CCSDS SOIS Area Fall 2015
SOIS Subnetwork and Application Support Services WG (23\textsuperscript{st}) Meeting
Agenda

9\textsuperscript{th} – 12\textsuperscript{st} November 2015

Objectives:

- Discuss overall SOIS architecture
  - In context of real-time and deterministic systems
  - Missions
  - CCSDS SEA
- Review and disposition RIDs on SOIS Electronic Data Sheets for Onboard Devices (CCSDS 876.0-R-1)
- Plan next revision of SOIS Electronic Data Sheets for Onboard Devices
  - Include MTS interfaces
  - Disposition GitHub tickets
- Plan work for new books
  - NASA core Flight System (cFS) as a CCSDS Onboard Reference Architecture (Orange)
  - SAVOIR as a CCSDS Onboard Reference Architecture (Orange)
  - Spacecraft Onboard Interfaces Services User’s Guide (Green)
- Liaison with other CCSDS and external groups, inc. MOIMS, DTN, CFDP, SEA XML SIG

Notes:

1. Ramon Krosley will be representing SOIS-APP WG at SEA XSG SIG at some point during week and so topics will be revised to accommodate this.
2. Discussion topics are general, there will not be enough time to cover them all in depth
3. We will take 5-10 minute breaks every hour or so as needed

Monday 9\textsuperscript{th} November 2015

08:45 – 9:45
- CCSDS Plenary

10:00 – 12:30    SOIS Area Plenary, Martin Suess and Richard Barton

Lunch 12:30 – 13:30

13:30 – 17:30    SOIS Area Plenary, Martin Suess and Richard Barton
Tuesday 10th November 2015 (Joint SOIS-APP and SOIS-Subnetwork)

08:45 – 12:30

- Architecture discussion
  - Mission architectures
  - Hard Real-Time systems
  - Systems Architecture (SEA) working charts
  - Packet Utilization Service (PUS)
  - SOIS evaluation by ESA Prime contractors (Marek)
- SOIS mapping with MAL and MO services (MOIMS meeting prep)
  - Discuss based on MO architecture charts chart
- SOIS mapping to deterministic networks
- SOIS (DAS, DVS, DDPS, …) mapping in partitioned/distributed systems
- OSI layer mapping to EDS and SOIS architecture

Lunch 12:30 – 13:30

13:30 – 17:30

- Architecture discussion (continued)
- Characteristics (QoS) of deterministic systems
- SOIS mapping for DTN, CFDP (Include Sub-network interfaces)

Wednesday 11th November 2015 (Joint SOIS-APP and SOIS-Subnetwork)

08:45 – 12:30

- EDS tools
  - Joseph H. providing introductory presentation
  - Richard M. providing introductory presentation
- EDS mapping to ground/test systems databases (XTCE)

Lunch 12:30 – 13:30

13:30 – 14:20

- Mapping and tools (continued?)

14:30 – 15:30 (not joint-SUBNET only but using APPS room: Palladium - SOIS APP has joint mtg. w/ MOIMS)

- Opening introduction of new SUBNET WG (5 minutes)
- New WG character, goals & schedule of deliverables (30 minutes)
- Discussion and feedback (30 minutes)

15:30 – 17:30

- Document SIOS abstract interfaces/API mappings
- EDS and Common DoT Interoperability Testing
  - NASA JSC IPAS test needs
  - ESA test needs

Thursday 12th November 2015 (morning not joint; afternoon joint)
08:45 – 12:30 (not joint - room:Radon)

- Review & discuss current view of SOIS Sub-network services & related QoS (60 minutes)
- Discussion of supported data link protocols & their supported QoS (30 minutes)
- Deterministic networks – definition, use cases & implementations discussions (30 minutes)
- SOIS Sub-network architectural discussion with focus on how QoS and services are layered for SOIS agreed list of specified data link protocols (120 minutes)

Lunch 12:30 – 13:30

13:30 – 15:30 (SUBNET joint w/ APPS)

- Plan work for new books
  - NASA core Flight System (cFS) as a CCSDS Onboard Reference Architecture (Orange)
    - Jonathan providing introductory presentation
  - SAVOIR as a CCSDS Onboard Reference Architecture (Orange)
    - Marek and Richard M. providing introductory presentation
  - Spacecraft Onboard Interfaces Services User’s Guide (Green)
- 15:30 – 17:30
- Overall Planning, Reporting and Wrap Up