

September 11, 2008

Report of the AOC **Teleconference 39** held on **12 August 2008**

In attendance were:

Dirk Zschunke, Lufthansa	David O'Kelley, Jeppesen
Frederic Durand, Airbus	Tim Spears, Ultramain
Beka Teklu, Boeing	Mike Russo, IA Staff
Therin Dastrup, Honeywell	

Introduction

Dirk Zschunke moderated a one-hour teleconference concerning the development of draft Supplement 1 to ARINC Standard 633.

Agenda

Item	Topic
1	Admin/Review of Previous Meeting
2	Action Items / New Working Papers
3	Strawman 21 of ARINC 631 and Related Schema
4	Other Working Papers
5	Review new Action Items
6	Close

Review of Previous Meeting

Mike Russo conducted a brief review of the report of AOC SC meeting held on 21-23 July 2008. He noted that the meeting involved a joint meeting for one day with the ATA Electronic Logbook Project Team (ELPT).

New action items have been added to the Action Item list as mentioned in the body of this report. See attachment 1.

Frederic

The telecon revisited Section 5.4.7, Waypoints. In the table, the LeakDetection element definition currently produces the wrong calculated result. Since the existing code produces an error, action needs to be taken. Frederic Durand took an action item to resolve the issue by recommending the removal of the code or repairing it.

Working Papers

Beka Teklu introduced a paper recommending revision to the EROPS section of the eFF schema.

Consensus was that the following Critical Position (flightPlanCore.Grp → EROPS → CriticalPositions → CriticalPosition) elements should be defined as optional rather than mandatory.

- RNAM
- MSA
- IceFuel
- EBOToAirport (*see comments in table below*)
- EFOBAtPosition (*see comments in table below*)
- Condition

The telecon also supported his recommendation to add TotalCriticalFuel and AdditionalFuel elements. Beka informed the telecon that the calculation of Total Critical Fuel required Icing, EBOT, ABOT, Additional Fuel and Final Reserve Fuel. Dirk questioned the need for Additional Fuel since it is already available in the Fuel Header. Beka reported that these two elements will have different values and therefore can not be used interchangeably. However Beka took an action to reconfirm.

Robert Popov was asked to comment on the text definition of the CriticalPositionType Condition element.

Strawman 21 to Supplement 1 of ARINC 633

Dirk Zschunke reported that Strawman 21 is expected to be available for review at the September telecon.

Potable Water

Frederic Durand reported that the AOC SC proposal to change the definition of PSWQ from a 1 to 3 digit percent to a 1 to 4 digit percent in tenths will have an impact on Airbus. Dirk noted that CG Targeting element values expressed in percent typically have a resolution of tenths. Frederic offered to coordinate with Airbus for a formal opinion of concurrence.

Encoding

Discussion revealed that DEFLATE can be primed with a known dictionary to enhance its efficiency; the tokens do not need to be sent. Frederic Durand commented that Airbus had considered this approach and did not support it because this technique was not as effective (smaller compression percentage) when files became large.

The telecon reviewed the status of the ELPT work on encoding and concurred that a reference to ATA should be made to enable the use of the Tim Spears Encoding (TSE2) technique as an option.

Web Services

It is not yet clear what approach the ELPT will take toward the use of web services. One of the conclusions of the previous meeting was that the eLB approach of using web services would suffice in the short term, but that eventually there would be a need to define one or more REQuest messages in ARINC 633 to support air-ground applications.

Future Activity

AOC Telecon 40 was scheduled to be held on 4 September 2008.

The next scheduled AOC SC meeting is scheduled for 3-5 December 2008 in Albuquerque, New Mexico. This is a change from the proposed list of venues agreed upon at the previous AOC SC meeting. Ultramain will host the meeting.

Action Item List AOC Meeting (21- 23 July 2008)

Tables Closed: Action Items		
#	DESCRIPTION	STATUS
27-31	Table 2: Telecon 11-12 Action Items	Closed
32 - 40	Table 3: December Meeting Action Items	Closed
41- 57	Table 4: Telecons 15 - 17 Action Items	Closed
58-67	Table 5: Meeting 25-27 April 2006 Action Items	Closed
68-71	Table 6: Telecons 19 - 20 Action Items	Closed
90	Table 8: Telecon 23 Action Items	Superseded
101-102	Table 10: Telecon 25 Action Items	Closed
103 - 108	Table 11: Telecon 26 Action Items	Closed
109 - 121	Table 12: February 2007 Meeting Action Items	Closed
122 - 124	Table 13: Telecon 27 Action Items	Closed
125	Table 14: Telecon 28 Action Items	Closed
126-127	Table 15: Telecon 29 Action Items	Closed
128-130	Table 16 Telecon 30 Action Items	Closed
152-154	Table 19: Action Items AOC Telecon 32 (August 2007)	Closed
155	Table 20: Action Items AOC Telecon 34	Closed
156	Table 21: Action Items AOC Meeting 11 (March 2008)	Closed

Table 1: Action Items Meeting (August 2005)		
#	DESCRIPTION	STATUS
01-06, 08-14, & 16-26		Closed
07	Frederic Durand and Mike Russo will designate end-to-end or air-ground coverage in paragraph to Section 3.2. The input will assign proposed dates when the security function should become available through the supporting infrastructure.	Open
15	Frederic Durand and Luc Rochard will propose a Database Activation Service message and associated processes. Delays in initiating the development effort suggests that a mature definition may need to be incorporated into ARINC 633 with Supplement 1. However, due to the urgency of the availability of this application, work will start as soon as possible. The subcommittee asked that Air France provide further clarification of the mechanism that is needed to provide the benefits they identified in their original request.	Open

