

April 24, 2006

Report of the AOC Standardization Teleconference 17 held on 14 April 2006

In attendance were:

Dirk Zschunke, Lufthansa - Chairman	Frederic Durand, Airbus
Ulf Jahr, LH Systems	Dave Knerr, WIFS
Scott Hoversten, USAF	Sonja Schellenberg, LH Systems
Rock Verochi, USAF	Therin Dastrup, Honeywell
Melissa Parrish, UPS	Andreas Ritter, LH
Brant Venice, UPS	Mike Russo, IA Staff

Introduction

AOC Subcommittee Chairman Dirk Zschunke moderated a 2-hour teleconference concerning the development of an AEEC Standard for AOC message definition. This teleconference was held from 0600 - 0840 UTC.

Agenda

Item	Topic	Handout
1	Admin - Report and Action Items	
2	Modification to the supplementary header	
3	ICAO and IATA airport codes	
4	Usage of operational data with safety impact (related to action item 56)	
5	EFF chapter 10 review based on the LSY proposal (time permitting)	

Review of Telecon 16

Dirk Zschunke led an abbreviated review of Telecon 16. Mike Russo conducted a status update of the Action Items. Action Items 25, 45, 53, 54, and 57 were closed. Completion of Action Item is expected to be delayed for 2 more meetings. The Action Item list is carried forward (attached). Two new action items were added during the teleconference.

Airport Codes and Flight Identifier/Flight Number

Dirk Zschunke led a discussion of the assignment of the format for encoding aircraft Flight Identification (Flight ID and Flight Number). He provided 2 handouts relative to this topic. The reference to ICAO 4444 has been removed in the absence of finding a definition. The current code used by Airbus for Airport ID code is XXXC. At a Telecon 16, it was decided to make the ICAO and IATA Flight ID individually optional, but it would be mandatory that one of them would be provided. Members pointed out that some applications only have Flight Number while some other applications need Flight ID. Resolution was deferred to the April Meeting. One approach would be to make an association of Flight ID and Flight Number. In that case a

decision would be needed as to whether the association is to be made on the ground or on the aircraft.

Safety Issues

Dirk Zschunke questioned whether or not any safety measures would be needed due to the implications of using the fuel type (Jet A or Jet A1) in the Fuel message and using the de-icer liquid type in De-ice messages. Eurocontrol WG-44's role was discussed. They only define airport data at this time. They will address Airport Data Bases and Interoperability in the future.

Flight Plan Format

Dave Knerr outlined his paper that fulfilled Action Item 19. Dave had volunteered to assume this task from Don Benfield, UPS. Dave noted that there were 4 parameters that appear in various airline flight plans that were not adequately treated in the current strawman eFF schema. These were: Airline Name, Date and Time, Aircraft Registration Number, and the identification of the optimum Route Type (optimum fuel, optimum time, or least cost). These will be added to the strawman schema. Airbus will review these and integrate them into the A380 as practical given the advanced status of programming of the eFF application.

Discussion of New Chapter 10

Ulf Jahr submitted a new draft of Chapter 10, eFF, for review, but insufficient time was available to review the new material. Completion of the review was deferred to the April Meeting.

New Action Items

Two new action items were issued. See attachment 1.

Next Teleconference

Telecon 18: The next telecon is tentatively scheduled for May 9th, 2006 at 1600 UTC.

Next Meeting:

The next meeting of the AOC Standardization Subcommittee is scheduled to be held April 25-27 in Louisville, Kentucky (hosted by UPS).

This report was prepared by Mike Russo, IA Staff.

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ACTION ITEM LIST

Table 1: Action Items - August 2005 Meeting		
#	DESCRIPTION	STATUS
	General Topics	
01	Frederic Durand/Catherine Bonnet will supply (and the IA staff will post) the Airbus EFF PowerPoint file on the web along with some additional slides on CG Targeting.	Open
02	Jocelyn Desciallot and Mike Russo will explore the alternatives for AEEC subcommittees that would be candidates to define the IP-based air-ground protocol(s). Jocelyn and Frederic Durand will work with the activity that performs this task to ensure that the formats and protocols satisfy the requirement of the AOC Subcommittee.	Open
03		Closed
04	Sonja Schellenberg will prepare a paper on the coding and use of the parameter AuthorProfile.	Open
05	Project Paper 633 will include a subsection covering XML over TCP/IP. Bob Stevens will develop a chart listing the pros and cons of XML justifying the selection of XML as the coding scheme for AOC IP messages.	Open
06	Bob Stevens will supply a white paper and presentation to the November 2005 meeting on XML over IP. He will recommend XML standards to used as the basis for implementation, a naming convention for XML Tags (Chapter 2), discuss Namespace (Chapter 4) and proposed text for XML address and XML signature provisions (Chapter 3) to be considered at the November Teleconference. Bob will complement the Chapter 3 input with a paper on XML security.	Open
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
08 – 14		Closed

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Table 1: Action Items - August 2005 Meeting (cont'd)		
#	DESCRIPTION	STATUS
15	Frederic Durand will propose a Database Activation Service message and associated processes. This input is expected in September 2005.	Open
16		Closed
17		Closed
18	Mike Russo has an open item to review DO-291 to determine its applicability to the EFF communications definitions undertaken by the AOC SC.	Open
19	Dave Knerr Don Benfield will review the FlightPlan schema in further detail and provide comments for consideration at the next teleconference.	Closed 03/14/06
25	A comprehensive list of parameters for Attachment 1 will be formed by Andreas Ritter by merging the Lufthansa list to Attachment 1. Didier Vivier will review the merged (CMU/NSS) parameter list for accuracy and duplication.	Closed 04/17/06
26		Closed

