



Item no.	Notes	Action by
<b>CALL TO ORDER</b>	The chair called the meeting to order at 10:40 AM CDT	Chair
<b>INTRODUCTIONS AND QUORUM</b>	This is the first meeting of P19 as a Working Group. The iMeet site is active and access will soon be trimmed down to just Members and Non-Voting Members. Participants were introduced with 7 Members, 5 Non-Voting Members, and 5 Guests. The quorum was met.	
<b>AGENDA APPROVAL</b>	Agenda for the meeting was reviewed, motion to approve by _____, second by _____, passed without objection.	Chair
<b>APPROVAL OF PREVIOUS MINUTES</b>	Meeting minutes from the May meeting were reviewed, motion to approve by James Formea, second by Shane Haveron, passed without objection. Meeting minutes from the June meeting were reviewed, motion to approve by James Formea, second by Jeff Pack, passed without objection. Meeting minutes from the July meeting were reviewed, motion to approve by James Formea, second by Mike Dood, passed without objection. Meeting minutes from the August meeting were reviewed, motion to approve by James Formea, second by Mike Dood, passed without objection.	Chair
<b>CALL FOR PATENTS</b>	Post-par patent slides were shown.	Chair
<b>Review of Copyright</b>	IEEE SA copyright policy slides were reviewed.	Chair
<b>Review of Behavior</b>	IEEE SA participant behavior policy slides were reviewed.	Chair
<b>Old Business</b>	The chair reviewed the current state of the draft UUDEx standard. <ul style="list-style-type: none"> <li>• All of the text has been brought into the IEEE format as a single document</li> <li>• The most recent part incorporated was the API documentation converted from Web based into Word</li> <li>• The document is currently sitting at 540 pages</li> <li>• Did not migrate a draft test plan that could become a separate document <ul style="list-style-type: none"> <li>○ This test plan has not been used, even during development of the sample code</li> </ul> </li> <li>• The GitHub repository with sample code is in place by PNNL. <ul style="list-style-type: none"> <li>○ May need to navigate how this interacts with the IEEE open-source initiative</li> <li>○ The chair is trying to get a partner for a commercial implementation of the standard and code</li> </ul> </li> </ul>	Chair
<b>New Business</b>	The chair extended a call for participation <ul style="list-style-type: none"> <li>• After this meeting the iMeet site access will be trimmed down to only Members and Non-Voting Members</li> <li>• Membership will include several PNNL and OATI people who were involved in the draft development, likely as Non-Voting Members</li> <li>• Target date for submitting to ballot is December 2023 <ul style="list-style-type: none"> <li>○ This is an aggressive schedule to get to ballot</li> <li>○ Anticipating that the ballot and comment process could entail an extended period of time</li> </ul> </li> <li>• Anticipated upcoming tasks include the following <ul style="list-style-type: none"> <li>○ Evaluate what in the document is not needed for a standard</li> <li>○ Evaluate what holes remain and need to be filled</li> <li>○ Edit the document into a final format</li> </ul> </li> </ul>	Chair

