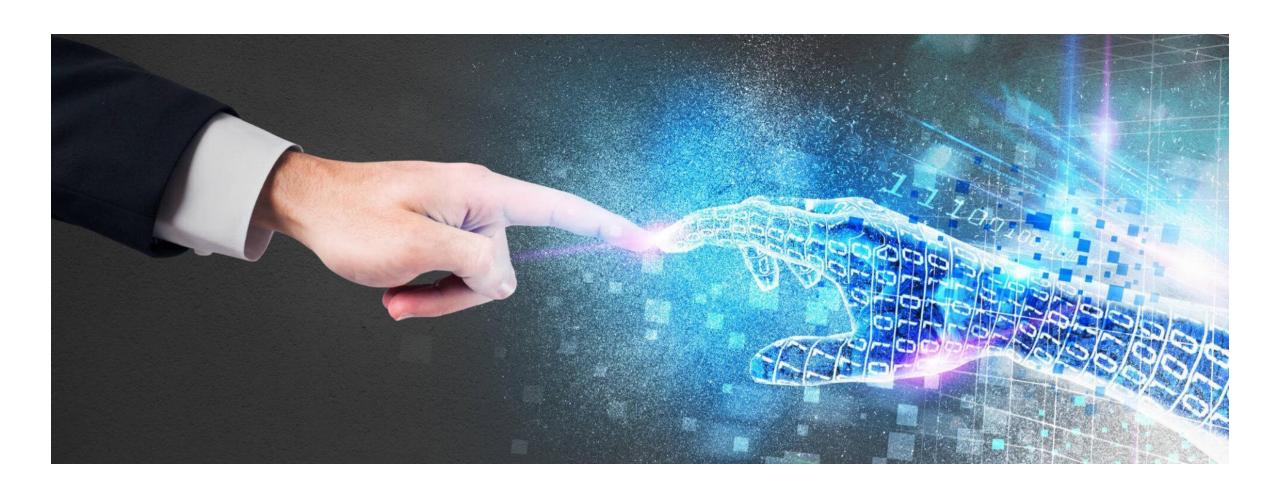


CCSDS SPRING 2024 TECHNICAL PLENARY



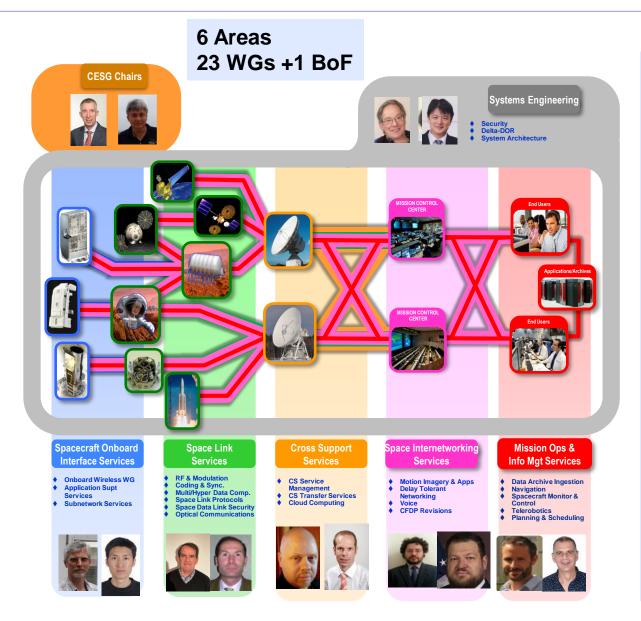


AGENDA

Time (UTC)	Duration	Topic	Presenter
09:30-09:45	15 minutes	Introduction	Sami Asmar - NASA/JPL – CCSDS Chair Klaus-Juergen Schultz – CCSDS Engineering Steering Group (CESG) Chair
09:45-09:50	5 minutes	SEA Workplan	Peter Shames – Systems Engineering Area (SEA) Director
09:50-10:00	10 minutes	MOIMS Workplan	Daniel Fisher – Mission Operations and Information Management Services (MOIMS) Director
10:00-10:05	5 minutes	CSS Workplan	Erik Barkley – Cross Support Services (CSS) Area Director
10:05-10:10	5 minutes	SOIS Workplan	Jonathan Wilmot – Spacecraft Onboard Interface Service (SOIS) Area Director
10:10-10:15	5 minutes	SLS Workplan	Ignacio Aguilar – Space Link Services (SLS) Area Director
10:15-10:20	5 minutes	SIS Workplan	Ivica Ristovski– Space Internetworking Services (SIS) Deputy Area Director
10:20-10:30	10 minutes	Adjournment	Klaus-Juergen Schultz – CESG Chair
			Sami Asmar- NASA/JPL - CCSDS Chair
			Amber Massaquoi - NASA – CCSDS Secretariat



Members of the CESG



CESG Chair Klaus-Juergen Schulz Timothy Pham Deputy **SEA Area Director** Peter M. Shames Hiroshi Takeuchi Deputy MOIMS Area Director Daniel Fischer Marc Duhaze Deputy **CSS Area Director Erik Barkley** Holger Dreihahn Deputy **SLS Area Director** Ignacio Aguilar Sanchez Gilles Moury **Deputy SIS Area Director** Tomaso de Cola 'Vinny' Ivica Ristovski Deputy **SOIS Area Director Jonathan Wilmot** Xiongwen He Deputy



CCSDS Publications since CCSDS Fall Meetings 2023

Blue Books - Recommended Standards

- CCSDS 521.0-B-3: Mission Operations Message Abstraction Layer (March 2024)
- CCSDS 504.0-B-2 : Attitude Data Messages (January 2024)

Magenta Books – Recommended Practices

- CCSDS 876.1-M-1: Spacecraft Onboard Interface Services-Specification for Dictionary of Terms for Electronic Data Sheets (March 2024)
