



EUR. 279-21 / WG72-155
RTCA Paper No. 246-21/SC216-127

Saint Denis, 17 September 2021
Washington, 17 September 2021

**EUROCAE WG-72 Plenary Meeting #63 / RTCA SC-216 Plenary Meeting #54
“Aeronautical Systems Security”**

Date	Friday September 17, 2021 1500 – 2000 CEST (9:00 AM – 3:00 PM EDT)
Place	Virtual Webex
Venue	SC-216 / WG-72 Plenary
Hosted by	D. Pierce / C. Rosay

Points of contact: Anna Guégan anna.quegan@eurocae.net
Karan Hofmann khofmann@rtca.org

Attendance:

Initial	Name	Organization	Date
AW	Adrian Waller	Thales	9/17/2021
AC	Alain Combes	Airbus	9/17/2021
AB	Andy Boff	EGIS	9/17/2021
AG	Anna Guegan	Eurocae	9/17/2021
AGA	Armelle Gauthé	Airbus	9/17/2021
CP	Caroline Prado	Boeing	9/17/2021
CT	Casey T	United	9/17/2021
CHA	Christian Haury	Safran	9/17/2021
CH	Claudio H	Lilium	9/17/2021
CG	Clive Goodchild	BAE Systems	9/17/2021
CR	Cyrille Rosay	EASA	9/17/2021
DP	Dave Pierce	GE	9/17/2021
DG	Descargues Gilles	Thales	9/17/2021
JB	Dr. Jonathan Branker, PhD.	FAA	9/17/2021
EM	Eric Mok	Universal Avionics	9/17/2021
FD	Frederique Dauvillaire	Thales	9/17/2021
GS	Garv Stephenson	Wiisk	9/17/2021
HA	Hannes Alparslan	EDA	9/17/2021
JC	Jakub Cunat	EGIS	9/17/2021

Initial	Name	Organization	Date
JH	Jerry Hancock	Inmarsat	9/17/2021
JF	John Flores	FAA SEA-AED	9/17/2021
KR	Kanwal Reen	Collins	9/17/2021
KH	Karan Hofmann	RTCA	9/17/2021
KM	Kevin Meier	Textron	9/17/2021
KL	Kristof Lamont	Euro Control	9/17/2021
LL	Laurent Leonardon	Rockwell Collins	9/17/2021
MG	Manon Gaudet	IATA	9/17/2021
MP	Mariusz Pyzynski	IATA	9/17/2021
MK	Mark Kelley	Avista Inc	9/17/2021
MS	Marta Skomin	Triumph Group	9/17/2021
MW	Matthieu Willm	Dassault Aviation	9/17/2021
MT	Mitch Trope	Garmin	9/17/2021
MW	Mohammed Waheed	Aviage Systems	9/17/2021
PW	Phillip Watson	Panasonic	9/17/2021
PM	Poliana de Moraes	Embraer	9/17/2021
RN	Richard P Nguyen	Boeing	9/17/2021
RS	Rosemberg Silva	ANAC	9/17/2021
SM	Sam Masri	Honeywell	9/17/2021
SSt	Seth Stewart	ENSCO	9/17/2021
SN	Siobvan Nyikos	Boeing	9/17/2021
SS	Stefan Schwindt	GE Aviation	9/17/2021
TK	Ted Kalthoff Bombardier	Wichita University	9/17/2021
TP	Ted Patmore	Delta	9/17/2021
VK	Varun Khanna	FAA	9/17/2021

Introductions

- Dave Pierce greeted participants and introduced agenda.
- Karan Hofmann and Anna Guegan presented the RTCA and EUROCAE anti-trust, IPR, GDPR, participation and membership policies.
- Dave Pierce facilitated participants introductions
- Dave Pierce made a motion to accept the June 2021 Plenary meeting minutes as posted on RTCA and Eurocae website. Minutes were approved by unanimous consent.

