

Cabin Systems

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

Meeting Agenda

*August 12-14, 2014
Warnemünde, Germany*

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

Cabin Systems Meeting Agenda

▶ Introductions

- Special Notes
 - ▶ Status of ARINC Industries Activities Transition to SAE
 - ▶ Intellectual Property (Patent & Copyrights)
 - ▶ APIM Guidelines
 - ▶ New Members and Corporate Sponsors
- Acceptance of Previous Meeting Report (14-082/CSS-540)
- Current Drafts
 - ▶ Draft 5 of Supplement 7 to ARINC 628 Part 1 (CWAP) – New
 - ▶ Draft 1 of Supplement 4 to ARINC 485 Part 2 - New
 - ▶ Draft 1 of Supplement 1 to ARINC 832 - New
 - ▶ Draft 1 of Supplement 4 to ARINC 628 Part 9
- Working Papers Identification
 - ▶ A800 P2 Revised Appendix A Figures
 - ▶ ARINC 404B Proposed Revision (IA)
 - ▶ Alternatives for Supplement 1 to A836
 - ▶ CWAP Addressing Table Comments (A628P1-186)
 - ▶ Airbus proposal for radiated power requirement (A628P1)
 - ▶ Discrete Signal Definition, A628P1 Proposal
 - ▶ Proposed changes for A485P1 (Thales)
 - ▶ Use cases for control panel sharing, BAE

Objectives

- ▶ Discuss Current CSS Work Program
- ▶ Provide Guidance to the CWG
 - Supplement 1 to A800 Part 2 (Specification of Connectors)
 - Strawman for PP800 Part 4 (Ethernet Testing)
- ▶ 10 GbE – ARINC 664 Part 2
- ▶ Fiber Optic Hybrid Connectors/Cables
- ▶ Molex Presentation on Mini-MRP
- ▶ Supplement 1 to A836 (Mini-MRP)
- ▶ Review Draft 5 of Supplement 7 to A628 P1 (CWAP)
- ▶ Define Discrete Signals
- ▶ Project Paper 820 (Wireless Network)
- ▶ Discuss Supplement 3 to A628 Part 0
- ▶ Review Seat Integration Activities
 - FAA/EASA Outlet Protection (A809/A832/A628P2)
 - Supplement 1 to A832 (Copper/FO Hybrid)
 - Review Draft 1 of Supplement 4 to A485 (BITE Reporting)
- ▶ Supplement 4 to A628 P9 (Cabin Information Network)
- ▶ Summary from CWG
- ▶ Agenda and Location for Next Meeting

Tuesday-Wednesday, 9:00 AM – 5:00 PM

▶ **CSS Work Program**

▶ **CSS/CWG Joint Session**

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

- ▶ Provide graphic for the 30-23 insert for Figure 4-1b (A800P2-65)
- ▶ Revise the reference datum of the fixation groove to the front of the flange (A800P2-69)
- ▶ Revise drawings and notes on Figures A-7a and A-7b (A800P2-70)
- ▶ 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)
- ▶ Provide electrical specifications of the current 30-23 insert (A800P2-73)

– **Review Strawman of PP800, Part 4 (Cable Testing)**

- ▶ Review proposed test configurations and perform adapter cable testing (A800P4-2)

– **Proposed Supplement 2 to ARINC Specification 404B**

– **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)
- ▶ **Revise APIM for 664P2 to show revised schedule**

– **Fiber Optic (Project Paper 845)**

- ▶ Provide use cases for implementation of MT termini (CWG-11)
- ▶ Verify Lumexis need for a hybrid insert/cable for MT fiber and copper (CWG-12)

– **Presentation – Mini MRP**

– **Supplement 1 to ARINC Specification 836 (Mini-MRP)**

CSS

All

CWG

Amphenol
TEC/Amphenol

TEC

Thales

Thales

Amphenol

Boeing

Suppliers

IA

CWG

AB/B/Thales

Boeing

CSS

CWG

Airbus/Thales

IA

Molex

CSS

Wednesday, 9:00 AM – 5:00 PM

- ▶ **Detailed Review of Draft 5 of Supplement 7 to A628 P1 (CWAP)**
 - Revise Airbus drawing for CWAP TNC locations (628 P1-179)
 - Revise connector pinout in section 17 to reflect changes agreed to in the meeting (628 P1-181)
 - Incorporate an optional GbE port for J3 for AISD connectivity. (628 P1-185)
 - Verify RFC 5414 or 5415 for the CAPWAP protocol definition. (628 P1-186)
 - Further review use of 1-7 envelope for PCWAP (628 1-187)
 - Review Airbus proposed addressing map for CWAP (628 1-188)
 - Review Airbus proposed keying of DOM connectors (628 1-189)
 - **Discuss requirements for radiated power**
 - ▶ **Define Discrete Signals**
 - ▶ **Project Paper 820 (Wireless Network)**
 - ▶ **Discuss Supplement 3 to A628P0**
- CSS**
IA
IA
Airbus
Airbus
PAC
Suppliers
PAC/Th/L
Airbus
CSS
CSS
CSS

Thursday, 9:00 AM – 12:00 PM

▶ **Seat Integration Issues**

– **FAA/EASA Outlet Protection (A809/ A832/ A628P2)**

- ▶ Revise APIM 10-005C to update Section 2.2 to include new power guidance (628P2-23)

– **Supplement 1 to A832 (copper/FO hybrid)**

- ▶ Review Airbus proposed changes to A832 and incorporate as required (832-157)
- ▶ Revise Figure 5-17 to call out DTU (832-158)
- ▶ Review power wiring and connector definition for 20-22 to the DOM (832-159)

– **Review Draft 1 of Supplement 4 to A485P2 (BITE)**

- ▶ Review Panasonic proposed changes to the protocol for self test reporting (485-P2-14)
- ▶ 'Self test completion' reported but 'data ready bit' is not set (485-P2-15)
- ▶ Develop Draft 1 for review at next meeting (485-P2-16)
- ▶ Discuss need for A485 Part 1 Supplement

▶ **Supplement 4 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)

▶ **Summary Report from the CWG Work (A800, PP845, and A664P2)**

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

CSS

CSS

IA

AB/Thales

Thales/IA

Thales

Thales

AB/Th/PAC

Thales

PAC

IA

CSS

PAC

CSS

Boeing/PAC

CWG

All

Connector Working Group

- ▶ **Tuesday:**
Meet with the CSS to discuss connector issues needing further guidance
- ▶ **Wednesday-Thursday**
Continue meeting to develop recommendations for Gigabit Ethernet test methods, A832 connections, hybrid fiber optic connectors, and 10Gb Ethernet
 - See the CWG agenda distributed separately

2014-2015 CSS Meetings Planning (Tentative)

	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR
CSS S/C	13-15 Gdansk, Poland			12-14 Warne- münde Germany			11-13 Menlo Park			TBD Cocoa Beach		
Connector WG	Same as CSS			Same as CSS			Same as CSS			Same as CSS		
Ku/Ka SatCom SC			8-9 Seattle, WA						20-22 Cocoa Beach (tentative)			
GAIN S/C					No Meetings Planned							
NIS	20-22 EI Segundo, CA				23-25 Renton, WA							
FOS		11-13 Samoens, France					4-6 Newark, Delaware			Same as CSS		
SAI		24-26 Seattle, WA				20-21 Brussels						
APEX	13-14 Universal City, CA (TC)				15-18 EXPO Anaheim, CA		18-19 TC					
AEEC						24 Mid-Term Session Brussels						27-30 General Session Prague