

The Consultative Committee for Space Data Systems

Space Link Services Area

Resolution SLS-R-2012-02-002

123.0-B Lossless Multispectral & Hyperspectral Image Compression

21th February 2012

SLS-R-2012-02-002 (123.0)

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- ✦ The Space Link services Area,
- ✦ **CONSIDERING** that the Multispectral Hyperspectral Data Compression (MHDC) WG
 - ✧ completed Agency Review of CCSDS 123.0-R-1 “Lossless Multispectral & Hyperspectral Image Compression” Red Book dated May 2011, and
 - ✧ has successfully disposed of all RIDs, and
 - ✧ produced a version of the 123.0 book representing the consensus of the WG on a method for lossless compression of multispectral and hyperspectral image data and a format for storing the compressed data
- ✦ **CONSIDERING** that
 - ✧ new features of CCSDS 121.0-B “Lossless Data Compression” Issue 2 are used as part of CCSDS 123.0

✦ RECOGNIZING

- ✧ that the proposed method is compatible with other CCSDS Protocols as e.g. Space Packet, CFDP, AOS, etc.
- ✧ that interoperability of 3 independent implementations has been verified and documented in associated yellow book
- ✧ that patents issues have been properly addressed and there are no patents for this technology that are known by the CCSDS community

✦ RESOLVES to request CESG/CMC to approve the publication of the Blue Book Issue 1

✦ RECOMMENDS that release be synchronized with CCSDS 121.0-B “Lossless Data Compression” Issue 2

- ✦ RECOMMENDS that the CESG approves this resolution, and finally
- ✦ REQUESTS that a CESG poll be conducted to accomplish this.