

**ATTACHMENT 1  
ACTION ITEMS**

April 6, 2007

**Report of the DSEC Telecon 9 held on 4 April 2007**

In attendance were:

Doug Murri, Southwest	Dave Coombs, Carillon
Mike Olive, Honeywell	Mike Russo, IA Staff
Lou Toth, Honeywell	

Mike Russo opened a one-hour teleconference. The primary topics were the resolution of intellectual property rights issues (with regard to the acceptability of PP823 for adoption) and the status of action items to progress the drafting of new sections of PP823. This teleconference was held from 1500 - 1600 UTC.

Secretary Mike Russo introduced the proposed agenda.

<b>Telecon 9 Agenda</b>		<b>4 April 2007</b>
	<b>Description</b>	<b>Documents</b>
1	<a href="#">March Meeting Report and Telecon 8 Report</a>	
2	<a href="#">Report of ATA/DSWG – Mike Olive</a>	
3	<a href="#">Action Item Review</a>	
4	<a href="#">Review of AEEC Mid-Term Guidance</a>	
5	<a href="#">Close</a>	

**Introduction**

Mike Russo opened the teleconference with introductions. He stated that the objective of the teleconference was to review the guidance of the 2007 AEEC Mid-Term meeting regarding the focus of the DSEC Subcommittee. Members noted that they had not received the WebEx announcement and had to use a previous announcement to identify the proper phone number to access the teleconference. This potentially resulted in a low attendance.

**Discussion of Commitment to License**

The 2007 AEEC Mid-Term Open Session meeting was held on 3 April. Mike Russo attended the Mid-Term meeting. He reported that AEEC had previously expressed concern that patented intellectual property was included in PP823 with particular interest regarding the deviation of the Honeywell commitment to license from the standard terminology in the AEEC template based on comments to this effect by the ARINC IA legal counsel. An additional sentence at the end of section 1 of the original Honeywell commitment to license (March 2006) calls for reciprocity in the release of intellectual property. The initial problem with this sentence was its implication for coverage of new functionality to be added invented by a licensee and incorporated into the standard at a future date. Licensees protested this requirement as “signing a blank check.”

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In accordance with the action item of DSEC Telecon 8, Honeywell provided a revision of its commitment to license to reflect concerns expressed by potential licensees. One revision in the letter was to limit the reciprocity to functionality that was contained in the initial adopted standard. This revised commitment to license (March 2007) was presented to AEEC by Mike Russo. Don Shell, Honeywell, provided background and insight into the process that manufacturers must go through in order to obtain a patent and the uncertainties of this process. He answered questions regarding the necessity of having a patent. At the conclusion of the discussion, AEEC developed the following guidance:

“ExCom proposes DSEC assure ExCom of the following prior to proposing adoption of PP823:

1. That all possible alternatives have been explored and that ExCom emphasizes that the normal policy is that new standards not include patented technology.
2. DSEC should describe to ExCom how the final decision was decided, including what considerations were made as to the benefits to be gained by the industry because of the adoption of this standard.
3. That PP823 describes an ACARS security mechanism that will be widely adopted and implemented, including ground infrastructure providers as well as avionics vendors.”

The entire AEEC position paper is attached.

Referencing item 1, Lou Toth entered a strong protest that a functionality that has not been questioned for over one year of development should be re-opened at this late stage in the development process.

#### **ATA DSWG Report**

Mike Olive provided a status report of the ATA/DSWG development of digital certificate. The DSWG is supportive of the functionality that is being defined in PP823. The final Certificate Policy (CP) is nearing completion. It is expected to be ready in June. Mike Russo commented that AEEC had expressed its appreciation that liaison and harmonization of DSEC and DSWG is being made.

#### **Action Items**

Mike Russo led a brief review of the status of open action items. There were no new action item assignments. A copy of the action item list from Telecon 7 is carried forward unchanged for reference.

Mike Russo was directed to ensure that the action item list is issued to DSEC members. Its inclusion in this report can be used to achieve this goal. Mike note that the distribution of the announcement of Telecon 9 was flawed. He volunteered to investigate and resolve the problem.