- CCSDS 902.13-M-1 Cor. 1 : Technical Corrigendum 1 to CCSDS 902.13-M-1, Abstract Event Definition Issued February 2021 (February 2024)
- CCSDS 350.8-M-3: Information Security Glossary of Terms (February 2024)
- CCSDS 354.0-M-1: Symmetric Key Management (December 2023)

Orange Books

Green Books – Informational Reports

- CCSDS 140.1-G-2: Real-Time Weather and Atmospheric Characterization Data (April 2024)
- CCSDS 870.0-G-1: Electronic Data Sheets and Dictionary of Terms for Onboard Devices and Components (March 2024)
- CCSDS 350.5-G-2: Space Data Link Security Protocol-Summary of Concept and Rationale (Jan 2024)

Yellow Books

•



CMC Poll Statistics since CCSDS Fall Meetings 2023

Approval to publish:

- CCSDS 140.1-G-2, Real-Time Weather and Atmospheric Characterization Data (Green Book, Issue 2)
- CCSDS 521.0-B-3, Mission Operations Message Abstraction Layer (Blue Book, Issue 3)
- CCSDS 870.0-G-1, Electronic Data Sheets and Dictionary of Terms for Onboard Devices and Components (Green Book, Issue 1)
- CCSDS 876.1-M-1, Spacecraft Onboard Interface Services—Specification for Dictionary of Terms for Electronic Data Sheets (Magenta Book, Issue 1)
- CCSDS 350.8-M-3, Information Security Glossary of Terms (Magenta Book, Issue 3)
- CCSDS 901.3-M-1, Functional Resource Model (Magenta Book, Issue 1)
- CCSDS 902.13-M-1 Cor. 1, Technical Corrigendum 1 to CCSDS 902.13-M-1, Issued February 2021
- CCSDS 350.5-G-2, Space Data Link Security Protocol—Summary of Concept and Rationale (Green Book, Issue 2)
- CCSDS 504.0-B-2, Attitude Data Messages (Blue Book, Issue 2)
- CCSDS 354.0-M-1, Symmetric Key Management (Magenta Book, Issue 1)

Agency Reviews:

- CCSDS 508.0-P-1.1, Conjunction Data Message (Pink Book, Issue 1.1) for CCSDS Agency review
- CCSDS 506.2-R-1, Delta-DOR Architect ureal Guidelines (Red Book, Issue 1) for CCSDS Agency review



