

CCSDS Navigation WG Telecon	10-Apr-2024
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Attendees: David Berry, Juan Crenshaw, Daniel Fischer, Cheryl Gramling, Julie Halverson, Hideaki Hinagawa, Alain Lamy, Jose Miguel Lozano, Dan Oltrogge, Brian Swinburne, Patrick Zimmerman.

Notes	Action
1. CESG/CMC Poll Status	
<ul style="list-style-type: none"> • See "NDM/XML" in "Document Status" section. • See "PRM" in "Document Status" section. • See "CDM" in "Document Status" section. 	None
2-5. Document Status	
<ul style="list-style-type: none"> • The status of selected documents in progress was reviewed. Documents are sorted below in alphabetical order. 	To David: Report "simple" doc status to MOIMS AD.
<ul style="list-style-type: none"> • ADM: No discussion in this meeting. 	None
<ul style="list-style-type: none"> • CDM P-1.1: CMC Poll for CDM Agency Review passed, and Agency Review is in progress. The Agency Review commenced 01-Apr-2024 and will complete 31-May-2024. Brian indicated that he had downloaded the CDM Version 1 Test Plan/Report and was starting to take a look at it. 	To All: Inform interested parties about the review and the ability to comment.
<ul style="list-style-type: none"> • FDM: Vitali was unable to attend, so no new status. 	To Vitali: Prepare FDM White Book 1 for discussion at Spring Mtg.
<ul style="list-style-type: none"> • LDM: Dan was not sure about being able to have a first White Book for the Spring Meetings due to several other commitments. David suggested that for the first LDM White Book, Dan should focus on the material that will be unique to the LDM, and not include material that already exists in other Nav WG standards (preparation for Navigation Composite Message). A time slot has been reserved on the agenda for the LDM. 	To Dan: Prepare LDM White Book 1 for discussion at Spring Mtg.
<ul style="list-style-type: none"> • Navigation Data - Definitions and Conventions (NDDC): David thanked Julie for preparing material for the SANA Registry on the operations on quaternions. 	To David: Submit Julie's response to SANA for posting.
	To David: Prepare NDDC Corrigendum
<ul style="list-style-type: none"> • Navigation Data Messages Overview (NDMO): Not discussed in this meeting. 	None
<ul style="list-style-type: none"> • NCM (Navigation Composite Message): A time slot has been reserved on the Spring Meeting agenda. David noted that this work product has not yet been updated. We will proceed with FDM and LDM development with the expectation that the NCM project will be approved. 	To David: Update NCM Concept Paper

Notes	Action
<ul style="list-style-type: none"> • NDM/XML 4.0 Specification: The CESG Poll for NDM/XML V.4 Agency Review appears to have completed successfully (4 of 6 Areas approved). • 	None. Wait for results of CMC Poll.
<ul style="list-style-type: none"> • NEM: Alain indicated some progress given that he and Frank have been working on a White Book 1.0. A time slot has been reserved on the Spring Meeting agenda. 	To Alain & Frank: Complete initial White Book for Spring Meetings.
<ul style="list-style-type: none"> • ODM: No discussion in this meeting. 	None
<ul style="list-style-type: none"> • PRM: CESG Poll for PRM Reconfirmation appears to have completed successfully (4 of 6 Areas approved). 	None
<ul style="list-style-type: none"> • RDM: No discussion in this meeting. 	None
<ul style="list-style-type: none"> • SANA: Only discussion was related to meeting with the SANA Team in Washington, DC. 	<p>To David: Confirm SANA attendance at Spring Meetings.</p> <p>To David: Submit material for new row on quaternion multiplication formulations for SANA "Attitude & Spacecraft Conventions" Registry.</p>
<ul style="list-style-type: none"> • TDM: Juan indicated that he has completed all of the applicable TDM P-2.0.2 version, but there are still a few areas that require discussion. 	To David: Prepare "Divide & Conquer" review assignments.
<p>6. Action Item Update</p>	Action
<ul style="list-style-type: none"> • We went through the Action Item list from the Fall 2023 Meetings, adding new actions, updating status and target dates of existing action items. 	To All: Work on action items as time permits.
<p>7. Any Other Business</p>	Action
<ul style="list-style-type: none"> • David showed a "Draft 1" of the Spring Meeting agenda, which features moderately large chunks of time for the standards that have not gotten much attention yet: NEM, LDM, FDM. Several suggestions for additional topics were gathered: add Lunanet Concept Paper discussion, check with CSTS regarding need for meeting, check with SANA Team regarding joint meeting, check with Delta DOR regarding joint meeting, add short item on ISO Revisable Figure requirement. • Daniel Fischer expressed great interest in the LunaNet Concept Paper that had been prepared by Cheryl and Juan. It will be helpful to him for the Lunar Interoperability Forum to be held the week following the Spring Meetings. • Jose Miguel reminded David he should reiterate the invitation to the TraCSS personnel to register for the Spring Meetings. 	<p>To David: Modify agenda according to suggestions.</p> <p>To David: Check with CSTS WG regarding need for joint meeting.</p> <p>To David: Check with Delta-DOR WG regarding need for joint meeting.</p> <p>To Cheryl: Prepare a couple of LunaNet bullet</p>

Notes	Action
	points for Daniel, for a meeting to be held 1600 CEST 18-Apr-2024 To David: Invite TraCSS personnel
8. Next Telecons/Meetings	Action
<ul style="list-style-type: none"> 29-Apr-2024 through 03-May-2024 Spring Meetings at Washington, D.C., USA 	To David: Send out MS Teams invites