RTCA

Safer Skies Through Collaboration

RECOGNIZING EXCELLENCE: RTCA STANDARDS AUTHORS AWARDS

RTCA

TRAINING

2024 Training Schedule

Software
178C w/ Supplements, Software
tions in Airborne Systems and
nt Certification
Supplements: April 26)
Supplements: September

Hardw
DO-25
for A
An

ANNUAL REPORT
2023

Our Organization

In 2023, RTCA launched several new initiatives. From a new Advanced Air Mobility workshop series to publishing reports addressing Uncrewed Aircraft Systems and Spectrum, RTCA prioritized connecting with members and understanding their needs for standards. New President and CEO Carol Huegel joined the organization in December of 2023, a 30+ year global aviation veteran and long-time RTCA advocate. Ms. Huegel is committed to continuing RTCA's track record of serving its members with a deep dedication to safer skies through collaboration and an eye for industry needs to safely integrate new and emerging technologies along with new aircraft operators into the aviation ecosystem.

CAROL HUEGEL
President and CEO, RTCA, Inc.

RTCA welcomed three new Board members from prominent aviation organizations who bring important member perspectives and vast experience to the organization. The new Board members are: Mr. Robert Ireland of Airlines for America, Mr. Timothy Murphy of Boeing, and Ms. Lisa Steffen of Collins Aerospace. RTCA welcomed two new members to its Advisory Board: Ms. Ruby Sayyed of IATA and Mr. Jim Williams of AURA Networks. RTCA thanks our Board and Advisory Board members for your support and contributions to RTCA in 2023.

Our Members and Partners

In 2023, RTCA welcomed 42 new member organizations from academia, government and industry.

Engaging Members with Events
Throughout the year, RTCA held events that attracted 3,500

attendees and viewers from 73 countries. Thanks to sponsors Collins Aerospace, NATCA, L3Harris, ALPA and GAMA, RTCA offered webinar topics ranging from a deep dive into the FAA's UAM Concept of Operations document to Addressing the Challenges of Cybersecurity and Safety and Security in AAM.

RTCA hosted three AAM workshops and one AI workshop, where RTCA heard from members on the standards needed to support advanced and emerging technologies. In the AAM workshops, members were informed on key initiatives from FAA and TSA while AAM manufacturers presented their ConOps.

The AI workshop, attended by nearly 200 RTCA members, provided a platform for engaging discussions, highlighting the need for a balanced approach in defining AI/ML standards for aviation. Understanding the critical importance of advanced technologies to the innovative business models of an emerging community of airspace users, RTCA engaged with a diverse team of AI/ML experts at The MITRE Corporation to explore the need for technical standards in an integrated airspace whereby legacy and future flight operators co-exist in service to the flying public.

Collaborating with International Partners for Global Harmonization of Standards
RTCA continued our longstanding working relationship with EUROCAE, which included jointly hosting a Future Connectivity Virtual Summit. This Summit brought together leading experts and stakeholders from the aviation industry to address the pivotal topic of datalink communication in aviation and served as a strategic platform for industry players to explore the challenges, advancements, and potential benefits presented by datalink technology. RTCA and EUROCAE were joint recipients of the Richard Teller Crane Founder's Award from the Flight Safety Foundation in 2023, a recognition for their lasting contributions to civil aviation.

Our Technical Products

RTCA oversees thousands of standards authors who are dedicated to the creation of globally harmonized standards.

Standards
RTCA's Program Management Committee (PMC) approved 12 new technical publications during 2023. These publica-

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I am looking forward to serving and collaborating with RTCA members to continue our vital work in the aviation industry."

– Carol Huegel, President and CEO, RTCA, Inc.

tions addressed collision avoidance, ATS data communication, uncrewed aircraft systems detect and avoid, helicopter terrain awareness warning system, and Dual-Frequency Multi-Constellation Satellite-Based Augmentation System Airborne Equipment.

