SLS Meeting Objectives: 1/2



RF & Modulation WG

401.0-B RF & Modulation:

Flexible turn-around ratios, multi-carrier ope

and 3.1.7)

MSPA Implementation

Station frequency stability

22/26 GHz turn-around ratios

VCM, High Data Rate randomizers, and evolution of HOMs (Su

BW-Efficient modulations for SRS, and Telemetry ranging

of RIDs to 401.0-RP-28.1 (rec. 2.4.17A, 2.4.22A & B, 2.4.24,

of draft recommendations In-dept.

recommendation for update In-depth dis

of first draft recommendation

S2X) Discussion (with C&S)

Space Link Code/Sync WG

VCM Blue Book 431.1-B (new colour)

Proximity-1 C&S Sublayer 211.2-B

AOS Uplink with TM Codes

DVB-S2X Orange Book 131.6-O

SCCC-X Orange Book (Proposal)

(with RFM) & Wait Polls for AR **Check Performances & Proto**

Progress on USLP adaptation & 1. bility Testing (with SLP)

Discuss NASA reply to former action m and propose new CWE project

Progress to be presented to WG (with RFM)

Discuss SCCC Extension towards 128- and 256-APSK (with RFM)

- ACHIEVEMENTS: 130.11-G "TM Channel Coding for SCCC" Green Book: (Waiting CESG/CMC Poll to be) Published;

Space Link Protocols WG

USLP Finalize CCSDS 700.1-G USLP Green book

NASA Proposal for SPP Issue 2 (CCSDS 133.0-B) SPP Revision

Potential need for a SPP GB (CCSDS 130.3-G)

- Review proposed revisions to Overview of Space Comm. Protocols (OSCP) Green Book (CCSDS 130.0-G)
- ACHIEVEMENTS: 732.0-B-1 Unified Space Data Link Protocol Blue Book: (Undergoing CMC Poll to be) Published;

SLS Meeting Objectives: 2/2



Space Data Link Security (SDLS) WG

 <u>Extended</u> Protocol Blue Book 355.1 interoperability testing

Extended Protocol Green Book 350.5

- ACHIEVEMENTS: 350.5-G-1 SDLS Core Protocol Green Book

Disposition RIDs for RED-1 Book & Review

ntributions – finalize 1st complete draft

Multispectral & Hyperspectral Data Compression (MHDC) WG

CCSDS-123.0-B Lossless/Near-Lossless Compression (Issue 2 E.)

CCSDS-124.0-B Compression of "housekeeping-like" telemetry day

- CCSDS-121.0-B "Lossless Data Compression" corrigenda
- CCSDS-120.0-G "Lossless Data Compression"
- CCSDS-120.2-G: Update to issue 2 to cover additional features added in CCSDS-120.2-Cor additional material
- ACHIEVEMENTS: 120.3-G "Spectral Pre-Processing Transform for Multispectral & Hyperspectral Image Compression" Green Book (supporting CCSDS 122.1-B-1): (Waiting CESG/CMC Poll to be) Published;

Optical Communications WG

- Optical Communications "Physical Layer" and "Coding & Synchronization" Blue Books.
 - 1. <u>Deep Space Scenario</u>: High Photon Efficiency (HPE) Scenario Resolve Agency Reviews RIDs for Coding Layer RB.
 - 2. <u>Near Earth Scenario for Low Complexity (O3K) Systems</u>: Review the draft section(s) for Optical On/Off Keying (O3K) Physical Layer recommendation and try to reach consensus on it.
- Review the 1st white book on Atmospheric Characterization for Optical Link Operations (future Magenta)
- Review draft Optical High Data Rate (HDR) Communication 1550 nm (NASA/CNES/JAXA/NICT) Orange Book
 - ACHIEVEMENTS: 141.11-O-1 Optical High Data Rate (HDR) Communication 1064 nm (ESA/DLR) Orange Book: (Waiting CESG/CMC Poll to be) Published;

Review White Book Review proposed

Reconfirmation Review