Table 2: Telecon 11-12 Action Items		
#	DESCRIPTION	STATUS
27 - 31		Closed

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Table 4: December Meeting Action Items		
#	DESCRIPTION	STATUS
32		Closed
33		Closed
34	Dirk Zschunke will check with Star Alliance airlines regarding if they current use ACARS de-icing messages. And, if so, which routing (which entity owns and maintains the de-icing supplier addressing table) they favor. Dirk will check with de-ice companies and authorities as well.	Open
35	Airbus (Catherine, Isabelle, or Frederic) will reassess the harmonization of units of measure (English vs. metric) in Chapters 6, 9, and 10. In Telecon 15, while progress was reported, it was decided that publishing the conversion factors (as a note) would be helpful.	Closed **
36	Catherine Bonnet will look into a redefinition of the W&B Schema to provide more flexibility in the definition of passenger seating classes. The current definition of 3 classes could be restrictive for future variations (different class identifiers, 4 classes etc.) Moved to Section 5; also applies to W&B Initialization data.	Open
37	Catherine Bonnet will look into error reporting messages to facilitate resolution of discrepancies in airborne and ground weight and balance values resulting from fueling.	Closed
38	Frederic Durand will supply a generic version of the block diagram that he drew at the Paris meeting that illustrates the transport of messages utilizing ARINC 665.	Closed
39	Frederic Durand will prepare text for Section 2.3 to describe file naming conventions to ensure compliance with ARINC 665.	Open
40	Alain Folny will develop a separate schema to identify topic definitions to enable the list of topics to be expanded with time without undue constraints. Airlines were invited to submit additional topic names to Alain. Alain will split the NOTOC topic into the DG (dangerous goods) part and the OTHERS part in accordance with IATA AHM.	Open

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Table 5: Telecon 13 Action Items		
#	DESCRIPTION	STATUS
41	Mike Russo will check for available means to provide access to the "AEEC633 AOC.zip" file at the ARINC website	Closed
42	Chapter 4.2.2: Frederic Durand and Alain Folny will crosscheck that XML types do not conflict with ACARS types	Closed
43	Discussion of the IATAAptCode definition (whether it is AAA or XXX or AAX), Mike Russo, Dirk Zschunke, and Frederic Durand will try to provide official IATA coding rule. Many airlines rely on the IATA Airport code in their operations. The status of the entry (optional/mandatory) will be revisited. Dirk will further research the airlines need to make the IATA code "mandatory."	Closed 2/14/06
44	Mike Russo will provide introductory text, in the form of a "for information" note to the appendix containing the Technical Logbook. Mike will add text in Chapter 7 will refer to the appendix and clarify the potential for additional definition within Project Paper 633 to ensure interoperability.	Closed 2/14/06
45	Section 10.2: Ulf Jahr and Alain Folny will clarify that file updates can be accomplished by (1) totally replacing the file and (2) by uploading only the changed sections.	Closed 04/17/06
46	The Update mode definition has not yet been removed from the transport mechanism. Since Chapter 2.3 already deals with the transport mechanism, Frederic Durand will try to find a way of eliminating the transport mechanism from section 10.	Open
47	Frederic Durand: Update table 11.2.3.2 header in Strawman 13/Draft 2 to read DRCACK; delete the last parameter separator from the table.	Closed 2/14/06

Table 6: Telecon 15 Action Items		
#	DESCRIPTION	STATUS
48	Frederic Durand will continue the search for a painless solution to the need to mandate either the IATA or ICAO Airport code to be entered into the Supplementary Header. He will investigate the potential for an amalgam solution that allows for the use of either representation in a field that is 4 characters in length (ICAO or SpaceIATA).	Closed 3/14/06
49	Frederic Durand will add Free Text parameters to XML schema.	Closed 3/14/06
50	Frederic Durand will work with Dirk Zschunke to develop a Loadsheel and Trimsheet schema to Chapter 5.	Open
51	Members will ask their CAAs and weather data providers to validate the Chapter 5 NOTAM and Airport Weather XML schemas: Dirk Zschunke	Open

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	for Germany; Nicolas Teot for France.	
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Table 7: Telecon 16 Action Items		
52	Frederic Durand will consider an approach to flight identification (FlightID and FlightNum) that would mandate that flight identification be provided. The form could be as FlightID, FlightNum, or both. Another consideration will be how to address applications that require a unique form of flight identification e.g., eFF requires FlightID. A third consideration is to ensure compatibility, e.g., avoid a definition that would allow the use of one form of identification in the uplink and the other form in the downlink.	Open
53	Dirk Zschunke will check with fuel suppliers to determine if there are other sources for FlightId.	Closed 04/17/06
54	Mike Russo will identify the specific location of the Airport Code definition in ICAO 4444.	Open
55	Frederic Durand will check with Airbus Operational personnel on the use of ICAO 4444.	Open
56	Airbus (Frederic Durand) and Lufthansa (Dirk Zschunke) will work to re-evaluate the safety status (minor hazard?) of Fuel Type and De-ice Liquid Type.	Open
57	Frederic Durand will develop draft Chapter 10, eFF, changes for review by the subcommittee at the 25-27 April AOC meeting. Ulf Jahr will review the changes in advance with special attention to Sections 10.1 and 10.6.	Closed 04/17/06