**CCSDS Space Data Link Security WG**

**Minutes of Webex telecon**

June 24, 2016

# Participants:

|  |  |  |
| --- | --- | --- |
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# Agenda :

The agenda of the meeting was the following:

* Review of the last inputs to the SDLS Green Book
* Way forward to next meeting and GB publication

# Reference documents

RD1 April 2016 CCSDS SDLS WG MoM

RD2 Green Book draft June 24 version : *“Green Book Template SDLS\_24\_Jun\_2016\_working copy\_converted\_format”*

# Agenda points

## Draft SDLS GB book review (review of last inputs)

The last inputs to the green book (made by Ignacio Aguilar) were reviewed. The last version of the GB used for this review (RD2) is available on CWE ([The CCSDS Collaborative Work Environment (CWE)](http://cwe.ccsds.org/) > [Space Link Services Area (SLS)](http://cwe.ccsds.org/sls) > [Documents](http://cwe.ccsds.org/sls/docs/Forms/AllItems.aspx?View=%7b16ACDA38%2dFFA3%2d4657%2d8F27%2dB166C23C24A2%7d) > [SLS-SEA-DLS](http://cwe.ccsds.org/sls/docs/Forms/AllItems.aspx?RootFolder=%2Fsls%2Fdocs%2FSLS%2DSEA%2DDLS&View=%7b16ACDA38%2dFFA3%2d4657%2d8F27%2dB166C23C24A2%7d) > [CWE Private](http://cwe.ccsds.org/sls/docs/Forms/AllItems.aspx?RootFolder=%2Fsls%2Fdocs%2FSLS%2DSEA%2DDLS%2FCWE%20Private&View=%7b16ACDA38%2dFFA3%2d4657%2d8F27%2dB166C23C24A2%7d) > [meeting material](http://cwe.ccsds.org/sls/docs/Forms/AllItems.aspx?RootFolder=%2Fsls%2Fdocs%2FSLS%2DSEA%2DDLS%2FCWE%20Private%2Fmeeting%20material&View=%7b16ACDA38%2dFFA3%2d4657%2d8F27%2dB166C23C24A2%7d) > June 24th 2016 Webex ).

The following sub-sections have been recently modified/completed by the GB technical editor and were reviewed at this telecon:

- Foreword

- Document Control

- 1.5 References

- 2.2 Motivation

- 3.3 Protocol Position in CCSDS

- 3.3.1 Telecommand

- 3.3.2 Telemetry

- 3.3.3 Advanced Orbiting Systems

- 3.5.1.1 Clear Mode Management

- 3.5.2 Managed Parameters

- 3.5.3 Signaling, Monitoring and Control

- 3.5.6 Telecommand

- 3.5.7 Telemetry

- 3.5.8 Advanced Orbiting Systems

- 4.2 Generic Operation

- 4.3.1 Cryptographic Key Synchronization (update on previous draft not yet reviewed or I forgot to remove the highlight since I seem to recall having discussed the sub-section on a previous meeting)

- 4.3.3 Sequence Count Synchronization (update on previous draft not yet reviewed or I forgot to remove the highlight since I seem to recall having discussed the sub-section on a previous meeting)

- 4.4 SDL Protocol Baseline Implementations (change of title)

- 4.4.1 Telecommand

- 4.4.2 Telemetry

- 4.4.3 Advanced Orbiting Systems

Points discussed and agreed:

* Use American English consistently throughout the document.
* Remove the reference to the Spacelink ID recommendation which has been retired and replaced by the SANA on-line database/registries. No need to reference the SANA website since no SDLS related registries exist.
* Annex A to the GB has been completed. It provides the justification for the baseline mode (annex E of the SDLS Blue Book). This annex A should be reviewed by the WG members. The justification for the default authentication bit mask is not given in the Annex A but is discussed in the main text. Check whether it is sufficient.
* Annex D discusses interaction between SDLS and data link performance. It is complete for what concerns the interaction with TC but needs to be completed for interaction with TM and AOS. For TM and AOS, performance in terms of undetected bit/frame error rate need to be checked for the various channel code and frame CRC configurations.

| **A.I.** | **Actionee** | **Action** | **Deadline** |
| --- | --- | --- | --- |
| SDLS0616/01 | G.Moury | Review undetected error rate of the various channel codes / frame CRC combinations and recommended configurations | July 30,  2016 |

| **A.I.** | **Actionee** | **Action** | **Deadline** |
| --- | --- | --- | --- |
| SDLS0616/02 | I.Aguilar | Complete missing part of Annex D (TM and AOS) | Sept 15,  2016 |

| **A.I.** | **Actionee** | **Action** | **Deadline** |
| --- | --- | --- | --- |
| SDLS0616/03 | SDLS WG members | Review complete draft green book | Sept 30,  2016 |

## Way forward to next meeting for SDLS green book

* Objective is to have the complete SDLS Green Book agreed at the fall meeting in order to issue a resolution of the WG to publish.