Among RTCA's documents published during 2023 was a new type of publication for RTCA, RTCA Report - 001 "Survey of the Radio Frequency (RF) Performance Standards for Aeronautical RF Systems." RTCA Reports are intended to describe the technical environments in which our standards will define functional requirements for aviation systems.

Another 2023 highlight was the publication of a Member Report on Digital Flight Rules. The report is the result of a collaborative effort among RTCA members and explores the concept of Digital Flight, a transformative approach that would fundamentally change the way flight operations are conducted. Digital Flight represents an evolution of the paradigm where flight operations are conducted with a primary reliance on digital information. This report provides a brief introduction of Digital Flight, a discussion of the use cases that enable users of the airspace, barriers, solutions, and a path forward for the community. A key principle underpinning this report, and every discussion around the topic of Digital Flight, is that the safety and efficiency of all aviation activities must be preserved and should be improved. The prospect of introducing Digital Flight offers the potential for significant value to the aviation industry, the airspace user communities, individuals such as pilots,

controllers, and dispatchers, and the ultimate beneficiary of aviation: the general public.

Recognizing Exceptional Achievements

Recognizing the time, talent, and contributions of our members is a priority for RTCA. At our 2023 Annual Meeting of Members, RTCA was delighted to present awards to 53 standards authors for their impactful contributions to RTCA technical publications, pursuit of industry consensus in the standards development process, and their ability to build standards which support interoperability.

Dr. Timothy Needham earned the RTCA 2023 William E. Jackson Award for his Thesis entitled "Gravity Modeling in High-Integrity GNSS-Aided Inertial Navigation Systems." Tim served on SC-159 Working Group 2C and coauthored Appendix O of DO-384. He holds a B.S., M.S., and Ph.D. in electrical engineering from Ohio University.

In partnership with the National Aviation Hall of Fame, RTCA recognizes educators committed to advancing aviation and technology education. In 2023, we jointly awarded educator Julie Rosseter, Orchestra Director at Riverwatch Middle School in Suwanee, Georgia, the Professional Development Scholarship Opportunity for Educators. Ms. Rosseter incorporates aviation and technology into her teaching and we acknowledge her efforts to inspire the next generation of aviation leaders.

Standards Training Courses

RTCA worked with our partners at prominent universities and The MITRE Corporation to deliver training to more than 300 aviation professionals on foundational RTCA standards DO-160G, DO-178C, DO-254 and DO-356A. RTCA's new Human Factors course, taught by Georgia Tech Research Institute, addressed an overview of how civil flight decks are designed, evaluated, and certified. RTCA regularly seeks feedback on our courses to determine how we can improve and deliver valuable education.

Safer Skies Through Collaboration

Through our strong relationships with our association, government, academic and industry members, RTCA continually seeks opportunities to engage with subject matter experts to address advanced and emerging technologies. We look forward to continued collaboration with these professionals committed to collaborating safer skies.

2023 TECHNICAL PRODUCTS PUBLISHED

SURVEILLANCE/NAVIGATION STANDARDS

Published by SC-147 Collision Avoidance
- DO-385A Minimum Operational Performance Standards for Airborne Collision Avoidance System X (ACAS X) (ACAS Xa and ACAS Xo) Volume I and II

Published by SC-159 GNSS
- DO-401 Minimum Operational Performance Standards (MOPS) for Dual-Frequency Multi-Constellation Satellite-Based Augmentation System Airborne Equipment

Published by SC-237 Helicopter Terrain Awareness
- DO-405 Minimum Operating Performance Standard (MOPS) for Helicopter Terrain Awareness Warning System (HTAWS) for Onshore Helicopter Operations

DATALINK/SPECTRUM STANDARDS

Published by SC-214 Air Traffic Data Communications
- DO-350B Safety and Performance Requirements Standard for ATS Data Communications (SPR Standard) Volume I and II
- DO-351B INTEROP Requirements Standard for Baseline 2 ATS Data Communications Volume I and II

