



EUR 063-23 / WG72-167
 RTCA Paper No. 034-23/SC216-140

Saint Denis, February 14, 2023
 Washington, February 14, 2023

**EUROCAE WG-72 Meeting #69 / RTCA SC-216 Meeting #60 Joint Plenary
 “Aeronautical Systems Security”**

Date	Monday-Thursday 5 December 2022 Plenary: 09:00 – 17:00 EST / 15:00 – 23:00 CET Friday 9 December 2022 Plenary: 09:00 – 13:00 EST / 15:00 – 19:00 CET
Place	Virtual Meeting-Webex as well in-person at RTCA
Venue	1150 N 18th Street NW Suite 910 Washington, DC 20036
Hosted by	RTCA

Attendance:

	Contact	Organisation	DEC 5 th	DEC 9 th
AR	Aaron Renshaw	American Airlines	X	
AW	Adrian Waller	Thales	X	X
AC	Alain Combes	Airbus	X	X
	Alain Vallee	EUROCAE	X	X
AD	Andrew Drake	NetJets	X	X
AB	Andy Boff	Egis Aviation	X	X
	Ana Pascua	IATA	X	X
	Angeliki Karakoliou	EASA	X	X
AG	Anna Guegan	EUROCAE	X	X
AR	Anup Rajee	Honeywell	X	X
	Bill Trussell	IFR Development	X	X
	Charles Sheehe	NASA	X	X
	Claudio H Castro	Lilium	X	X
CR	Cyrille Rosay	EASA	X	X
	David Chen	FAA	X	

	David Harvie	ERAU	X	X
DP	David Pierce	GE	X	X
	Davide Matini	EASA		X
	Garv Stephenson	Wisk	X	
	Gilles Descargues	Thales Group	X	X
	Gyory Blazsovsky	Hungry Control	X	
	Isidore Venetos	FAA	X	X
	Hagop Kazarian	Bombardier		
	Hannes Alparslan	EDA	X	X
	Jakub Cunat	EGIS Group	X	X
JPM	Jean Paul Moreaux	EASA		X
JH	Jerry Hancock	Inmarsat		X
	John Flores	FAA	X	X
	Jose Romero-Mariona	RTX	X	X
	Kanwal Reen	Collins	X	X
KH	Karan Hofmann	RTCA	X	X
	Kevin Meier	Cessna Aircraft Company	X	X
	Laurent Leonardon	Collins Aerospace	X	X
	M Waheed	Aviage Systems	X	X
	Mark Kelley	AVISTA	X	X
	Matthieu Willm	Dassault Aviation	X	X
	Michael Goodfellow	ICAO		X
	Mitch Trope	Garmin	X	X
	Nicolas Durandeau	EASA	X	
OS	Olivia Stella	Southwest Airlines	X	X
PM	Patrick Morrissey	Collins	X	X
	Philippe Dejean	Safran	X	
PW	Phillip Watson	Panasonic Avionics	X	X
	Renuka Chitikesi	Honeywell	X	
	Rob Segers	FAA		X
	Rosemberg Silva	ANAC Brazil	X	X
SSB	Sarah Stern	Boeing		X
SM	Sam Masri	Honeywell International	X	X
SN	Siobvan Nyikos	Boeing	X	X
SS	Stefan Schwindt	GE Aviation	X	X
	Tara Shawde Brown	Southwest Airlines	X	X
TK	Ted Kalthoff	Archer Aviation	X	X
	Ted Patmore	Delta Airlines	X	X
	Thomas Parmer	FAA	X	X
VK	Varun Khanna	FAA	X	X
	Will Gonzales	FAA	X	X
	Xylene Gonzalez-Pelayo	ALPA	X	X