CMC Poll Statistics since CCSDS Fall Meetings 2023

Approval of new Projects

New Projects of the SEA Area

- CMC-P-2024-03-001 New 1.02 Security Working Group Project Magenta Book
- CMC-P-2024-03-011 New 1.02 Security Working Group Project Magenta Book

New Projects of the MOIMS Area

- CMC-P-2024-03-010 New 4.03 Onboard Wireless Working Group Project Green Book
- CMC-P-2023-12-003 New 2.02 Navigation Working Group Project Blue Book

New Projects of the SLS Area

- CMC-P-2024-03-008 New 5.09 Space Data Link Security Working Group Project Blue Book
- CMC-P-2024-03-009 New 5.04 Space Link Protocols Working Group Projects Blue Book

New Projects of the SIS Area

• CMC-P-2024-03-007 New 6.09 Delay Tolerant Networking Working Group Projects - Orange



CMC Poll Statistics since CCSDS Fall Meetings 2023

New Appointments:

• SPACE INTERNETWORKING SERVICES AREA (SIS) Deputy Area Director - 'Vinny' Ivica Ristovski

Request for Nominations:



CESG Topics Since Fall Meetings 2023

1. Lunar Communication:

• Comment to LunaNet Interoperability specification V5 (30 November 2023) based on Technical discussions in Working Groups, Areas and CESG.

2. Lunar Interoperability Forum:

• Preparation for event on 07 May 2024 between projects, standardisation community and industry/academia.

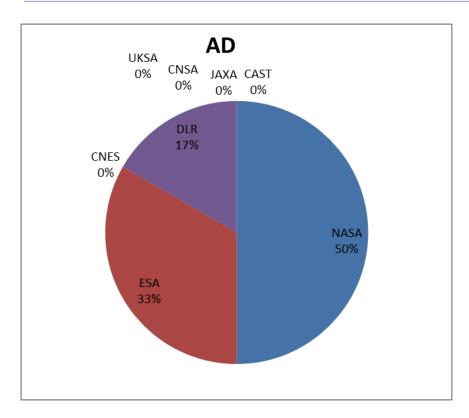


CCSDS Resources

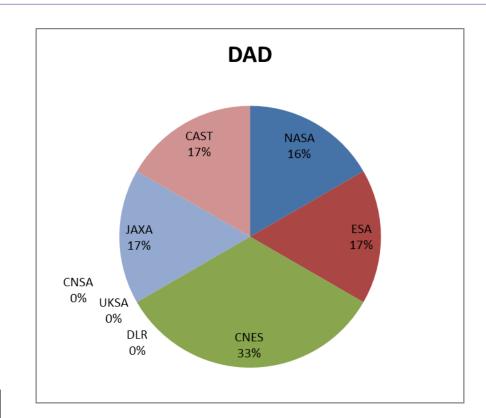
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					N	IAS.	Α			ESA			CNES							DLR					OTHER											
Area	WG	С	Со	ВВ	P1	P2	GB	МВ	ОВ	ВВ	P1	P2	Р3	GB	МВ	ОВ	ВВ	P1	P2	Р3	GE	3 M	ВВ	B F	21	P2	GB	МВ	ОВ	ВВ	P1	P2	GB	MB	ОВ	
SEA	SA	NASA						2																												
SEA	Security	NASA	ESA		1			2						1	1				1																	
EA	Time	NASA	ESA				1																													
EA	D-DOR	ESA	NASA			1		2		1	1																									P3=JAXA
MOIMS	DAI	UKSA	NASA		1			2				1										1								1			1	2		MBs,GB,BB=UKSA
IOIMS	NAV	NASA	ESA	3	4						1	3					1	1												1		2				BB, P2=UKSA, other
OIMS	SM&C	ESA	NASA			1	1			3	3	1		1			1	1	1							1		1								P2=DLR, MB=DLR
MOIMS	MP&S	ESA	CNES							1	1															1										P2=DLR
CSS	SM	NASA	ESA	1		1				1	1	1	1		1									1	2	1										P2=DLR, P1=DLR
CSS	CSTS	ESA		3	1			1		1		1																								
SOIS	APP	NASA	UKSA						1																								1	1		MB=AFRL (USA), OBs=NASA, GB=UKSA
SOIS	WIR	NASA	FSA	1	1				1																1							2				OB=NASA, P2=CSA (1) and JAXA (1), P1
SOIS	SNW	NASA	ESA					5																												
SLS	RFM	ESA	NASA			1				1	1																									
SLS	C&S	ESA	NASA	1	1	2				2	2	1																								
SLS	MHDC	NASA	ESA	1	1	2				1	1			1						2																P3=CNES
SLS	SLP	NASA	UKSA	4	2		2	1				1																				1				P2=UKSA
SLS	SDLS	CNES	NASA				1																													
SLS	OPT	NASA	ESA	1	1							3		1											2					1						BB=DLR
SIS	MIA	NASA	DLR	1		1	2																		1											P1=DLR
SIS	DTN	NASA	JAXA	4	2	1	2		1		1	1				1									1	1			1		1					P1=JAXA
SIS	VOICE	DLR	FSA																																	
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				20	15	10	9	15	3	12	12	13	1	4	3	1	2	2	2	2	0	1	. :	1	7	4	0	1	1	3	1	5	2	3	0	155
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Area Directors / Area Directors Overview









