# AEEC, AMC, & FSEMC: Aviation Industry Activities Organized by ARINC

The AEEC, AMC, and FSEMC improve cost effectiveness, increase productivity, and reduce life-cycle costs for airlines; aircraft and flight simulator manufacturers; avionics suppliers; and aviation, maintenance, training, and communication service providers by cooperatively establishing common technical standards and developing shared technical solutions that no one organization could develop independently.

Fundamental to the success of the AEEC, AMC, and FSEMC is cooperation among the members of the aviation community that participate in these activities. These activities exist to create value for you, and they cannot create value without you. In a very real sense, you and your company are the AEEC, AMC, and FSEMC.

Industry Activities (IA), the ARINC organization with the longest aviation legacy, coordinates and serves as secretariat for three aviation industry activities organized by ARINC.

Working cooperatively through the AEEC, engineering professionals in the avionics and cabin electronics segments of the aviation industry develop technical standards that contribute to achieving a safe, global, seamless, and interoperable aviation system. All three activities conduct internationally recognized aviation engineering and maintenance conferences that are attended by more than 1,000 aviation industry professionals representing more than 70 airlines and 225 industry suppliers from nearly 40 countries around the world. The AMC has proven the benefits of using a cooperative approach to resolve avionics maintenance issues and the FSEMC has done likewise for flight simulator engineering and maintenance issues.

## Airlines Electronic Engineering Committee (AEEC)

AEEC was established by the ARINC Board in the years immediately following the Second World War to assist the industry in capitalizing on the explosive growth of aviation electronics—or avionics—onboard aircraft. AEEC conducts technical investigations and evaluations and develops technical standards (ARINC Standards) for airborne electronics of common interest to all segments of the aviation community. Today many avionics and cabin systems installed in more than 10,000 commercial and regional jet

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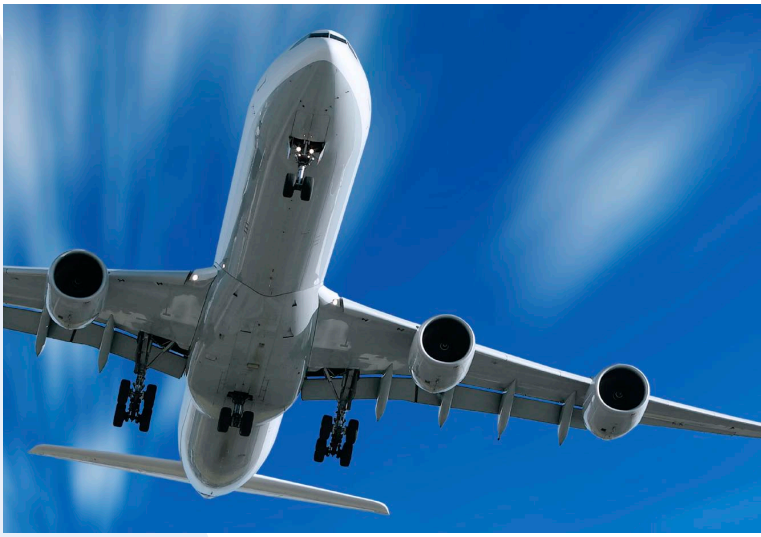

aircraft around the world are based on the consensus-based, voluntary ARINC Standards developed and approved by AEEC. ARINC Standards are used as the basis for design, development, investment, acquisition, life-cycle support, and other business decisions. Furthermore, for new aircraft and avionics installations, ARINC Standards provide a common baseline for avionics and cabin equipment development and allow aircraft manufacturers to pre-wire aircraft, thus ensuring that cost-effective avionics for air transport aircraft are ready when needed.

## Avionics Maintenance Conference (AMC)

For over 50 years, AMC has created value by reducing the cost of ownership for airborne electronics by promoting reliability and improving maintenance and support techniques. AMC achieves its goal through the exchange of maintenance and associated technical information at its premier event—the annual Avionics Maintenance Conference. Each year, more than 750 avionics maintenance professionals from airlines and their suppliers across the globe assemble in a single location at the AMC to identify solutions to tough avionics maintenance problems in a question-and-answer format supplemented by technical symposia; this leads to the aviation industry saving tens of millions of dollars annually. As a result of discussions at the annual AMC meeting or in response to emerging industry concerns, AMC establishes task groups to develop maintenance-related ARINC Standards that present best-practices or address a specific issue.




## *Flight Simulator Engineering & Maintenance Conference (FSEMC)*

The FSEMC brings the proven approach of the AMC to the flight simulation community. FSEMC creates value through a number of activities, including the annual Flight Simulator Engineering and Maintenance Conference. Attended by more than 350 flight simulator experts from around the world, the annual conference uses a question-and-answer format and technical symposia to exchange engineering, maintenance, and associated technical information and identify technical solutions that allow simulator users to operate more cost effectively. FSEMC also conducts a series of task groups that develop technical standards related to simulation and training. As a result, simulator users reduce life-cycle costs for flight simulators and training devices by promoting reliability and improving maintenance and support techniques.

## *Working Together*

Each of the three activities operates in accordance with their terms of reference (TORs). The TORs provide for an executive committee that includes airlines and the other industry participants and is responsible for providing oversight to each activity, including defining the work program, monitoring progress, and approving the resulting ARINC Standards and other technical products. The IA team's dedicated staff members assist the AEEC, AMC, and FSEMC to ensure that those activities function effectively and are successful in creating value. Among other responsibilities, the IA secretariat schedules and reports on the results of subcommittee and working group meetings, arranges the major international meetings held each year, and prepares and publishes the ARINC Standards and other technical products resulting from the work of the AEEC, AMC, and FSEMC.

The Industry Activities division is managed and financially accounted for and evaluated independently of ARINC's other businesses to ensure the neutrality and objectivity essential to the success of the AEEC, AMC, and FSEMC. Consisting of two members representing each activity, the Industry Activity Advisory Group meets at least annually with the IA management to provide an opportunity for direct communication about important issues confronting the aviation community.

## *Creating Value*

The cooperative, independent, and unbiased activities of AEEC, AMC, and FSEMC create value that is substantial and widely recognized. Articles in the business press have highlighted the value created by AEEC and AMC in fields as diverse as aircraft data networks, file servers, avionics racking, packaging, and connectors; real time operating systems; component testing and no fault found; flight data recorders and acquisition units; and lead-free avionics. A major airframe manufacturer writes "(Our company) strongly supports the AEEC standardization activity because it adds value to our customers and to our business." A long-time airline participant said that for avionics maintenance professionals, "AMC is like the Olympic games for athletes." And an industry trade journal said, "The economic and technical benefits of FSEMC participation are very real." FSEMC received the Pinnacle Award as the leading organization in the field of flight simulation from Embry-Riddle University.

## *Continued Commitment*

The benefits of the cooperation in avionics and flight simulation are clear. It is also true that the aviation industry is continually changing. Relationships among airlines, airframers, and avionics suppliers are also evolving. Therefore, AEEC, AMC, and FSEMC are changing to meet the challenges of 21st century aviation.

Continued commitment and support from the entire aviation community is critical to ensuring that the cooperation fostered and value created by AEEC, AMC, and FSEMC endures and thrives. These activities are global membership organizations with leadership and work planning driven by the worldwide participants and those companies that benefit from the value created.

For more information on how your organization can participate in AEEC, AMC, and FSEMC, contact ARINC Industry Activities at 410.266.2381 or industry.activities@arinc.com

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