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Saint-Denis & Washington, July 18, 2019

MINUTES OF THE 38th MEETING OF EUROCAE WORKING GROUP 92
“VDL Mode 2 MOPS Update (ED-92B)”
Joint meeting with RTCA SC-214 (30th Meeting) & AEEC DLK Subcommittee

DATE: June 11 - 14, 2019
TIME: 9:00 AM – 5:00 PM
PLACE: Hosted by EUROCAE
 9-23 rue Paul Lafargue, “Le Triangle” building
 93200 Saint-Denis, France

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PARTICIPANTS

Name	Company	Country	Note
ABDELMALIK, George	UNIRIDGE PTY Ltd.	AUSTRILIA	
BOURCIER, Bernard	THALES	FRANCE	
BURDA, Jiri	HONEYWELL, INC.	CZECH REPUBLIC	
EMBERGER, Luc	AIRBUS	FRANCE	
GODOY, Jose	SAE ITC, ARINC IA	USA	
HOFMANN, Karan	RTCA	USA	WebEx
HURLEY, Brian	AIRTEL ATN		
JACOB, Harry	ROCKWELL COLLINS IMS	USA	
KERNS, Kathy	ALTERNASOURCE	USA	WebEx
MATYAS, Michael	THE BOEING COMPANY	USA	
MCGUFFIN, Tom	HONEYWELL, INC.	USA	
MEYER, Laurent		FRANCE	WebEx
MUSTACH, Thomas	FAA	USA	WebEx
PELLESCHI, Stephane	ROCKWELL COLLINS	FRANCE	
PUROOT, Stephane	SITAONAIR	FRANCE	
ROOT, Lynn	UASC	USA	

SLAUGHTER, Bob	AMERICAN AIRLINES	USA	
STEWART, Charles	UNITED AIRLINES	USA	
SUN, Ye	FEDEX	USA	
VISEE, Christophe	EUROCONTROL		
ZENG, Dongsong	Secretary of SC-214, THE MITRE CORPORATION	USA	WebEx

1. Introduction

The joint WG-92/SC-214/DLK meeting was held from June 11th to June 14th at the EUROCAE headquarters in Paris. After a round-table introduction, the group reviewed and approved the meeting agenda.

2. IP Policies of RTCA and EUROCAE

Karan Hofmann, RTCA, 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

Adrian Cioranu, 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 reviewed the contributions provided for the companion document. The objective is to release the document by mid-2020 and the group considers this document as the priority. The group went through the section including inputs provided by the SESAR Deployment Manager IP1 project participants. Some open points need to be solved and action items have been allocated to the stakeholders to provide inputs for the next meeting on September 2019.

DSPs to advise reason for GND sending DISC request	Zbig and Butch	SITAOAir and Collins Aerospace IMS	11-juin-19	16-juil-19	
DSPs to advise expected airborne response to Ground transmission of a DISC command	Zbig and Butch	SITAOAir and Collins Aerospace IMS	11-juin-19		Companion Doc Paragraph: 2.1.1.2
Share new wording in Companion Document, Paragraph 2.1.1	Stephane	Collins Aerospace	11-juin-19		
On Companion, Paragraph 2.1.1 Add ARINC 618 section that specifies switching to POA	Stephane		11-juin-19	16-juil-19	
On Companion, Paragraph 2.1.1 , DSPs to advise how ACARS autotune will be used	Zbig and Butch	SITAOAir and Collins Aerospace IMS	11-juin-19	16-juil-19	
On Companion Paragraph 2.1.1, add reference to Tech Manual state diagram (ground and/or avionics state diagram)	Tom McGuffin		11-juin-19	16-juil-19	
				16-juil-19	
Peter Muraca to brief the VDL Standards group on Tech Manual coordination (with ICAO WG)	Peter Muraca	FAA	11-juin-19	16-juil-19	
On Companion DISC sent from Air, review off-line and add clarification on DISC during an HO...	Tom McGuffin	Honeywell	11-juin-19	16-juil-19	
DSPs to advise how they handle action 12, since State diagram was created after initial implementation	Zbig and Butch	SITAOAir and Collins Aerospace IMS	11-juin-19	16-juil-19	
Service Providers to explain if there is a specific expectation for DM (2.1.2.2.2. or just prior to 2.1.3)	Zbig and Butch	SITAOAir and Collins Aerospace IMS	11-juin-19	16-juil-19	Zbig to advise
EC and maybe DSPs to advise frequency of FRMR occurrence	Christophe Visee, Butch and Zbig		11-juin-19	16-juil-19	If not often, then remove 2.1.3 - FRMR
Review 2.1.5 GRAIHO Usage when SITAOAir is available			11-juin-19		
Discuss section 2.1.5.3 with SDM to ensure consistency			11-juin-19		
On Companion Paragraph 2.1.7 Air FSL, DSP to advise how long to stay on FSL	Zbig and Butch	SITAOAir and Collins Aerospace IMS	11-juin-19	16-juil-19	After how long before switching to CSC? Review when DSPs are available

4. Connectionless VDL

Following the survey answers received from the avionics manufacturers, it is confirmed that if the ground stations are sending GSIF with their unicast addresses, in parallel of GSIFs with broadcast addresses, there is no guaranty that the aircraft will select the broadcast address. Therefore, hand-offs will occur.

Broadcast mode also implies that the terminal frequency cannot be used as the airport coverage cannot be indicated in GSIFs.

SITA is investigating an approach where all the end-route ground stations will apply the broadcast address and the airport ground stations are using a unicast address with lower transmission power. The idea is to allow the aircraft using the broadcast address while en-route and can hand off to the airport station when reaching the destination airport.

SITA plans to perform some evaluations to determine if this approach is viable.

In parallel, the group agrees that ATN/IPS needs to be considered, and Collins Aerospace plans to further refine the connectionless mode with Orange protocol in the coming months.

5. Future Meetings

The next meeting is schedule from September 19th to 20th 2019 in Dublin.

6. Adjourn

The joint group thanked EUROCAE and the meeting adjourned on Friday noon, June 14th.