Subgroup Reports

Subgroup Report SG2, ED205A/DO-393 Kristof Lamont

- Kristof Lamont gave a summary of the ED205A/DO-393 activities
- EASA is conducting an internal review before going to FRAC as they raised the main NC on ED205
- Group is aiming for a special plenary on 26th October to obtain committee consensus to go for FRAC/OC
- Group had a goal to publish the document before the end of 2021. However, Karan Hofmann had a concern that publication by the end of 2021 may not be possible. Kristof suggested moving target pub date to Q1 2022. Karan agreed that Q1 is more likely. Dave P suggested FRAC in Feb to make a March PMC.
- Kristof updated slides to change publication date to end of Q1 2022
- Dave Pierce raised that ED-206 will also be the same timescales, so we may need to amend the December plenary

- Anna G – on EUROCAE side says End of Dec 2021, but there is a six month grace
- Dave P asked whether 26 Oct is suitable for Plenary, Kristof will check the suitability of the date
- Four weeks calling notice is required, Anna G stated we could schedule and amend if necessary
- Karan will draft calling notice and wait for Kristof to confirm his availability for the October 26 date.
- Kristof will confirm a plenary date next week
- Stefan S. suggested that Kristof has the option to delegate the chair position if he can't make it

Subgroup Report SG3, ED-206/DO-392 Alain Combes

- Alain C gave an overview of the ED-206/DO-392 work since the June plenary and this week
- Comment review was launched after June plenary and over 200 comments received and V8 was released a week before the September plenary
- 172 comments resolved, 32 rejected
- This week 27 remaining comments have been reviewed and resolution proposals agreed
- Discussions were made on legacy aircraft and incident and vulnerability grids
- Plan presented a plan for Plenary on the 19th of October. Dave suggested possibly including ED 206 in the 26 Oct plenary date, with the document to be published end of Q1 2022
- Dave P raised whether there are any questions, and some discussion around whether to combine or have separate plenaries
- It was noted there was a typo on the timeline on the slides
- Version 8.1 is proposed with all comment dispositions by Oct 8
- This would mean a notice will need to be out 20th/21st September
- Dave P – proposal is both SG2 and SG3 plenary on the 26th, one hour each
- Clive G raised when major inputs required, - 1st October
- Plenary in December – may just be subgroup reports and initial comments
- Agreement on plenary Oct 26th 10am Eastern, 2 hours. V8.1 will be available on Oct-15 to prepare this decision gate. Karan suggested having a working group session before plenary meeting.
- Dave P said that we will need to put out the calling notice for OC for ED 206 by Tuesday.
- Anna G asked if we should be shortening the December plenary, organisations also tend to provide at the last minute
- Dave P responded that it looks like we won't need a December meeting, to be discussed later
- Dave P any other comments and questions
- Dave P thanked Kristof and Alain and participants for their time and effort

Subgroup Report SG4, ED-201A/DO-391 Stefan Schwindt

- Stefan S. presented ED-201A/DO-391 status slides
- All 829 comments have been resolved including the 1 NC comment
- SG4 recommends the document for publication
- All comments have been implemented from the Monday meeting, and the comment sheet and is available on the EUROCAE share
- Stefan S showed the updated comment sheet and gave an overview of the changes made
- Dave P gave an overview of the consensus process and the recommendation from SG 4 for publication
- Dave P reminded the group that the documents are for the committee members and not for others
- Dave P requested that is people are in favour of publication – raise your hands in the participant window –36 raised hands
- Dave P asked if there is anyone who does not recommend the document for publication –

- no hands were raised
- Document approved to be recommended to be released for publication
- Dave P thanked all those who have contributed
- Karan H. added that publication will be going to the December PMC.

