

Designation:		Name:							
P19		Working Group o	n Universal Uti	lity I	Data Exchange (UU	DEX)			
Meeting Location: Meeting Time:		_		Meeting Date: Minutes Revised:			Minutes Approved:		
Myrtle Bea	ich, SC/	Web-conference	10:42 AM ED	TC	2023/09/19	2024/01/09		2024/01/09	
PAR Output:	PAR Outp	ut:	PAR Approval Date:		PAR Expiration Date:	Target Sponsor Ballot Date:		Target Completion Date:	
n/a		n/a	2022/03/24	1	2026/12/31	2023/09,	/30	2025/1	2/31
Presiding Office	er:				Recorded by:	1	Draft Nu	mber:	
Scott Mix, C	hair				Jim Michaelis, Vice	e-Chair	n/a		
Attendance	:	Name			Af	filiation		Attending via Phone (P) / We (W) or Local (I	eb
Scott Mix				PNNL			L	M	
Jim Michael	is			1	mmonwealth Assoc	iates, Inc.		L	M
Jim Bougie					Albireo Energy			L	M
Mike Dood				SEL					М
James Form	ea			Eat	Eaton			L	М
Jeff Pack				Pov	Power Engineers				М
Eric Thibodeau				Нус	Hydro Quebec			L	М
Mark Adamiak				Adamiak Consulting			L	NVM	
J Richie Carroll				GPA			L	NVM	
Larry Collier				NERC				NVM	
Peiman Dad	khah			NuGrid Power				NVM	
Dan Goodle	tt			NERC				NVM	
Tom Hofste	tter			NERC – retired				NVM	
Ali Ipakchi				OATI				NVM	
Anthony Joh				SCE			L	NVM	
Theo Laughner				Lifescale Analytics			W	NVM	
Deepak Mai	agal			Eureka Power Solutions, LLC				NVM	
Craig Rieger				INL				NVM	
Nathan Wal	lace			Cyk	pirical			W	NVM
Rajkumar (R		nasula			Grid India				G
Eugenio Car	vauteira			1	Omicron			L	G
Ed Cenzon				SEL			W	G	
Markus Epting			S&C Electric			L	G		
Shane Haveron			Ametek Power Instruments				G		
Yi Hu			Quanta Technology				G		
Byungtae Jang			KEPCO				G		
Steven Kunsman			Hitachi Energy			W	G		
Gayle Nelms			SEL			W	G		
Tom Thomp	son			IEE	E			L	G

Item no.	Notes	Action by
CALL TO ORDER	The chair called this meeting of the P19 Working Group to order at 10:42 AM EDT	Chair
INTRODUCTIONS AND QUORUM	This meeting of the P19 Working Group was welcomed by Scott, who reported that Tom Hofstetter asked to change from Member to Non-Voting Member status due to his recent retirement, so membership stands at 7. Attendee introductions were made, with 5 Members, 5 Non-Voting Members, and 6 Guests. The quorum was met.	Chair
AGENDA APPROVAL	Agenda for the meeting was reviewed, motion to approve by Eric Thibodeau, second by Jim Bougie, passed without objection.	Chair
APPROVAL OF PREVIOUS MINUTES	Meeting minutes from the May meeting were reviewed, motion to approve by Jim Bougie, second by James Formea, passed without objection. Meeting notes from the June virtual meeting were reviewed, but as an informal meeting no approval is needed. These will still be posted to the iMeet site.	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	Scott reiterated his request for members to review and comment on the current draft UUDEX standard and Nathan reported that he is about three quarters through with running markups that he will upload to iMeet when he is done. Reviewed US Centric and Overkill topics which were discussed during the June virtual meeting. Draft decisions from that meeting need to be formalized by the larger group. Specific recommendations include: • Leave the NERC functions in the document, presented with specific language on being informative only. ○ Provides an example that has wide use in the US. ○ The types of functions are universal regardless of jurisdiction. • Remove the Reliability Coordination Information System (RCIS) entry. ○ This is a niche application even in the US (20 to 50 of 3000 or so utility entities are using it). ○ A PNNL sponsor had wanted it included, so it stays in that document. • DOE-417 incident reporting will also be removed. ○ This is DOE-417 centric disturbance and outage reporting. ○ It was suggested that we come up with a more generic disturbance and outage incident reporting information model to include as an example. • EOP-004 and CIP-008 reporting will be removed. ○ Both are very US centric. ○ Collapse into a more generic model or rely on the separately documented STICS or physical security reporting models. • Annex N which was a procedure for vetting personnel at US industries to determine whether they should participate in a UUDEX exchange or not will be left in as informative. ○ An example of how someone might go through and determine whether to grant certificates for a UUDEX instance.	

