

## ARINC IA Project Initiation/Modification (APIM)

- 1.0 Name of Proposed Project** **APIM: 11-003**  
Supplement 7 to ARINC Specification 618: *Air/Ground Character-Oriented Protocol Specification*
- 1.1 Name of Originator and/or Organization**  
Jose Godoy, ARINC IA Staff
- 2.0 Subcommittee Assignment and Project Support**
- 2.1 Suggested AEEC Group and Chairman**  
Data Link (DLK) Systems Subcommittee  
Chairman: Joe Slavinsky, FedEx
- 2.2 Support for the activity (*all to be confirmed*)**  
Airlines: FedEx, Lufthansa (TBC)  
Airframe Manufacturers: Airbus, Boeing (TBC)  
Suppliers: Honeywell, Rockwell Collins (TBC)  
Others: SITA, ARINC (TBC)
- 2.3 Commitment for Drafting and Meeting Participation (as verified)**  
Airlines: FedEx (TBC)  
Airframe Manufacturers: Airbus, Boeing (TBC)  
Suppliers: Honeywell, Rockwell Collins (TBC)  
Others: SITA, ARINC (TBC)
- 2.4 Recommended Coordination with other groups**  
DLK Users Forum, SAI Subcommittee
- 3.0 Project Scope**
- 3.1 Description**  
The supplement provides updates to maximize ACARS air-ground link performance by refining timer values that are appropriate for the ATN environment. It also adds EFB information to the Downlink Message Originator table. The downlink message originator is used to identify which aircraft subsystem generated the downlink message.  
Broadcast/Multi-Aircraft Call functionality is added. VDL Broadcast allows an operator to disseminate information (NOTAMs, Weather information, etc.) to a group of aircraft, or to all aircraft in a region.  
This is a routine update to ARINC Specification 618.

### 3.2 **Planned usage of the envisioned specification**

New aircraft developments planned to use this specification      yes  no

Modification/retrofit requirement      yes  no

Specify:      Airbus families and Boeing families

Needed for airframe manufacturer or airline project      yes  no

Specify:      Lufthansa (Broadcast function)

Mandate/regulatory requirement      yes  no

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

Specify      (e.g., ARINC 429)

When is the ARINC standard required?

Oct 2011

What is driving this date?

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

Expect the DLK Systems Subcommittee to complete the task within  
approximately 6-8 months

Are Patent(s) involved?      yes  no

### 3.3 **Issues to be worked**

#### 4.0 **Benefits**

##### 4.1 **Basic benefits**

Operational enhancements      yes  no

For equipment standards:

a. Is this a hardware characteristic?      yes  no

b. Is this a software characteristic?      yes  no

c. Interchangeable interface definition?      yes  no

d. Interchangeable function definition?      yes  no

Is this a software interface and protocol standard?      yes  no

Specify:      Air/Gnd Interoperability

Product offered by more than one supplier      yes  no

Identify:      Honeywell, Rockwell Collins, SITA, ARINC

#### 4.2 **Specific project benefits (Describe overall project benefits.)**

##### 4.2.1 **Benefits for Airlines**

Aircraft operators will be able to broadcast simultaneously to cluster of aircraft.  
With VDL being mandated in Europe, existing POA broadcast is becoming

obsolete. VDL broadcasting will avoid saturating VHF/VDL frequencies that are uplinked individually to aircraft clusters.

ATN operation is improved.

#### 4.2.2 **Benefits for Airframe Manufacturers**

ATN operation is improved.

#### 4.2.3 **Benefits for Avionics Equipment Suppliers**

Meet customer needs.

### 5.0 **Documents to be Produced and Date of Expected Result**

ARINC Specification 618-7, October 2011

#### 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.

<b>Activity</b>	<b>Mtgs</b>	<b>Mtg-Days (Total)</b>	<b>Expected Start Date</b>	<b>Expected Completion Date</b>
<i>Supplement 7 to ARINC 618</i>	<i>1</i>	<i>3</i>	<i>Feb 2011</i>	<i>Oct 2011</i>

The ARINC 618-7 meeting/s will take place at the same time as the DLK Systems Subcommittee meeting.

### 6.0 **Comments**

#### 6.1 **Expiration Date for the APIM**

April 2012

For IA staff use only	
Date Received: Feb 17, 2011	IA staff : _____
Potential impact: _____	
(A. Safety    B. Regulatory    C. New aircraft/system    D. Other)	
Resolution: _____	
<i>Authorized, Deferred, Withdrawn, More Detail Needed, Rejected)</i>	
Assigned to SC/WG: _____	