

ARINC Project Initiation/Modification (APIM)

- 1.0 Name of Proposed Project** **APIM 18-006**
Supplement 2 to ARINC Specification 664: Aircraft Data Network, Part 1, Systems Concept and Overview
- 1.1 Name of Originator and/or Organization**
ARINC Industry Activities staff
- 2.0 Subcommittee Assignment and Project Support**
- 2.1 Suggested AEEC Group and Chairman**
Staff activity using email and internet coordination
- 2.2 Support for the activity**
Airlines: ([AEEC ExCom Approved – October 18, 2018](#))
Airframe Manufacturers: TBD
Suppliers: TBD
Others: TBD
- 2.3 Commitment for Drafting and Meeting Participation**
Airlines: TBD
Airframe Manufacturers: TBD
Suppliers: TBD
Others: TBD
- 2.4 Recommended Coordination with other groups**
AGCS, DLK, NIS, SAI
- 3.0 Project Scope**
- 3.1 Description**
ARINC Specification 664 defines a ruggedized version of Ethernet for use in avionics networks. The first version of ARINC 664 was released in 2001. It is based on IEEE Std 802.3, Information Technology Exchange Between Systems. ARINC 664 deviates from the IEEE standards to meet environmental and regulatory requirements.
ARINC 664 is widely used on Airbus and Boeing programs starting with the A380 (certified in 2006) and many programs since that time.
ARINC Industry Activities has received comments (attached to this APIM).

3.2 **Planned usage of the envisioned specification**

New aircraft developments planned to use this specification yes no

Specify: Future aircraft

Modification/retrofit requirement yes no

Specify: future retrofit

Needed for airframe manufacturer or airline project yes no

Specify: Airbus, Boeing and other airplane programs

Mandate/regulatory requirement yes no

Program and date: No mandate

Is the activity defining/changing an infrastructure standard? yes no

When is the ARINC Standard required? 2018

What is driving this date? The desire for clear communication with industry

Are 18 months (min) available for standardization work? yes no

If NO, please specify solution: Not applicable

Are Patent(s) involved? yes no

If YES please describe, identify patent holder: Not applicable

3.3 **Issues to be worked**

ARINC Specification 664 Part 1 update is an AEEC staff activity:

- Collect and organize industry inputs
- Prepare and coordinate initial draft Supplement 2
 - Include industry inputs
 - Remove any ambiguities
 - Verify document references
 - Update acronym list
 - Update document format
- Circulate draft and solicit comments from industry
- Coordinate with industry including web conference as necessary
- Circulate final draft for comment in advance of the AEEC General Session and solicit comments
- Resolve any final comments over web conference and/or email coordination
- No in-person meetings necessary

4.0 **Benefits**

4.1 **Basic benefits**

Operational enhancements? yes no

For equipment standards:

6.1

Expiration Date for the APIM

October 2019

Completed forms should be submitted to the AEEC Executive Secretary and Program Director, Paul J. Prisaznuk (pjp@sae-itc.org)