Published by SC-223 IPS
- DO-404 MASPS on ATN-IPS End-To-End Interoperability and Certification

Published by SC-242 Spectrum Compatibility
- RR-001 Survey of Radio Frequency (RF) Performance Standards for Aeronautical RF Systems

UAS/COUNTER UAS STANDARDS

Published by SC-228 UAS
- DO-377B Minimum Aviation System Performance Standards (MASPS) for C2 Link Systems Supporting Operations of Uncrewed Aircraft Systems in U.S. Airspace
- DO-381A MOPS for GBSS for Traffic Surveillance
- DO-398A Operational Services and Environment Definition (OSED) for Uncrewed Aircraft Systems Detect and Avoid Systems (DAA)
- DO-400 Guidance Material for Lost C2 Link UAS Behavior

Published by SC-238 Counter UAS
- DO-403 System Performance and Interoperability Requirements for Non Cooperative UAS Detection Systems

Safer Skies Through Collaboration
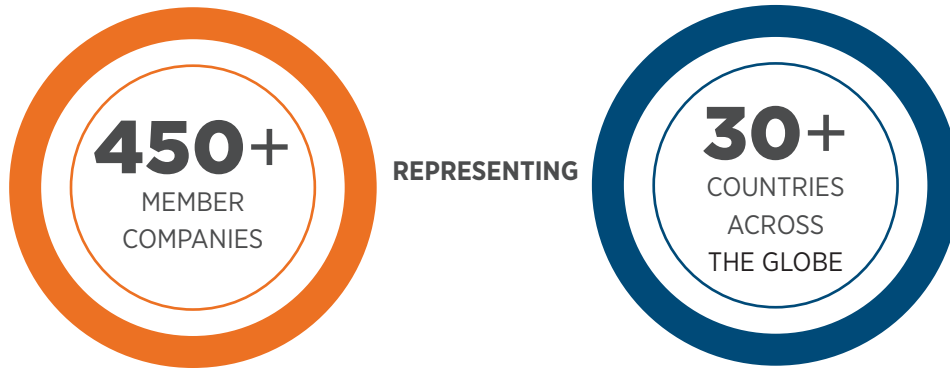
2023 ACTIVE SPECIAL COMMITTEES

RTCA Special Committees are comprised of nearly 2,000 standards authors and aviation experts.

22 ACTIVE COMMITTEES

1,932 TOTAL COMMITTEE MEETINGS HELD

1,850 STANDARDS AUTHORS

94 PUBLIC PLENARIES HELD

SC-159: Navigation Equipment Using GNSS

Surveillance/Navigation
SC-147 Collision Avoidance
SC-159 GNSS
SC-186 ADS-B
SC-217 Aeronautical Databases
SC-227 Navigation Performance
SC-237 Helicopter Terrain Awareness

UAS/Counter UAS
SC-228 UAS
SC-238 Counter UAS

Security
SC-216 Aeronautical Systems Security
SC-224 Airport Security Access Control Systems

Datalink/Spectrum
SC-206 Weather Datalink
SC-214 Air Traffic Data Comm
SC-222 Satcom
SC-223 IPS
SC-230 Weather Radar
SC-236 Wireless Avionics Intra-Communications
SC-239 Low Range Altimeters
SC-242 Spectrum Compatibility

Certification
SC-135 Environmental Testing
SC-240 Software Advancement

Other
SC-213 Vision Systems
SC-235 Lithium Batteries

2023 MEMBERSHIP HIGHLIGHTS

450+ MEMBER COMPANIES

REPRESENTING

30+ COUNTRIES ACROSS THE GLOBE

RTCA Members represent a diverse group of aviation experts from:

- Academia
- Air Navigation Service Providers (ANSPs)
- Manufacturers
- Airports
- Airlines
- Aircraft Operators

- Government Organizations (DoD, NASA)
- Labor Organizations
- Research and Development Organizations
- ATM Services Providers
- Safety and Security
- Data Communications

RTCA members identify the need for technical standards and actively engage in robust debate as standards are created and refined. RTCA member organizations have access to RTCA's library of standards, and the opportunity to join committees comprised of industry and government professionals who are building consensus today on the electronic and communication advancements for tomorrow's aviation community. That consensus forms the recommendations for procedural and equipment standards.

