

Cabin Systems

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

Meeting Agenda

October 27-29, 2015

Seville, Spain

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 (15-132/CSS-567)
- Current Drafts
 - ▶ Draft 4 of Supplement 1 to ARINC 832 - New
 - ▶ Draft 1 of Supplement 1 to ARINC 800 Part 2 - New
 - ▶ Draft 1 of Supplement 1 to ARINC 800 Part 3
 - ▶ Draft 1 of Supplement 3 to ARINC 664 Part 2
- Working Papers Identification
 - ▶ 628P1 – Airbus Proposal for CWAP Test Mode
 - ▶ 628P1 – APIM 15-006
 - ▶ 628P1 – Wireless LAN Leakage Test Plan – ZII Proposal
 - ▶ PP648 – Thales Proposal for Seat Production Testing Workflow
 - ▶ 800P2 – Insert 1610 Proposed Drawings
 - ▶ 800P2 – Radiall Comments on Twinax DWV
 - ▶ 800P2 – Radiall Comments on Octoax Contact Status
 - ▶ 800P3 – TEC Response – Impact from Shield Choices
 - ▶ 800P3 TEC Proposals for Quad and Oct Cable tests
 - ▶ PP820 –Strawman
 - ▶ PP836A – Radiall Proposal for EPX connector

Objectives

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

Tuesday, 9:00 AM – 6:00 PM

- ▶ **Current CSS Program**
- ▶ **ARINC 800, Part 2 (Specification of Connectors)**
 - Provide test results from testing of the 10Gb contact (A800P2-83)
 - Incorporate salt spray testing and DWV changes (A800P2-84)
 - Define the maximum wire OD for size 24 contacts in the 16-02 insert (A800P2-85)
 - Create a drawing for A800P2 16-10 insert for inclusion in the specification (A800P2-86)
 - Compare the EN4165 specification vs the BACC requirements. (A800P2-87)
 - **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)
- ▶ **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)
 - Add design guidance for placement of fiber termini in an insert to A803 (CWG-15)
- ▶ **ARINC Project Paper 836A (Mini-MRP)**
 - Send IP disclosure paperwork to SQS (836-38)
 - Intermateability requirements of connectors in the mini-MRP (836-41)
 - Provide information on the proposed connectors (836-44)
 - Provide information on insertion distances, insertion and removal forces (836-45)
 - Define grounding concepts (836-46)
- ▶ **Supplement 1 to A832 (copper/FO hybrid)**
 - Propose fiber location in 16-10 insert/ cross section of hybrid fiber-copper cable. (832-
 - Incorporate Airbus inputs for the 16-10 hybrid insert into the draft 2 (832-)

Delta/IA CSS/CWG

Radiall/Amp
IA

TEC

Amp/TEC

TEC

CSS/CWG

CWG

TEC

IA

Boeing/IA

IA

Boeing

CSS

IA

IFE Suppliers

FOS/IA

CSS

IA

TEC, Mx, Amp

Suppliers

TEC

Airbus

Airbus

TEC

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 input for section 1.4 and terminology (648-3)
- Present data on multiple retest required to complete ATP (648-5)
- Develop a draft for a data driven process for seat acceptance (648-6)
- Provide a block diagram of testing that can be performed at the Seat Supplier. (648-7)
- Develop a flow sequence for the seat testing (648-8)

▶ **Project Paper 820 (Wireless Network)**

- Review proposed strawman and provide comments (820-2)
- Change Control Panel interface to 1 gb (820-6)
- Add Discretes for power control and RF control (820-7)
- **Discuss Network Security Considerations**

▶ **ARINC 628 Part 1 – HD Landscape Camera Interface**

▶ **Supplement 8 to ARINC 628 Part 1 – CWAP Global Operation**

- **Proposal for CWAP Test Mode**
- **Industry Presentation on Global CWAP Operations**
- **Industry Presentation on Global CWAP Operations (tentative)**
- **Regulatory Situation/Coordination**
- **Discussion of New APIM 15-006, Plan to Proceed**

▶ **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)

▶ **Reception/Demonstration at VT Miltope**

CSS

Panasonic
BAE
BE
Thales
IFE Suppliers
Zodiac

CSS

Suppliers
Boeing
Boeing
Boeing

Latacoere

CSS

Airbus
KID/CISCO
LHT/Aruba

CSS

CSS

CSS

Boeing
Boeing
IA

Thursday, 10:00 AM – 1:00 PM

- ▶ **Interactive Discussion/Session at Airbus, San Pablo** **CSS**
- ▶ **Reconvene to Discuss agenda and locations for next meetings** **All**
- ▶ **Adjourn CSS**

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				16-18 Cocoa Beach Tucson Boulder			24-26 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 Renton, WA			TBD					
FOS				27-29 Tulsa, OK								
SAI			21-22 Seattle					9-11				
APEX			28-1 Oct Expo Portland, OR		17-18 TEC Newport Beach, CA						10-11 TEC	
AEEC			23-24 Mid-Term Session Seattle						23-24 General Session Atlanta			