ARINC Project Initiation/Modification (APIM)

# Name of Proposed Project

Supplement 4 to ARINC Characteristic 791 Part 1

Supplement 3 to ARINC 792

## Name of Originator and /or Organization

Amazon (Kuiper)

# Subcommittee Assignment and Project Support

## Suggested AEEC Group and Chairman

KSAT Subcommittee

Ryan Torgerson, The Boeing Company

Chris Schaupmann, Airbus

## Support for the Activity (as verified)

Airlines: Delta Air Lines, United Airline (TBC), American Airlines (TBC)

Airframe Manufacturers: Airbus, The Boeing Company

Suppliers: Collins Aerospace, Intelsat, SCI Technology, Panasonic

Others: Amazon, TE, COTSWORK, Amphenol CIT (TBC), Totaport

## Commitment for Drafting and Meeting Participation (as verified)

Airlines: Delta Air Lines

Airframe Manufacturers: Airbus, The Boeing Company

Suppliers: Collins Aerospace, Intelsat, SCI Technology, Panasonic

Others: Amazon, TE, COTSWORK, Amphenol CIT (TBD), Totaport

## Recommended Coordination with other Groups

FOS and NIS

# Project Scope (why and when standard is needed)

## Description

Draft guidelines for inclusion of terminals (e.g., LEO) with modems integrated in the outside antenna assembly.

Evaluate modman impact for configuration without a modem.

Re-evaluate 4 lug solution

Evaluate impact on standard wiring provisions.

Cleanup, add clarifications to existing supplement.

Incorporate ARINC 793.

Reference ARINC 791 Part 3 where Part2 was previously referenced.

## Planned usage of the ARINC Standard

New aircraft developments planned to use this specification yes  no

N/A

Other: (manufacturer, aircraft & date)

Modification/retrofit requirement yes  no

ARINC 791 equipped aircraft

Needed for airframe manufacturer or airline project yes  no

This project is to accommodate first Kuiper satcom installation

Mandate/regulatory requirement yes  no

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

When is the ARINC standard required? May 2026

What is driving this date? First Kuiper satcom installation

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

Are Patent(s) involved? yes  no

## Issues to be Worked

Create minimum of a quantity of 2, GbE interfaces to outside Antenna Unit.

Extra wiring from KPSU to modman.

Modman and Bulkhead Interfaces (BI) definition for GbE interfaces.

## Security Scope

Is Cyber Security Impacted (if YES, check box(es) below) yes  no

Aircraft Control Domain yes  no

Airline Information Services Domain yes  no

PAX Information and Entertainment Systems yes  no

Other:                                                                     yes  no

Coordinate with NIS (Project Paper 857)

# Benefits

## Basic Benefits

Operation enhancements yes  no

For equipment standards:

1. Is this a hardware characteristic? yes  no
2. Is this a software Characteristic: yes  no
3. Interchangeable interface definition? yes  no
4. Interchangeable function definition? yes  no

Is this a software interface and protocol standard? yes  no

Product offered by more than one supplier yes  no

Starlink, Hughes/Onewe

## Specific Project Benefits

(Describe overall project benefits.)

### Benefits for Airlines

Standard available for satcom installation

### Benefits for Airframe Manufacturers

Standard available for satcom installation

### Benefits for Avionics Equipment Suppliers

Standard installation kit

# Documents to be Produced and Date of Expected Result

ARINC 791 P1-4

ARINC 792-3

## Meetings an 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** |
| Document | # of mtgs | # of meeting days | Mm/yyyy | Mm/yyyy |
| A791 P1-4 | 5 | 15\* | Oct 2024 | May 2026 |
| Document | # of mtgs | # of meeting days | Mm/yyyy | Mm/yyyy |
| ARINC 792-3 | 5 | 15\* | Oct 2024 | May 2026 |

\* These meetings are in parallel (KSAT Subcommittee will develop ARINC 791 P1-4, ARINC 792-3 and ARINC 793 at the same meetings)

Online Conferences monthly or as needed.

# Comments

## Expiration Date for the APIM

October 2026

Completed forms should be submitted to ([aeec@sae-itc.org](mailto:aeec@sae-itc.org))