SC-216: Aeronautical Information Systems Security Award Winners

Safer Skies Through Collaboration

2023 MEMBERSHIP HIGHLIGHTS

2023 New Members

Academic Member
- **University of North Texas**

Association Member
- **OITDA**

Government Member
- **Ente Nazionale per l'Aviazione Civile**

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NEW MEMBER COMPANIES
from academia, government
and industry
</div>

AI/ML Workshop

Industry Members

- **Across Safety Development Ltd.** — Aeronautical Innovation — Research and Implementation Support
- **Aircraft Radio & Avionics** — Maintenance and Overhaul
- **Aquila** — Avionics Manufacturer
- **Atlantic Certification Group LLC** — Software
- **AX Enterprize LLC** — Aeronautical Innovation- Research and Implementation Support
- **Cambridge Sensoriis** — Drone UAS Technology Supplier
- **COLLIMATORX LLC** — Software
- **CORASSURE Limited** — Aerospace and Defense
- **Datawind Consulting Inc.** — Consulting
- **Dosoft Consulting** — Consulting
- **EED-Engineering Corp.** - Aeronautical Innovation-Research and Implementation Support
- **FTS Technologies Co., Ltd.** — In-Flight Connectivity & Services/ Network Provider
- **Gables Engineering** — Avionics Manufacturer
- **Glidepath LLC** — Avionics Manufacturer
- **H-Tech Airborne Solutions GmbH** — Avionics Manufacturer
- **Infineon AG** — Aeronautical Innovation- Research and Implementation Support
- **Inter-Coastal Electronics** — Software
- **LAKE FUSION Airborne Technologies GmbH** — Avionics Manufacturer
- **LEONARDO S.p.A.** — Aerospace and Defense
- **Lighthouse Avionics** — Drone UAS Technology Supplier
- **Mammoth Freighters** — Engineering Services
- **Mu-g Technologies, LLC** — Aeronautical Innovation–Research and Implementation Support
- **Psionic** — Aerospace Defense
- **Qualcomm, Inc.** — Software
- **Rain Industries** — Drone/UAS Operator Manufacturer
- **ResiliAnt** — Software
- **Rolls-Royce Corporation** — Aerospace and Defense
- **Rotor Technologies, Inc.** — Drone/ UAS Technology Supplier
- **SARA** — Research and Development
- **Scientific Systems Co., Inc.** — Research and Development
- **Sens-In** — Aerospace and Defense
- **Software Engineering Institute of East China Normal University** — Research and Development
- **Steixner Innovation Group, Inc.** — Engineering Services
- **Sumitomo Precision Products Co., Ltd.** — Avionics Manufacturer
- **Thales Visionix** — Avionics Manufacturer
- **UAV Tactical Systems Ltd.** — Drone/UAS Operator Manufacturer
- **Venus Aerospace** — Aircraft Manufacturer
- **WavePro Inc.** — Aerospace and Defense
- **Zenith Aerospace Inc.** — Aerospace and Defense

2023 TRAINING COURSES

300+
PARTICIPANTS

17
TRAINING EVENTS

10+
COUNTRIES REPRESENTED

RTCA's Standards Implementation Training Courses are fully virtual and are taught by accredited universities and research entities. The interactive courses provide training on the aviation industry's foundational standards DO-178(), DO-160(), DO-254() and multiple airworthiness security standards. The following courses are available in 2024.

