CCSDS Navigation WG Telecon	11-Jan-2017

Attendees: David Berry, Frank Dreger, Dale Force, Cheryl Gramling, Ralph Kahle, Alain Lamy, Alexandru Mancas, Dan Oltrogge, Julie Thienel, Dave Vallado, Patrick Zimmerman

Notes	Action
1. Maneuver Description Requirements Refinement (Main Topic)	
Cheryl led the group through a few final, minor adjustments to the Excel spreadsheet containing maneuver description requirements. The group thanked her for the great job pulling the requirements together and managing the process. Dan agreed that at this point he would be able to resume progress on the OCM maneuver description. We will discuss at the Spring Meetings whether or not an analogous ACM makes sense (in the meantime, we have plenty of other ADM work to do); Julie reminded us that there are NHM considerations with respect to the maneuver description as well. David indicated that he would need to think about the appropriate CCSDS vehicle for recording and publishing this work. Cheryl's action item was closed, complete.	• To Cheryl: Send out final updates to requirements. • To David: Upload finalized requirements to CWE. • To David: Think about how this work should be incorporated into other documents or published in an appropriate CCSDS document.
2. Document/Action Item Review & Status	
Most of the Action Items involve documents, so there is intertwined status of documents and their respective action items below. Documents are sorted below in alphabetical order.	• None
a) ADM: Alain has received a few comments on the ADM P1.3 at this point. We extended the review period into February. Alain indicated he could produce an ADM P1.4 by mid-February. Thinking forward, it's conceivable that we could have a P1.5 in mid-April as the version discussed at the Spring Meetings. As noted above, Alain asked as to whether or not we would be doing an "Attitude Comprehensive Message" by analogy with the OCM. This is more or less implied by the maneuver requirements. David suggested that there is plenty of ADM work we can do prior to the Spring Meetings, and we'll discuss "ACM" at that time.	a) To All: review the document, as assigned. • To David: Add ACM discussion to Spring Agenda.
b) CDM: No discussion required.	b) None
c) EVM: See discussion of the 5 Year Plan below.	c) To David: Add EVM discussion to Spring Agenda.
d) Navigation Data - Definitions and Conventions V3.3: Dale indicated that he had received some comments, and that we could extend the review period into February. Thinking forward, it's conceivable that we could have a version 3.4 by	d) To All: Review the 3.3 draft as assigned.

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end of March as the version discussed at the Spring Meetings.	
e) Navigation Data Messages Overview Green: No discussion.	e) None
f) NDM/XML: No discussion	f) None
g) NHM: Julie has an action item to discuss the SM&C Parameter and Conversion Services with Dan Smith for possible use in NHM. She is also considering NHM maneuver data requirements and issues with respect to a potential "Attitude Comprehensive Message".	g) To Julie: Continue research into viability of NHM concept.
h) ODM: Dan had indicated during discussion of the maneuver description requirements that he can now continue work on the ODM P2.36. He will shoot for the current action item date, so it was not adjusted.	h) To All: Review ODM P2.35 and provide comments to Dan in preparation for meeting discussions.
i) PRM: David noted that Fran would not be able to attend, but had provided a status of the PRM prototype testing; he has received submissions for 60% of the test cases. Judging of the submissions has not yet occurred, but Fran is providing comments to the testers as needed. Several changes in the templates and the PRM document itself have already been necessary in this testing, which shows the value of the prototyping process.	i) To All: Continue working assigned PRM test cases.
j) RDM: Alexandru stated that he had received some comments on the RDM, but won't be working on them right away. The review period for White Book 1 was extended to end of February. Alexandru will be targeting a White Book 2 for the end of March.	j) To All: Review the RDM White Book 1 and provide comments to Alexandru.
k) TDM: David had distributed the TDM P1.0.4 only a few days prior to the meeting, so discussion was premature.	k) To All: Review the TDM P1.0.4 and provide comments, focusing on the new/changed material.
3. Nav WG 5 Year Plan	
We reviewed the draft Navigation WG 5 Year Plan after David explained the method by which it had been constructed. One aspect of the plan was that documents for which we do not yet have an official project, or documents that have an uncertain future, were flagged in red text (in particular, EVM, SPM, LDM). As we went through these documents, there were a couple of points: • David suggested that we may want to get started on an Events Message (EVM) project given that we spent time on event timing requirements. The EVM is now a draft project. • Dan suggested that the Spacecraft Perturbations Message (SPM) should be removed from the 5 Year Plan. David pointed out that	• To David: Add EVM and discussion topic to Spring Meetings agenda • To David: Remove the SPM from the 5 Year Plan, and distribute updated draft 5 Year Plan. • To David: Ask Mario Merri to remove the SPM Draft Project.

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we also had a draft project in the system that would need to be removed. • Dan suggested that the need for the Launch Data Message (LDM) seems to be increasing, from his point of view. David indicated he would add an agenda item for Spring to discuss.	• To David: Add LDM discussion topic to Spring Meetings agenda • To David: Upload the revised 5 Year Plan to CWE.
4. Other Discussion	
None	• None
5. Set Next Telecon	
• Next telecon: 08-Feb-2017, 1300 UTC • Proposed Telecon Schedule (up until to Spring Meetings) • 08-Mar-2017, 1300 UTC • 05-Apr-2017, 1300 UTC • 26-Apr-2017, 1300 UTC (final Spring Meeting Prep)	• To David: Create meeting invitation and Webex for February telecon