

**EUROCAE WG-117 / RTCA SC-240**  
**Topics on Software Advancements (TOSA)**  
**Plenary Meeting 10**

**WG meeting minutes**

	<b>Date</b>	<b>Name</b>	<b>Signature</b>
Approved			
Reviewed			
Prepared	17/05/2022	John Waddle Rebecca Morrison	



EUR XXX-22/WG117-XXX  
RTCA XXX-22/SC240-XXX

March 14, 2022

**EUROCAE WG-117 / SC-240 “Topics on Software advancements (TOSA)”**

**Meeting #8 Calling Notice**

<b>Date</b>	14 March 2022
<b>Time</b>	14:00 – 17:00 CET /09:00am – 12:00pm EDT
<b>Venue</b>	Virtual (Web Ex) and at RTCA Headquarters 1150 18th Street NW, Suite 910 Washington, DC 20036
<b>Hosted by</b>	<b>RTCA</b>

**Point(s) of contact:** Sebastian Reschenhofer  
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Rebecca Morrison  
RTCA  
Program Director  
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**AGENDA**

1. Welcome, Introductions
2. Review of RTCA and EUROCAE Policies and Expectations
3. Review and Adoption of Agenda
4. Review of WG-117/SC-240 Work Plan, schedule, deliverables & task allocation
5. Review and approve TOR updates
6. Review of Actions
7. Date of Next Meeting/s
8. Any other business
9. Close

**MINUTES**  
**Monday March 14, 2022**  
**1500 CEST (UTC +2) / 0900 EDT (UTC -4)**

**Opening**

After the introductions were completed, EUROCAE and RTCA presented the policy slides. The agenda for the meeting was approved, and the detailed discussion of status took place as captured below.