#### **Next Telecon/Meeting**

The next meeting (DSEC7) is scheduled to be held on 5-7 June in Annapolis, Maryland. Teleconference 10 is scheduled for 2 May. This report was prepared by Mike Russo, IA Staff.

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<b>Table 1: Action Items – Meeting 1, January 2006 Meeting</b>		
#	DESCRIPTION	STATUS
01-06_01 – 04		Closed 3/21/06

<b>Table 2: Action Items – Telecon 1, 15 February 2006</b>		
#	DESCRIPTION	STATUS
02-06_05-06		Closed 3/21/06

<b>Table 3: Action Items – Meeting 2, 21-23 March 2006</b>		
#	DESCRIPTION	STATUS
03-06_07		Closed 11/29/06
03-06_08	Mike Russo will explore the viability of tagging requirements in ARINC Standards with AEEC members. Julien Touzeau will provide an example for sharing with members. <b>Mike Russo will present this to AEEC <del>at its on</del> via e-mail.</b>	Open
03-06_09		Closed

<b>Table 4: Action Items – Meeting 3, 23-24 May 2006</b>		
#	DESCRIPTION	STATUS
05-06_10-11		Closed 7/12/06
05-06_12	Curtis Talbott, Rockwell-Collins, will submit recommended parameter settings when using DEFLATE as the compression algorithm.	<b>Closed</b> <b>02/27/07</b>

<b>Table 5: Action Items – Telecon 4, 12 July 2006</b>		
#	DESCRIPTION	STATUS
07-06_13-14		Closed

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<b>Table 5: Action Items – Telecon 5, 4 October 2006</b>		
<b>#</b>	<b>DESCRIPTION</b>	<b>STATUS</b>
10-06_15		Closed 12/18/06

<b>Table 6: Action Items – Meeting 5, 29 November 2006</b>		
<b>#</b>	<b>DESCRIPTION</b>	<b>STATUS</b>
11-06_16	<b>Frederic Durand</b> was tasked with expanding the detail of his proposal for defining the session management as an application. His proposal was to delete the AMS ID and add a new label inside the ACARS header. In particular, the structure of the header needs to be defined in such a way that it retains modularity and does not introduce redundant header entries. Frederic will coordinate this proposal with <b>Mike Olive</b> and bring it to DSEC Telecon 6 for consideration. As a follow-on, Frederic will develop draft changes to PP823 Part3 to isolate the session management function.	<b>Closed</b> <b>02/28/07</b>
11-06_17	<b>Mike Olive</b> will review the prioritized list of security objectives to be included in PP823 Part 1.	<b>Closed</b> <b>02/27/07</b>

<b>Table 6: Action Items – Telecon 7, 17 January 2007</b>		
<b>#</b>	<b>DESCRIPTION</b>	<b>STATUS</b>
01-07_18	<b>Stephane Tamalet</b> will develop flow diagrams for the shared secret initialization process.	<b>Withdrawn</b> <b>02/27/07</b>
01-07_19	<b>Alain Bothorel</b> took an action item to draft <del>new shared secret</del> <b>using</b> PICs <b>for PP823 P3</b> . <b>Eric Mehn</b> will support the effort.	<b>Closed</b> <b>02/27/07</b>

<b>Table 7: Action Items – Meeting, 27 February – 1 March 2007</b>		
<b>#</b>	<b>DESCRIPTION</b>	<b>STATUS</b>
02-07_20	<b>Eric Mehn and Debbie Jacobs</b> will assess the potential need for additional mechanisms to support internetworked air-ground encrypted messages, i.e., where there is a handoff from the initiating DSP to another DSP (where the DSP that is connected to the user does not support security for that user) for message delivery. See Honeywell Comment Disposition C-1 p150 Note 5. <b>Alain Bothorel</b> will define PICs to support the internetworking functionality and any new	Open

