



EUR 257-18/ WG92-60  
RTCA 260-18/SC214-098

Saint-Denis, 11 October 2018  
Washington, 11 October 2018

**MINUTES OF the Joint EUROCAE WG-92 “VDL Mode 2” Plenary # 37 / RTCA SC-214  
“Standards for Air Traffic Data Communication Services” Plenary # 29 Meeting**

<b>Date</b>	<b>Sept 20-Sept 21, 2018</b>
<b>Place</b>	<b>SJU/EUROCONTROL Brussels, BE</b>

**PARTICIPANTS**

<b>Name</b>	<b>Company</b>	<b>Country</b>
BOURCIER, Bernard	THALES	FRANCE
DLOUHY, Ron	ROCKWELL COLLINS IMS	USA
EMBERGER, Luc	AIRBUS	FRANCE
GODOY, Jose	SAE ITC, ARINC IA	USA
JACOB, Harry	ROCKWELL COLLINS IMS	USA
JASIUKAJC, Zbigniew	SITAONAIR	CANADA
JOHNSON, Drew	SPECTRALUX	USA
LEFEBVRE, Corinne	SITAONAIR	FRANCE
MALTESE, Paolo	LEONARDO Spa	ITALY
MCGUFFIN, Tom	HONEYWELL, INC.	USA
MUSTACH, Thomas	FAA	USA
PELLESCHI, Stephane	ROCKWELL COLLINS	FRANCE
ROOT, Lynn	UASC	USA
ROSOLA, Ricardo	ENAV	ITALY
SCROGGS, Jim	ROCKWELL COLLINS	USA
SLAUGHTER, Bob	AMERICAN AIRLINES	USA
STEWART, Charles	UNITED AIRLINES	USA
ZENG, Dongsong	Chair of VDL SG, MITRE CORPORATION	USA

**1. Introduction**

The group meets together with the RTCA SC-214 VDL SG. The meeting is held on Thursday, 20<sup>th</sup> at the SESAR JU and on Friday, 21<sup>st</sup> at EUROCONTROL. The group thanks the SJU and EUROCONTROL for hosting the meeting.

The agenda is reviewed.

## 2. IP Policies of RTCA and EUROCAE

Thomas Mustach, FAA, presented RTCA Proprietary References Policy, which has the following key points:

- If a participant is personally aware, participant must disclose if the use of any proprietary information is proposed and/or required to comply with an RTCA document being developed.
- A commitment to license (CtL) the relevant technology, patent, patent pending, or copyrighted material either without compensation (e.g. royalty-free) or in a form and substance that is demonstrably free of any unfair discrimination or limitation of access must be obtained from the proponent (proprietary information owner). If a CtL is not obtained, the information must not be included in the document
- The Chairman of a SC proposing to use proprietary information will coordinate with SC's Program Director:
  - Provide a White Paper/presentation covering need
  - Once approved at the SC plenary session, White Paper/Presentation and CtL will be forwarded to the Program Management Committee (PMC) prior to any further discussion within the SC
- Once reviewed by the PMC, the SC will take appropriate action

Anna Von Groote, EUROCAE, presented EUROCAE Proprietary References Policy, which has the following key points:

- Any party participating in the work of EUROCAE is requested, in the timeliest possible manner and to the best of their knowledge, to draw attention to any known patent or to any known pending application on patent, either their own or of other organizations, that, according to their own judgment, may be considered to be or become an essential patent for the deliverable.
- Conditions for use of such material are further detailed in the EUROCAE Handbook.
- Final decision by EUROCAE Council based on justification provided by WG.

RTCA Special Committees and EUROCAE workgroups require membership to participate. In case of joint activities, participant must be member of at least one of the involved standardization bodies.

## 3. ED-92/DO-281 Companion Document

The joint group discussed the scope of the Companion document. The group reviewed the proposed plan and the identified 2 topics to be addressed in the document:

- Interoperability behavior: providing guidance on how some VDL control mechanisms (e.g., DISC) are used to complement the MASPS and MOPS,
- VDL deployment: provide details on the VDL deployment to ensure the performances.

