

Space Avionics Open Interface Architecture

Space industry has recognized for quite some time already the need to raise the level of standardisation in the avionics system in order to increase efficiency, reduce cost and schedule in the development and thereby increase competitiveness.

The Space Avionics Open Interface Architecture Initiative is the response to this need and encompasses many ongoing and planned efforts towards this vision, among others: Software Architectural Studies CORDET and DOMENG, CCSDS SOIS standardisation, AOCS System Studies, Avionics Building Blocks initiative and many others.

The objective of the round table is to review the status of these initiatives, to report on the progress made since the ADCSS 09 workshop and to debate on the needed critical steps to achieve the vision. This will include the particular view of the CNES ISIS initiative and of the JPL architecture. The discussion will address the way to go from concept to implementation, using the concepts of generic functional building blocks specification, reference functional architecture, and interface specification standards.