



**The Consultative Committee for Space Data Systems**

# **Space Link Services Area System Engineering Area**

## **Resolution SLS-SEA-R-2023-09-001**

### **Space Data Link Security (SDLS)**

### **Green Book Issue 2 (350.5-G-2) publication**

07 September 2023 v2.1

**SLS-SEA-R-2023-09-001(350.5-G-2)**

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### ✦ The Space Link services Area and System Engineering Area,

### ✦ **CONSIDERING** that

- ✧ the Space Data Link Layer Security (SDLS) WG has reviewed 4 years after publication the SDLS Core Protocol GB (350.5-G-1)
- ✧ the SDLS WG has updated this report to introduce :
  - ❖ USLP as the 4th Space Data Link protocol supported by SDLS,
  - ❖ SDLS Extended Procedures (355.1-B-1) as recommended functions to provide Security Association and Key Management, Monitoring and Control of Security Unit
  - ❖ increased key length to be used in baseline mode of SDLS
  - ❖ detailed discussion of interaction between SDLS and COP-1 for TC links: order of processing, protection of COP commands, ...
- ✧ the SDLS WG has reached consensus on the changes introduced

## SLS/SEA Resolutions to CESG

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- ✦ **RESOLVES** to request CESG/CMC to approve the publication of:
  - Space Data Link Security (SDLS) green book issue 2 (350.5-G-2)
- ✦ **RECOMMENDS** that the CESG/CMC approves this resolution, and finally
- ✦ **REQUESTS** that a CESG/CMC poll be conducted to accomplish this.

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