DO-178C

This course allows attendees gain a thorough understanding of the requirements and applicability of DO-178C; the fundamental techniques of software development considerations in airborne systems and equipment certification; and an overview of Software Tool Qualification Considerations and several in-depth supplements containing Verification, Object Oriented Tech, and Related Techniques.

DO-160G

This course provides an understanding of the use of DO-160G and how it fits in with the greater picture of requirements, design, certification and Technical Standard Orders (TSOs). Course participants gain an understanding of applicable FAA regulation, certification, and compliance areas. A strong focus is on the use of targeted design to reduce risk, cost, and schedule throughout the design and certification process.

DO-254

This course provides an overview and application of RTCA DO-254, as defined by current FAA and EASA guidance in airborne electronic systems. Participants will learn how to apply the DO-254 lifecycle and supporting processes, understand system safety assessments and the design assurance level (DAL), techniques for writing requirements, verification, and much more.

Airworthiness Security
DO-326A, DO-356A and DO-355A

This course describes what Airworthiness Security is and why it is important. It also explains which FAA Regulations and standards will require these documents and procedures as well as how to use these standards. The course covers what the standards are meant to prevent and how these standards and processes fit into the aviation system. The students will perform real-world exercises to apply the knowledge from the class.

2024 Training Schedule

Software
DO-178C w/ Supplements, Software Conditions in Airborne Systems and Equipment Certification
April 22–25 (Supplements: April 26)
September 16–19 (Supplements: September 20)
December 2–5 (Supplements: December 6)

Environmental Testing
DO-160G, Environmental Conditions and Test Procedures for Airborne Equipment
April 1–5
September 30–October 4
December 9–13

Hardware
DO-254, Design Assurance Guidance for Airborne Electronic Hardware
April 22–25
December 2–5

Security
DO-326A & DO-356A, Airworthiness Security
March 18–20
September 23–25
DO-355, Information Security Guidance for Continuing Airworthiness
March 21
September 26

DO-391, Aeronautical Information Systems Security Framework Guidance
March 26–27
DO-392, Information Security Event Management
May 7–9
DO-393, Process Standard for Security Certification and Declaration of ATM ANS Ground Systems
May 15–16

RECOGNIZING EXCELLENCE

Dr. Timothy Needham

William E. Jackson Award

The 2023 William E. Jackson Award was presented to Dr. Timothy Needham for his Thesis entitled "Gravity Modeling in High-Integrity GNSS-Aided Inertial Navigation Systems."
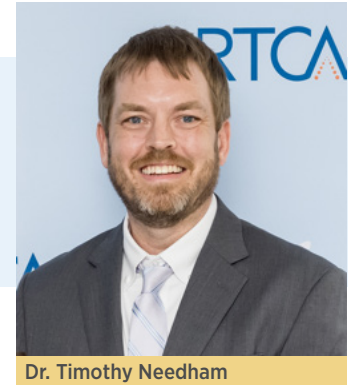
2023 Technical Publications Awards

