

IAA International Study Group on *Space Systems Cross-Compatibility*
Minutes of Meeting at IAC2008, Glasgow, 2nd October 2008

Present:

Name	Organisation	Phone	Email
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Jaime welcomed all and short introductions were given by all participants.

Jaime suggested that one of the driving principles of the group is to reduce mission cost through widely-adopted interface standardisation and PnP principles right from platforms to launch vehicles and ranges.

There was some discussion of other groups and related standards:

1. CANEUS
2. CCSDS SOIS
3. ISO
4. IAA study group on Integrated System

Jaime proceeded to go through the study outline and look at contributors. The following were missing from the meeting, and have not been contacted:

1. Susan McKenna-Lawlor
2. Guy Pignolet
3. Paul Williams

Fred Slane suggested that the OECD did a study which came up with 4 ways in which space can benefit humanity and that this might be an appropriate place to start for

structuring the introduction to section 1.e (**Action:** Fred Slane will provide this report to all)

There were some general concerns as to the relevance of section 1.e, especially in the absence of Guy Pignolet. If Guy cannot be contacted, the introductory content for this section may have to be revised. (**Action:** Jaime to attempt to contact Guy, if not possible, he will report this to the group and a decision will be made)

Linda suggested that the emphasis placed on speed by developers such as the ORS programme should be addressed by a section in the study. There was some debate as to how relevant time savings are to civilian space missions/programmes.

There was some discussion as to how helpful standards are to innovation and cost reduction (especially “faster, better, cheaper”). Jaime suggested that standardising the interfaces is appropriate, whereas any more than that is excessive and limiting.

Klaus pointed to the example of CubeSats, which provides a very useful mechanical specification. Aaron suggested that whilst the CubeSat experience is valuable for the nano/pico class, the experience is not transferable across spacecraft classes. Jaime suggested that the study needs to be independent of class boundaries. This was generally agreed with.

Paul emphasised the following principles: simplicity and leave customisation until as late in the process as possible. He drew on the example of Toyota and their waste reduction principles.

Aaron suggested that cross compatibility allows for systems to evolve: dynamic systems, technology insertion.

Fred Slane asked to cover the architectural section.

General agreement: standard interfaces, not standard components. Rhoda suggested that there are two categories of things involved in space programmes: mathematical, definable; and decisions to be made. (**Action:** Rhoda to find papers on this topic and circulate to all)

Linda suggested that the emphasis of the study group should be cross-compatibility, which will give rise to standards, as opposed to the emphasis of the study being standards themselves. Aaron suggested that we should focus on the practical application of cross-compatibility which necessitates a focus on standards. Jaime will add content to section 2 which defines the boundaries on what this study will consider.

Action: All to contribute their assigned sections and to review the evolving document and make changes/additions as necessary. Please bring content to next meeting.

Action: Jaime will have revised structure by next meeting.

Schedule: Aim to be finished by IAC in Prague (IAC2010)

Next meeting: at 7th IAA Symposium on Small Satellites for EO, Berlin, 4th May 2009

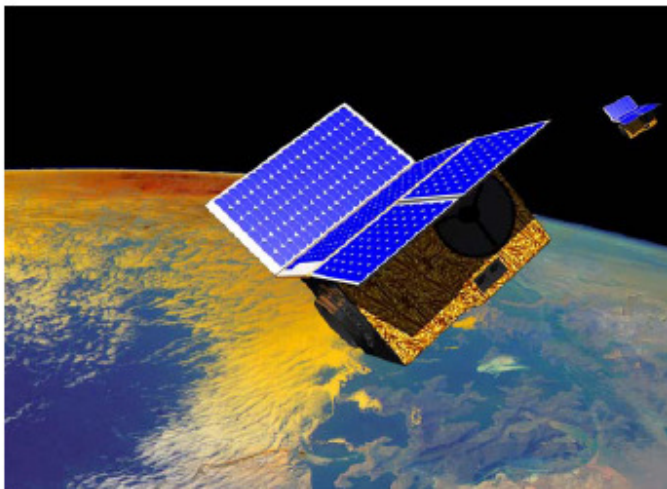
Action: Attach call for papers for Small Satellites for EO to minutes

7th IAA SYMPOSIUM

Final Announcement

ON SMALL SATELLITES

FOR EARTH OBSERVATION



Composition photo: DLR

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