

Cabin Systems

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

Meeting Agenda

*August 25-27, 2015
Spokane, Washington*

*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
 - ▶ Members and Corporate Sponsors
- Acceptance of Previous Meeting Report (15-088/CSS-563)
- Current Drafts
 - ▶ Draft 3 of Supplement 1 to ARINC 832
 - ▶ Draft 3 of Supplement 4 to ARINC 628 Part 9 - New
 - ▶ Draft 1 of Supplement 1 to ARINC 800 Part 3
 - ▶ Draft 2 of Project Paper 800 Part 4 – New
 - ▶ Draft 1 of Supplement 3 to ARINC 664 Part 2 - New
- Working Papers Identification
 - ▶ 800P2 - Amphenol/TEC Definition of 1610 Insert – Hybrid Copper-FO
 - ▶ 800P2 - Notes/Commentary concerning OEM Quad diameter – Action Item 800P2-81
 - ▶ 800P2 - Revised Drawings for Size 23 Contacts – Action Item 800P2-82
 - ▶ 800P2 - Discrepancies between EN4165 and A800P2
 - ▶ 800P2 - TEC Proposed Testing Revisions/Clarifications
 - ▶ 800P3 - TEC Proposed Properties for 26AWG Quad Cable and Cat6a Oct Cable
 - ▶ 800P3 - Airbus description of Transfer Impedance – Action Item 800P3-10
 - ▶ PP648 – Guidance for Seat Production Testing – BAE Section 1 Input
 - ▶ 832 - Airbus proposal for hybrid fiber optic/copper connections
 - ▶ 628 P1 – KID Proposal for Automatic Region Code Adaptation
 - ▶ PP820 – Thales Analysis of PA Override Requirements

Objectives

- ▶ Review of Current CSS Program
- ▶ Connectors and Cables
 - Supplement 1 to A800 Part 2 (Specification of Connectors)
 - Supplement 1 to A800 Part 3 (Specification of Cables)
 - Detailed Review of Draft 2 of PP800 Part 4 (Ethernet Testing)
 - Fiber Optic Connectors
- ▶ PP648 -- Guidance for Seat Production Testing
- ▶ Supplement 1 to A832 (Copper/FO Hybrid)
- ▶ CWAP Automatic Region Code Adaptation – A628 Part 1
- ▶ Project Paper 820 (Wireless Networks)
- ▶ Detailed Review of Draft Supplement 4 to A628 P9 (Cabin Information Network)
- ▶ Review Strawman 3 of ARINC 836A – mini-modules
- ▶ ARINC 664 Part 2 (10 Gb Ethernet)
- ▶ Agenda and Location for Next Meeting

Tuesday, 9:00 AM – 5:00 PM

- ▶ **Current CSS Program**
 - ▶ **Connectors and Cables**
 - **ARINC 800, Part 2 (Specification of Connectors)**
 - ▶ Clarify salt spray requirements and correct weight value
 - ▶ Consider TE proposal for DWV for twinax contact
 - ▶ Update requirements matrix to include min and max OD (A800P2-79)
 - ▶ Revise Figures 4-1c, A-9a and A-9b/ add commentary for dielectric OD spec (A800P2-81)
 - ▶ Revise drawing for figure A-3.3 to remove reference designators (A800P2-82)
 - ▶ Provide test results from testing of the 10Gb contact (A800P2-83)
 - ▶ Define the 10-02 insert to accommodate 2 fiber termini (832-166)
 - ▶ **Resolve discrepancies between ARINC 800 Part 2, Appendix A and EN4165**
 - **ARINC 800, Part 3 (Specification of Cables)**
 - ▶ Determine precedence of requirements for 26 gauge quad cable (A800P3-14)
 - ▶ Revise data tables in section 4.1.4 and 4.1.5 pending A800P3-14 (A800P3-15)
 - ▶ Create a 4 pair single cable section showing based on A664P2 (A800P3-16)
 - ▶ Incorporate both configurations of 4 pair cables in the 10Gb section (A800P3-17)
 - ▶ Provide performance information for the 10Gb 4 pair cable (A800P3-18)
 - **Detailed Review of Draft 2 of PP800, Part 4 (Cable Testing)**
 - **Fiber Optic Connectors (PP845 and PP846)**
 - ▶ Distribute the latest draft of A845 to IFES suppliers (CWG-13)
 - ▶ Determine whether their FO xcvs are compatible with A845 termini (CWG-14)
- Delta/IA**
All
CSS/CWG
IA
CSS/CWG
Airbus
IA
Amphenol
Radiall/Amp
TEC/Amphenol
CSS/CWG
CWG
TEC
IA
Boeing/IA
IA
Boeing
Boeing
CSS
IA
IFE Suppliers

