**SAWG Telecon Notes – Wednesday, 25 May 16, @ 0700 Pacific**

Attendees: Yonghui Huang, Ramon Krosley, Liangqing Lv, Peter Shames, Roger Thompson

Next meeting 22 June @ 0700-0900 Pacific

1. Provide SpaceOps material - PS
2. Exchange via email the specific content for next meeting
3. Clarify SOIS service interfaces and message contents (MOIMS are relatively well understood)

**Minutes**

* We reviewed the MOIMS black box and white box views rendered using the agreed formats

1. M&C (including automation & procedures)
2. Navigation
3. Planning
4. CM (including SW mgmt.)
5. Data Services (including archival if possible)

* *RT - Update charts to show the MOIMS changes we agreed to*, including adding the Archive functions and objects

1. See above for changes
2. Data archive will need coordination with that WG, they tend to not be services / more process oriented, with abstract definitions of info objects
3. May need some separate views (operational / process), may need an abstracted functional view to be agreed
4. *RT to contact David Giaretta to explore how this might be done*

* (Extra credit) add functions to reflect the audio and video services from SIS

1. These are not covered in MOIMS nor SCCS-ADD now, but do have applications level views
2. Video has high data flow requirements, both have “low” latency / jitter requirements
3. (SIS) Audio and video interface and playback services (may use MOIMS services to manage the data)
4. (SIS) A&V streaming uses COTS standards
5. Otherwise just uses underlying network/transport services and typical computing device (laptop) A&V functions (speaker, microphone, camera, display)

* We reviewed the SOIS black box and while box views rendered using the agreed formats, service interfaces and operations

1. Have added provided service interfaces
2. Currently show interface protocol characteristics
3. Need to show data type characteristics which may be missing or somewhat obscure in the standards

* *RK & YH - Update charts to show the SOIS changes we agreed to*, including fixing the DVS and showing clearly how EDS fits into the overall picture
* (Extra credit) describe how EDS fits into an overall view of SOIS development, I&T and V&V

1. EDS provides a vocabulary and language for describing data and interfaces
2. EDS can be used to define the SOIS service interfaces and the nature of the exchanged data (describe data structures, and the contents)
3. EDS can be used to describe SOIS services, but SOIS standards do not currently describe the exchanged data contents
4. EDS can also be used to define physical (device) or software (logical) components
5. Need to understand the relationships between EDS data packaging and SM&C data structures

* (More extra credit) *PS - provide info from Sec WG about security services and functions*

The picture of how EDS fits into this entire context is, I suspect, something that will need input from Glenn and Jonathan, so I have copied them as well.  If there are some well formed materials from those WG that we can use that would be the best.  And if we need to work together with SOIS to come up with materials that present these concepts in a form that is consistent with the rest of what we have done we can do that as a part of this work in a future meeting.

Use Cases

* Earth observing orbiters
* Astronomy / pointed Earth trailing
* Lunar / Mars surface / relay
* Deep space robotics
* Constellation (various kinds, cross links)
* GEO (or other) comms missions