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| <b>CCSDS Navigation WG Telecon</b> | <b>20-Nov-2019</b> |
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**Attendees:** David Berry, Julie Halverson, Ralph Kahle, Alain Lamy, Alexandru Mancas, Dan Oltrogge, Vincent Schaeffer, Brian Swinburne, Patrick Zimmerman.

| <b>Notes</b>   | <b>Action</b>  |
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| <b>1. Approve Fall 2019 Meeting Minutes</b>  |  |
| <ul style="list-style-type: none"> <li>David noted that he had received comments from several WG members, and inquired if anyone needed more time for comment. There were no requests for additional time so the minutes will be finalized.</li> </ul>   | To David: Send finalized meeting minutes to WG, also post to CWE.  |
| <b>2. Green Books status, RDM status</b>   |  |
| <ul style="list-style-type: none"> <li>David showed the status of the CMC Polls for the RDM and the Nav Data - Definitions and Conventions documents. Both polls end 28-Nov-2019, and so far all votes are to "Adopt" (that's the desired state).</li> </ul>   | Wait for results of polls and address conditions if any.   |
| <b>3. SANA Registry Status</b>   |  |
| <ul style="list-style-type: none"> <li>David showed that 6 requests to the SANA team remained outstanding, and another request went into the queue the previous day. Notably, later on the day of the telecon several of the requests that were queued up started being completed by the SANA Team. Dan had distributed material for several new candidate registries for review and comment by the WG; he anticipates comments and suggestions for additions. We hope to have these submitted to the SANA Team by end of January.</li> </ul>  | <p>To David: Continue follow up with the SANA Team.</p> <p>To All: Review material for proposed new registries; comment to the WG.</p> |
| <b>4. TDM Testing Status</b>   |  |
| <ul style="list-style-type: none"> <li>David reported that the TDM P1.5 with the TRACK ID modification had gone out the previous day. David noted that the TDM V.2 testing is a top priority at this point so we can get the book out and Cheryl can start in earnest on the TDM V.3. The status of the V.2 test plan/report was discussed:</li> <li>Test Case 1: Tom Johnson at AGI is working on it. Cheryl was not able to attend so no status from her end.</li> <li>Test Case 2: David reported that the JPL programmers had recently completed adding the phase count processing to the navigation software.</li> <li>Test Cases 3, 4: ESA side complete, DLR side in progress.</li> <li>Test Case 5: David and Fran will work on this soon.</li> <li>We hope to enter the CESG/CMC polls in early spring 2020.</li> </ul> | <p>To David: publish updated Test Plan/Report.</p> <p>To All: Complete outstanding test coordination and testing.</p>                  |
| <b>5. Action Items Review &amp; Other Document Status</b>  |  |
| Action Items from/since the Mountain View meetings and general document status were discussed and dates were updated. Many/most of the Action Items involve documents, so there is intertwined status of documents and their respective action items below. Documents  | To David: Send updated Action Items with minutes and post to CWE.  |

| Notes   | Action   |
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| are sorted below in alphabetical order. Action item target dates appear in the Action Items list.   |  |
| a) ADM: Version 2 updates are in progress. A version P1.9 update is still in progress; work on the ACM depends upon the related OCM section in the ODM, so once ODM P2.39 is distributed, the ADM P1.9 version can be completed.  | To Julie: Process ACM based on P2.39 OCM when available.<br><br>To Alain: Publish ADM 1.9 with updated ACM         |
| b) CDM: David noted that he had received a query from a user regarding "RESIDUALS_ACCEPTED"; a response was sent. Looking at the question and the document, it may be necessary to prepare a Corrigendum. A first Pink Book draft P1.0.1 is anticipated in January/February.  | To David: Forward email to Brian, Dan.<br><br>To Brian/Dan: Continue with plan for CDM P1.0.1                      |
| c) Navigation Data - Definitions and Conventions Green Book: The CMC "approval to publish" poll is currently in progress, ending 28-Nov-2019. We hope to publish by the end of 2019.  | To Cheryl, David: Wait for results of CMC poll and evaluate need for action.                                       |
| d) Navigation Data Messages Overview Green Book: The document has been in the hands of the Secretariat since 14-Jun-2019. According to Tom Gannett, the document will be in the next batch of CESG/CMC "approval to publish" polls. NOTE: There are currently zero CESG Polls in progress.  | None, except to wait for Secretariat to create poll.   |
| e) NDM/XML: On the day of the telecon (afterwards) an updated version of the schema set (Version 1.0.C) for 'elementFormDefault="qualified"' was posted on the SANA in order to accommodate the Re-Entry Data Message schema. Some work preparatory related to this 505.0 update was included in this schema set update. An updated draft (P1.0.2) is anticipated before year end 2019. | To David: Prepare NDM/XML P1.0.2   |
| f) NEM: Distribution of the first NEM White Book is delayed. Alain is the Lead Editor for both the NEM and the ADM Version 2 update, which has higher priority.   | To Alain: Produce NEM White Book 1 after ADM P1.9 is distributed.  |
| g) ODM: A preliminary Pink Book version P2.39 draft was received 20-Nov-2019. The XML and ICS portions of the document will be revised, and then the P2.39 draft will be sent to the full working group for internal review. Updates to CCSDS Normative Annexes SANA Registries referenced by the ODM continue.   | To David: Prepare XML section for P2.39; send back to Dan.<br><br>To Dan: Prepare internal review version of P2.39 |
| h) PRM: The Navigation WG met with the MP&S WG during the Fall Meetings. Some questions were discussed and the need for a Corrigendum was identified. The Corrigendum has not yet been crafted.   | To Fran: work on Corrigendum and response to MP&S WG.  |
| i) RDM: Version 1 development, review, testing, and CESG Poll are complete. The CMC "approval to publish" poll is currently in  | To Alexandru, David: Wait for results of CMC   |

| Notes  | Action  |
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| progress, ending 28-Nov-2019. We hope to publish by the end of 2019.   | poll and evaluate need for action.                                  |
| j) TDM: See agenda item #4 above.  | See agenda item #4 above.   |
| 6. Other Topics  |   |
| None   | None. Determine course of action at Fall Meetings.                  |
| 7. Next Telecons   |   |
| Proposed Telecon Schedule (all Times UTC) <ul style="list-style-type: none"> <li>• 18-Dec-2019 14:00 UTC</li> <li>• 22-Jan-2020 14:00 UTC</li> <li>• 26-Feb-2020 14:00 UTC</li> <li>• 01-Apr-2020 13:00 UTC</li> <li>• 22-Apr-2020 13:00 UTC</li> <li>• 04-May-2020 Spring 2020 Meetings commence</li> </ul> | To David: Send out meeting invitation and Webex info as applicable. |