



EUR 070-20 / WG115-06
RTCA

Saint-Denis, xxth March 2020

EUROCAE WG-115 “C-UAS”

Meeting #3 Minutes

<i>Date</i>	<i>12th March 2020</i>
<i>Place</i>	<i>Webex</i>
<i>Venue</i>	<i>Webex</i>
<i>Hosted by</i>	<i>EUROCAE</i>

1. Welcome and Tour de Table

Jorge Munir El Malek Vázquez [JM] welcomed the participants to the 3rd meeting of the Joint Activity EUROCAE WG-115 and RTCA SC-238. [JM] apologised for the cancelation of the World ATM Congress (WAC) that resulted in cancelling the face to face meeting planned in Madrid.

Then the proposed agenda was agreed:

1. Welcome
2. Adoption of Agenda
3. RTCA and EUROCAE Statements review
4. Approval of Meeting #2 Minutes
5. Updates from partners (WGs, organisations)
6. OSED Draft: Contributors Table, Table of Content and Chapters
7. Review of Actions
8. Review of Work Plan (update) – Date of next meetings
9. AOB
10. Close

Considering this meeting was webex only, [JM] requested all participants to register with their name and organisation under the chat.

ATTACHMENT A include “WG-115 and SC-238 Meeting 3 Attendance”.

Presentation used during the meeting can be found under EUROCAE and RTCA workspace. [EUROCAE Link](#)

2. RTCA and EUROCAE Statements review

Al Secen [AS] presented the standard announcements regarding RTCA Anti-Trust policy, Proprietary policy, RTCA Committee Participation Membership Policy and reminded the possibility for SC-228 members to record attendance to the meeting on the RTCA workspace.

Alain Vallée [AV] presented the standard announcements regarding EUROCAE membership-based status, IPR policy and the Communication & Privacy policy, including the Workspace tool available for EUROCAE members. It was reminded that after the 3-month trial period, members not yet registered or

under the Candidate membership status will have to formalise soon their membership. [AV] will send specific emails to all in these situations, and after that, restriction will apply regarding emails and access to workspace.

3. Approval of Meeting #2 Minutes

After confirming neither comments nor change proposals were received, final draft of the Meeting #2 Minutes were approved.

4. Updates from Partners

[AV] provided an update about NATO activities on C-UAS and a feedback on recent or planned meetings (see slides). It is the intention for NATO and EUROCAE to initiate the formalisation of a Technical Cooperation Agreement (TCA) to enhance cooperation in general and more specifically in the C-UAS domain. Regarding the UK Drone SLAP project, [AV] indicated that delegates from US Air Force and Navy attended the last meeting in January 2020; this may be of interest for RTCA activities.

[JM] supported by Julia Sanchez [JS] provided a status report of the EASA and ACI Europe activities on, respectively, the C-UAS Task Force and the ConOps for Drones in the airport environment. It was confirmed that work is done in a coordinated manner and that information from EASA TF will be provided for our OSED. It is specifically the case for the work on definitions and terminology.

The ACI ConOps was provided for initial assessment at WG-115/SC-238 leadership level and will soon be available to all. [JM] will check if this work from ACI Europe was coordinated with ACI North America and/or ACI World.

Question was raised to RTCA if any RTCA artefact (document, material) would be available from their side as inputs for the OSED. [AS] indicated that they have members from DOD and DHS in SC-238 and that some documents from DHS or other service could be used for the WG tasks. [AS] will look for applicable documents to share with WG participants.

5. OSED Draft

[JM] updated the group on the status of the draft OSED after initial inputs were received from contributors. The current situation about section editors and declared contributors is provided in the following table.