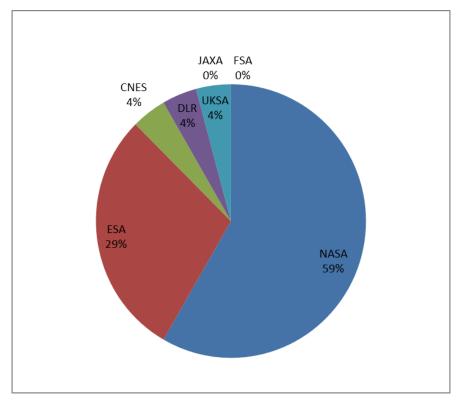
WG Chair / Deputy Chair Overview

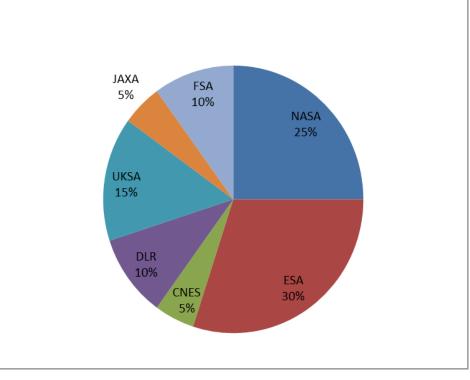
Area	WG	С	Со
SEA	SA	NASA	0
SEA	Security	NASA	ESA
SEA	Time	ESA	0
SEA	D-DOR	ESA	NASA
MOIMS	DAI	UKSA	NASA
MOIMS	NAV	NASA	ESA
MOIMS	SM&C	ESA	NASA
MOIMS	MP&S	ESA	CNES
CSS	SM	NASA	DLR
CSS	CSTS	ESA	0
CSS	Cloud	NASA	0
SOIS	APP	NASA	UKSA
SOIS	WIR	NASA	FSA
SOIS	SNW	NASA	ESA
SLS	RFM	NASA	ESA
SLS	C&S	ESA	NASA
SLS	MHDC	NASA	ESA
SLS	SLP	NASA	UKSA
SLS	SDLS	CNES	NASA
SLS	OPT	NASA	ESA
SIS	MIA	NASA	DLR
SIS	DTN	NASA	JAXA
SIS	VOICE	DLR	FSA
SIS	CFDP	ESA	UKSA

	WG Chair	WG Deputy Chair
NASA	14	5
ESA	7	6
CNES	1	1
DLR	1	2
UKSA	1	3
JAXA	0	1
FSA	0	2
Total	24	20

WG CHAIR









CCSDS Opening Plenary Spring 2024

Systems Engineering Area (SEA)

Peter Shames, Area Director Hiroshi Takeuchi, Deputy Area Director





Systems Engineering Area Status (1/2)

Security Working Group

- Plans
 - On-going work on Key Management GB, DTN/BPSec, and Intergov Cloud Certificate Authority (IGCA). Progress on new work items for Secure SW Engineering and new Space ATT&CK framework. New Deputy WG Chair.
 - Problems / Issues: Design of security architecture for DTN multi-mission space deployments needs attention for SSI Stage 2(a/b).