Day 1 – Part 1 – 12/5

Monday, December 5, 2022

Introductions

- Dave Pierce (DP) greeted participants and started introductions
- Anna Guegan (AG) presented the RTCA Anti-Trust Policy statement
- AG presented RTCA Proprietary Policy
- AG presented IPR Policy
- AG presented RTCA Committee Participation Membership Policy
- AG presented EUROCAE WG Participation statement
- AG presented the GDPR and Privacy statement
- DP presented agenda as shown below:
 - AGENDA
 - Introductions and Announcements
 - Approval of Last Plenary Session Summary
 - Review of SC-216 TOR and WG-72 Task Sheets Deliverables:
 - DO-326B/ED-202B – Airworthiness Security Process
 - DO-ISMS/ED-ISMS – Information Security Management System Guidance
 - DO-392A/ED-206A – Guidance on Security Event Management
 - DO-DSEC/ED-DSEC – Standard on Aviation Data Security
 - Continue document scope and content discussions
 - Develop document content
 - Subgroup breakout sessions as needed
 - Establish Interactions with Workgroups
 - New Business
 - Adjourn
- DP went around the room and asked for individual introductions
- DP asked about Minutes
 - Stefan Schwindt (SS) mentioned to change Tara Brown’s organization from WNCO to Southwest Airlines
 - Karan Hofmann (KH) took the action to update.
 - Minutes were approved with the noted Changes/updates
- DP asked if there were any updates and announcements from EASA and the FAA
 - Cyrille Rosay (CR) mentioned that Part-IS has been partially published
 - This means that you have three years to implement
 - Parts that have been published are related to Part IS for OEM’s and Airports
 - Regulation only applies to EUROCAE/EASA organizations
 - AMC’s related to Part IS are coming in January 2024
 - EASA will have a workshop discussing Part IS in March 2023. Workshop will be used to discuss these changes
 - Varun Khanna (VK) mentioned that MRO’s and any organization that have an EASA certification would be affected
 - SS mentioned that US part 145 would not be affected
 - CR mentioned eVTOL and how EASA and FAA are different
 - Three categories
 - Very similar to other aircraft systems, based on number of people on board
 - CR also mentioned that ATM ground systems will be affected soon with new requirements (ED-205A)

- VK presented status on 1319 for Part's 25, 33, 25, all others will be ASTM and Issue Papers
 - Should be published as a rule end of 2023, first of 2024
 - NPRM and AC will go out for comment in the middle of the year
 - 12 rules going out as one package
 - FAA is working on new Cybersecurity Event Reporting path
 - Make it separate from service difficulty path
 - Cyber has its own nuances, and want to keep it from the public format
 - SS asked for who the focals for this work are within the FAA and if they are participating in the ISEM conversation
 - VK will provide names and see if they can be involved
 - CR posted a link from the TSA and their rules for operators
 - Aircraft are not part of this
 - Airports and some ground systems will most likely be covered by TSA rules
 - Phillip Windust says that the FAA and TSA are still working on these rules and the aircraft part of the TSA rules are on hold and a new draft will be pushed out related to this after the new year
 - Phillip Windust is involved with this TSA interaction
 - SS says that AIA is trying to also make their views known that they want what is with the FAA to stay with FAA
 - Patrick Morrissey (PM) asked what feedback loop the TSA utilized
 - Philip Watson (PW) no public forums because everything is SSI
 - Alain Combs (AC) asked if supporting assets (which are considered under Part IS) of Part 25 are a part of this TSA new rule
 - VK says that 1319 is only applicable to Part 25/33/35
 - Other systems are currently in the air, confirmed by PW
 - VK says that ground systems are currently unknown
 - SS says that Cybersecurity Resilience Act may be considered to assist, but does not apply to avionics products, only CE marked parts (mainly consumer goods, but some ground systems may carry them as well)
 - Can be applied to COTS components
 - PM asked if he should get in contact with Randy Tally in the TSA and see where the TSA is at with this
 - VK says that PW should reach out to Susan Cabby with the TSA
 - PW is worried that Randy may be too far away from the TSA policy issues, has pushed himself away
 - Siobvan Nyikos (SN) says that US ACCESS is trying to get input on this as well
 - PM says that US ACCESS has been trying
 - SN says that Tim Weston may be the contact point
 - PW says that now General Consul is getting involved
 - FAA can object in the cases of airworthiness any rules from the TSA that interfere with airworthiness

- SS expressed concern that it would be difficult for the industry to follow two separate regulations (FAA vs TSA)
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- CR started conversation around Future Connectivity for Aviation
 - This is a EU/US Task Force
 - <https://www.easa.europa.eu/en/newsroom-and-events/press-releases/easa-and-faa-join-forces-present-new-roadmap-air-ground>
 - Will affect the DSEC
 - CR will present more information related to this on Wednesday with the DSEC doc
 - PM mentioned that ARINC 811 is open
 - Should we talk about making a new zone related to comms
 - SS says Comms should be related to a security domain instead of a functional domain, which is a key focus on ARINC 811
- PM presented the MVP/MVD concept as a guide for sub groups
- MVP - Minimum Viable Product
- MVD - Minimum Viable Deliverable
- Comes from the agile world, rapid development
- What is the most important thing that needs to be delivered
- Wants to focus on the TOR and refine it to the most important components
- There was a general acceptance of the concept
- Anup mentioned tracking Draft, in-progress, internal review, external review
- PM has no problem using 'agile' terms
- Olivia Stella (OS) asked if we have access to any Kan-ban tools?
 - PM does not think that we have access to any, but will look into it
 - PW said that Github has the ability to create a KanBan boards
 - VK asked to check with Karan and Anna if this would be okay

