

ARINC Project Initiation/Modification (APIM)

- 1.0 Name of Proposed Project** **APIM 17-012**
- Update ARINC 808 (3GCN Cabin) and ARINC 809 (3GCN Seats) to define a 3GCN+ architecture capable of supporting multiple aircraft types with fiber optic technology.
- Name of Originator and/or Organization**
Gerald Lui-Kwan, Boeing
- 2.0 Subcommittee Assignment and Project Support**
- 2.1 Suggested AEEC Group and Chairman**
Cabin System Subcommittee (CSS)
Dale Freeman, Delta Air Lines
- 2.2 Support for the activity (as verified)**
Airlines: Delta
Airframe Manufacturers: Boeing, Airbus
Suppliers: Thales, Panasonic, ZII
Others:
- 2.3 Commitment for Drafting and Meeting Participation (as verified)**
Airlines: Delta
Airframe Manufacturers: Boeing, Airbus
Equipment Suppliers: Thales, Panasonic, ZII
Others:
- 2.4 Recommended Coordination with other groups**
FOS, NIS
- 3.0 Project Scope (why and when standard is needed)**
ARINC 808 and ARINC 809 were developed as the 3GCN standard architecture for the IFE industry. Network technology is evolving and the development of 10 Gbps fiber interfaces provides a growth path for the 3GCN architecture that will support future IFE features such as 4K UHD video to be incorporated to create a 3GCN+ architecture.
- 3.1 Description**
The ARINC 808 and ARINC 809 defined 3GCN architecture will be revised to incorporate a 10 Gbps fiber backbone routed between the head-end IFE equipment and the Area Distribution Boxes that form the cabin network distribution system.
- 3.2 Planned usage of the envisioned specification**
New aircraft developments planned to use this specification yes no

4.2.2 Benefits for Airframe Manufacturers

Standardized products from a variety of suppliers applicable to multiple airplane platforms.

4.2.3 Benefits for Avionics Equipment Suppliers

Revision of an existing architecture that incorporates new and existing technology and improves system performance.

5.0 Documents to be Produced and Date of Expected Result

Supplement 3 to ARINC 808 and Supplement 4 to ARINC 809.

5.1 Meetings and Expected Document Completion

The following table identifies the number of meetings and proposed meeting days needed to produce the documents described above.

Activity	Mtgs*	Mtg-Days (Total)*	Expected Start Date	Expected Completion Date
<i>Supplement 3 to ARINC 808 & Supplement 4 to ARINC 809</i>	<i>8</i>	<i>24</i>	<i>10/2017</i>	<i>10/2019</i>

* Meetings reflect ongoing CSS activities responsible for multiple ARINC Standards.

6.0 Comments

None.

6.1 Expiration Date for the APIM

January 2020

Completed forms should be submitted to the AEEC Executive Secretary.