

Cabin Systems

(CEI / 3GCN / 4GCN/ SI / CC)

Meeting Agenda

February 9-11, 2015

Melbourne, Florida

Dale Freeman, DAL, Chairman
Gerald Lui-Kwan, Boeing, Co-Chairman
Rolf Gödecke, Airbus , Co-Chairman

Cabin Systems Meeting Agenda

▶ Introductions

- Special Notes
 - ▶ Intellectual Property (Patent & Copyrights)
 - ▶ APIM Guidelines
 - ▶ New Members and Corporate Sponsors
- Acceptance of Previous Meeting Report (14-159/CSS-551)
- Current Drafts
 - ▶ Draft 2 of Supplement 2 to ARINC 404B – Adoption Circulation
 - ▶ Draft 1 of Supplement 3 to ARINC 628 Part 0 - New
 - ▶ Draft 6 of Supplement 7 to ARINC 628 Part 1 (CWAP) – New
 - ▶ Draft 1 of Supplement 8 to ARINC 628 Part 2 (Outlet Protection) - New
 - ▶ Draft 2 of Supplement 1 to ARINC 832 - New
 - ▶ Draft 2 of Supplement 4 to ARINC 628 Part 9 - New
- Working Papers Identification
 - ▶ Project Paper 836A strawman 2
 - ▶ Mini module patents (US and European)
 - ▶ Panasonic-suggested revisions to Menlo Park meeting report
 - ▶ Updated Airbus/IA Strawman for Supplement 1 to ARINC 836 (mini modules)
 - ▶ Boeing Strawman for Project Paper 800 Part 4 (Ethernet Testing)
 - ▶ APIM for Seat Production Testing Guidance
 - ▶ Airbus termination and strip length specifications
 - ▶ Panasonic EMI Test Results for CWAP
 - ▶ KID-Systeme EMI Test Results for CWAP

Objectives

- ▶ CSS/CWG Joint session
 - Supplement 1 to A800 Part 2 (Specification of Connectors)
 - Supplement 1 to A800 Part 3 (Specification of Cables)
 - Design Concepts for 10 GbE Contact
 - Strawman for PP800 Part 4 (Ethernet Testing)
 - Supplement 1 to A836 (Mini-MRP)
- ▶ Draft 1 of Supplement 3 to A628 Part 0
- ▶ Discuss Options for Supplement 7 to A628 P1 (CWAP)
- ▶ Seat Integration Activities
 - New Project Planning – Guidance for Seat Production Testing
 - Final Review of Draft 1 of Supplement 2 to A628 Part 2 (Outlet Protection)
 - Draft 1 of Supplement 1 to A832 (Copper/FO Hybrid)
- ▶ Project Paper 820 (Wireless Networks)
- ▶ Detailed Review of Supplement 4 to A628 P9 (Cabin Information Network)
- ▶ 10 GbE – ARINC 664 Part 2
- ▶ CSS/CWG/FOS Joint Session
- ▶ Agenda and Location for Next Meeting

Monday, 9:00 AM – 5:00 PM

▶ **CSS/CWG Joint Session**

– **ARINC 800, Part 2 (Specification of Connectors)**

- ▶ Add diameter range for 22, 24, and 26 AWG wire for data interconnect (A800P2-71)
- ▶ Verify voltage range, dielectric max voltage, and max current for 30-23 RM (A800P2-72)
- ▶ Fix temperature error in Figure A-7a and A-7b (A800P2-75)
- ▶ Provide Strawman definition for 30-23 insert and contact (A800P2-76)

– **ARINC 800, Part 3 (Specification of Cables)**

▶ **Technical concepts for 26 AWG quad and oct cables**

- ▶ Review RMs for 26 AWG Quad cable and 26 AWG oct cable (A800P3-6)
- ▶ Define shielding requirements for 24 AWG quad, oct and quad 26 AWG cables (A800P3-7)
- ▶ Propose technical concepts for 26 AWG quad and oct cables (A800P3-8)
- ▶ Develop section for the quad 26 AWG cable (A800P3-9)

– **10 GbE Contact**

- ▶ **Presentation - 24AWG/26AWG oct contact**
- ▶ **Design concept presentations**

All

CWG

Thales

Thales

IA

Thales/Amp

CWG

Suppliers

CSS

Airbus/Boeing

Suppliers

Airbus/IA

CSS/CWG

Amphenol

Suppliers

Monday, 9:00 AM – 5:00 PM (continued)