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<p><b>Follow up discussion on the protocol</b></p>	<p>IEEE Open Source Initiative</p> <ul style="list-style-type: none"> <li>• There is a need to get more information on the Open Source Initiative related to the following possible projects                             <ul style="list-style-type: none"> <li>○ Reference code (migrated from GitHub?)</li> <li>○ JSON Schemas</li> <li>○ Example JSON documents</li> </ul> </li> <li>• S7 and S8 have been looking at the Open Source Initiative                             <ul style="list-style-type: none"> <li>○ Identified that it could be beneficial to include in the PAR request                                     <ul style="list-style-type: none"> <li>▪ In the case of P19, the PAR was already approved before we were aware of the Open Source Initiative</li> <li>▪ This could be revisited with a PAR revision if further information indicates that this is beneficial</li> </ul> </li> </ul> </li> <li>• PSCC A0 has been discussing the Open Source Initiative                             <ul style="list-style-type: none"> <li>○ Apparently this structure has the ability to set up groups</li> <li>○ It was suggested that PSCC investigate setting up a PSCC Open Source group</li> <li>○ There may need to be a new AdCom committee if we decide to go that way</li> <li>○ James suggested having an Open Source representative make a presentation                                     <ul style="list-style-type: none"> <li>▪ Erin Morales offered to coordinate this presentation</li> </ul> </li> </ul> </li> </ul> <p>Approach and Options for the standard</p> <ul style="list-style-type: none"> <li>• There was discussion on reference verses normative for the JSON                             <ul style="list-style-type: none"> <li>○ The direction is toward Normative for a common language for interoperability</li> <li>○ There is still an option to define custom elements within the standard JSON for specific purposes</li> </ul> </li> <li>• A question was raised regarding presenting a parallel XML implementation for UUDX                             <ul style="list-style-type: none"> <li>○ This could facilitate interoperability with 61850 and others</li> <li>○ There are some differences in structure such as having native classes or not which could make a dual implementation challenging, although not impossible</li> </ul> </li> <li>• Discussed AVRO as a possible implementation component                             <ul style="list-style-type: none"> <li>○ Supposed to be an Apache based data compression system</li> <li>○ JSON is encoding anything, which could double data size</li> <li>○ AVRO might keep the communicated data load the same size as the source data size</li> </ul> </li> <li>• Suggestion to run JSON through Zlib as a lossless compression</li> <li>• H17 is wrapping up a document comparing Comtrade, CIM, and 61850, which could be informative during protocol development</li> <li>• Currently the UUDX proposed data model is based on control center usage                             <ul style="list-style-type: none"> <li>○ Currently envisioned as based on IEC 61970 CIM data model</li> <li>○ This development is not intended to invent new data models</li> <li>○ Could also consider using a 61850 data model</li> <li>○ Data model discussions will be part of the working group tasks</li> </ul> </li> </ul>	<p>Chair</p>

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<b>Discussion on document development</b>	Moving forward and writing assignments <ul style="list-style-type: none"> <li>• Suggestion for an open items check list at the start of the document to help track progress during the development</li> <li>• Minimum desired functionality is to develop a full ICCP replacement</li> <li>• Scott is looking into DER models                             <ul style="list-style-type: none"> <li>○ What is different with solar or wind compared to traditional generation resources</li> </ul> </li> <li>• Annexes are now up to “N”                             <ul style="list-style-type: none"> <li>○ There is a fairly empty annex for APIs should we decide to make those part of this document</li> </ul> </li> <li>• Discussed the document editing process                             <ul style="list-style-type: none"> <li>○ We would prefer not to have mass download and upload of the whole document, since there have been past experience where this led to files getting corrupted</li> <li>○ Dennis suggested having discussion threads to pass ideas and proposed edits back and forth ahead of document edits</li> <li>○ James proposed keeping document edits in the document on iMeet and using track changes to identify source of each change</li> </ul> </li> </ul>	Chair
<b>Upcoming meetings</b>	The in-person meetings for next year have been announced. <ul style="list-style-type: none"> <li>• Next meeting is January 8-12 JTCM in Jacksonville, FL</li> <li>• Spring meeting will be May 8-11 in Las Vegas, NV</li> <li>• Fall meeting will be September 18-21 in Myrtle Beach, SC</li> </ul> Do not anticipate any intermediate meetings prior to January, but encouraging members to be reviewing the document and starting with draft edits.	
<b>[AGENDA ITEM 4]</b>		
<b>[AGENDA ITEM 5]</b>		
<b>[AGENDA ITEM 6]</b>		
<b>[AGENDA ITEM 7]</b>		
<b>[AGENDA ITEM 8]</b>		
<b>[AGENDA ITEM 9]</b>		
<b>ITEMS REPORTED OUT OF EXECUTIVE SESSION</b>	n/a	
<b>TIME OF FINAL ADJOURNMENT</b>	11:52 AM CDT	
<b>NEXT FACE TO FACE MEETINGS</b>	Winter PSRCC/PSCCC Meetings with JTCM, January 8-12, scheduled in person in Jacksonville, FL.	
<b>FUTURE MEETING ROOM REQUIREMENTS</b>	Room Size for 20, Projector, web conference support, avoid P20	