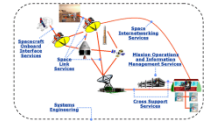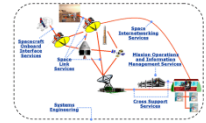# Mission Operations & Information Management Services (MOIMS) Area Navigation Working Group

Mario Merri (AD)
Brigitte Behal (DAD)
David Berry (Chair)
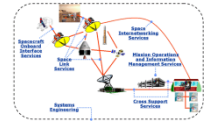Frank Dreger (Deputy Chair)

Navigation (NAV) Working Group: Documents (1/2)

- **Navigation Hardware Message (NHM)**
  - **Completed comprehensive discussion of comments/issues arising from internal review of NHM White Book 12**
  - **Initiated NHM White Book version 15 with meeting discussions**
- **Attitude Data Messages (ADM)**
  - **Initiated review of ADM P1.1 containing 5 Year Revisions to the ADM; completed discussion of APM**
- **Pointing Requests Message (PRM)**
  - **Completed comprehensive discussion of conditions placed on starting Agency Review by the CESG**
  - **Believe the book is ready now for Agency Review**
  - **Initiation of CMC Red Book Poll anticipated before year end**
- **Events Message (EVM)**
  - **Continued discussion of orbital events potentially pertinent to a Navigation Events Message; discussed with Service Mgmt WG**
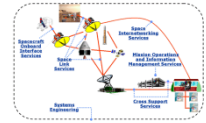
Navigation (NAV) Working Group: Documents (2/2)

- **Orbit Data Messages (ODM)**
  - **Completed review of WG member comments on ODM P2.30 and P2.31**
  - **Initiated ODM Pink Book P2.32 based on meeting discussions**
- **Spacecraft Maneuver Messages (SMM)**
  - **Completed discussion of fundamental data requirements for the Maneuver Planning Message (MPM)   (SMM WB4)**
- **Navigation Data Messages / XML Specification**
  - **Completed 5 Year Review discussion; "REVISE" decision (neither retirement nor reconfirmation is viable)**
- **Tracking Data Message (TDM)**
  - **No discussion, agenda too full given 4 day meeting.**
- **Navigation Data – Definitions & Conventions Green Book**
  - **No discussion, agenda too full given 4 day meeting**
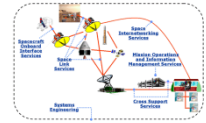
Navigation (NAV) Working Group

- **Cross-Area Meetings & Technical Issues**
  - **ISO TC20/SC14 representative was present all week**
  - **Completed joint meeting with SM WG on Events Message topics**
  - **Completed participation in SEA Reference Architecture meeting**
  - **Completed joint meeting with SM&C WG on Navigation Services**
- **Administration**
  - **Two WG members completed the CCSDS Editor's Boot Camp (this constituted the entire Monday class)**
  - **Completed discussion of Nav WG "Good Citizen Guidelines"**
  - **Continued discussion of Navigation Data Message Consistency**
  - **WG Charter: Reviewed charter, no changes made (but in pending status).**
  - **Document Schedules: Updated schedule for Nav GB V.4**
  - **Project Resources in Framework: No changes**
  - **Navigation Working Group 5 Year Plan: No time given 4 day mtg**
  - **Attendance: Representatives from CNES, DLR, ESA, NASA, ISO TC20/SC14, RFSA; from 12 to 15 participants each day**
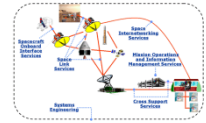
Navigation (NAV) Working Group

- **Issues**

  - **We have many books in progress; consequently it is difficult to get detailed commentary on the new drafts. We are still recovering from the 2.5 year long "laser focus" on the CDM that caused significant delays to occur in other work.**

  - **Could not support XSG SIG or SANA Steering Group... cannot attend during 4 day meetings due to full agenda.**

  - **Recent and pending losses of 3 long term WG members will cause a loss of continuity and rhythm**

- **Overall Assessment**

  - **Made satisfactory progress catching up on items delayed by intensive work on CDM (ADM, NHM, ODM, PRM, EVM, SMM)**

  - **No progress on TDM, Green Book**

Status:	OK	CAUTION	PROBLEM
	x		

Navigation (NAV) Working Group

- **Requested Feedback Items**
  - **None**
- **Unsolicited Feedback Items**
  - **Facilities:**
    - **Location was excellent... Darmstadtium is an excellent facility**
    - **Opening Plenary activities (CCSDS and MOIMS) took about an hour longer than usual... we should strive to keep this short, especially during 4 day meetings**
    - **Meeting room was spacious and well equipped. It was nice to have a room key for security reasons**
    - **It was nice to have a meeting room in which we could open the windows if we liked! (sometimes got a bit warm)**
    - **Meeting room materials (access to power, projection capability, light control) were excellent**
    - **Wireless connectivity was very good... no reported problems**
    - **Provision of refreshments (coffee, tea, water, lunches, etc.) was good**

Navigation (NAV) Working Group

- **RESOLUTIONS Issued**

  - **Resolution 1:**

    - **The Navigation WG believes that the conditions placed on the PRM Agency Review by the CESG have been resolved, and request that the CMC Poll begin as soon as possible, followed by the Agency Review.**

  - **Resolution 2:**

    - **The Navigation WG requests approval to add to the Framework a project to update the Navigation Data Messages XML Specification (5 Year Revisions) .**

  - **Resolution 3:**

    - **The Navigation WG expresses appreciation to the staff of ESA/ESOC and the staff of the Darmstadtium for their excellent support of these meetings.**