



EUROCAE Paper No. EUR 97-18/WG98-33

RTCA Paper No. 146-18/SC229-031

Paris and Washington DC, 24th May 2018

14th Joint EUROCAE WG-98 / RTCA SC-229 - Calling Notice "Aircraft Emergency Locator Transmitters (ELTs)"

Date	Tuesday 13th through Friday 16th March 2018
Place	Toulouse, France
Venue	THALES ALENIA SPACE, 26 avenue J.F. Champollion, Toulouse, FRANCE
Hosted	THALES ALENIA SPACE France SAS

Present:

First Name	Name	Company
ANDERSON	Richard	Boeing
AUDOUZE-CHAUD	Xavier	EASA
BOUHET	Alain	OROLIA
BOYLE	Erin	USCG
CALMETTES	Thibaud	THALES ALENIA SPACE
CHAZAL	Bruno	CNES
CRESP	Claude	ECA GROUP ELTA
Curran	David	AeroSprite Informatics
DELCUVELLERIE	Didier	CNES
FISHER	John	US Federal Aviation Administration (FAA)
FOSTER	Anthony	NASA
FUHRMANN	David	USAF
GREEN	Charisse	FAA
Hoffman	Christopher	ACR Electronics, Inc.
HOLIN	Olivier	ECA Group ELTA
Horiot	Christophe	Airbus
Khalil	Fadl	Boeing
KOUBEISSI	Majed	COBHAM
LARHANTEC	Philippe	THALES ALENIA SPACE
Lelaie	Claude	Airbus

LOSTRACCO	Joe	DRS Technologies Canada Ltd.
MARTIN	Pauline	THALES ALENIA SPACE
MENARD	Frederic	OROLIA
MESTRE	Jean-Luc	CNES
MONNERAT	Michel	THALES ALENIA SPACE
Morrison	Rebecca	RTCA
Pack	Thomas	ACR Electronics
PLANTIN DE HUGUES	Philippe	BEA
Politis	Elias	NRC
ROUQUET	Olivier	DGAC
Senol	Ahmet	Airbus
Smith	Richard	NTSB
St-Pierre	Dany	International Cospas-Sarsat Programme
Taylor	Stuart	H R Smith Group
THEODORAKOS	George	NASA
THIEDMAN	Edwin	USCG
VAN AMERONGEN	Boris	OROLIA
VAN DEN HEUVEL	BLAKE	DRS Technologies Canada Ltd.
Waggener	William	L3Technologies
Wang	Mingwei	COMAC America
Weed	Mike	L3 Technologies

WebEx:

Lemon	Dan	NOAA
Knox	Allan	USAF
Von Groote	Anna	EUROCAE
McCurry	Chris	

Day 1 – Tuesday 13th March 2018 (9:00 AM – 5 PM)

1. Welcome/Introductions/Administrative Remarks/DFO FACA Statement

Albert CERRO the director of Thales Alenia Space Toulouse facilities and gave a short presentation about what their business and facilities.

Tom Pack welcomed everyone for the joint RTCA SC-229 and EUROCAE WG-98 meeting.

Charisse Green, FAA DFO, opened the meeting announcing the Federal Advisory Committee Act, stating that the Advisory Committee meeting was open to the public. Charisse advised members that a Notice of the meeting had been published in the Federal Register and that attendance was open to the interested public.

Rebecca Morrison announced a statement on behalf of RTCA/EUROCAE discussing regulation including the RTCA Proprietary Policy, the EUROCAE IPR Policy and RTCA/EUROCAE Membership Policies.

The full presentation is available on the Web space.

Questions - No questions.

Tom asked for round table introductions and group members were asked to sign the attendance list.

Pauline discussed logistics for the week.

2. Agenda overview and approval

Tom discussed the main aim for the week would be to work through the comments where there were approximately 1300 but discussed that this had now been reduced down to 600. The first two days of plenary would be to discuss these and try and resolve them.

Tom explained that in addition to the comments the group are required to align the standard with methods of demonstrating compliance, not changing the contents but looking at the organisation on the documents and the physical tests. Tom announced that Chris Hoffman had spent some time on this and would discuss on Thursday with the help of Rebecca who could discuss the format of the document.

Tom said the restructure of the document may take a couple of months after this meeting with the aim of going to FRAC in June as planned.

