

TERMS OF REFERENCE
Special Committee (SC) 216
Aeronautical Information Systems Security
(Revision 20)

SC LEADERSHIP:

Position	Name	Affiliation	Telephone	email	Change
Co-Chair	Siobvan Nyikos	The Boeing Company	(425) 210-4697	siobvan.m.nyikos@boeing.com	
Co-Chair	Patrick Morrissey	Collins Aerospace	(319) 295-9436	Patrick.Morrissey@collins.com	
Government Authorized Representative	Thuan Nguyen	FAA/AIR-626D	(206)231-3365	Thuan.t.nguyen@faa.gov	
Secretary	Lee Howard	Honeywell Aerospace	(612)951-6939	lee.howard@honeywell.com	

BACKGROUND:

Prior to 2007, existing aircraft system safety guidance did not specifically address airborne network and data security issues, which results in non-standardized and potentially inequitable agreements between the various applicants and the various regulatory agencies on an acceptable process and means of compliance for ensuring safe, secure and efficient aircraft network design and operations.

This Special Committee is needed to bring together aircraft manufacturers and systems designers, CNS/ATM systems designers and operators, airlines maintenance and operations personnel and government (primarily civil aviation authorities) to form a consensus and document guidance for security of aircraft systems.

The PMC established Special Committee 216 (SC-216) on June 26, 2007, in response to a request by Boeing to provide guidance for compliance with new Special Conditions for airplane systems information security. SC-216 has produced seven documents, DO-326A, DO-355A, DO-356A, DO-391, DO-392, DO-393, and a white paper, RTCA Paper No. 120-21/PMC-2151, to address development, certification, and continuing airworthiness processes and methods guidance.

EUROCAE committee WG-72 has produced seven similar documents; ED-202A which is the same as DO-326A, ED-204A which is the same as DO-355A, ED-203A which is the same as DO-356A, ED-201A which is the same as DO-391, ED-205A which is the same as DO-393, and ED-206 which is the same as DO-392. Additionally, EUROCAE ER-013 is the same as RTCA Paper No. 120-21/PMC-2151.

PRODUCT DELIVERABLES:

Product	Description	FRAC Completion Due Date*	FRAC or RAC	Projected Pub Date**	Change
RTCA Report, Discussions related to Aeronautical Information System Security (AISS) Standards	Generate a new report to provide topic papers and agreed to opinions when using DO-326B and DO-356A plus document suite overviews to ensure consistent interpretations.	July 2026	RAC	September 2026	September 2026
DO-356B, Airworthiness Security Methods and Considerations	Generate an update to the existing DO-356A to reflect the new Supporting Information for DO-356A.	December 2028	FRAC	March 2029	N/A
DO-392A, Guidance on Information Security Event Management	Generate a document revision for publication to address performance requirements for event reporting.	December 2026	FRAC	March 2027	N/A
DO-355B Information Security Guidance for Continuing Airworthiness	Generate a document revision for publication to provide clarification of responsibilities and additional objectives for continued airworthiness security.	June 2027	FRAC	September 2027	N/A

Product	Description	FRAC Completion Due Date*	FRAC or RAC	Projected Pub Date**	Change
DO-XXX Information Security Management System for Aviation Organizations	Generate a new standard for publication to address a management system for Information Security in support of safety in an aviation framework.	December 2026	FRAC	March 2027	N/A
RR-XXX: Common definitions and Terminology	Update definitions document to standardize evolving definitions and terms. Previously released as an RTCA Paper 120-21/PMC-2151.	March 2027	RAC	June 2027	N/A

*Note: Final Review and Comment (FRAC) Completion Due Date refers to the date that the committee plenary approves the document after completing the FRAC Process. SCs should submit the final document at least 45 days before the PMC meeting where it will be considered for approval.

**Note: Projected Publication Date refers to the date that the item will be approved by the PMC and officially published by RTCA.

SCOPE:

The special committee will conduct joint committee activities with WG-72. It should point out areas of inconsistency with current security documents and attempt resolution and harmonization where possible.

ENVISIONED USE OF DELIVERABLE(S):

Envisioned use of deliverables in the current TOR is as follows:

- RTCA Report: Discussions related to Aeronautical Information System Security (AISS) will support the Aeronautical Industry and provide clarifications on existing standards, e.g. DO-326B and DO-356A plus document suite overviews, to ensure industry is working to the same interpretations.
- DO-356B, Airworthiness Security Methods and Considerations will be used as a proposed Acceptable Means of Compliance (AMC) and thus reflect topics from Supporting

Information for DO-356A that require a change in AMC. Committee will conduct FRAC and submit this deliverable per normal “Change” procedures. In addition, this change will address items in response to comments received from DO-326B FRAC but determined to be more appropriate to include in DO-356B.

- The Security Event Management document update will serve to provide clarification around a single specific topic, reporting guidance and timelines that are not possible with current information.
- DO-355B Information Security Guidance for Continuing Airworthiness will provide clarification of responsibilities and additional objectives for continued airworthiness security to address gaps as reported by the community on use of the last published DO-355A.
- DO-XXX The Information Security Management System will serve to clarify Information Security specific guidance for industry and regulators on topics in support of safety in an aviation framework.
- RR-XXX Generate a new report based on the whitepaper which is currently the master for definitions and terms related to the committee’s standards. On the EUROCAE side this is ER-13B.

SPECIFIC GUIDANCE:

EUROCAE Coordination - RTCA SC-216 will coordinate joint activities with EUROCAE WG-72.

Documents	Intended Use
<ul style="list-style-type: none"> • FIPS 140-3, “Security Requirements for Cryptographic Modules” • FIPS 199, “Standards for Security Categorization of Federal Information and Information Systems” • FIPS 200, “Minimum Security Requirements for Federal Information and Information Systems” • NIST SP 800-37, “Guide for the Security Certification and Accreditation of Federal Information Systems” • NIST SP 800-64, “Security Considerations in the Information System Development Life Cycle” • NIST SP 800-30, “Risk Management Guide for Information Technology Systems” • NIST SP 800-23, “Guidelines to Federal Organizations on Security Assurance and Acquisition/Use of Tested/Evaluated Products” • NIST SP 800-53, “Recommended Security Controls for Federal Information Systems” • ARAC ASISP Final Report, " Recommendations regarding ASISP rulemaking, policy, and guidance on best practices for airplanes and rotorcraft including 	<p>The Special Committee should examine the guidance provided by these documents when developing the committee products.</p>

<p>both certification and continued airworthiness" expected to be complete by August 2016</p> <ul style="list-style-type: none">• DO-326B/ED-202B, <i>Airworthiness Security Process Specification</i>• DO-355A/ED-204A, <i>Information Security Guidance for Continuing Airworthiness</i>• DO-356A/ED-203A, <i>Airworthiness Security Methods and Considerations</i>• DO-391/ED-201A, <i>Aeronautical Information System Security Framework Guidance</i>• DO-392/ED-206, <i>Guidance on Security Event Management</i>• DO-393/ED-205A, <i>Process Standard for Security Certification and Declaration of ATM ANS Ground Systems</i>• RTCA Paper No. 120-21/PMC-2151/ EUROCAE ER-013, <i>Aeronautical Information System Security Glossary</i>• RR-005: <i>Report on Aviation Data Security</i>• RR-007: <i>Information Security Management System for Aviation Organizations</i>	
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TERMINATION:

When the scope of this Terms of Reference is complete, the committee will recommend to the PMC that the committee Sunset, go into Active Monitoring Mode, or spend a period of time in Hiatus. Any change/extension of the committee’s work program requires prior PMC approval.