

# ARINC IA Project Initiation/Modification (APIM)

## **Name of proposed project**

**APIM #: 03-008**

Electronic Data Format Documentation (EDFD) Standard for Recorded Data.

## **Suggested Subcommittee assignment**

New Working Group under DFDR Subcommittee.

## **Project Scope**

Prepare a specification for the methodology to describe the format of stored data on a flight data recorder and to store the documentation in an electronic form on the recorder.

## **Project Benefit**

Prior to the readout of data from current flight data recorders, a map of the data structure must be acquired to determine the types and location of data, the timing and the engineering units. The acquisition of the data map can be difficult particularly if the readout is being performed by accident investigators outside of the country of aircraft registration. If standard means for defining a method to develop a data map and to store it on a flight data recorder were prepared, the process of determining the data structure will be simplified for accident investigators. The portability for the purpose of data readout would be improved significantly. This should prove to be extremely beneficial for FOQA programs and airlines' maintenance programs. The automatic configuration of ground readout stations to read "documented" data recorders could result in a substantial savings of manhours. In addition the certification process is expected to be eased.

Furthermore, the introduction of new recorders that do not use a frame-based format will dictate the need for an improved methodology for documenting the data structure on the recorder.

## **Airlines supporting effort**

**Proposed Chairman:** [Robert Swanson](#)

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### **Lead Airline:**

FedEx

### **Supporting Airlines:**

FedEx, United

### **Sponsoring Airlines**

FedEx, United

## **Issues to be worked**

Conversion of the Transport Canada Flight Recorder Configuration Standard

(FRCS) to an airline-type standard.

**Recommended Coordination with other groups**

The DFDR Subcommittee is expected to be in an oversight role for this activity.

**Projects/programs supported by work**

FOQA Program

Development of Project Paper 767 for the enhanced recorder

**Timetable for projects/programs**

The new standard will be used in conjunction with the ARINC 767 recorder. Finalization of aircraft design employing the system could be as early as the end of 2004.

**Documents to be produced and date of expected result**

ARINC Specification 6xx final by Fall 2004

**Comments**

Transport Canada has volunteered to release their final version of the FRCS to ARINC if AEEC decides to take on the task of preparing an international data documentation standard. The staff expects that an unedited version of the FRCS will be circulated as an AEEC strawman to the industry for initial review.

**Meetings**

<b>Activity</b>	<b>Mtgs</b>	<b>Mtg-Days</b>
Project Paper 6xx	4	8 mtg days

***For IA staff use***

IA staff assigned:           Dan Martinec          

Forward to committee(s) (AEEC, AMC, FSEMC):           AEEC          

Potential impact: B&C

(A. Safety    B. Regulatory    C. New aircraft/system    D. Other)

Committee resolution:   1  

(1. Authorized    2. Deferred    3. More detail needed    4. Rejected)

Assigned Priority:   B  

A. – High (execute first)    B. – Normal (may be deferred for A.)