

Space Link Services Area

Resolution SLS-R-2024-10-003

Publication of CCSDS-142.0-B

“Optical Communications

Coding and Synchronization”

Blue Book Issue 2

15th October 2024

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SLS Area Director

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The Space Link services Area,

CONSIDERING that

- the Optical Communications (OPT) WG has reviewed the RIDs to the Pink Sheets and reached consensus on their dispositions,
- the OPT WG has produced and reached consensus on the updated version of the draft Blue Book “Optical Communications Coding and Synchronization” for CCSDS

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142.0-B, which specifies signaling for Optical On-Off-Keying (OOK) communications,

- interoperability testing has been conducted to verify compatibility between four independently developed optical communications coding and synchronization implementations by exercising the presence and absence of all normative attributes, both individually and in combination,
- interoperability testing is documented in a related Yellow Book, and
- the OPT WG has consensus on requesting to publish this book

RESOLVES to request GESG/CMC to approve publishing CCSDS 142.0-B-2 “Optical Communications Coding and Synchronization” Blue Book Issue 2

RECOMMENDS that CESG/CMC approve this resolution and, finally

REQUESTS that CESG and CMC polls be conducted to accomplish this.