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	<b>provisions required by the avionics.</b>	
02-07_21	<p><b>PP823 Part 1 includes a diagram and references to future ARINC Standards for ATN and IP as Parts 4 and 5 of PP823 to be developed in the future. AEEC has recently assigned the responsibility for this work to the NIS Subcommittee. <b>Mike Russo</b> will ask the NIS SC to determine where they will publish provisions for ATN and IP security: PP823 or a different ARINC Standard. This will enable the DSEC SC to retain/delete these sections with references to Parts 4 and 5 held as placeholders for this information.</b></p> <p><b>Similarly, there is a need for a consolidated description of key management (defined in PP823 Part 2). If there is an intention on the part of the NIS SC to publish its own unique definition of key management, this could impact the work of the DSEC SC on Part 2. Mike will ask for advice in this regard as well.</b></p>	<b>Closed 02/28/07</b>
02-07_22	<b><b>Mathias Julien</b> will revise text of Section 3.4.6 and Figure 3.5-1 of PP823 Part 1 to clarify the ability of a user to turn off any security provisions. This feature is needed in certain localities where the government restricts the use of security.</b>	Open
02-07_23	<b><b>Michael Leonard</b> and <b>Dave Coombs</b> offered to assist Mike Olive in expanding the content of Section 3.1, Asymmetric key Management, and Section 3.2, Key Management Life Cycle of Part 2. Stephane Tamalet offered to provide an equivalent input for Section 4.0, Symmetric Key Management.</b>	Open
02-07_24	<b><b>Cecile Morlec</b> will provide a report of the on the SAFEE compression experiment.</b>	Open

**ATTACHMENT 2**  
**AEEC Mid-Term Meeting**  
**3 April 2007**  
**Position Paper – DSEC Patent Issue**

## **Background**

The AEEC Executive Committee understands that the DSEC Subcommittee is considering language in Project Paper 823 that would incorporate references to technology that is the subject of a patent by Honeywell. ExCom understands that Honeywell has offered a Commitment to License their patented technology in accordance with the ARINC Patent Policy.

DSEC is in the process of considering draft PP823 and will likely propose a final draft be circulated prior to adoption consideration before the next General Session.

The Commitment to License as offered by Honeywell was reviewed by ARINC Counsel who noted that it differed from the standard Commitment in that it included language that expanded upon specific terms and conditions; i.e., that a reciprocal agreement be granted back to Honeywell.

Given that difference, ARINC Counsel recommended that ExCom review the Commitment offered by Honeywell.

At the General Session in Montreal in October 2006, the AEEC approved a modification to the patent policy that would eliminate the requirement for a proponent to provide a *pro forma* license which exhibited the terms and conditions that it would require. However, a Commitment to License was still a requirement for adoption of any standard that included reference to patented technology.

## **Discussion by ExCom**

ExCom discussed the issue during the Mid-Term Meeting. The following are highlights of that discussion:

- ExCom emphasized the following language in the standard Commitment to License: The license offered by the proponent shall be “under reasonable terms and conditions that are demonstrably free of any unfair discrimination or limitation of access.”
- The determination of what are “reasonable terms and conditions” is not a subject that ExCom wishes to entertain as it is a matter between the licensing parties.
- The Commitment to License provides for a means of arbitrating the determination of what are “reasonable terms and conditions” by binding arbitration.
- ExCom believes that patent-free alternatives must be seriously considered by all Subcommittees prior to proposing the adoption of any Standard requiring the implementation of the patent policy.
- ExCom desires that all adopted Standards have wide applicability and that no Standard should be adopted that will favor a single supplier. Therefore, all Subcommittees must assure that any Standard proposed for adoption will be implemented widely.
- The ExCom is an engineering body and not a legal body that has reservations about making decisions about legal matters.

## **Direction to the DSEC SC**

ExCom proposes DSEC assure ExCom of the following prior to proposing adoption of PP823:

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**AEEC Mid-Term Meeting**  
**3 April 2007**

**Position Paper – DSEC Patent Issue**

- That all possible alternatives have been explored and that ExCom emphasizes that the normal policy is that new standards not include patented technology.
- DSEC should describe to ExCom how the final decision was decided, including what considerations were made as to the benefits to be gained by the industry because of the adoption of this standard.
- That PP823 describes an ACARS security mechanism that will be widely adopted and implemented, including ground infrastructure providers as well as avionics vendors.