- ▶ **CSS/CWG Joint Session**
 - **Review Strawman of PP800, Part 4 (Cable Testing)**
 - ▶ Review proposed test configurations and perform adapter cable testing (A800P4-3)
 - ▶ Add a note to Table 3-1 to identify why specific cells are highlighted (A800P4-4)
 - ▶ Schedule test adapter cable verification criteria discussion (A800P4-5)
 - ▶ Develop a draft of A800P4 for review at the next meeting (A800P4-6)
 - **Supplement 1 to ARINC Specification 836 (Mini-MRP)**
 - ▶ Review proposal for PCB spatial location and connector external position (A836-28)
 - ▶ Distribute the Molex MMRP slot location presentation from Gdansk (A836-29)
 - ▶ Consolidate the weight information in section 4.1 into a table (A836-30)
 - ▶ Add wording in section 5 re: floating plug on tray/ fixed receptacle on enclosure (A836-31)
 - ▶ Provide strawman revision 2 to IA (A836-33)
 - ▶ Provide Strawman 2 for review at next CSS meeting (A836-34)
 - ▶ Identify connectors applicable to MMRP enclosures (A836-35)
 - ▶ **Supplement 3 to ARINC Specification 628 Part 0 (Overview)**
 - Add sections for A485P1 and P2 in section 1.0 (A628-P0-1)
 - **Perform 5-year review of Cabin Specifications (A628-P0-2)**
 - Add section for A836A (A628-P0-4)
 - Delete attachment 2 and add to A628P4C (A628-P0-4)
- All**
Boeing
Suppliers
Boeing
Boeing/IA
Boeing/IA
CSS
Suppliers
IA
Airbus.
Airbus
Airbus
IA
Airbus
CSS
IA
IA/CSS
IA
IA

Tuesday, 9:00 AM – 5:00 PM

- ▶ **Seat Integration Issues**
 - **Guidance for Seat Production Testing (New Project Planning)**
 - ▶ **Review and comment on APIM and Strawman input**
 - ▶ Finalize/distribute APIM for review. Distribute the Seat Suppliers. (CSS-01)
 - ▶ Develop list of Seat Suppliers. Invite Seat Suppliers to the next meeting (CSS-02)
 - **Final Review of S8 to ARINC 628 Part 2 (Outlet Protection)**
 - ▶ Prepare draft 1 of A628P2 supplement 8 and release for review (628P2-24)
 - **Supplement 1 to A832 (copper/FO hybrid)**
 - ▶ Incorporate new drawings from Airbus (832-164)
- ▶ **Options for Supplement 7 to A628 P1 (CWAP)**
 - Revise Attachment 18 to incorporate changes to the wiring to the DOM (628P1-192)
 - Revise figure 17-1 to remove colors from the ethernet interconnects (628P1-194)
 - Provide test results of CWAP connector configurations (628P1-196)
 - Provide EN4165 connector and cable build requirements for quad cable (628P1-197)
 - Update 17.7.7 for the additional ethernet port on the CWAP (628P1-198)
- ▶ **Project Paper 820 (Wireless Network)**
 - Review proposed strawman and provide comments
- ▶ **Detailed Review of S4 to A628, Part 9 (Cabin Information Network)**
 - Use cases and configuration for multi domain, single control panel use. (A628P9-4)
 - Investigate possible development of USB port control requirements (A628P9-5)
 - Review current draft of A628P9 supplement 4 (A628P9-6)
- ▶ **ARINC Specification 664, Part 2 (10 Gb Ethernet)**
 - 10 Gbe Matrix - POE power compared to the IEEE specification (CWG-10)
 - Develop first draft of supplement 3 for 10 GbE requirements (664P2-4)
 - Prepare briefing to FOS for updates to A803 and A804 (664P2-5)
 - Propose revision to ARINC 664 Part 2 Appendix I for 26 AWG (664P2-6)
- ▶ **Discuss agenda and locations for next meetings**

CSS

CSS

CSS

IA

IA/Airbus

CSS

IA

AB/Thales

IA

CSS

IA

IA

PAC/KID

Airbus/Boeing

IA

CSS

Suppliers

CSS

CSS

Boeing/PAC

PAC

CSS

AB/B/Thales

Boeing

IA/Lumexis

Boeing

All

Wednesday, 9:00 AM – 12:00 PM

- ▶ **Joint Session with CSS/CWG/FOS**
 - **10 Gbps Ethernet**
 - ▶ Revise APIM 12-004A to include 10 GbE optical contact
 - **Review Project Paper 845 (Expanded Beam) Status**
 - ▶ **Design Concept Selection**
 - ▶ **Project Paper 845 Review**
 - **Project Paper 846 (MT)**
 - ▶ **Status of MT termini within the FOS**
 - ▶ **Review applications and requirements for MT termini**
 - ▶ Provide use cases for implementation of MT termini (CWG-11)
 - ▶ Distribute the latest draft of A845 to IFES suppliers (CWG-13)
 - ▶ Review A845 for FO xcvr interoperability with EB termini (CWG-14)
 - ▶ **Presentation on Melbourne Active Fiber Optic Facility**
 - ▶ **Adjourn CSS/CWG – Continue FOS**
- CSS/FOS/CWG**
IA
CSS/FOS/CWG
FOS
FOS
CSS/FOS/CWG
FOS
CSS/FOS
Airbus/Thales
IA
IFE Suppliers
Cinch

2015 CSS Meetings Planning (Tentative)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
CSS S/C		9-11 Melbourne			19-21 Bruges			25-27 Spokane			TBD	
Connector WG		Same as CSS			Same as CSS			Same as CSS			Same as CSS	
Ku/Ka SatCom SC	20-22 Cocoa Beach											
GAIN S/C					No Meetings Planned							
NIS		10-12 Melbourne										
FOS		11-13 Melbourne										
SAI		4-6 Coral Gables										
APEX					12-13 TC Universal City, CA				28-1 Oct Expo Portland, OR		17-18 TC Newport Beach, CA	
AEEC				27-30 General Session Prague					23-24 Mid-Term Session Seattle			