**SG1 Status**

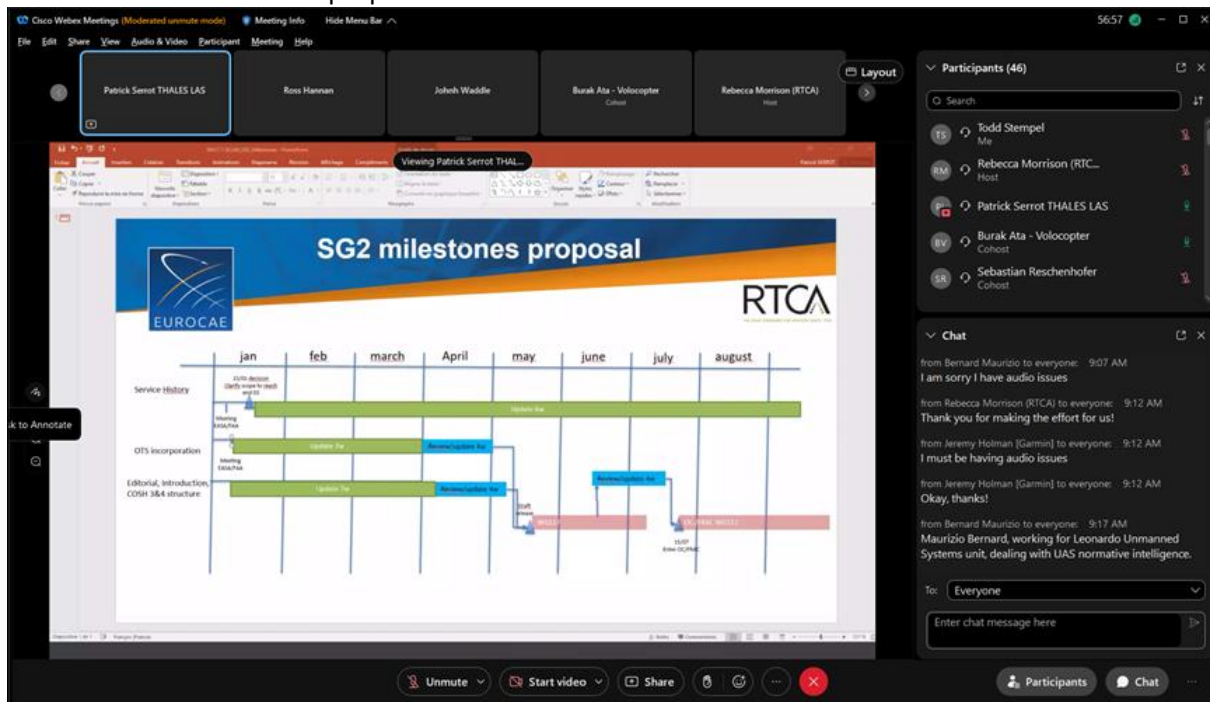
Ross Hannan -

Schedule has been redone and is completing entry into FRAC about 3 months later.  
Will try to setup an SG1 meeting this week to present combined draft.  
Looking to have final draft by end of September. In October, we will hoping to have a plenary to seek FRAC entry and comment period.

**SG2 Status**

Patrick Serrot -

<Presented SG2 milestone proposal slide>



3 streams of work: Service History; OTS incorporation; and Editorial, Introduction, COSH 3&4 structure.

Need to have OTS updated by April.

About 3 weeks late compared to last plenary.

Next plenary target is May.

## TOR

Burak Ata -

<Presented TOR poll results>

	V1	V2
Total Voters		27
No Preference	11	
V1	4	
V2		11

Patrick Serrot -

Proposed TOR Changes - reduce scope of COTS, Open Source, and Service history:

- a. Address only ED-12/DO-178C DAL C and DAL D, and ED-109A/DO-278A for AL3, AL4, and AL5.

Rebecca Morrison - Is service history being addressed in this document? We need to be super clear. Release to FRAC in December means publication in 2023. Patrick Serrot - Service history will only be supplemented by COTS and Open Source.

Patrick Serrot -

The 1st release will not include Service History. The 2nd release will contain service history. Rebecca Morrison - Title can change between releases.

Dewi Daniels - The purpose of this committee was to create standards that support the UAS industry. List is being delayed because of concerns of undermining DO-178C application to transport category. Suggesting that limiting the scope to UAS to allow for quicker acceptance by certification authorities.

Burak Ata - We should go with decision made from the last two plenary. Rebecca Morrison - I'm concerned that this proposal would change scope agreed to in the strategy session.

Andreas Hartl - My understanding was that service history was going to be accepted for specific case of OTS. Is that being removed? Patrick Serrot - We were not going to include service history in the first release. The TOR change did leave an option open to only have an additional consideration for service history, just not the original full scope of global service history.

Guillaume Soudain - The service history proposal was much different approach than the past. This open the door to use software that has been developed with no existing standard. The intent with the supplement was not to restrict usage but allow for any product on the market to use the supplement.

Mike Vukas - I want to emphasize that IP2013. It was presented to use a new scheme of a metric. The feedback was that it was not supported at this time. The issue is there is no data to support the assumption; additional research would be needed. Also, as written a reader could interpret by-passing certification in all software products based upon service history.

Rebecca Morrison - To change any text it needs to go back to the council before we get approval.

Patty Bath - Is the correct sheet being displayed? Service is missing.

Patrick Serrot - That is correct.

Scott Beecher - COSH4 is ready and has stand without changes. Service history is really just a means to reduce the objectives needed to meet.

Mike Vukas - We won't support section 4 unless there is more research supporting the metrics in IP2023.

Dewi Daniels - The point of COSH4 is to explain what objectives and how to document them for taking created on service history, not the method of service history metrics. This is expanded guidance from the existing content in the DO-178C section 12 additional considerations. Guillaume Soudain - There might be a misunderstanding what the point of COSH4 is since we see a difference. Currently, I don't see a direct equivalence.

Sebastian Reschanhofer - Are all of the TOR editorial changes agreed to? Patrick Serrot - All changes are agreed. Rebecca Morrison - Please change revision to "A" instead of "1"  
Sebastian Reschanhofer - OK.