Day 2 - Part 2 - 12/9

Friday, December 9, 2022

Plenary continuation from Monday:

- KH started with RTCA Anti-Trust Policy
- KH also provided RTCA Proprietary Data Policy
- AG provided the IPR Policy
- KH presented RTCA membership policy
- AG presented EUROCAE membership policy
- AG presented the EUROCAE GDPR and Privacy Policy
- DP finished going through the agenda
 - Discussed ToR revisions
 - Meetings coordination/invitations and schedule will be discussed later in the meeting
- KH asked for the secretaries to ensure that a table of the new document names are updated to ensure there is a record of the change. Here are the names as presented today and recorded in TOR as of Dec 2022:

Product	Description	FRAC Completion Due Date*	Change
DO-326B, Airworthiness Security Process Specification	Generate an update to the existing DO-326A to include guidance on Change Impact Analysis as it relates specifically to Information Security.	March 2024	DO-326B, Airworthiness Security Process
DO-XXX, Information Security Management System for Aviation Organizations	Generate a new document for publication to address a management system for Information Security which supplements the current Safety Management System.	June 2024	DO-XXX, Information Security Management System Guidance
DO-392A, Guidance on Information Security Event Management	Generate a document revision for publication to address performance requirements for event reporting.	September 2024	DO-392A, Guidance on Security Event Management
DO-YYY, Standard on Aviation Data Security	Generate a new document for publication addressing minimum standards for the generation, storage, and delivery of data, including Operational Flight Programs, sensitive maintenance data records and other security relevant data.	December 2024	DO-YYY, Data Security Minimum Operational Performance Standards

- DP provided the updated table of document names (See above)
- AC asked about schedule changes for the document releases
- KH and DP said that there is no reason to changing the dates or times unless there is a gross difference in the finish time
- AG said there is a difference between RTCA and EUROCAE release dates
 - RTCA date is to present to the PMC for review and release
 - EUROCAE target date is the date it will be released/published

POST MEETING NOTE: Per KH, the TOR date for delivery is the date the SC has completed FRAC resolution. The document is then presented to the next PMC meeting that is at least 2 months after this completion for approval/publication

SG Summary:

SG3-DO-392 Update:

- AC went through the notes for SG3 for the DO-392 revision

- Two key outputs for the SG going forward
 - Provide a performance level target
 - Provide an agreed upon scoring scheme
 - Bonus objective: Clarify dependencies
- Look for target audience
- What other actions in the industry need to be looked at for best practices
- What other document dependencies need to be identified?
- Three main actions
 - Performance Levels
 - Vulnerability Scoring
 - When should the document be used?
- CR asked when the document will be delivered.
- AC proposed the work of SG-3 being moved from active to monitoring mode so that it can better monitor its usage in the industry of DO-392 until there are more lessons learned from the companies implementing it to help drive the next update
- AC mentioned that this DO-392 document has only been released to the industry for 6 months, so it is still too early for getting industry feedback in order to help with a meaningful revision.
 - DP says that the group should be identified as "Actively waiting for additional data to populate the changes in the document"
- DP thanked SG-3 for their work this week and moved on to SG-4 which is chaired by Siobvan and Stefan

SG-4 -DO-XXX Update:

- SN and SS provided their update from the work this week
 - They are needing some more experts and stakeholders involved
 - First meeting is Dec. 15th and then will continue after the new year
 - KH Might be able to help with contacts in some organizations

SG-5-DO-YYY Update:

- Ted Kalthoff (TK) Started going through SG-5 Summary
 - Identified first line of work
 - Lacking in Airport experience/stakeholders. Asked for help making contact
 - Started Gap Analysis for additional work to get involved
 - Asked for additional volunteers
 - Anup and Tara would like to participate, will make sure to get them involved

SG-6-DO-326B Update:

- SS presented SG-6 summary
 - Have been working on change impact analysis through AIA but work will move to RTCA
 - Will have a proposal by next plenary
 - Happy to have volunteers from TC/STC holders to identify how the CIA will work for TC/STC holders

Regulatory Update:

- VK provided update for FAA
 - Rule is planned to be published Late '23/Early '24
 - Rules will affect Parts 25/29
 - There are conversations related to cyber reporting mechanism is being discussed at the FAA and with EASA
 - Introduction of Phil Windust to the group
 - Replacing Will Gonzalez. Will be focused on cyber policy-National program
 - Introduction of Thomas Parmer to the group