Wednesday, 9:00 AM – 5:00 PM

- ▶ **PP648 - Guidance for Seat Production Testing**
 - Develop input for sections 1.1 and 1.2. Include Airbus seat testing strawman material (648-1)
 - Create Seat Group Testing ATP pyramid Test Hierarchy diagram (648-2)
 - Create input for section 1.4 and terminology (648-3)
 - ▶ **Supplement 1 to A832 (copper/FO hybrid)**
 - Define the 10-02 insert pin assignment and create drawings (832-166)
 - ▶ **Discuss Proposed APIM for CWAP Automatic Region Code Adaption**
 - ▶ **Project Paper 820 (Wireless Network)**
 - Review proposed strawman and provide comments (820-2)
 - Add commentary to analyze aircraft wiring if considering POE on CWAP LAN segments (820-3)
 - Determine the requirement for PA Override at the seat for an embedded wireless display (820-4)
 - Provide references to PA Override of audio at the seat (820-5)
 - ▶ **Detailed Review of S4 to A628, Part 9 (Cabin Information Network)**
 - Is IP subnet for Independent Seat Devices (172.18.0.0/16.) being used? (A628P9-9)
 - Prepare review draft and circulate (A628P9-10)
 - **Discuss need for Supplement 5 APIM to update cabin network definition**
- CSS**
Panasonic
Zodiac, BE
BAE
- Airbus**
Airbus
- KID**
- CSS**
Suppliers
Boeing
Boeing
Thales
- CSS**
CSS
IA
CSS

Thursday, 9:00 AM – 12:00 PM

▶ **ARINC Project Paper 836 (Mini-MRP)**

- Provide strawman revision 3 to IA (836-36)
- Provide Strawman 3 for review at next CSS meeting (836-37)
- Send IP disclosure paperwork to SQS (836-38)
- Define acceptable connector types for the A836A Mini-MRP (836-39)
- Define mini-MRP retention requirements (836-40)
- Discuss and agree to intermateability requirements of connectors in the mini-MRP (836-41)
- Define the internal PCB mounting for the mini-MRP (836-42)

▶ **Review Draft 1 of ARINC Specification 664, Part 2 (10 Gb Ethernet)**

- Propose revision to ARINC 664 Part 2 Appendix I for 26 AWG (664P2-6)
- Incorporate existing Quad cabling for 10 Gb links of limited distance (664P2-7)
- Update test plan section in A800 P2 to include the Cat 6a channel specification (664P2-8)
- Create draft for circulation from submitted strawman (664P2-9)

▶ **Discuss agenda and locations for next meetings**

▶ **Adjourn CSS**

CSS

Airbus

IA

IA

Airbus

Airbus

TEC, Mx, Amp

Airbus

CSS

Boeing

Boeing

IA

IA

All

2015-2016 CSS Meetings Planning (Tentative)

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN
CSS S/C		25-27 Spokane		27-29 Seville				TBD			TBD	
Connector WG		Same as CSS		Same as CSS				Same as CSS			Same as CSS	
Ku/Ka SatCom SC				20-22 Thousand Oaks, CA			TBD					
GAIN S/C				No Meetings Planned								
NIS				6-8 Chicago			TBD					
FOS				27-29 Tulsa, OK								
SAI			21-22 Seattle									
APEX			28-1 Oct Expo Portland, OR		17-18 TEC Newport Beach, CA							
AEEC			23-24 Mid-Term Session Seattle						23-24 General Session Atlanta			