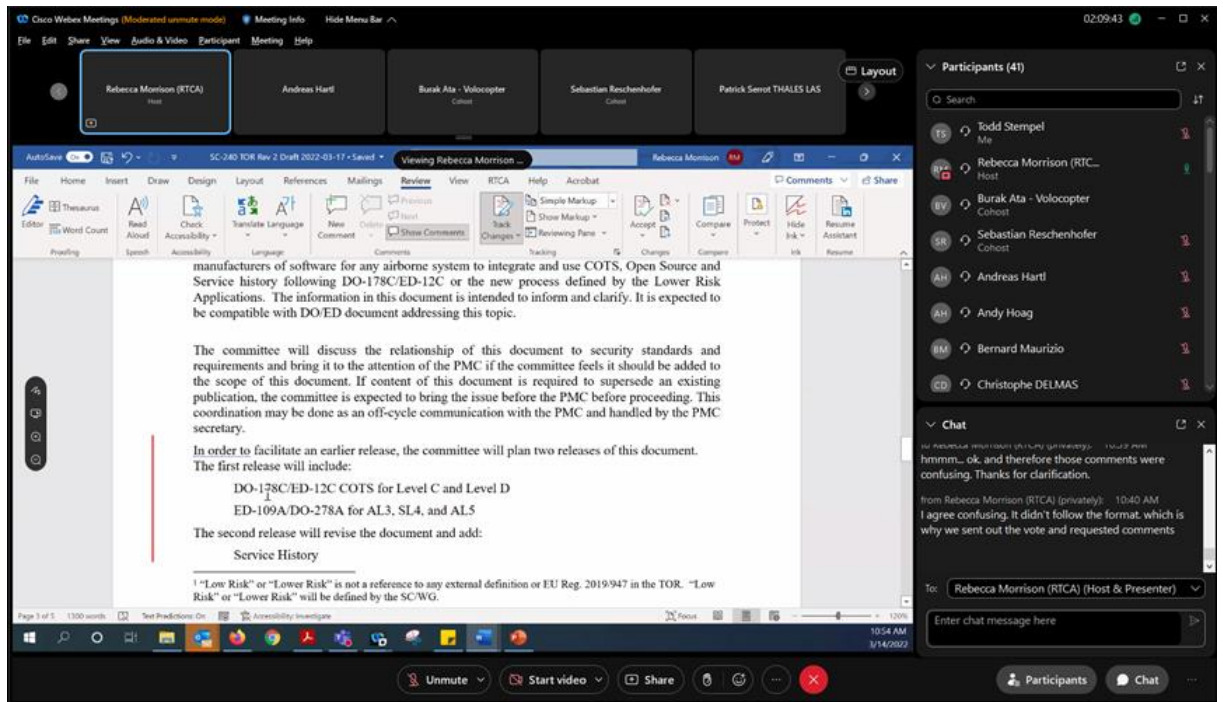
### [TOR Change Presentation](#)

Rebecca Morrison - I have to show the proposed changes to the TOR and get approval in plenary.

Dewi Daniels - Does the title need to remove Service History? Rebecca Morrison - No, the executive summary can state that service history is not addressed in the current revision.

Rebecca Morrison - Changes to TOR are:

- a. Date of release for SG1 is 10/22
- b. Title update
- c. Scope change to have two releases.



Burak Ata motioned proposed update to TOR. Dewi Daniels seconded the motion.

Short break until 10:10 CDT.

## Review Action

Burak Ata - Please send me direct feedback via email on how the plenary went.

- Sebastian Reschenhofer - Announcing a call for WG-117 secretary.

## Date of Next Meeting/s

Rebecca Morrison - There is equal support on May 9 and May 16th from leadership.

Burak Ata - EUROCAE is all booked during month of May. Volocopter may be able to host the meeting in Bruchsal, German. A poll will be sent on the only week of availability.

Rebecca Morrison - RTCA stated that all future meetings will be hybrid, but the time zone would be of the location of the meeting being hosted.

Dewi Daniels - Are there any plans for SC-240 chair appointment? Is there any feedback from the survey?

Rebecca Morrison - There will be an appointment for the SC-240 chair. RTCA leadership is waiting for TOR update. On the survey we got great feedback. I need to get the approval from my boss to share it overall. Burak Ata - The details will be shared later on.

## Close

Burak Ata - We did great in a compact timeframe. The goal of the plenary was issued. Thank you to all.

1. Review and approve TOR updates
2. Review of Actions
3. Date of Next Meeting/s
4. Any other business
5. Close

EUROCAE WG-117/RTCA SC-240 Topics on Software Advancement (TOSA) chair: Burak Ata.

