

## ARINC Project Initiation/Modification (APIM)

**1.0 Name of Proposed Project** **APIM 16-009**

**ARINC Specification 653: Avionics Application Software Standard Interface**

**1.1 Name of Originator and/or Organization**

APEX Software Subcommittee

**2.0 Subcommittee Assignment and Project Support**

**2.1 Suggested AEEC Group and Chairman**

APEX Software Subcommittee

Pierre Gabilot, Airbus and Gordon Putsche, Boeing

**2.2 Support for the activity (as verified)**

Airlines: TBD

Airframe Manufacturers: Airbus, Boeing

Suppliers: DDC-I, GE Aviation, GMV, Green Hills Software, Honeywell, Lynx Software, Rockwell Collins, Sysgo, Thales, Verocel, Wind River Systems

Others: TUBITAK (The Scientific and Technological Research Council of Turkey)

**2.3 Commitment for Drafting and Meeting Participation (as verified)**

Airlines: TBD

Airframe Manufacturers: Airbus, Boeing

Suppliers: DDC-I, GE Aviation, GMV, Green Hills Software, Honeywell, Lynx Software, Rockwell Collins, Sysgo, Thales, Verocel, Wind River Systems

Others: TUBITAK

**2.4 Recommended Coordination with other groups**

SAI Subcommittee, Future Airborne Capability Environment (FACE)

**3.0 Project Scope (why and when standard is needed)**

**3.1 Description**

Define an avionics application software interface definition for avionics real-time computing systems performing the most flight-critical applications on the airplane.

**3.2 Planned usage of the envisioned specification**

Develop and maintain ARINC 653 software interface standards for new airplane development programs and for retrofit programs, including the Boeing 777X.

ARINC 653 (APEX) defines an interface between APplication software and EXecutive software. ARINC 653 is being expanded to meet OEM requirements and avionics supplier requirements for new airplanes and to support in-service software updates.

New aircraft developments planned to use this specification      yes  no

Airbus:            (aircraft & date)

Boeing:           777X, Dec 2019





## 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>
Part 3B	1	3	On-going	April 2017
Other Parts	6	18	Oct 2016	Sept 2019

NOTE: Web conferences will be scheduled as needed. It is anticipated that at least one every two months will be held.

## 6.0 Comments

### 6.1 Expiration Date for the APIM

October 2020

***Completed forms should be submitted to the AEEC Executive Secretary.***