



INTERAGENCY OPERATIONS ADVISORY GROUP

IOAG-17c Meeting

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Prepared by: Stephanie Wan, IOAG Secretariat

Date: 17 September 2013

IOAG-17c Meeting Minutes
Teleconference
17 September 2013
12:00 – 15:00 UTC

Attendance:

Chair: Michael Schmidt

Secretariat: Stephanie Wan

Members:

ASI: Giovanni Valentini

CNES: Jean-Marc Soula

CSA: Kenneth Lord

DLR: Martin Pilgram

ESA: Francois Allard, Nestor Peccia, Josep Rosello, Enrico Vassallo, Gian-Paolo Calzolari

NASA: Phil Liebrecht, Bernie Edwards, Les Deutsch, Mike Kearney, John Rush, Wallace Tai, JJ Miller

JAXA: Tsutomu Shigeta, Takanori Iwata

Observers:

UKSA: Peter Allan

CNSA: Gan Yong, Li Lijie

1) Opening/ Introduction of IOAG participants:

The Chair opened the IOAG-17c teleconference meeting noting that there were new organizations participating such as the Canadian Space Agency (CSA) and the China National Space Administration (CNSA).

The IOAG delegates introduced themselves. CNSA commented that they have participated in IOAG in the past, but now would like to get more familiar with the organization to conduct closer cooperation. The Chair requested that CNSA do not hesitate in contact IOAG for further information.

2) Summary of on-going activities:

The Chair summarized recent and ongoing activities the IOAG has been working on. He highlighted that the IOP-3 meeting in June was successful, triggering the completion of the SIGS work, the continuation of several ongoing activities such as the assessment of the optical links and the establishment of the MOSSG to define Mission Operations services.

3) Secretariat's Report:

The Secretariat provided an update on outstanding action items, and minutes for approval. The IOAG-17 and 17a minutes were approved, but there were updated IOAG-17b comments from CNES that were not shared in time.

Wallace Tai reported on action item 17-04 "Concerning the clarification of which RF, Modulation and Coding standards are used by the IOAG Members in the context of the cross support catalogs, NASA (W Tai) and DLR (M Pilgram) to support in identifying list and providing definitions on what the use domains and available standards are." He recommended the 3rd option moving forward, which would assign the issue to an IOAG working group. Mr. Phil Liebrecht noted that NASA supports the approach. Mr. Calzolari commented that ESA would need to further discuss the recommendations internally. While all agencies will need to internally discuss the recommendations and provide feedback in the next two months at the next teleconference, so that additional preparation is done prior to the face to face meeting. AI 17-04 is considered closed and new action item, canceling and superseding the AI 17-05, was created to have agencies discuss the recommendations presented by Wallace Tai and Martin Pilgram.

AI 17c-01: All agencies to internally discuss the recommendations provided in AI 17-04, and provide a reply by the next teleconference. [Assigned to: All IOAG Members; Due Date: 8 November 2013]

4) CCSDS Updated Report:

Mr. Peccia provided an update to the CESG report. Currently the approved polls for publications for 2 green books (SSI Architecture and Cross Support Architecture Description Document) and 2 blue books (CDM and D-DOR Raw Format). The CFDP and DDOR topics could be considered basically as closed as far as the IOAG is concerned. A BOF will be created regarding the Optical Links. He then asked for the historical status for the Yellow Book Operating Plan, the Green Book Glossary, and the LDPC Orange book. He mentioned that there will be a CESG teleconference tomorrow, and would give an update on the progress. At the meeting, they will have particular issues to address, such as working to re-baseline the resources.

It was agreed that the SISG and OLSG would be kept in dormant mode but their co-chairs will monitor the progress of technology and demonstrators, and report to the IOAG as appropriate.

5) Terms of Reference (ToR) of the MOSSG:

Mr. Francois Allard presented the background of MOSSG. He noted that the general objectives are twofold: to provide recommendations to CCSDS, and to provide recommendations to the IOAG for infusion to space agencies. The deliverables would include a report on strategies for cross support of Mission Operations, a draft Service Catalog 3, and prioritized recommendations for CCSDS MOIMS via the CCSDS-IOAG processes like the ICPA. The co-chairs have contacted all of the people that have been assigned by their agencies to participate in the MOSSG so far. There was a discussion of closing the action item to IOAG members for identifying

participants in the MOSSG. Mr. Kearney suggested keeping the action item open for one more IOAG meeting cycle, to encourage additional membership. There was also a discussion about whether the Mission Operations Services of CCSDS would be adopted only by new programs, or if existing programs such as ISS would also adopt MO Services. Mr. Kearney said that of course adoption is voluntary, not mandatory, and every program (past and future) will make their own decision. While ISS seems to be stepping up to new DTN protocols, there is not yet a similar movement to adopt MO Services operationally.

The ToR's were commented and approved with changes to be made on i) no mention of a precise 18 months objective and ii) clarification that "commercial entities" should be replaced by "operators".

As a spinoff of the MOSCG discussion, the IOAG agreed to create a separate Emergency Service related WG, which mainly deals with the communications and navigation related aspects, as these issues don't fit into the MOSSG. At a later, time, the MOSSG will address the cross support of Mission Operations (application layer).