Chapter	Chapter leader	Chapter and Section Contributors
Chapter 1 – Purpose and Scope	Lead Team	Definitions (EASA TF via Thomas Oster and Julia Sánchez, rest of contributors)
Chapter 2 - Counter UAS concept	Lead Team	Julia Sánchez, Ludmila Lapteva, Benoit Samiez
Chapter 3 - Operational Services	Nancy Ford	Julia Sánchez
Chapter 4 - Operational Environment	Julia Sánchez	
Chapter 5 - Scenario Description	Lead Team	Julia Sánchez
Chapter 6 – General Legal Framework	Lead Team	
Chapter 7 - Operational Requirements and Assumptions	Lead Team	Martin Lanni
Currently Chairmen and Secretary are leaders (editor) of the document		

The latest version of the draft (WG115-SC238_OSED_v0.1 – 20200311.docx) is available on the workspaces. This version includes almost all the inputs received before the meeting and was realigned with our TOR. Last inputs received after uploading the version v0.1-20200311 will be integrated as soon as possible and a new version will be uploaded.

A presentation of each chapter of the draft was proposed during the meeting; [JM] explaining the changes and additions, and the expected inputs to fill in each section.

Chapter 1 – Purpose and Scope

- Definitions (section 1.6.2): this section will be enriched with existing ones. It is reminded that sources and/or references should be specified

Chapter 2 – Counter UAS Concept

- UAS classification (section 2.1.1): still raw data in the draft, will be further processed
- Threat definition (section 2.1.2):
 - [JS] indicated that EC DG HOME plans to provide the definitions that are used in their domain.
 - [JS] reported that the EASA TF is using definitions on security from ICAO (Doc 10108, 9985 & 8973). To be noted that those documents are with a restricted access, but reference and use of definitions are accepted in standards.

Chapter 3 – Operational Services

- Discussion on the notion of Environment
 - Philippe Juge [PJ] provided the following consideration about types of environment:
 1. First area: landing and taking off areas (airside): flight safety: flying drone presenting a risk of collision with aircraft.
 2. Second area: airport itself (landside - no flying zone - bubble): any presence of drone in this area is less harmful (unless the drone is armed).
 - Jim Williams [JW] recalled the expectations of the environment description for an OSED, as a description of the systems and actors around the CUAS, that will need to be considered for identifying requirements and interface.
 - [AV] then reminded that the purpose of the OSED is precisely to define the environment in which the C-UAS will operate. There might be some confusion between environment and threat/risk in the above distinction.
- LudmilaLapteva [LL] mentioned that some input should be considered from ACI ConOps: No Flying Zone (bubble) is taken into consideration as the domain to be protected.

Chapter 4 – Operational Environment

- See the discussion in previous chapter

Chapter 5 – Scenarios description

- This is preliminary work and further situations may be considered.
- [JM] and [AV] reminded the importance of proposing scenarios as they will drive the work and may have some impacts on other chapters, providing additional information on services and environment.

Chapter 6 – Legal framework

- Still need for some more contributors
- [JS] indicated that the European Commission is also participating in the EASA TF and could support us on this aspect.
- Patrick Garnier [PG] will provide to the leadership team the outcome of the legal framework study (deliverable) performed in the ALADDIN project. This documentation is open to public release and will be made available to all.
- [JW] who had been involved in work on this topic in the US suggested to limit the work to listing the topics that should be considered from a legal perspective (applicable law, regulations, etc.): it would be too huge an effort and too large a document to list all legal framework worldwide as there are many specificities for each country and each continent. The

solution would be to focus on universal concepts. [JW] agreed to provide some inputs for this chapter.

- [AV] there is a need to find the right level of detail in order to support our work.
- [JS] suggested to take into account references such World Radio Conference and ITU-R.

Chapter 7 Summary of operational requirements and assumptions

- [AV] reminded the need to differentiate between requirements and assumptions, and to avoid providing too technical inputs in this section. As this will be a summary of all inputs from previous chapter, this check will be performed when OSED comes close to completion. Leadership took the action to check this chapter.

Final Remarks

- [JM] reiterated the need for more contributors and editors

6. Review of Actions

No more actions from previous meetings. Some new actions from this meeting will be added on the list in Attachment B.

7. Review of Work Plan

[JM] presented the work plan and the next meetings:

- 4th Meeting - Webex on 28th April, 15:00 - 18:00 CET.
- 5th Meeting - F2F (optionally Webex) at RTCA facilities on 9th and 10th June.
- 6th Meeting - F2F (optionally Webex), venue in EU TBD, date under analysis (Mid-September?).