Break 15 mins

Regulatory Update

FAA

- Varun K gave an update of the FAA regulatory status
- The new regulation is still on schedule for the rule making which is being bundled with 12 other rules, and will go out for public comment next year. Final publication is expected in mid-fall 2023.
- Alain C draft is done and expected to be issued together with the rule.
- The AC will provide applicants with the option to follow RTCA guidelines.
- EASA AMC is far more prescriptive
- Thanked everybody for their efforts
- Cyrille R. – any timeline consultation
- Varun K expected to be published on federal register mid next year

EASA

- Cyrille R introduced a comprehensive cyber security strategy whose objective is a common defence against cyber threats. Strategy was published September 2019. It is consistent with the ICAO global cybersecurity
- Decision on adoption is expected in Q3 2022
- The product regulation was largely done last year AMC-42 (ED-202A/ED-203A/ED-204A)
- EASA AMC 20-42 includes the minimum that needs to be done and refers to standards for the details
- VTOL is not included in the rule.
- Unmanned vehicles are still to be addressed.
- Cyrille could provide an update at the next meeting.

Interactions with other working groups

- SC-236/WG-96
 - Dave P - SC-236/WG-96 – looking for help and support for their planned MOPS around security aspects for wireless.
 - KH - WG is looking for a leader from the RTCA side,
 - Anna G. announced that EUROCAE has a volunteer. Very likely not to be a specific MOPS on Security
- AIA ALPA Paper Status
 - Siobvan N.t gave an update of the paper status, includes human factors and interaction of cyber alerts. There was a mature draft in July which has gone through a comment process. Executive summary is being revised to ensure scope is correct but unlikely to be published at year end.
 - ACI is conducting a table exercise which ALPA will be participating.
 - Target for TTX is Nov 3rd.
 - ACI TTX on Master Cyber Warning Caution Light – The scope is in progress but it assume the capability exists – would it be useful, what would the action be
 - Cyrille R – what is the expected outcome of the white paper on Human Factors,
 - SN will include short and long term recommendations for studies and guidance
- SAE-G32
 - Stefan S gave an overview on G-32
 - There are no major updates, and will not be addressing assurance levels in this revision
 - JA6678 will include all aspects of software development including firmware, JA6801

- only considers physical hardware
- Stefan S does not see potential to be used as an alternative means of compliance
- SAE E-36
 - Stefan S gave an overview of this group which is looking at providing guidance for cybersecurity for propulsion
 - Will have best practices for cybersecurity analysis, protection features for data buses, software data loading and penetration testing
 - Request has gone out to OEMS for participation, responses received by Boeing, Airbus and Embraer
 - Target is initial ballot 2021, final ballot in 2022
 - Cyrille R. – Do you know how they want this standard recognised?
 - Stefan S – at the moment it is an information document, would like it to be useable for an AMC. Transport Canada and FAA are very active
 - Discussions with OEMs will be how you treat the TC boundary
- WG-114
 - Clive G gave an overview of WG-114/SAE G-34 which is addressing artificial intelligence and in particular the application of machine learning for safety critical systems
 - Security is not really being considered so WG-72/SC-216 should review the draft at the end of the year or the version going to OC to see if we have any gaps in our current standards.
- ECSCG
 - Cyrille R. gave an overview of the ECSCG activities
 - Will be a possible research programme around human factors,
 - A gap workshop analysis and SC-216/WG-72 leadership meeting led to the following future work plan proposal
 - Guidance on supply Chain security
 - Aviation ISMS standard
 - Guidance on change impact analysis
 - Patch management
 - Security refutation guidance

Calls for expression of interest

- Clive G gave an overview the secretariat roles and the glossary editors roles and a request was made for volunteers to take up the roles

New Business/Schedule

- October 26th Plenary for ED206/DO-392 and ED205A/DO-393
- December Meeting – move
- January 18th to 21st working meeting and plenary – EUROCAE (could do first week of Feb), /Eurocontrol/EASA?
- February 18? – EUROCAE? working meeting and Consensus Plenary
- March 4, 2022 Documents to RTCA/EUROCAE
- May 1 – document to PMC
- June 23rd 2022 - PMC
- Could start to work a revised TOR first quarter next year
- Anna G will raise the possibility of new documents next week
- Dave P – would be good to have coordination
- Cyrille R. – Could harmonise upfront
- Anna G – a joint meeting could be organised

Closed Plenary

Dave P and Cyrille R. Closed the meeting