Topic Area	Special Committee	Product	Outstanding Leaders	Significant Contributors
Surveillance/ Navigation	SC-147	DO-385A Vol I and II	**Margarete Groll** (MIT Lincoln Laboratory)	**Barbara Kobzik-Juul, PhD** (Johns Hopkins Applied Physics Laboratory)
	SC-159	DO-401	**Dr. Fan Liu** (FAA) **Mikaël Mabilleau** (EUSPA) **Laurent Azoulai** (Airbus)	**Denis Bouvet** (Thales Group) **John Foley** (Garmin Ltd.) **François Tranchet** (Airbus)
		DO-401 Supplement	**Dr. Fan Liu** (FAA) **Mikaël Mabilleau** (EUSPA) **Laurent Azoulai** (Airbus)	**Denis Bouvet** (Thales Group) **John Foley** (Garmin Ltd.) **François Tranchet** (Airbus)
	SC-237	DO-405	**Mike Deer** (Bell Helicopter Textron, Inc.) **Yasuo Ishihara** (Honeywell International, Inc.)	**Mark Prior** (M Prior Consulting) **Dietmar Kleinitz** (Airbus)
Datalink/ Spectrum	SC-214	DO-350B Vol I and II	**Claire Robinson** (Universal Avionics Systems Corp.)	**Frédéric Beltrando** (*Airbus*) **Thierry Lelievre** (Cap Gemini on behalf of Airbus)
		DO-351B Vol I and II	**Claire Robinson** (Universal Avionics Systems Corp.)	**Frédéric Beltrando** (Airbus) **Thierry Lelievre** (Cap Gemini on behalf of Airbus)
	SC-223	DO-404	**Aloke Roy** (Consultant) **Stephane Pelleschi** (Collins Aerospace)	**Dongsong Zeng** (MITRE) **Timo Warns** (Airbus) **Bela Varkonyi** (FREQUENTIS) **Ron Dlouhy** (Collins Aerospace)
	SC-230	DO-220B	**Jean-Baptiste Berthier** (Airbus) **Jeff Finley** (Collins Aerospace) **Dawn Gidner** (SeaTec Consulting Inc.)	**Venkata Sishtla** (Collins Aerospace) **Mariusz Starzec** (Garmin Ltd.)
	SC-242	RR-001	**Andrew Roy** (Aviation Spectrum Resources) **Clay Barber** (Garmin Ltd.)	**Jessie Turner** (Boeing) **John Philip Micallef** (EUROCONTROL)
UAS/ Counter-UAS	SC-228	DO-377B	**Marvin Hammond** (Technology Progivers Inc.) **Rose Merchant-Bennett** (FAA) **Michael Neale** (ACES Inc.)	**Alfonso Malaga** (ACES Inc.) **Craig Scheffler** (Wisk)
		DO-398A	**Nadine Akari** (Boeing) **Randal Guendel** (MIT Lincoln Laboratory)	
		DO-400	**Randy Willis** (Northrop Grumman Corporation)	**E. Tod Lewis** (NASA) **Marvin Hammond** (Technology Providers Inc.)
	SC-238	DO-403	**Julia Sanchez** (EUROCONTROL)	**Javier Ceballos-Gutierrez** (EUROCONTROL) **Victor Gordo** (INECO) **Henrik Olsson** (Weibel Scientific)

2023 BOARD OF DIRECTORS

LORNE CASS
BOARD CHAIR

Aero NowGen Solutions LLC

CAROL HUEGEL
President & CEO

RTCA, Inc.

2023 Board Vice Chair

TERRY MCVENES
PRESIDENT & CEO

RTCA, Inc.

ROBERT IRELAND
TREASURER

Airlines for America

DR. KERRY BUCKLEY

The Mitre Corporation

JIM COON

Aircraft Owners And
Pilots Association

VIPUL GUPTA

Honeywell International, Inc

DR. TRACY LAMB

Supernal

Timothy Murphy

The Boeing Corporation

CHRIS ROCHELEAU

NBAA

LISA STEFFEN

Collins Aerospace

Safer Skies Through Collaboration

2023 ADVISORY BOARD

Sean Cassidy
Amazon Prime

Carlos Cirilo
Civil Air Navigation Services Organization

Stacy Cordell
University of Kansas

Tom Ferrell
Joby Aviation

Jens Hennig
General Aviation Manufacturers Association

Randy Kenagy
Air Line Pilots Association, International

Chris Oswald
Airports Council International – North America

Eddie Mayenschein
Transportation Security Administration

Houston Mills
UPS

Robert Pearce, Ex Officio
National Aeronautics and Space Administration

Paul Rinaldi
National Air Traffic Controllers Association

Robert Rose
Reliable Robotics

Steven Ruehl
Department of Defense

Ruby Sayyed
International Air Transport Association (IATA)

