**CCSDS Engineering Steering Group Minutes**

**15-16 November 2021, 15:00-19:00 UTC**

**Remote Meeting**

UTC: 1500

Los Angeles: 0700 São Jose dos Campos: 1200 Moscow: 1800

Montreal: 1000 London: 1500 Beijing: 2300

Washington, DC: 1000 Central Europe: 1600 Tokyo: 2400

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| **CESG Meeting – Monday, 15 November 2021** | **Action Item** |
| 1500UTC | 1. Call to Order - Welcome, Opening Remarks

The meeting was called to order and the participants were greeted by CESG Chair. | K.-J. Schulz |  |
| 1505 | 1. Roll Call

Klaus-Juergen Schulz (CESG Chair), Timothy Pham (CESG Dep. Chair), Tom Gannett (Chief Technical Editor), Mario Merri (MOIMS Area Director), Marc Duhaze (MOIMS Dep.Area Director), Ignacio Aguilar Sánchez (SLS Area Director), Gilles Moury (SLS Dep. Area Director), (absent) Jonathan Wilmot (SOIS Area Director), Xiongwen He (SOIS Dep. Area Director), (absent)Erik Barkley (CSS Area Director), Colin Haddow (CSS Dep. Area Director), Peter Shames (SEA Area Director), Hiroshi Takeuchi (SEA Dep. Area Director), (absent) Tomaso de Cola (SIS Area Director), Rodney Grubbs (SIS Dep. Area Director), Sami Asmar (CMC General Secretary, here: Observer) (joined at 16:35) | All |  |
| 1510 | 1. Agenda Review and Approval – approved, with 20 mins/presentation foreseen.
 | K.-J. Schulz |  |
| 1520 | 1. Status of Actions since Spring 2021 Meeting – as per Minutes of Meeting of Spring 2021
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| 155016201715173518001820 | 1. Area Reports (20 min each) – uploaded to CWE Folder
	1. MOIMS Area report (30)
	2. SLS Area report (30)
	3. SIS Area report (20
	4. SOIS Area report (25)
	5. CSS Area report (20)
	6. SEA Area report (35)
 | M. MerriI. AguilaT. de ColaJ. WilmotE. BarkleyP. Shames |  |
| 1855 | 1. Other topics
 |  |  |
| 1855-1900 | 1. Agenda for Day 2

The Agenda was reviewed.  | CESG Chair/All |  |

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| **CESG Meeting – Tuesday, 16 November 2021** | **Action Item** |
| 1500 | 1. Call to Order – Welcome / Opening Remarks

The meeting was called to order and the participants were greeted by CESG Chair. | K.-J. Schulz |  |
| 1505 | 1. Roll Call

Klaus-Juergen Schulz (CESG Chair), Timothy Pham (CESG Dep. Chair), Tom Gannett (Chief Technical Editor), Mario Merri (MOIMS Area Director), Marc Duhaze (MOIMS Dep.Area Director), (absent)Ignacio Aguilar Sánchez (SLS Area Director), Gilles Moury (SLS Dep. Area Director), Jonathan Wilmot (SOIS Area Director), Xiongwen He (SOIS Dep. Area Director), Erik Barkley (CSS Area Director), Colin Haddow (CSS Dep. Area Director), Peter Shames (SEA Area Director), Hiroshi Takeuchi (SEA Dep. Area Director), (absent)Tomaso de Cola (SIS Area Director), Rodney Grubbs (SIS Dep. Area Director), (absent) Sami Asmar (CMC General Secretary, here: Observer). | All |  |
| 1510 | 1. Agenda Review and Approval

The Agenda was revised and approved at end of Day 1. | K.-J. Schulz |  |
| 1515 | 1. CTE Document Queue
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| 15301530171517451800-1825-1845 | 1. CESG topics identified on CESG Day 1:
	1. Assessment of data representation aspects (e.g. MIB) in different CCSDS domains (see action item file line 9)*Separate meeting mid-January 2022 on topic 12.1.System management and configuration (Peter will take ideas and summarize); suggestion from Colin to invite Holger Dreihahn and Keith Scott and Mehran Sarkarati to the meeting*
	2. Status of Interaction CCSDS - ISO TC20 SC13*Sami will distribute the proposed agreement with ISO*
	3. Lunar PNT standardization*Bilateral affair between NASA and ESA. Bilateral meeting between SLS RFM and MOINS NAV and SEA TIME.*
	4. SOIS BB 883 Lunar communication spectrum usage*Johnathan will draft final version and coordinate with Peter Shames and I. Aguilar, aiming to issue Blue Book*
	5. LTP v1 and v2 incompatibility, How to handle*was not covered – Tomaso had to leave*
	6. Identification, authentication and access control*Peter has been asked to create a new work item;he is asking feedback from the CESG on the concept and potential liaison with IOAG on a security architecture*
	7. CCSDS in the Context of exploration mission*shifted to future meeting*
	8. 130.0 Overview of Space Comm Protocols GB*We want to rescope the SLS protocols and interface to the next higher layer and to address implementers concernedSLS to maintain the rescoped Green Book*
 | K.-J. SchulzAll (EB, JW, MM, TdC)S. AsmarI. AguilarPS, JW, IAT. de ColaP. ShamesJWI. Aguilar |  |
|  | 1. AOB
	1. SLS DC proposal for Deputy Chair person Lucana Santos
	2. SEA Delta DOR for Deputy Chair person Chris Volk, CESG poll ongoing
	3. It is noted that the CCSDS collaboration will be able to celebrate 40 years in 2022.*not covered*
 | AllI. AguilarP. Shames |  |
| 1900 | 1. Minutes of Meeting and preparation of topics for the Report to the CMC*KJS will prepare some slides for the CMC*
 | CESG Chair/All |  |
| 1910 - 1915 | 1. CMC Preparation
	* + 7-9 December 2021, virtual, 2 hours meeting each day @14:00-16:00 UTC. NOTE: presentation length max. 11 minutes per Area. Area director presentations planned for 1st day (7 Dec)
 | All |  |
| 1915 | 1. Action Item Review

All open actions were reviewed, see sep. document. | K.-J. Schulz |  |
| 1915 | Adjourn |  |  |