

RTCA Special Committee 186, Working Group 5

ADS-B UAT MOPS (DO-282), Revision A

Meeting #19

Teleconference on 1.12.04

**Proposed Changes to The Test Procedure Presented
In UAT-WP-18-05 for §2.4.8.3.3**

Presented by: Tom Pagano & Gary Furr

SUMMARY

After review of Working Paper UAT-WP-18-05, it was concluded that addition tests should be run. This Working Paper outlines proposed changes to the test procedure for §2.4.8.3.3 originally proposed in UAT-WP-18-05, and proposes some additional tests.

Suggested Modifications/Additions to the test procedure of §2.4.8.3.3 as outlined in Working Paper UAT-WP-18-05.

- 1) In the second paragraph under the “Equipment Required:” in the fifth line of the paragraph, change the start of the sentence from “Data Sets 2 and 3 contain” **to** “Data Sets 2, 3, 4 and 5 contain”
- 2) In the last line of the text of “Data Set 3:” change “Bytes 38 through 66” **to** “Bytes 38 through 71”
- 3) After the table for Data Set 3, add:

Data Set 4 consists of an ADS-B Sync pattern, followed by 11 bytes of data, followed by a second ADS-B Sync pattern, followed by 11 bytes of data, followed by a third Sync pattern, followed by 19 bytes of data, followed by a fourth Sync pattern and a valid Long ADS-B Message corresponding to the third Sync pattern. One such pattern is listed below. The Parity field is computed over Bytes 38 through 71.

Byte #	Data								
1-8	0x0E	0xAC	0xDD	0xA4	0xE2	PN	PN	PN	
9-16	PN	PN	PN	PN	PN	PN	PN	PN	
17-24	0x0E	0xAC	0xDD	0xA4	0xE2	PN	PN	PN	
25-32	PN	PN	PN	PN	PN	PN	PN	PN	
33-40	0x0E	0xAC	0xDD	0xA4	0xE2	PN	PN	PN	
41-48	PN	PN	PN	PN	PN	PN	PN	PN	
49-56	PN	PN	PN	PN	PN	PN	PN	PN	
57-64	0x0E	0xAC	0xDD	0xA4	0xE2	PN	PN	PN	
65-72	PN	PN	PN	PN	PN	PN	PN	P1	
73-80	P2	P3	P4	P5	P6	P7	P8	P9	
81-88	P10	P11	P12	P13	P14	PN	PN	PN	

Data Set 5 consists of an ADS-B Sync pattern, followed by 11 bytes of data, followed by a second ADS-B Sync pattern, followed by 11 bytes of data, followed by a third Sync pattern, followed by 19 bytes of data, followed by a fourth Sync pattern, and a valid Long ADS-B Message corresponding to the fourth Sync pattern. One such pattern is listed below. The Parity field is computed over Bytes 62 through 95.

Byte #	Data								
1-8	0x0E	0xAC	0xDD	0xA4	0xE2	PN	PN	PN	
9-16	PN	PN	PN	PN	PN	PN	PN	PN	
17-24	0x0E	0xAC	0xDD	0xA4	0xE2	PN	PN	PN	
25-32	PN	PN	PN	PN	PN	PN	PN	PN	
33-40	0x0E	0xAC	0xDD	0xA4	0xE2	PN	PN	PN	
41-48	PN	PN	PN	PN	PN	PN	PN	PN	
49-56	PN	PN	PN	PN	PN	PN	PN	PN	
57-64	0x0E	0xAC	0xDD	0xA4	0xE2	PN	PN	PN	
65-72	PN	PN	PN	PN	PN	PN	PN	PN	
73-80	PN	PN	PN	PN	PN	PN	PN	PN	
81-88	PN	PN	PN	PN	PN	PN	PN	PN	
89-96	PN	PN	PN	PN	PN	PN	PN	P1	
97-104	P2	P3	P4	P5	P6	P7	P8	P9	
105-112	P10	P11	P12	P13	P14	PN	PN	PN	

4) At end of Measurement Procedures, add:

Step 4: Verification of subparagraph c. (Third trigger processing completed)

Configure the message source to generate Data Set 4. Verify that at least 10 messages from Data Set 4 are successfully received.

Step 5: Verification of subparagraph c. (Third trigger processing completed)

Configure the message source to generate Data Set 5. Verify that at least 10 messages from Data Set 5 are successfully received.