Richard Stansbury
Embry-Riddle Aeronautical University

Sean Sullivan
Aviation Information Sharing and Analysis Center

James Viola
Helicopter Association International
(now Vertical Aviation International (VAI))

Jim Williams
AURA Network Systems

RTCA PROGRAM MANAGEMENT COMMITTEE

Pictured (left to right) Bottom row: Clay Barber, Terry McVenes, Dr. Chris Hegarty, Bruce DeCleene, Carol Huegel and Don Kauffman
Top row: James Venslauskas, Rebecca Morrison, Jens Hennig, Jessie Turner, Doug Arbuckle, Ed Hahn, Justin Madden, Karan Hofmann, Brandi Teel
December 2023

FINANCIAL SNAPSHOT

STATEMENT OF FINANCIAL POSITION

For the year ended December 31, 2023

Assets	
Cash and Cash Equivalents	$904,464
Accounts Receivable	200,061
Prepaid Expenses	67,493
Total Current Assets	1,172,018
Investments	4,645,185
Property & equipment, net	718,288
Right of use assets - Operating, net	7,546,976
Security deposits	80,612
Total Assets	$12,991,061
Liabilities and net assets	
Current liabilities	
Accounts payable	$137,822
Accrued salaries and benefits	111,398
Lease liability, current portion	821,341
Deferred revenues	1,424,710
Total current liabilities	$2,495,271
Long-Term Liabilities	
Lease liabilities - operating, net of current portion	7,666,420
Total Liabilities	10,161,691
Net assets	
Without donor restrictions	2,541,085
With donor restrictions	1,460,303
Total net assets	4,001,388
Total liabilities and net assets	$14,163,079

Safer Skies Through Collaboration

FINANCIAL SNAPSHOT

STATEMENT OF ACTIVITIES

For the year ended December 31, 2023

Operating revenue

Member dues	$2,339,860
Publication sales	800,334
Sponsorship	22,500
Training Seminars	648,969
Interest and dividend income	24
Other	49,664

Operating expenses

Program services	
Committees and task forces	1,000,107
Events	93,943
Publications	161,075
Membership services	388,569
Training seminars	594,251
Supporting services	
Management and general	2,425,362
Total operating expenses	4,663,307

Deficit of operating revenue over operating expenses	(801,956)

Other income

Net gain on investments	301,033
Total other income	301,033

Change in net assets	$(500,923)

Technical Areas of Focus

New Special Committee Evaluates DO-254

SC-243: Airborne Electronic Hardware (AEH) Development Assurance

The special committee will work with EUROCAE WG-128 to create an internal evaluation of potential updates needed to DO-254 "Design Assurance Guidance for Airborne Electronic Hardware" published in 2000. This safety standard provides guidance for the design, verification, and validation of airborne electronic hardware.

New Special Committee Addresses Take off Performance Monitoring Systems

SC-244: Take off Performance Monitoring System Strategy

This special committee was established in 2024 to work jointly with EUROCAE WG-129 to conduct a technology assessment of TOPM systems to inform a future standardization program for this capability. The group will prepare a report to recommend additional reports and/or technical standards to be produced by SC-244/WG-129.

Creating Global Standards to Advance Aviation Safety and Grow Our Industry

A Listen and Learn Tour with RTCA's New President and CEO, Carol Huegel was launched in early 2024. The tour engages industry associations, FAA, EASA and other Standards Development Organizations. The purpose of the tour is to connect and collaborate with leading industry organizations and identify opportunities to work together to better understand our members' needs for standards as the aviation industry embraces advanced technologies and new airspace users.