Systems Architecture Working Group

- Plans
 - RASDS++ draft, with integrated TC20/SC14 revisions, new ontology & representation views has been sent to Chief Technical Editor.
 External review with Agencies is next, including Systems Architecture experts.
 - SCCS-ARD revisions nearly complete, both ABA and SSI now quite well in hand. New, more compact, tabular format by Nodes types. New standards, including optical comm, USLP, SM, and many other revised documents included.
- Problems / Issues: We have a coherent group but very limited resources. NASA is the only agency actively supporting this CCSDS-wide Architecture work.

Delta-DOR Working Group

- Plans
 - MB on Architecture is under Agency Review. Raw Data Exchange File BB is under AD review. Work continues on Operations MB
 update. About to start GB revision. Considering updates to new Quasar flux database, as part of upcoming revision of DDOR
 Quasar catalogue MB.
 - PN DOR work: The related testing and YB reports have been generated, as required for the next RFM update.
- Problems / Issues: Small but effective working group.



Systems Engineering Area Status (2/2)

Time Management Working Group

- Plans
 - Working group has produced GB, at Tech Writer. Time Code Formats BB revised, updated and submitted to AD. Progress on the new project BB for time transfer, clock correlation, clock synchronization. Active participation by five agencies. New WG Chair, Deputy position is open.
- Problems / Issues
 - The LunaNet CPNT work, and other IOAG network requirements, are more extensive than the new BB, it may not be ready in time to be useful.

SANA and SANA Steering Group (SSG)

- Plans
 - BETA website incorporating ISO TC20/SC14 terms has been updated, being evaluated by SC14. Many new process and feature improvements, increased ease of use.
- Problems / Issues
 - AOS SCIDs are now all used. No more identical S & X band SCIDs are available. Agency HOD must assign Agency Representation (AR) to update their agency data in "Enterprise" registries. Service Site and Aperture (SS&A) registry access supports direct AR updates to apertures.



CCSDS Opening Plenary Spring 2024

Mission Operations and Information Management Area (MOIMS)

Daniel Fischer

29th April 2024





MOIMS Area Spring 2024 Status (1/2)

MOIMS Dep. AD – Candidate identified

Data Archive Interoperability WG (DAI)

CCSDS → ISO process is working fine

• Issues: None, Good progress

MB: 650.0 Open Archival Information System (OAIS): 5y revision
 Awaiting publication by CCSDS and ISO

• MB: 652.0 Audit and Certification of Trustworthy Digital Repositories: 5y revision Awaiting publication by CCSDS and ISO

MB: 653.0 Information Preparation to Enable Long Term Use (IPELTU)

Awaiting publication by CCSDS and ISO

• MB: 652.1 Requirements for Bodies Providing Audit and Certification of

Trustworthy Digital Repository: 5y revision

Awaiting publication by CCSDS and ISO

MB: 671.0 Open Archive Information Systems Interoperability

Framework (OAIS-IF) Architecture Description

BB: OAIS-IF Core Specification

GB: OAIS-IF Rationale, Scenarios and Requirements

Drafting

Drafting

Drafting

Mission Planning & Scheduling WG (MP&S)

• Issues: No deputy chair!, Good progress

BB: 529.1 Mission Planning and Scheduling Services (ESA, DLR)

AR ongoing, prototyping ongoing

• MB: 529.2 Mission Planning and Scheduling Information Model New project

GB: 529.0 Mission Planning and Scheduling (Issue 2): 5y revision
 New project



MOIMS Area Spring 2024 Status (2/2)

Navigation WG (NAV)

• Issues: None, Good progress

Specific discussions: Potential LunaNet standardisation support

BB: 503.0 Tracking Data Message (TDM - NASA, ESA): 5y revision
 P-2.0.2 in preparation, ready for review soon

BB: 504.0 Attitude Data Message (ADM - CNES, ESA): 5y revision Blue Book 2.0 Published Jan 2024

