

AEEEC

Together "We Set the Standard."



Agenda Item 5 - Adoption Package
AEEC Mid-Term Session
October 6, 2011
Lisbon, Portugal

(prepared September 22, 2011)

INDUSTRY ACTIVITIES

Together "We set the standard."

Adoption Item Summary – Agenda Table 1

Item	Activity	Reference	Document & Title	Action		
				Pink	Yes	No
5a	NDB	11-130/NDT-151	Supplement 20 to ARINC 424: Navigation Data Base			
5b	XPDR	11-125/XPDR-172	Supplement 4 to ARINC 718A: Mode S Transponder			
5c	CSS	11-139/CSS-477	ARINC Project Paper 833: Cabin Universal Wireless Distribution System (UWDS)			
5d	SDL	11-105/SDL-063	ARINC Project Paper 835: Guidance for the Security of Software Loadable Parts Using Digital Signature			
5e	CSS	11-137/CSS-476	ARINC Project Paper 836: Cabin Standard Enclosures Modular Rack Principle (MRP)			
5f	EFB	11-135/EFB-013	Supplement 1 to ARINC 840: Electronic Flight Bag (EFB) Application Control Interface (ACI) Standard			

Agenda Item 5a.

Adoption of Draft 1 of Supplement 20 to ARINC Specification 424, Navigation Data Base (NDB)

- ▶ Navigation Data Base Working Group
- ▶ Prepared in response to APIM 11-005
- ▶ Scope:
 - The majority of the changes were added to support level of service based on published procedures operating minimums information for sensor independent RNAV Approach procedures.
- ▶ Document circulated for 30 days and is “Clean”
- ▶ Pink Pages: None
 - Note: Minor comments were received. They are viewed to be editorial in nature and will be included in the final publication.
- ▶ The APIM remains open
- ▶ Future work on ARINC 424 and 424A
 - ARINC 424
 - Project Paper 424A
- ▶ AEEC Executive Committee Action requested

Agenda Item 5b.

Adoption of Draft 1 of Supplement 4 to ARINC Characteristic 718A: Mark 4 Air Traffic Control Transponder (ATCRBS/Mode S)

- ▶ Traffic Surveillance Working Group
- ▶ Prepared in response to APIM 11-001
- ▶ Scope:
 - Supplement 4 to ARINC 718A reflects recent changes to the Mode S Transponder MOPS (RTCA DO-181E and EUROCAE ED-73E) as entered into ICAO Annex 10 Volume IV and ICAO Doc. 9871
 - It updates ADS-B OUT per RTCA DO-260B / EUROCAE ED-102A
- ▶ Documents circulated for 30 days and is “Clean”
- ▶ Pink Pages: None
- ▶ APIM status: Open
- ▶ Future work –
 - APIM 11-001 also authorized Supplement 1 to ARINC 735B (Traffic Computer TCAS and ADS-B Functionality) which is still open
- ▶ Future work on related documents
 - None
- ▶ AEEC Executive Committee Action requested

Agenda Item 5c.

Adoption of Draft 4 of Project Paper 833: Cabin Universal Wireless Distribution System (UWDS)

- ▶ Cabin Systems Subcommittee
- ▶ Prepared in response to APIM 07-002
- ▶ Scope is:
 - Project Paper 833 defines wireless communication in the cabin. It specifies the interface between multiple wireless systems to a Universal Wireless Distribution System (UWDS). The intent is to reduce the installation and integration effort for multiple stand-alone wireless systems.
- ▶ Document circulated for 30 days and is “Clean”
- ▶ Pink Pages: None
- ▶ APIM will be closed upon publication
- ▶ Future work on ARINC 833
 - None anticipated
- ▶ Future work on related documents
 - Definition of Cabin Wireless Access Point (CWAP) in Supplement to ARINC Specification 628, Part 1
- ▶ AEEC Executive Committee Action requested

Agenda Item 5d.

Adoption of Project Paper 835, Guidance for the Security of Software Loadable Parts Using Digital Signature

- ▶ Software Data Loader (SDL) Subcommittee
- ▶ Prepared in response to APIM 08-006
- ▶ Scope is:
 - Create a standard that defines methods used to secure software parts from the time of creation to the point-of-use. The method is independent of any particular delivery technology and ensures security through multiple distributions. The project also clarifies the differences between security methods used to validate crate transfers, LSP validation during transfer and storage, and LSP validation after loading in the target hardware.
- ▶ Document circulated for 30 days and is “Clean”
- ▶ APIM status: closed upon adoption
- ▶ Future work: Complete, no open action items
- ▶ Future work on related documents:
 - SDL is working on updates to ARINC 615-3 and ARINC 615-4 that will eventually lead to a new Project Paper 8XX document
- ▶ AEEC Executive Committee Action requested

Agenda Item 5e.

Adoption of Draft 4 of Project Paper 836: Cabin Standard Enclosures – Modular Rack Principle (MRP)

- ▶ Cabin Systems Subcommittee
- ▶ Prepared in response to APIM 08-011
- ▶ Scope is:
 - Project Paper 836 defines standard cabin equipment enclosures and provisions for equipment attachment on overhead racks
- ▶ Document circulated for 30 days
- ▶ Pink Page: Section 4.1.2 Equipment Bonding
 - per OSHA regulations (USA)
 - ▶ One bonding connection is required if voltage is less than or equal to 28 Vdc. (strike 42 Vdc)
 - ▶ Redundant bonding is required if voltage is greater than 28 Vdc. (strike 42 Vdc)
- ▶ The APIM will be closed upon publication
- ▶ Future work on ARINC 836
 - None anticipated
- ▶ Future work on related documents
 - None anticipated
- ▶ AEEC Executive Committee Action requested

Agenda Item 5f.

Adoption of Supplement 1 to ARINC Specification 840: Electronic Flight Bag (EFB) Application Control Interface

- ▶ Electronic Flight Bag (EFB) Subcommittee
- ▶ Prepared in response to APIM 09-003A
- ▶ Scope is:
 - Supplement 1 to ARINC Specification 840 provides the following enhancements to the original specification: application/service intents, configuration management, content data structures, inter-application communication and foreign language capability.
- ▶ Document circulated for 30 days and is “Clean”
- ▶ Pink Pages: None
- ▶ APIM is open for Supplement 2 development
- ▶ Future work on ARINC 840
 - Define an EFB Data Repository Service.
- ▶ Future work on related documents
 - ARINC 828: Electronic Flight Bag (EFB) Standard Interface
 - ARINC 834: Aircraft Data interface Function (ADIF)
- ▶ AEEC Executive Committee Action requested