Table 7: Action Items Meeting (August 2006)		
#	DESCRIPTION	STATUS
72 – 75, 77, 79 81-83, 85 – 86, 89		Closed 02/20/07
76	Frederic Durand will check for consistency among the eFF schema signature and the ATA e-LogBook signature definition.	Open
78	Ulf Jahr will provide a detailed definition of the proposed enc.xml file for OpenPGP. Pending NIS SC disposition.	Open
80	Mike Russo and Franklyn Young-Martos should investigate with AEEC whether requirements could be tagged in future documents. Frederic Durand will provide tag examples.	Ongoing
84	Steve Acheson et al were asked to propose a list of applications to be considered for standardization for the next AOC SC meeting.	Ongoing
87	Frederic Durand will work with Dirk Zschunke and Andreas Ritter to develop a Loadsheet and Trimsheet schema to include in Chapter 5. Dirk Zschunke will provide basic definitions for NOTOC XML schemas for integration into Chapter 5. Dirk recommended to reference IATA development when available.	Ongoing

Table 9: Action Items Meeting (Nov 2006)		
#	DESCRIPTION	STATUS
91-96, 99, 100-102		Closed
97	Ulf Jahr and Andreas Ritter will create new examples of eFF schema. Frederic Durand has the action to verify the accuracy of the preliminary eFF schema developed by Ulf.	Open
98	Andreas Ritter and Jocelyn Descaillot volunteered to prepare a more specific proposal for the GACS protocol for consideration at the January 2007 Telecon. To be considered by NIS SC.	Open

Table 12: Action Items Meeting (February 2007)		
#	DESCRIPTION	STATUS
109 – 120		Closed
121	Frederic Durand will submit a modified (supplement 1) eFF schema with the new attributes that have been approved by the subcommittee (including the input from Ludovic Lengrand). See also # 141.	Open

Table 17: Action Items AOC Meeting (June 2007)		
#	DESCRIPTION	STATUS
130 - 137		Withdrawn
138	Dave Knerl will provide additional flight plan examples including a re-clearance.	Open
139 – 140, 143, 146		Closed
141	Frederic Durand will make modifications to the FlightPlan schema to reflect the recommendations of June 2007 AOC SC meeting. Expect an input to the Oct TWG.	Open
142	Dave Knerl will gather additional information concerning the constructs that have been developed within FAA, US Navy, NOAA, and WMO to define elements and attributes applicable to aviation weather products. He will also look into RTCA SC-206 program. Robert Popov reported that a Eurocontrol activity exists, but will not have a weather product definition for at least 2 years. David O’Kelley to inquire as to definitions by WSI.	Open

144	Ulf Jahr will prepare edits to Chapter 10 (Ref. Item 11 of Airbus list of AFR issues) to propose an expanded request service downlink which allows request of specific data for the various elements of the Topic schema.	Open
145	Airlines and eFF vendors are asked to validate the existing flight plan schema and provide flight plan examples for review by the October 2007 TWG. An initial input was supplied by LH Sys. The work is still ongoing.	Ongoing

Table 18: Action Items AOC/ELPT ad hoc Meeting (June 2007)		
#	DESCRIPTION	STATUS
147-148		Closed
149	Tim Anstey and Steve Yukawa will define some typical message sequence diagrams for a typical flight.	Open
150	Tim Spears will prepare a proposal for the constraints to message sequence relative to technical keys.	Open
151	Dirk Zschunke will prepare edits to Chapter 4 to define submit (SUB) and report (REP) messages.	Open

Table 22: Action Items AOC Meeting 12 (July 2008)		
#	DESCRIPTION	STATUS
157	David O'Kelley will research flight plan enroute diversion route information content to be added to the FlightPlan schema.	Open
158	David O'Kelley will research the format of latitude and longitude used in NDBX.	Open
159	Dirk Zschunke Waypoint Identification (id) needs further clarification. Recommend that the attribute be designated as optional or mandatory.	Open
160	David O'Kelley Explain the use of order of Waypoints in arrays to designate the sequence of waypoint as an attribute.	Open
161	Dirk Zschunke volunteered to prepare a draft ATS Flight Plan schema for review.	Open
162	Dirk Zschunke reply to Ulf on XML encoding and version identification.	Open
163	Beka Teklu to provide use cases for sending eFF on ACARS	Open

Table 23: Action Items Telecon 39 (Aug 2008)

#	DESCRIPTION	STATUS
164	The equation used to derive a LeakDetection (Table in Section 5.4.7) currently produces the wrong result. An alternate equation has been proposed. Frederic Durand took an action item to resolve the issue by recommending the removal of the code or repairing it.	Open
165	Beka Teklu took an action to reconfirm that the contents of the CriticalPositionType Condition element (DC, 1X, 2X, DX) in the SuitableAptType Element Definition Table in Section 5.4.10, EROPS, is unique and has a different value than the Condition value in the header. Robert Popov was asked to comment on the text definition of the CriticalPositionType Condition element.	Open
166	The AOC SC proposal to change the definition of Potable Water PSWQ from a 1 to 3 digit percent to a 1 to 4 digit percent in tenths will have an impact on Airbus. Frederic Durand took an action to coordinate the change (confirm) with Airbus software designers.	Open