BB: 505.0 Navigation Data Message XML Specs (NDM - no prototype): 5y revision Version 4 AR in progress

BB: 507.0 Navigation Events Message (NEM – CNES, ESA)
 White Book 1.0 Drafting in progress

BB: 508.0 Conjunction Data Message (CDM): 5y revision AR poll closed, AR to commence soon

BB: 509.0 Pointing Request Message (PRM)

BB: 507.1 Launch Data Message

BB: 508.2 Fragmentation Data Message

GB: 500.0 Navigation Data – Definitions and Conventions

White Book 1.0 Drafting in progress

White Book 1.0 Drafting in progress

Clarification to be issued

Reconfirmation.

Spacecraft Monitor & Control WG (SM&C)

• Issues: None, Good progress

New deputy chair: Costin Radulescu (NASA)

BB: 521.0 Mission Operations - Message Abstraction Layer (MAL) (ESA, CNES)

GB: 520.0 MO Services Concept (ESA): 5y revision

MB: 520.1 Mission Operations Reference Model (DLR): 5y revision

BB: 522.2 Mission Product Data Distribution Services (ESA, CNES)

BB: 522.x File Management Services (ESA, ?)

New project envisaged for CCSDS Delivery Agent – Joint meeting with DTN this week

Publication approved, in publication pipeline

On hold waiting for MAL

In publication pipeline

Drafting

Red-1 completed, poll to start AR



CCSDS Opening Plenary Spring 2024

Cross Support Transfer Services Area (CSS)

Erik Barkley, Area Director Holger Dreihahn, Deputy Area Director





CSS Area Spring 2024 Status + Meeting Objectives (1/2)

Cross Support Transfer Services WG

Functional Resource Model (MB) Published

Functional Resource Model (SANA+) Completed Tier 2 resource definitions; CCSDS review pending; Tier 3

resource definitions first draft definitions completed

Service Control – SC-CSTS 1st complete draft (WB) produced

Cross Support Reference Model Retired

Cross Support Service Management WG

Abstract Event Definition (MB)

Service Management Concept (GB)

Simple Schedule Format (SSF)

Common Data Entities (MB-2)

Service Management Utilization Request Format (BB)

Service Package Data Format (BB)

Configuration Profile, Service Agreement (BB)

Event Sequence (BB)

Management Service

Technical Corrigendum published

Survey for refresh

Survey for refresh

Updated; final check for publication resolution

Final check for publication resolution

Review prototype plan to enable publication

Review draft so far

Review draft material developed; discuss project creation

Review results form Developer's Forum discussions; plan book development



CSS Area Spring 2024 Status + Meeting Objectives (2/2)

Cloud Data Delivery Standards WG (Forming)

Draft Charter, deliverables Workplan/assignments

Review, approve Develop, concur

CSS (Area Level)

Plenary Coordinate use of FRM in a managed service context

Consolidate usage of GitHub repositories

Review input for Lunar Interoperability Plenary

Joint session SIS-DTN/CSSM/CSTS Review/discuss CSS Area standards that support DTN Network Management

Joint session SLS-OPT/CSTS Discuss Optical Comm functional resource definitions



CCSDS Opening Plenary Spring 2024

Spacecraft Onboard Interface Services Area (SOIS)

Jonathan Wilmot, Area Director Xiongwen He, Deputy Area Director





SOIS Area Spring 2024 Status + Meeting Objectives (1/2)

Application Support WG

- CMC approval (03/29/2024) to publish CCSDS 870.0-G-1, Electronic Data Sheets and Dictionary of Terms for Onboard Devices and Components (Green Book, Issue 1)
- CMC approval (03/29/2024) to publish CCSDS 876.1-M-1, Spacecraft Onboard Interface Services— Specification for Dictionary of Terms for Electronic Data Sheets
- Ongoing and productive discussions with agency and industry mission engineers to promote infusion of SOIS standards
- Meeting Objectives
 - Final review of interoperability tests and documentation for 876.0-P-1.1 XML Specification for Electronic Data Sheets (Magenta Book, Issue 1)
 - Book was updated incorporate feedback from mission users
 - Support meetings with SEA, DTN, and CSS area
 - Discuss and update SOIS project schedules in CWE based on resource availability
 - Expect resolution to submit 876.0-P-1.1 for publication
 - Discussion and completion of SEDS container white paper for new magenta book. Good engagement with agency and industry mission engineers on use cases and infusion

