEEE SA Open-Source Project has moved forward	Chair
	We recently had a webinar in the IEEE Open Source Initiative	
	The slide set is available	
	 Discussed possibly posting this to the P19 iMeet site, 	
	but this might not be considered acceptable	
	 Several people offered to forward the slide set to 	
	anyone who is interested	
	Review writing assignments from last meeting	
	None have been worked on yet	
	Nathan and Deepak need iMeet access	
	Will elevate to NVM status	
	Other topics of discussion	
	Tony suggested that the CalFire discussion is probably a subset of the	
	larger PSAP application in the control room	
	Mark asked about SKIP	
	o Simple Key-Management for Internet Protocol	
	o James brought up that the next generation of SKIP is being	
	developed	

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Discussion on	Additional discussion on standard development	Chair
document	US Centric language	
development	o Is using NERC and the NERC Functions Model OK?	
	 Maybe not since it is not applicable to international users? 	
	 It might be OK to reference these as an example of 	
	using UUDEX to meet these requirements (Tony)	
	Missing UML needing work	
	Remove PMU data	
	Define COMTRADE interface	
	Operations planning data	
	o Maybe define minimum data needs	
	Asset Management	
	 Is this possibly related to Dynamic Line Rating? Or is DLR more operations planning data?	
	References to IEC standards	
	How do we interface with this since this is not a joint standards	
	development?	
	What discussions need to be initiated with IEC?	
Upcoming meetings	Plan on virtual meetings in June and early August	
	Scott will send out Doodle poles to set meeting schedules	
	The next two in-person meetings will be:	
	Fall meeting September 18-21 in Myrtle Beach, SC	
	JTCM January 7-11, 2024 in New Orleans, LA	
[AGENDA ITEM 4]		
[AGENDA ITEM 5]		
[AGENDA ITEM 6]		
[AGENDA ITEM 7]		
ITEMS REPORTED	n/a	***************************************
OUT OF EXECUTIVE	, and the second	
SESSION		
TIME OF FINAL ADJOURNMENT	9:05 AM PDT	
NEXT FACE TO FACE	Fall PSRCC/PSCCC Meetings September 18-21, scheduled in person and hybrid	
MEETINGS	in Myrtle Beach, SC.	
FUTURE MEETING	Room Size for 20, Projector, web conference support, avoid P20 and P21	1
ROOM		
REQUIREMENTS		