Embracing new technologies, including Artificial Intelligence

RTCA has supported emerging technologies since our inception in 1935 and is committed to emerging technologies like artificial intelligence (AI). RTCA recognizes the potential AI has for improving safety, becoming a valued tool for pilots, air traffic controllers, airline maintenance workers, air traffic and scheduling managers, assisting with weather challenges, enhancing flight operations, reducing emissions, and positively transforming the customer experience. And, as aviation continues to evolve through AI and other areas including Mobility as a Service and Future Connectivity, RTCA is positioned to support our members' needs through standards creation. RTCA is committed to embracing new entrants into our global airspace by identifying how new and existing standards need to evolve in the new airspace and integrating users safely and efficiently.

Technical Products Highlights

Software

RTCA is publishing a new supplement to DO-178C — Software Considerations in Airborne Systems and Equipment Certification

This document provides recommendations for the production of software for airborne systems and equipment that performs its intended function with a level of confidence in safety that complies with airworthiness requirements. The SC-240 Aviation Software Standards committee is currently developing a supplement to address the use of Commercial Off-The-Shelf (COTS) software.

Security

RTCA is pursuing updates to our popular security standards:
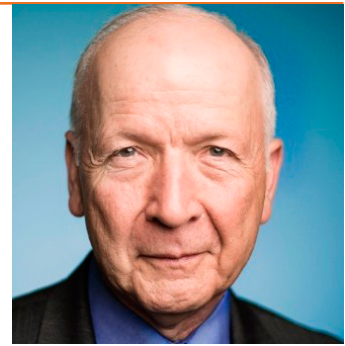
DO-326A: Airworthiness Security Process Specification

This update will include guidance on Change Impact Analysis as it relates specifically to Information Security

DO-392A: Guidance on Information Security Event Management.

This update will address performance requirements for event reporting. authors in videos, social media and articles.

MESSAGE FROM THE BOARD CHAIR

RTCA Annual Review and Outlook

LORNE CASS
Board Chair

Dear Members,

As the Chair of the RTCA Board of Directors, I am pleased to share our annual review and outlook. RTCA is a globally recognized aviation-related Standards Development Organization that serves a diverse community of member organizations and the industry at large, as we embrace an aviation ecosystem comprised of traditional and emerging airspace users along with advanced technologies. RTCA remains committed to collaborative, consensus-built technical performance standards with "Safer Skies Through Collaboration" as its North Star.

Key Accomplishments in 2023:

1. **Understanding Members Needs for New Technical Standards:** In collaboration with industry experts, and in response to the publication of regulators' technical roadmaps, we hosted multiple workshops to explore the needs of our members relative to Advanced Air Mobility (AAM) and Artificial Intelligence (AI). We hosted 5 AAM workshops where we explored a number of operational scenarios and concepts of AAM operations in the U.S. Participants explored ideas from the perspective of the regulators as well as industry. We also hosted our initial AI workshop whereby comprehensive presentations from 13 different member organizations addressed U.S. plans to integrate AI into aviation technologies. Presenters included government organizations (DOT, FAA, and NASA), MITRE (2), Collins Aerospace, Daedalean (from Switzerland) and SAAB. Nearly 100 participants joined the robust, informative discussion.

2. **Enhanced Member Experience:** Our new standards platform enhances the member experience by providing a company library, web viewing, annotation capabilities, and frictionless access to RTCA Standards.

3. **Expanded Training Opportunities:** We expanded training opportunities to support aviation professionals as they seek to put RTCA standards into practice.

4. **Advisory Board Delivered Rubric to Assess Special Committee (SC) Progress:** The Program Advisory Committee (PAC) delivered a comprehensive rubric to help our Program Directors assess the health of each SC. The health check has been key to the development of a new set of KPIs to more comprehensively evaluate schedule and other SC milestones.

RTCA remains a trusted authority in aviation standards development. As we reflect on our achievements and look to the future, our priority is to bring value to our members and facilitate the safe integration of traditional and emerging airspace users. I am truly grateful to our dedicated Board members and the RTCA Team for their unwavering commitment to excellence and aviation safety.

Respectfully submitted,

Lorne