ARINC Project Initiation/Modification (APIM)

1.0	Name of Proposed Project
	Supplement 4 to ARINC Characteristic 791 Part 1
	Supplement 3 to ARINC 792
1.1	Name of Originator and /or Organization
	Amazon (Kuiper)
2.0	Subcommittee Assignment and Project Support
2.1	Suggested AEEC Group and Chairman
	KSAT Subcommittee
	Ryan Torgerson, The Boeing Company
	Chris Schaupmann, Airbus
2.2	Support for the Activity (as verified)
	Airlines: Delta Air Lines, United Airline (TBC), American Airlines
	Airframe Manufacturers: Airbus, The Boeing Company
	Suppliers: Collins Aerospace, Intelsat, SCI Technology, Panasonic
	Others: Amazon, TE, COTSWORK, Amphenol CIT (TBC), Totaport
2.3	Commitment for Drafting and Meeting Participation (as verified)
	Airlines: Delta Air Lines, American Airlines
	Airframe Manufacturers: Airbus, The Boeing Company Suppliers: Collins Aerospace, Intelsat, SCI Technology, Panasonic
	Others: Amazon, TE, COTSWORK, Amphenol CIT (TBD), Totaport
2.4	Recommended Coordination with other Groups
	FOS and NIS
3.0	Project Scope (why and when standard is needed)
3.1	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 (Interface between the airplane and antenna)
	Evaluate impact on standard wiring provisions.

Cleanup, add clarifications to existing supplement.

Incorporate ARINC 793.

Reference AR

INC 791 Part 3 where Part2 was previously referenced.

3.2 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 installa	ation
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 🛛

3.3 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.

3.4 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)

4.0 Benefits

4.1 Basic Benefits

	Operation enhancements For equipment standards:	yes □ no ⊠
	 a) Is this a hardware characteristic? b) Is this a software Characteristic: c) Interchangeable interface definition? d) Interchangeable function definition? 	yes ⊠ no □ yes □ no ⊠ yes ⊠ no □ yes □ no ⊠
	Is this a software interface and protocol standard?	yes □ no ⊠
	Product offered by more than one supplier <u>Starlink, Hughes/Onewe</u>	yes ⊠ no 🗆
4.2	Specific Project Benefits	
	(Describe overall project benefits.)	
4.2.1	Benefits for Airlines	
	Standard available for satcom installation	
4.2.2	Benefits for Airframe Manufacturers	
	Standard available for satcom installation	
4.2.3	Benefits for Avionics Equipment Suppliers Standard installation kit	

5.0 Documents to be Produced and Date of Expected Result ARINC 791 P1-4 ARINC 792-3

5.1 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
A791 P1-4	5	15*	Oct 2024	May 2026
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.

6.0 Comments

6.1 Expiration Date for the APIM

October 2026

Completed forms should be submitted to (aeec@sae-itc.org)