Subnet WG Joint meeting with Subnet WG

- WG has been stalled with minimal agency participation
- Short meeting to discuss path forward on Sub-network Synchronization and Device Discovery Service
 - Updates to SOIS device discovery/enumeration with focus on use cases for crewed systems (in orbit and surface)



SOIS Area Spring 2024 Status + Meeting Objectives (2/2)

Wireless WG

- CESG approval (3/27/2024) to publish CCSDS 883.0-B-2, Spacecraft Onboard Interface Services—High Data Rate Wireless Proximity Network Communications (Blue Book, Issue 2)
- All meetings virtual
- Establishing interoperability test capability at NASA-JSC
- Discuss updates on relevant agency wireless activities
 - NASA
 - CSA
 - DLR:
 - Roscosmos
 - CNES
- Discuss new Projects
 - CCSDS-883 BBv3 (Include additional material on 5G)



CCSDS Opening Plenary Spring 2024

Space Link Services Area (SLS)

Ignacio Aguilar Sánchez, Area Director Gilles Moury, Deputy Area Director





SLS Area Spring 2024 Status + Meeting Objectives (1/2)

RF & Modulation WG (D. Lee & G. Sessler)

- 415.0-B 2 GHz CDMA Links for Data Relay Satellites
- Pink sheets to add on-regenerative PN ranging and lunar relay
- 401.0-B Pink Sheets
- Amplitude and Phase Imbalance Recommendation for High Order Modulations
- Possible reorganization of 401.0 Part 2 with data relay recommendations
- 211.1-B Proximity-1 Physical Layer
- Open points (e.g., phase noise on hailing channel)
- Space Link Code/Sync WG (A. Modenini & K. Andrews) meeting already held
 - 131.0-B, TM synchronization & coding
 - Update of 131.0-B for TF slicing
 - Update of 131.0-B for Turbo interleaver
 - 231.0-B, TC synchronization & coding
 - Performance analysis of LDPC tail sequence
 - Joint topics
 - VCM Green Book (C&S, RFM)
 - Link budget digital format
 - Proximity-1 (SLP, C&S, RFM)
 - Status of Slicing for potential use of Variable Length Frames (SLP, C&S, OPT)
 - Use of LDPC optical codes for RF links
 - New link budget processing method
- Space Link Protocols WG (G. Kazz & M. Cosby)
 - 211.0-B Proximity-1 SDLP Update for Lunar Operations
 - Type 4 SPDU directives for Lunar in Annex B
 - Default session control parameters for link establishment (new Annex)
 - 211.0-B split into 3 components
 - COP blue book for both COP-1 and COP-P
 - Generic link layer Session Control Blue Book
 - Remainder
 - 5-year Due Diligence
 - Joint topics
 - Proximity-1 (SLP, C&S, RFM)

Achieve consensus on updates

Achieve consensus

Discussion

Discussion (Joint RFM/SLP/C&S Meeting)

Achieve consensus on technical updates

Achieve consensus on technical and editorial updates

Discussion of possible technical issue on LDPC TC tail sequence

Proposing new project

Proposing new project

Status check of projects on S-Band proximity-1 extension

Status check, for possible harmonization in 131.x-B, 431.1-B, 142.0-B

Introduction of new topic Introduction of new topic

Discussion, achieve consensus on updates Discussion, achieve consensus on updates

Discussion

Discussion

Discussion

Discussion

Status check

Discussion



SLS Area Spring 2024 Status + Meeting Objectives (2/2)

