



PSCC Subcommittee P12TF Meeting Minutes

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| Designation: | Name: |
| | Analog Leased Lines End-of-Life and Migration |

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| Meeting Location: Virtual | Meeting Time: 9:10 AM CST | Meeting Date: 2021/09/21 | Minutes Revised: | Minutes Approved: 2022/01/11 |
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| 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: [2022/05] |
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| Presiding Officer: Marc Benou, Chair; Dave McGuire, VC | Recorded by: Marc Benou | Draft Number: 4.4 |
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| Attendance: | | | |
| | | | Attending via Phone (P) / Web (W) or Local (L) |
| Name | Affiliation | | M/CM/G |

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|-----------------|---------------------|---|---|
| Marc Benou | Iniven | W | M |
| Ken Fodero | SEL | W | M |
| Craig Palmer | PowerComm Solutions | W | M |
| Chris Huntley | SEL | W | M |
| Jay Herman | EPRI | W | G |
| Scott Mix | PNNL | W | G |
| Rich Bauer | Black & Veatch | W | G |
| Safety Pepeljak | UNH-IOL | W | G |
| Marcel Geor | NIST | W | G |
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M: Member
 CM: Corresponding Member
 G: Guest

| Item no. | Notes | Action by |
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| CALL TO ORDER | Performed by Chair | M. Benou |
| INTRODUCTIONS AND QUORUM | quorum was not established. (4 out of 9 Members) | M. Benou |
| CALL FOR PATENTS | N/A (non-PAR related) | - |
| CHAIR'S REMARKS | Chair apologized for not being vigilant at following up with writing assignments given at the May meeting. No writing assignments were turned in prior to the meeting. | M. Benou |
| AGENDA APPROVAL | | |
| APPROVAL OF PREVIOUS MINUTES | n/a | M. Benou |
| Scope Review | n/a | |
| General Discussion | <p>There were several first-time guests attending the meeting. We started by reviewing the history of the report along with the table of contents and the report itself.</p> <p>Since no writing assignments were handed in since May, we reviewed what assignments were due. One of the assignments was taken by first time attendee in May, Mickey Schultz. We do not have his email and he did not attend this meeting, so his assignment was taken by Ken Fodero.</p> <p>The new guests were interested in this report and would like to know where it is published when it is completed.</p> <p>Ken pointed out the text can not have any recommendations with wording such as "should" since this is not a standard. The chair will review the report when it is completed to remove any such instructional statements.</p> <p>The following is a summary of the May meeting with writing assignments.</p> <p>All writing assignments regarding the new section 4, available leased channel types, should try to imbed the advantages and disadvantages of each type of technology in the write-up, rather than add it at the end of the sub-section or main section.</p> <p>Any mention of other systems using these technologies, other than teleprotection, such as SCADA, is OK, as long as it is brief. These can be kept in for reference purposes.</p> <p>Assumptions for this report are:</p> <ul style="list-style-type: none"> - This is for audio teleprotection users that are retaining their relay/teleprotection equipment - Users that are coming off of leased audio circuits - Users need a different leased circuit - This is for teleprotection only | TF |
| Call for Participation | | |

| Item no. | Notes | Action by |
|--|---|-----------|
| ASSIGNMENTS | <ul style="list-style-type: none"> - Tom Dahlin agreed to write up sections 2.1 and 2.2 on the history and requirements of leased audio teleprotection. - Marc Benou will change section 3.2 to section 4. It should be its own section. Section 3 should be renamed considerations and the section renumbered. - Dave McGuire will write up the section on leased T1. - Ken Fodero offered to review and re-write the Ethernet section. It is recommended that this section include references to some of the private product names used by different suppliers, such as ELAN. It is not meant as a sales pitch but rather to make the user aware that Ethernet may exist under private label names. - It is agreed that the Cellular section needs to be updated the latest technology available, including 5G and CBRS. Chris Huntley will re-write the section. - Marc Benou will add a few lines to the satellite section and add a reference on how they can be used to timestamp events and end-to-end testing. - Additional Considerations will be written by Dave McGuire. This section will discuss what to look for when transitioning an audio system onto a digital network. These include BER vs noise, CRC checks vs dual/single tone, security and dependability, and effects of guard before trip. It is recommended Dave use and reference C27.236. | TF |
| ITEMS REPORTED OUT OF EXECUTIVE SESSION | N/A | - |
| TIME OF FINAL ADJOURNMENT | 9:50 AM CST | M. Benou |
| NEXT MEETING | January 2021 | - |
| FUTURE MEETING ROOM REQUIREMENTS | Avoid conflict with H32, P14, HTF49 | |