REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: ESA-GPC-101

SUBMITTING ORGANIZATION (Agency, Center): SLS Area Director

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REVIEWER'S NAME: Gian Paolo Calzolari

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DOCUMENT NUMBER: CCSDS 132.0-P-1.2 Pink Sheets, Issue 1.2

DOCUMENT NAME: TM Space Data Link Protocol

DATE ISSUED: October 2013

PAGE NUMBER: 1-6 PARAGRAPH NUMBER: 1.7

RID SHORT TITLE: Add SCCC and DVB-S2 References and text

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Add (together with [3] 131.0-B) references to

* CCSDS 131.2-B-1 Flexible Advanced Coding and Modulation Scheme for High Rate Telemetry Applications. Blue Book. Issue 1. March 2012.
* CCSDS 131.3-B-1 CCSDS Space Link Protocols over ETSI DVB-S2 Standard. Blue Book. Issue 1. March 2013.

Wherever [3] is mentioned replace the call with reference to the “set of Synchronization and Channel Coding Recommendations“ and dapt text as appropriate.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE: Technical Fact

------------------------------------------------------------------

SUPPORTING ANALYSIS:

All three standards support carrying TM Frames.

------------------------------------------------------------------

DISPOSITION: **Accepted**. This change allows the TM Space Data Link Protocol to be in sync with the latest C&S recommendations.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: ESA-GPC-701

SUBMITTING ORGANIZATION (Agency, Center): SLS Area Director

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DOCUMENT NUMBER: CCSDS 732.0-P-2.2 Pink Sheets, Issue 2.2

DOCUMENT NAME: AOS Space Data Link Protocol

DATE ISSUED: October 2013

PAGE NUMBER: 1-6 PARAGRAPH NUMBER: 1.7

RID SHORT TITLE: Add SCCC and DVB-S2 References and text

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

Add (together with [3] 131.0-B) references to

* CCSDS 131.2-B-1 Flexible Advanced Coding and Modulation Scheme for High Rate Telemetry Applications. Blue Book. Issue 1. March 2012.
* CCSDS 131.3-B-1 CCSDS Space Link Protocols over ETSI DVB-S2 Standard. Blue Book. Issue 1. March 2013.

Wherever [3] is mentioned replace the call with reference to the “set of Synchronization and Channel Coding Recommendations“ and adapt text as appropriate.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE: Technical Fact

------------------------------------------------------------------

SUPPORTING ANALYSIS:

All three standards support carrying AOS Frames.

------------------------------------------------------------------

DISPOSITION: **Accepted**. This change allows the AOS Space Data Link Protocol to be in sync with the latest C&S recommendations.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: ESA-GPC-702

SUBMITTING ORGANIZATION (Agency, Center): SLS Area Director

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DOCUMENT NUMBER: CCSDS 732.0-P-2.2 Pink Sheets, Issue 2.2

DOCUMENT NAME: AOS Space Data Link Protocol

DATE ISSUED: October 2013

PAGE NUMBER: 5-2 PARAGRAPH NUMBER: Table 5-2

RID SHORT TITLE: Managed Parameters for a Master Channel

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

From:

|  |  |
| --- | --- |
| Valid VCIDs | Set of Integers (from 0 to 63) |

To:

|  |  |
| --- | --- |
| Valid VCIDs | Selectable Set of Integers (from 0 to 62) (in addition to VCID 63) |

From:

NOTE – The value of the Transfer Frame Version Number is the same for all Transfer Frames on a Physical Channel.

To:

NOTE 1 The value of the Transfer Frame Version Number is the same for all Transfer Frames on a Physical Channel.

2 – For VCID the binary value of ‘all ones’ (i.e., 63) is always valid as it is reserved for OID Transfer Frames by section 4.1.4.1.5; i.e., the number of Valid VCIDs always includes value 63 and the Selectable Set of Integers defined above.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE: Technical Fact

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Clause 4.1.4.1.5 (see below) makes mandatory using VC 63 for OID Frames.

**4.1.4.1.5** In the case where no valid Transfer Frame Data Field is available for transmission at release time for a Transfer Frame, a Transfer Frame with a Data Field containing only Idle Data **shall** be transmitted. Such a Transfer Frame is called an OID Transfer Frame. The Virtual Channel ID of an OID Transfer Frame shall be set to the value of ‘all ones’ and a project-specified ‘idle’ pattern shall be inserted into the Transfer Frame Data Field.

Added the term, selectable to distinguish between the selectable VCIDs (0-62) vs. the pre-assigned OID one (63).

------------------------------------------------------------------

DISPOSITION: **Accepted**. Makes clear the distinction between IDs that are selectable by the mission vs the pre-defined by CCSDS.

REVIEW ITEM DISPOSITION (RID):

RED BOOK RID INITIATION FORM

AGENCY RID NUMBER: ESA-GPC-703

SUBMITTING ORGANIZATION (Agency, Center): SLS Area Director

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REVIEWER'S NAME: Gian Paolo Calzolari

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DOCUMENT NUMBER: CCSDS 732.0-P-2.2 Pink Sheets, Issue 2.2

DOCUMENT NAME: AOS Space Data Link Protocol

DATE ISSUED: October 2013

PAGE NUMBER: 5-2 PARAGRAPH NUMBER: Table 5-3

RID SHORT TITLE: Managed Parameters for a Virtual Channel

------------------------------------------------------------------

DESCRIPTION OF REQUESTED CHANGE: (Use From: "..." To "..." format)

From:

|  |  |
| --- | --- |
| VCID | 0, 1, …, 63 |

To:

|  |  |
| --- | --- |
| VCID | 0, 1, …, 62 (63 reserved) |

From:

NOTE – The value of the Transfer Frame Version Number is the same for all Transfer Frames on a Physical Channel.

To:

NOTE 1 The value of the Transfer Frame Version Number is the same for all Transfer Frames on a Physical Channel.

2 –VCID value 63 (i.e. the binary ‘all ones’) is reserved for OID Transfer Frames by section 4.1.4.1.5.

------------------------------------------------------------------

CATEGORY OF REQUESTED CHANGE: Technical Fact

------------------------------------------------------------------

SUPPORTING ANALYSIS:

Remove VC 63 from this list as 63 is reserved to OID Frames by clause 4.1.4.1.5 (see below).

**4.1.4.1.5** In the case where no valid Transfer Frame Data Field is available for transmission at release time for a Transfer Frame, a Transfer Frame with a Data Field containing only Idle Data shall be transmitted. Such a Transfer Frame is called an OID Transfer Frame. The **Virtual Channel ID of an OID Transfer Frame shall be set to the value of ‘all ones’** and a project-specified ‘idle’ pattern shall be inserted into the Transfer Frame Data Field.

63 added to the table since a note is non-normative.

------------------------------------------------------------------

DISPOSITION: **Accepted**. Makes clear the distinction between IDs that are selectable by the mission vs the pre-defined by CCSDS.