6) Review of Work Plan:

The Chair provided an updated future work plan based upon the inputs from the IOAG delegates over the past months. He noted that for ISECG, while the text can be left as is for the time being, there needs to be more input, especially on interaction and coordination. As for CCSDS, the text is currently good and the two organizations need to exchange reports. For SFCG, the IOAG delegates agreed to continue to have the current set up. For MOSSG, the IOAG participants believed the text was captured accurately. For the 26GHz Study Group, there were no additional comments.

For ICG, Mr. James Miller (ICG-IOAG liaison) asked about whether there would be action items for ICG activities.. He further emphasized that the IOAG Chairman's attendance at the upcoming ICG would be greatly valued, especially to highlight key issues such as spectrum protection. He noted that the US government compiles objectives papers, and suggested that ESA may do the same. That way, the objectives will help enhance the reference frames of all the systems. Mr. Miller offered his assistance at the IOAG, and to make a power point briefing that provides an updated overview of IOAG. The IOAG delegates agreed to this, and that the member agencies would coordinate with their ICG representatives on attendance.

AI 17c-02: IOAG Members to coordinate with their ICG representatives on IOAG attendance.
[Assigned to: All IOAG Members; Due Date: 8 November 2013]

For the OLSG, the plan was to keep the working group around and report back in the long term. Since the second bullet on "The IOAG is to assess the needs for standardization in the context of optical link communications and to provide appropriate guidance to CCSDS. The establishment and organization of relevant WGs is under the responsibility of the CCSDS" is already

completed; the question was raised to see whether it needed to be changed to reflect that. With regards to the ICAO issue, there has been no movement forward.

For the SISG, there were discussions with regards to follow up on the information that has been completed and collect further progress. For the bullet “The IOAG is to keep track of the evolution of the space internetworking and to report back to the next IOP,” the IOAG members suggested that it should be done within the SISG group instead of IOAG. This means that the SISG will be reactivated temporarily if necessary.

It was further noted that an updated Terms of Reference is currently missing and an Emergency Working Group is the only new major work that will be introduced.

AI 17c-03: IOAG Secretariat to share the Terms of Reference and documents on procedures. [Assigned to: Secretariat; Due Date: 11 October 2013]

7) Review of ICPA Priorities:

With regards to the IOAG top priorities, CNES noted that they have answered the action item to provide high priority comments for CCSDS in AI 17b-01. The IOAG asked Mr. Gian Paolo Calzolari to update the ICPA in order for the members to have a dedicated ICPA to review. Some members commented that the priority list did not all translate to CCSDS products and are targeted for different organizations. It was agreed that the ICPA should reflect the input of all the agencies with all members providing comments for updates. It was agreed that there should also be feedback from other agencies for ICPA priorities and should be distributed around. DLR commented that Mr. Calzolari should provide a proposal prior to changes. It was agreed that Mr. Calzolari and Mr. Soula would circulate the information and all IOAG members would provide input.

AI 17c-04: Gian-Paolo Calzolari and Jean Marc Soula to develop updated ICPA (IOAG CCSDS Product Agreement) document. [Assigned to: Calzolari and Soula; Due Date: 7 November 2013]

With regards to the top 10 priority list, ESA noted they have provided their input. However there may need to be some clarifications as each agency provides their proposal and have a list of input items that needs to see where it overlaps. This would be a key topic issue. CNES noted they have only provided the top priorities. Some agencies have yet to provide inputs and it was raised that the implementation should be at the same level of priorities that was discussed in the development of standards and whether to keep the same priorities, or have new priorities for discussion at the next meeting.

8) Letter to IOP Delegates:

The Chair noted that a letter was sent to the CSA, CNSA, ISRO and RFSA after the IOP-3 was completed. As seen with CNSA and CSA’s participation at IOAG-17c, there is good interest from the two organizations. However, there has not been any feedback from ISRO and RFSA.

9) Discussion on Way Forward (future planning):

The Chair discussed the next face to face meeting that was agreed at IOAG-17b to be around the winter/early spring of 2014. JAXA noted that while it would be possible to host the next IOAG, they preferred ASI to host this turn and be the backup host. ASI re-confirmed their ability to host IOAG-18 in Rome. CCSDS noted that after their meeting in December 2013, that they can identify their need dates when IOAG is to provide the comments. Furthermore, there is a technical workshop at the end of March where the IOAG comments could be further discussed. Furthermore, there is a technical workshop at the end of March where the IOAG comments could be further discussed.

It was agreed that the next face to face meeting would be held the week of February 12-14, 2014 in Rome Italy.

10) Conclusion:

The Chair noted the meeting was reaching the time limit and that all items on the agenda have been addressed. He requested whether there were any additional comments to be raised, and hearing none, concluded the teleconference.

ACTION ITEMS

AI 17c-01: All agencies to internally discuss the recommendations provided in AI 17-04, and provide a reply by the next teleconference. [Assigned to: All IOAG Members; Due Date: 8 November 2013]

AI 17c-02: IOAG Members to coordinate with their ICG representatives on IOAG attendance. [Assigned to: All IOAG Members; Due Date: 8 November 2013]

AI 17c-03: IOAG Secretariat to share the Terms of Reference and documents on procedures. [Assigned to: Secretariat; Due Date: 11 October 2013]

AI 17c-04: Gian-Paolo Calzolari and Jean Marc Soula to develop updated ICPA (IOAG CCSDS Product Agreement) document. [Assigned to: Calzolari and Soula; Due Date: 7 November 2013]