- Replacing Marcus Labay going forward. AFS-340 Gate keeper for DO-301 with operators
- PW provided feedback from his interactions with TSA that has commenced from the new TSA requirements for reporting of cybersecurity issues
 - Top end of the FAA and TSA are currently talking to this and hope to be resolved beginning of next year
 - New law that was passed in March 2022 and how it drives CISA to write a rule for cybersecurity incident reporting for all critical industries
 - First draft is due March of 2024
 - Will likely conflict with TSA rule that is already out there
 - Trying to reduce the number of reporting agencies that need to be involved
- CR provided an update related to the EASA issues related to rule changes and reporting, similar to what VK mentioned
 - There are several new regulations coming along related to cybersecurity from EASA
 - More information will be forthcoming for the WG/SC at the next plenary
- SN and SS provided a report out related to cyber related activities for other groups
 - SAE has four parts they are working on
 - G-32 Cyber Physical System Security (CPSS)
 - Preparing drafts
 - G-34/WG-114 -- AI and Machine Learning
 - Start in 2023 when G-32 is available
 - E-36 AIR 7368 Standard for Propulsion Cybersecurity
 - Final ballot in 2022
 - SAE Safety S18
 - ARP4754A is close to being released and references DO-356A
 - ARP4761 is close to finished revision
 - IPS
 - RFC 4210 1st draft is finished
 - WAIC
 - Applying zero trust precepts
 - ARINC 811A Security Concepts of Operation
 - A811A is to be "Operator focused DO-356A"
 - ECSCG
 - Rolling Development Plan V4.0
 - US ACCESS
 - <https://aviation-ia.sae-itc.com/subcommittees/network-infrastructure-security>
- PM provided updates related to CSDS and CSCAT
- SS talked to papers that are in work
- Mitch Trope talked to SC-214
- DP began schedule considerations
 - Presented schedule considerations as shown below:

RTCA		Schedule		EUROCAE	
December 5-9, 2020	Face to Face Meeting (RTCA Wash DC)				
January 10, 2023	Subgroup Telecons begin				
April 17-21, 2023	Face to Face Meeting (EASA Brussels (30+) or EASA Cologne)				
June 12-16, 2023	Face to Face Meeting (RTCA Wash DC or Bombardier Montreal)				
September 18-22, 2023	Face to Face Meeting (EUROCAE Paris)				
October 2023	DO-326B/ED202B Full Committee Review/Disposition Complete				
November 13-17, 2023	Face to Face Meeting (Americas), Consensus for FRAC/OC DO-326B/ED202B				
November 2023	DO-326B/ED202B to FRAC/OC				
November 2023	DO-XXX/EDXXX Full Committee Review/Disposition Complete				
February 12-16, 2024	Face to Face Meeting (Europe) DO-326B/ED202B Consensus for Publication				
	DO-XXX/EDXXX Consensus for FRAC/OC				
February 2024	DO-XXX/EDXXX to FRAC/OC				
March 2024	DO-326B/ED202B FRAC/OC Disposition and Consensus Complete				
June 2024	DO-391A/ED206A Full Committee Review/Disposition Complete				
June 2024	Face to Face Meeting (Americas), DO-XXX/EDXXX Consensus for Publication and DO-391A/ED206A Consensus for FRAC/OC				
June 2024	DO-XXX/EDXXX FRAC/OC Disposition and Consensus Complete				
June 2024	DO-391A/ED206A to FRAC/OC				
September 2024	DO-YYY/EDYYY Full Committee Review/Disposition Complete				
September 2024	Face to Face Meeting (Europe) DO-391A/ED206A Consensus for Publication and DO-YYY/EDYYY Consensus for FRAC/OC				
September 2024	DO-391A/ED206A FRAC/OC Complete and Committee Approval				
September 2024	DO-YYY/EDYYY to FRAC/OC				
December 2024	Face to Face Meeting (Americas) DO-YYY/EDYYY Consensus for Publication				
December 2024	DO-YYY/EDYYY FRAC/OC Disposition and Consensus Complete				
Telecon	F2F Meeting	ToR Milestone		Committee Milestone	

- 4th Wednesday of every month for leadership team meetings 10am EST to 11am EST
- Next face to face meeting is scheduled for April 17th week at EASA in Cologne, Germany.
- June 12-16, 2023 meeting is planned to be at RTCA, in Washington DC or at Bombardier in Montreal, CA.
- September 18-22, 2023 meeting is planned to be at EUROCAE Paris
- November 13-17, 2023 meeting is planned to potentially be at RTCA in Washington DC.