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 [x]  no [ ]

 ARINC 791 equipped aircraft

Needed for airframe manufacturer or airline project yes [x]  no [ ]

 This project is to accommodate first Kuiper satcom installation

Mandate/regulatory requirement yes [ ]  no [x]

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

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 [x]  no [ ]

Are Patent(s) involved? yes [ ]  no [x]

## 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 [x]  no [ ]

 Aircraft Control Domain yes [ ]  no [x]

 Airline Information Services Domain yes [x]  no [ ]

 PAX Information and Entertainment Systems yes [x]  no [ ]

 Other:                                                                     yes [ ]  no [ ]

Coordinate with NIS (Project Paper 857)

# Benefits

## Basic Benefits

Operation enhancements yes [ ]  no [x]

For equipment standards:

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

Is this a software interface and protocol standard? yes [ ]  no [x]

Product offered by more than one supplier yes [x]  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)