Of course, this planning is dependent on the worldwide situation regarding the coronavirus (COVID-19) and the impact upon our communities.

8. AOB

[JM] thanked all for their contributions and asked all participants to continue providing effective support to the work on the OSED. Active contributors and editors are still needed to achieve our objective.

[AV] reminded that the goal remains to deliver the OSED in Q3/2020 (after summer): this may imply that the WG will carry on with the available material by that time, even if some external documents are not officially validated and published.

9. Close

As there was no other remark, the meeting adjourned at 17:00 (CET).

ATTACHMENT A**WG-115 and SC-238 Meeting 3 Attendance**

Organisation	First name	Last name
AIA Aerospace	Max	Fenkell
ALPA	Randy	Williams
AOPA	Christopher	Cooper
CS Group	Patrick	Garnier
DSNA	Marion	Okunowski
ENAC (IT)	Pietro	Barbagallo
EUROCAE	Alain	Vallée
EUROCONTROL	Julia	Sanchez
EUROCONTROL	Javier	Ceballos Gutierrez
Frequentis	Markus	Heichel
Groupe ADP and Hologarde	Ludmila	Lapteva
Indra	Jorge Munir	El Malek Vazquez
Japan Radio Air Navigation Systems Association	Katsuyuki	Nakatsubo
JHW Unmanned Solutions LLC	Jim	Williams
NAVIAIR	Jens	Skinneholm
NLR	Gerald	Poppinga
NPUASTS	Nicholas	Flom
NUAIR	Andy	Thurling
One-ATM	Ray	Young
Quantum Aviation	Will	Robley
Quantum Aviation	Martin	Lanni
Raytheon	James	Johnson
Rohde & Schwarz GmbH	Goetz	Mayser
RTCA	Al	Secen
RTCA	Karan	Hofmann
Security101	Nancy	Ford
Technology Providers, Inc	Marvin	Hammond
THALES	Philippe	Juge
The MITRE Corporation	Greg	Thibeault
U.S. Air Force	Antony	Militello
WhiteFox Defense	Luke	Fox
NEC	Eiichi	Tokumi

WG-115 Meeting 2 Apologies

Organisation	First name	Last name
Airbus	Maurice	Labonde
EASA	Thomas	Oster
Collins Aerospace	Garry	Sissons

ATTACHMENT B

Action items List

Number	Action	Responsible	Due By	Status
1	Correct errors detected in the OSED draft and provide new version	Lead Team	1 st week March	Version V0.1 available. Closed
2	Define multiple key terms to get clarity and alignment (terms such as collaborative and non-collaborative drones, threat, detection, identification,)	Lead Team and Contributors	First weeks of OSED draft	Action on-going
3	Review and provide clarifications about SPR comments	Lead Team	3 rd meeting	“update after meeting” included in meeting #2 minutes. Closed
4	Evaluate feedback about focusing on specific drone categories	Lead Team	3 rd meeting	“update after meeting” included in meeting #2 minutes. Closed
5	Share with the lead team the IATA document	Manfred Mohr	February 2020	Document available on workspace. Closed
6	Create list of out-of-scope topics and check with EUROCAE team what alternative groups, subgroups or forums	Lead Team, EUROCAE team	3 rd meeting	“update after meeting” included in meeting #2 minutes. Closed
7	Evaluate the suggestion about including Legal Framework section in the OSED scope	Lead Team	3 rd meeting	Chapter included in TOC. Closed
8	Check that the ConOps from ACI EU is aligned and coordinated with ACI North America and/or ACI World.	Lead Team	4 th meeting	Done (Confirmation from ACI Europe was obtained that the document was shared with ACI World)
9	RTCA to look for applicable documents to support the OSED	Al Secen	4 th meeting	
10	Check chapter 7 to differentiate between requirements and assumptions, and to avoid providing too technical inputs	Lead Team	6 th Meeting	
11	Integrate last inputs received before meeting #3 and share new document	Lead Team and Contributors	23 rd March week	
12	Share the outcome of the legal framework study (deliverable) performed in the ALADDIN project	Patrick Garnier	16 th March week	Done (Uploaded to the workspace)