- Space Data Link Security (SDLS) WG (G. Moury & H. Weiss)
 - 350.11-G SDLS Extended Procedures
 - Review of final edits, WG/areas resolution to publish
 - Triple Key Encapsulation Mechanisms (KEM) Profile
 - Revise SDLS Extended Procedures BB to adress constellations
- Data Compression (DC) WG (M. Wong & L. Santos)
 - 124.0-G Robust Compression of Fixed-length Housekeeping Data
 - 123.0-B3 Low-Complexity Lossless and Near-Lossless Multispectral and Hyperspectral Image Compression
 - 125.0- B Raw SAR Compression
- Optical Communications WG (J. Hamkins & C. Heese)
 - Coherent Blue Book
 - Requirements
 - Channel model
 - Erasure coding
 - Analysis of ARQ, erasure coding, and interleaving
 - Interleaver
 - Code selection
 - DTN WG
 - In-band signaling
 - MVP for functional Resource Model (with other WGs)
 - Presentation from Agencies (NASA, ESA, CNES, DLR)
 - Joint meeting with C&S and SLP WGs

Review

Discussion and initialization of the project Discussion and initialization of the project

Review and achieve consensus for Agency Review

Review draft, cross-verification and provide final draft.

Review and resolve technical issues within WG

Discussion

Discussion

Discussion

Discussion

Discussion

Discussion

Discussion

Presentation

Discussion

Discussion

Discussion

Discussion



CCSDS Opening Plenary Spring 2024

Space Internetworking Services Area (SIS)

Tomaso de Cola, Area Director Ivica (Vinny) Ristovski, Deputy Area Director





SIS Area Spring 2024 Status + Meeting Objectives (1/2)

Voice WG

Dormant, not meeting

CFDP Revision WG

CFDP 727.0-B-5 Pink Sheets

Finalisation of CFDP-B5 updates prior to Agency review; main focus of the update is to make more features optional to allow *mimalistic* implementations, e.g. for use over Bundle Protocol

CCSDS 722.1-M-1 (CFDP over Encap)

Finalisation of extensions to include CFDP over BP, LTP, UDP, and TCP prior to Agency review

MIA WG

766.3-B-1 (RTP over DTN)

Discussion on the way forward on the basis of agency experience about streaming over DTN

Video Quality Assessment for Space Applications

Review of the draft and progress in editing



SIS Area Fall 2023 Status + Meeting Objectives (2/2)

DTN WG

BPv7

BPsec

DTN Multipoint Delivery (orange book)

DTN Network Management (orange book)

Compressed Bundle Status Reporting (Orange book)

LTP reaffirmation

HPRP book (Orange book)

Bundle Protocol Quality of Service Extensions (Orange book)

Bundle in Bundle Encapsulation (Orange book)

WG Discussion

Joint DTN/SEA-SEC Joint DTN/MOIMS-SM&C Joint DTN/CSS Area Finalisation plan

Finalisation plan

Discussion of the content based on the already available material

Discussion and consolidation of the content

Review of the current content and next steps

Discussion about SANA-related issues

Discussion about the draft and its consolidation

Preliminary content of the book for discussion

Preliminary content of the book for discussion

DTN and Internet Integration

DTN/BPSec role in mission security architecture

First-hop/last-hop discussion

Discuss CSS products relevant to DTN & DTN Network Management



Fall 2024 Technical Plenary





- **→** Hosted by the UK Space Agency.
- **★** Fall Technical Plenary scheduled for 4-8 November.
- **★CESG & CMC** meetings scheduled for 11-14 November.
- **★**Location and further logistics to be announced.



Spring 2024 Technical Plenary Logistics

Security Expectations/Building Conduct

- Security screening required each time entering HCHB, please plan arrival accordingly.
- Escorts required at all times you will be assigned an escort today that remains with your WG for the week.
- Coffee/Lunch are self paid for the week
 - There is a mini food market located on the 5th floor.
 - Use the Fooda app to order ahead for pop-up restaurants located on the ground level floor.
 - There are dozens of food trucks just outside and surrounding the National Mall to choose from.
 - Regan Building adjacent to HCHB has a food court accessible via tunnel from the ground level floor – security screening upon re-entry required.

WiFi

SSID: SpacePlenary

• PWD: CCSDS!NISTspring@24 (case-sensitive)

• Surprise! We will capture our group photo here in the auditorium, get ready to 'say cheese!'

We will dismiss from the back of the auditorium to the front, please find the escort holding a sign associated with your first WG of the day.