Item no.	Notes	Action by
	Some Overkill topics discussed included:	Chair
()	 Quality and validity codes in Clause 24. 	
	 Still need to do some work on that. 	
	o There are a lot of quality codes which were initially pulled in	
	from many sources.	
	o Deepak was looking at some additional elements in the	
	distribution CIM, so we may be able to use some of that work	
	to mitigate need for as many quality codes.	
	 We did not reach a conclusion on these items. 	
	Compression algorithms.	
	 While originally ten or fifteen algorithms were brought into 	
	the document, the differences were very minor.	
	 Decided to just support two closely related algorithms, GZip 	
	and Zlib.	
	Encoding algorithms.	
	o Compared BASE64 and BASE85.	
	 Decided to only support BASE64. 	
	BASE85 is marginally more efficient.	
	 BASE64 is ubiquitous and sufficiently efficient for this 	
	standard's needs.	
	All yra a control of the latest and	
	All US Centric or Overkill items that are proposed to be removed from the IEEE standard will remain in the PNNL source documents and be	
	available should someone desire to extend UUDEX to include one.	
	available should sollieone desire to extend oodex to include one.	
	• Several additional items were raised for consideration during the call.	
	o IEEE 1159.3 PQ Diff	
	 COMTRADE (and COMFEED, etc.) 	
	 REST interface explanation from IEEE 2030.5. 	
	 Would need to get permission from 2030.5 to use. 	
	 Probably would go in an informational annex. 	
	 Had a little discussion on the IEEE Open-Source Project. 	
	 Scott was recently involved in some test use of the IEEE Open- Source Initiative. 	
	At least for now plans to minimize our use of that product at least until it attains a more mature status.	
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	sample JSON files available in a machine-readable form. If that forces the use of Open-Source Project then that	
	may be the only thing we move to that system.	
	If we can just post them on the standards download page that is probably better.	
	page that is probably better.	
	Review of open writing assignments.	
	Mark Adamiak writing use cases for control.	
	Submitted half a dozen use cases.	
	Format for use cases in document initiated	
	by PNNL is less a use case and more of an	
	information exchange flow with the use case	
	embedded.	
	Reviewed an example existing use case.	
	Asked question to the working group as to	
	whether this format is acceptable to the	
ļ	group.	

Old Pusiness (seet)	Notes At minimum at least two control use gages	Action by
Old Business (cont.)	At minimum at least two control use cases. Unicast such as few breaker control.	Chair
	Unicast such as for breaker control. Multiport such as for regulator control.	
	Multicast such as for regulator control. Proposing to refer to those as suggested control.	
	Proposing to refer to these as suggested control.Publish a request for control.	
	 The recipient must subscribe to that request. 	
	 The recipient must subscribe to that request. Then the recipient / subscriber must decide 	
	whether it will implement the action.	
	Looking at using prioritized message Qs with	
	control in highest, so it will be seen first by	
	subscriber – making control as responsive as	
	possible within publish - subscribe.	
	 Deepak agreed to review existing power measurement 	
	structures for missing components.	
	 Expectation that at least distribution is missing. 	
	 Had a couple power engineers with working 	
	knowledge of CIM extract pieces they thought were	
	appropriate, but not sure of status on this task.	
	 Tony investigated SCE to CalFire interface. 	
	 This was a pilot project which was not successful. 	
	 The team was disbanded, and Tony has not been able 	
	to find anyone still familiar with what was tried.	
	 Punt on this one and work on connecting with other 	
	PSAP type entities.	
	 Scott has been looking at DER information exchange. 	
	 Added a PNNL sample to iMeet. 	
	 Example standard format for wrapping XML 	
	statement into JSON.	
	 Example used a 2030.5 XML statement in sample. 	
	 Theo agreed to help with UML drawings. 	
	 At this point still waiting to identify what elements 	
	are missing and need to be added.	
	 EAS files (UML source) from original PNNL work have 	
	been uploaded to iMeet.	
	 Scott and Theo to coordinate offline. 	
	Nathan agreed to work on JSON schemas.	
	 Only schema in the UUDEX document currently is for 	
	physical security incident reporting.	
	 Have example JSON documents for everything, but 	
	not the schemas that relate to them.	
	 Per Theo, open API specification has a mechanism for 	
	defining both rest end points and the payload	
	associated with these, this might be a helpful tool.	
	 Nathan raised idea of using something like Open AI as a tool in developing the schemes 	
	a tool in developing the schemas.Look at scheduling a meeting between Scott, Nathan,	
	and Theo to discuss this development.	
	Schemas need to be machine readable and posted in	
	a place where they are accessible in real time, which	
	does not look like the IEEE Open Source system will	
	work.	
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Item no.	Notes	Action by
Old Business (cont.)	Side discussion on handling diagrams which will be part of the UUDEX	,
	or other documents. There have been issues with updating past standards where the diagrams in the standard are not editable. For PSCCC, it is expected that the working group will live on past publication of the standard so the iMeet site will continue to exist for storing files. All source Visio and raw UML files (Enterprise Architect) have been uploaded to the iMeet site. Question for Tom as to whether this is the final resting place for these types of files or if IEEE SA has a repository. Some files may be available, but it could be hit or miss. Encouragement to IEEE SA that having a repository for original editable source files for documents.	
New Business	Strong encouragement to voting and non-voting members to be reviewing the document and providing comments and markups. Probably best to send comments to Scott for incorporation into the online document. James Formea asked for additional discussion on the US Centric topics that were recommended for removal at the June virtual meeting. • Documentation from this further discussion was added to the appropriate sections, above.	Chair
Upcoming meetings	The next three in-person meetings will be: • JTCM January 7-11, 2024 in New Orleans, LA • Spring meeting May 13-16, 2024 in Buffalo, NY • Fall meeting September 9-12, 2024 in Scottsdale, AZ	
ITEMS REPORTED OUT OF EXECUTIVE SESSION	n/a	
TIME OF FINAL ADJOURNMENT	11:45 AM EDT	
NEXT FACE TO FACE MEETINGS	JTCM and PSRC/PSCCC Meetings January 7-11, 2024, scheduled in person and hybrid in New Orleans, LA.	
FUTURE MEETING ROOM REQUIREMENTS	Room Size for 20, Projector, web conference support, avoid P20 and P21	