

Communications Operation Procedure-1

TECHNICAL CORRIGENDUM 1

The Management Council of the Consultative Committee for Space Data Systems (CCSDS) has authorized the publication of technical corrigendum 1 to CCSDS 232.1-B-2, issued September 2010.

Throughout document

Wherever [3] TC Space Data Link Protocol is referenced, add reference to [4] Unified Space Data Link Protocol.

Page 1-5, 1.7 REFERENCES

add new reference:

[4] *Unified Space Data Link Protocol*. Issue 1. Recommendation for Space Data System Standards (Blue Book), CCSDS 732.1-B-1. Washington, D.C.: CCSDS, October 2018.

Page 6-3, at end of final paragraph on page

add:

“ when COP-1 is operated as described in 6.1.8.3.1; it is not valid when COP-1 is operated as described in 6.1.8.3.2”

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TECHNICAL CORRIGENDUM 1 TO CCSDS 232.1-B-2 (Continued)

Page 6-4, under 6.1.8.2 FARM_Sliding_Window_Width (W)

change:

from: “The value ‘W’ shall be set to a value between the following limits”

to: “When COP-1 is operated as described in 6.1.8.3.1, the value ‘W’ shall be set to a value between the following limits”

Page 6-4, under “where ‘W’ is always an EVEN integer”

add new paragraph:

“When COP-1 is operated as described in 6.1.8.3.2, the value ‘W’ can be any integer between 1 and 256.”

Page 6-5, under heading 6.1.8.3 FARM_Positive_Window_Width (PW) and . . .

add new subsection heading:

6.1.8.3.1 COP-1 Operation with Type AD Frame Retransmission Allowed

Page 6-6, above paragraph beginning “Certain missions may require”

add new subsection heading:

6.1.8.3.2 COP-1 Operation with Type AD Frame Retransmission Not Allowed

Page 7-1, Table 7-1

change:

from “FOP_Sliding_Window_Width”

to: “FOP_Sliding_Window_Width (K)”

change:

from: “1, 2, ... or 255”

to: “1, 2, ... or 255 (note)”

add at end:

“NOTE – Although $1 \leq K \leq PW$, the value of K may never exceed 255.”

TECHNICAL CORRIGENDUM 1 TO CCSDS 232.1-B-2 (Continued)

Page 7-2, Table 7-2, row beginning “FARM_Sliding_Window_Width (W)”

change:

from “2, 3, ... or 254”

to: “1, 2, ... or 256 (note 2)”

row beginning “FARM_Positive_Window_Width (PW)”

change:

from “(Must be equal to $W/2$)”

to: “1, 2, ... or 256 (note 3)”

Row beginning “FARM_Negative_Window_Width (NW)”

change:

from “(Must be equal to $W/2$)”

to: “0, 1, 2, ... or 127 (note 3)”

add at end:

“NOTES

- 1 ‘W’ is defined in 6.1.8.2; ‘PW’ and ‘NW’ are defined in 6.1.8.3
- 2 When COP-1 is operated as described in 6.1.8.3.1, ‘W’ is an even integer between 2 and 254, inclusive. When COP-1 is operated as described in 6.1.8.3.2, ‘W’ is an integer between 1 and 256. inclusive.
- 3 When COP-1 is operated as described in 6.1.8.3.1, this value must be equal to $W/2$. When COP-1 is operated as described in 6.1.8.3.2, it is permitted to set $PW > NW$, with, ultimately, $NW = 0$ and $PW = W$.”