Tom discussed the proposed agenda from the onscreen slide:-

Day 1 Welcome/Introductions/Administrative Remarks

- Welcome/Introductions/Administrative Remarks
- FAA DFO and EUROCAE
- Agenda Overview and approval
- Minutes Washington Joint Meeting #13 review / approval
- Working group of the whole meeting (rest of the day)
- Review comments received on the pre-FRAC/OC process

Day 2 & 3

- Working group of the whole meeting, Review comments received on the pre-FRAC/OC process

Day 4

- Working group of the whole meeting (Morning)
- ARINC Presentation: Tom Pack
- Document sent to ARINC group: PPH & Tom Pack
- Doc10054 presentation: PPH
- MASPS for RLS: PPH
- Discussion to launch FRAC/OC process on April
- Future meeting plans and dates (FRAC/OC,...)
- Cospas-Sarsat Presentation : Dany
- Review comments received on the pre-FRAC/OC process

The agenda was approved.

3. Minutes Washington meeting review and approval

Stuart provided an update of the minutes produced from the Washington meeting.

There were no questions regarding the minutes and they were considered to be accepted.

4. Working group Plenary (rest of the day)

The Working group commenced work on the TBDs and work on all comments that had been submitted during the Pre-FRAC / Pre-Open Consultation to check if the answers proposed were appropriate.

Day 2

The Working group continued to answer the comments received during the Pre-FRAC / Pre-Open Consultation for the day.

Day 3

The group discussed the document structure and it was proposed that the group would finish off the comments and then restructure the document ensuring there is a verification for all of the shall's, then review.

The Working group continued to answer the comments received during the Pre-FRAC / Pre-Open Consultation for the rest of the day.

Day 4 – Friday 15th December 2017

Philippe welcomed everyone and discussed the day's agenda.

ARINC Presentation: Tom Pack

Tom discussed the results of the whitepaper reminding that there is a subcommittee working on ADT specification. He said that the group were looking at an ARINC label for the transmission and position data between the aircraft and ELT-DT.

Tom added that there are currently 4 different types of distress tracking – ADS-B, IRIDIUM, ELT-DT and IMARSAT.

Full presentation can be found on the website.

Doc10054 presentation: PPH

Philippe Discussed an update from the GADSS advisory group to list what had been done and what needed to be completed, looking at reviewing all the requirements and listing them in a document.

The requirements:-

ICAO Manual – Guidance doc (DOC10054) that is dedicated both to the industry and to regulated authorities around the world to enable them to build their national regulations. They will use this manual to build their standards. Philippe said that it is not mandated by ICAO but most regulatory bodies will use the guidance.

He said that on Annex 6 it notes that ED-237 can be used as guidance material.

Philippe also discussed the objectives, structure of the document and future meetings

The full presentation is available on the web space.

Discussion to launch FRAC/OC process on April

Rebecca gave a presentation on behalf of Anna to discuss FRAC process.

There was a lot of discussion whether or not to enter FRAC at this time or to wait and spend more time completing the comments and restructuring the document.

The following was agreed on the way forward:-

- Analysis by chair group of the TBD Editorial comments not reviewed during plenary by March 23
- April 3 version with all technical changes from Pre-FRAC period (except Ch 6) comments inserted and ready for structure changes
- John takes care of WebEx sessions to complete Chapter 6 ASAP (first WebEx 27 March 9 AM to 12 PM DC time)
- Chris action to provide a table of content in a format facilitating the movement of paragraphs (by 6 April)
- Charisse and John is going to clean the FAA list of comments to determine which one are still relevant in the light of discussion during the Toulouse meeting (by 6 April)
- WebEx on 17 April from 3 to 5 PM Paris time on revised structure will be followed by others depending the discussion during the WebEx on that day
- 4 June provide the draft robust version to the group
- 18 to 22 June plenary session in Washington DC
- Provide the draft to Anna on June 25
- 1 July FRAC/OC process starting for 45 days end 15 August
- 28 to 31 August Plenary session at EUROCAE with good audio facilities for the WebEx

Future meeting plans and dates (FRAC/OC,...)

It was agreed to book the 18th – 22nd June as tentative for the last meeting in US.

Cospas-Sarsat Presentation: Dany

Dany gave an update on Cospas-Sarsat on work since the last meeting. He Discussed updates to working groups, Satellite and ground stations, updates from JC and proposed amendments to documents.

Other business

No other business

Adjourn

Philippe thanked everyone for their work and RTCA for hosting the meeting.

Meeting closed 15:00

List of Plenary Actions:-

ACTION NUMBER	ACTIONNEE	ACTION	STATUS
Action 1	Philippe	To produce a reviewed timeline for FRAC.	Open
Action 2	Philippe	To send the PDF and Spreadsheet to members	Open
Action 3	ALL	To review the documents and provide comments	Open
Action 4	Chris	Provide a table of content in a format facilitating the movement of paragraphs (by 6 April)	Open
Action 5	Philippe	Provide the draft robust version to the group by 4 June	Open

DRAFT