EUROCAE workspace URL: <https://join.eurocae.net/WorkspaceSelector>

RTCA workspace URL: <https://aeropus.i3cloudservices.com/>

Plenary #10 was a Webex only meeting.

## **GLOSSARY OF TERMS, ABBREVIATIONS, AND ACRONYMS**

This table is intended as quick reference for minutes and does not supersede respective authoritative sources.

SC-240/WG-117 SG-1/SG-2 developed a Common Glossary available in the SG-1 workspace.

<b>Term</b>	<b>Usage</b>	<b>See Also; Context</b>
AL	Assurance Level	DO-278A/ED-109A
COTS	Commercial off-the-shelf	
DAL	Design Assurance Level	DO-178C/ED-12C
GA	General Aviation	
EASA	European Union Aviation Safety Agency	
EASA SORA	EASA Specific Operations Risk Assessment	
FAA	Federal Aviation Administration	
FAA MOSAIC	FAA Modernization of Special Airworthiness Certification	
FAS	RTCA/EUROCAE Forum for Aeronautical Software	
FRAC	RTCA Final Review and Comment	
HLR	High-Level Requirement	
IP	Information Paper	
IPR	Intellectual Property Rights	
ISRA	Inter-Special Committee Requirements Agreement	
LLR	Low-Level Requirement	
OC	EUROCAE Open Consultation	
OTS		
PDI	Parameter Data Item	DO-178C/ED-12C
PMC	Program Management Committee	
SC	Special Committee (RTCA)	
SG	Subgroup	
SW	Software	
TOSA	Topics on Software Advancement	
WG	Working Group (EUROCAE)	



## **ATTACHMENT A**

### **WG-117/SC-240 Meeting 10 Attendance**

Name	Company
Aaron Dutle	NASA
Andreas Hartl	TELCOADVICE
Andy Hoag	AIREON
Benedito Sakugawa	ANAC
Bernard Maurizio	LEONARDO COMPANY
Brenda Ocker	FAA
Burak Ata - Volocopter	Volocopter Aerospace
Christophe DELMAS	THALES GROUP
Cyril Marchand	THALES GROUP
Dewi Daniels (Aeronautique)	Aeronautique
Dietmar FREESE (EASA)	EASA
Ed Hahn / ALPA	ALPA
Edwin van de Sluis - NLR	NLR Aerospace
FABRE, Louis	AIRBUS
Francoise Crestey	ROCKWELLCOLLINS
Gabriele MELIA	EASA
George Romanski FAA	FAA
Guillaume Soudain	EASA
Haruka Nakao	
Hiroyuki Kakamu SClabAir	SClabAir
Jeff White	AMAZON
Jeremy Holman [Garmin]	Garmin
Johannes Fisch	LHSYSTEMS
John vanHoudt (FAA)	FAA
Johnh Waddle	BADGERTG
Julien Bourdeau	AVIADAL
Kat Grady (Joby Aviation)	Joby
Keith Darwin [Garmin]	Garmin
Kelly Peters	PIPER
Louis Fabre	AIRBUS
Mark Lillis	
Martha Blankenberger	Rolls Royce
Martin Momberg	AIRBUS
Matthew Dykes [Textron Aviation]	Textron
Mike Vukas	FAA
Nick Tudor D-RisQ	RisQ
Patrick Serrot (THALES LAS)	THALES GROUP
Patty Bath - AVISTA	AVISTA
Rebecca Morrison	RTCA
Ritesh Ghimire	FAA
Ross Hannan	Signam Aerospace

Russ Uthe - Collins Aerospace	Collins Aerospace
Scott Beecher	PRATT WHITNEY
Scott Meyers - Collins	Collins Aerospace
Sebastian Reschenhofer	EUROCAE
Sharon Eliahoo	ELBITSYSTEMS
SkyDrive S.Kobayashi	Sky Drive
Tammy Reeve	PATMOS-ENG
Todd Stempel	ENSCO
Tom Snider	HONEYWELL
Uzi Minsker	
victor.zhan	DJI
Werner Schauer	FREQUENTIS