The companion document is also proposed by RTCA in the updated document.

The group planed the following schedule for the Companion document development:

- Dec 2018: First draft of the companion doc
- Feb 2019: Second draft of the companion doc
- Mar 2019: Provide final version of companion doc for FRAC/OC submittal
- May 2019: Review FRAC/OC comment
- Jun 2019: submit to publication

The SC-214 ToRs update was presented to the PMC on Sept, 20<sup>th</sup> and the WG-92 ToRs update will be presented to the TAC on October.

#### **4. EASA request to TAC**

Stéphane presented the slides prepared by EASA for the TAC meeting on August 29th. Stéphane explained that EASA is asking the group to consider the CSP AQP/VAQ tests to be formalized in a standard. The group considers that the tests done by the CSPs are already in the MOPS and would not require a specific standard to develop such tests.

Nevertheless, the joint group would like to avoid missing some specific EASA considerations and asks the TAC to communicate with EASA the current group position. If EASA is willing to explain furthermore the expectations to the group, they are very welcome to do so.

#### **5. Answer to the “ATN Only” GSIF**

The joint group reviewed the latest version of the answer to the EASA request about developing GSIFs advertising “ATN Only”. The group prepared a letter explaining the impact of this request and how it has many drawbacks to the VDL operation.

The group asks EUROCAE to send the answer to EASA.

#### **6. VDL Connection Less**

Luc Emberger, Airbus, reminded the requirements for the VDL Mode 2 Connection Less protocol. The group discussed in particular the performance requirements for VDL Connection Less.

Indeed, the group agrees that the protocol by itself will be simplified and improved in the case of heavy traffic areas, but the performances have to be at the same level of VDL Connection Oriented in case of low traffic.

The group considers mandatory to evaluate the performances of the VDL 2 Connection Less and ensures that it fits with performance requirements such as RCP130.

The group considers that VDL Connection Less needs some validation activities before the releasing the standards to confirm the benefits.

Stephane will ask to EUROCAE to coordinate with other European bodies such as (SJU, SDM, EASA...) to discuss if there would be an opportunity for a validation project.

Tom Mustach, FAA, will raise the point to Boeing.

Tom McGuffin, Honeywell, presented some slides about VDL Connection Less. Tom highlighted, in particular, that VDL Connection Less should ensure priority to ATN over AOA. The Orange protocol segmentation should be used for ATN traffic only, whether it is ATN/IPS or ATN/OSI. The group is working with the assumption that the only one ATN stack will be used by the aircraft. Tom also pointed out that, in the case of ISO8208, removing it should have a significant impact. The group will have to determine if ISO8208 will be used or not.

Stéphane Pelleschi, Rockwell Collins, presented an update on the Orange Protocol and Connection less to take into account the comments received by the group. In particular, Stéphane presented a proposal to have an exchange between air and ground systems to ensure that the connectivity is available. GRAIHO for frequency change has been also presented and the group discussed the need for FSL, which could be used without any modification. The group provided some recommendations for improving the solution.

Finally, the group discussed the following steps for preparing the new MASPS/MOPS standards including VDL Connection Less:

- Dec 2018: select the CL approach
- Mid 2019: first drafted MASPS reqs for validation purpose (SDM capacity study ...) and MOPS development started
- End 2019: Review the validation results and initiate final version MASPS and MOPS
- Sep 2020: Provide final version of MASPS and MOPS for FRAC/OC submittal

- Nov 2020: Review FRAC/OC comment
- Dec 2020: submit to publication

## **7. Future Plans**

The next joint AEEC Datalink Systems Subcommittee/RTCA SC-214/EUROCAE WG-92 meeting will be hosted by Honeywell at the Honeywell Phoenix Sky Harbor Learning Center, December 11-14, 2018.

The meeting address is: Phoenix Sky Harbor Learning Center, 1944 East Sky Harbor Circle North, Phoenix, Arizona 85034, USA.

## **8. Close**

The joint thanked the SJU and EUROCONTROL and the meeting adjourned on Friday afternoon, September 21th.