EASA
European Union Aviation Safety Agency

EASA involvement in Industry Standards development

(Internal International Standards Committee)

M. Mazzoletti,
IISC Chair
Head of Strategy and Programmes Department

A. Leroy
Manager Innovation & Special Projects / Principal Advisor
to the Certification Director's
20/11/2019

Your safety is our mission.

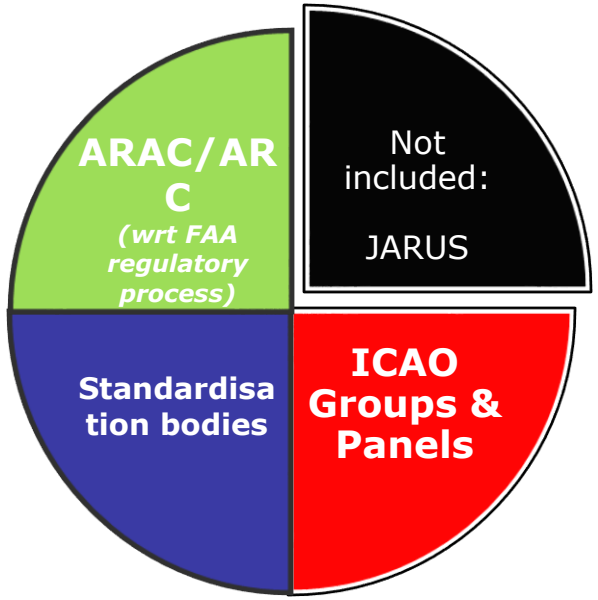
An Agency of the European Union

Outlook of Presentation

- Objectives & IISC Scope
- EASA Organisation (Internal International Standards Committee)
- Outcome 2018 & ongoing 2019 activities
- Issues
- Recommendations

Objectives & IISC scope

IISC scope



Involvement in the preparation of strategic Standards is:

- Essential to drive **harmonisation**
  - Industry standards are recognised and/or used by EASA, FAA, TCCA, ANAC, etc... This results in a high level of harmonisation and eases the certification burden for applicants
- Essential to ensure that the standards developed **meet the Agency's objectives** on specific subjects
  - CS 23/ASTM 44
  - Vtol, EUROCAE "lean process"
- A means to create **consensus** with industry and other authorities

EASA organisation
IISC

- Since the beginning of aviation activities, Industry standards have been used as Means to comply to some of the AA requirements. (AIR, OPS, ATM)

- The “Internal International Standards Committee” (IISC) is responsible for establishing priorities and managing the resources (e.g., hours and missions) to **facilitate participation to ICAO , ARAC and standardisation bodies** in accordance with EASA strategic objectives.

  - The IISC’s procedures are defined in an EASA Work Instruction (WI IISC 00002)
  - IISC documentation are stored in the EASA IMF SharePoint

Who are the IISC members?

IISC
Internal International Standards Committee

Massimo MAZZOLETTI, **Chair**
Pascal MEDAL, **Deputy-Chair**

Members:
15 staff members from different EASA areas

Administrative Support

- SAP and Budget Administration
- Mission Management and Cost Reporting
- Work Instructions and Functional Administrator Role of Sharepoint Site
- General administrative and IIC meeting support
- Back-up for SB Administrator on Internal Consultation Process

ICAO Administrator

- Panels of the Air Navigation Commission
- Committee on Aviation Environmental Protection
- ICAO groups of experts (study groups, task forces etc.)
- Working groups facilitated by the ICAO EUR /NAT Office

Standardisation Bodies Administrator

- EUROCAE Council
- EUROCAE TAC
- RTCA PMC
- SAE Aerospace Council
- ASD-STAN Council
- ETSI Aeronautical Technical Committee
- IATA IOSA Oversight Committee
- ASTM F44 Executive Committee

How does the IISC establish priorities?

- WGs are assessed by the Chief Experts (*or HOD in FS*) for the associated technical domain (e.g., avionics) using the following 7 criteria:
  - Strategic/Sensitive (e.g., RPAS, Cybersecurity, CS-23)
  - Relates to safety issue (e.g., a specific safety recommendation)
  - Harmonisation/Support EU position (e.g., ARAC)
  - New & Novel technologies (e.g., Additive Manufacturing)
  - Work at EASA request (e.g., Emergency Breathing Systems,)
  - Certifying Authority and/or Industry Conflicts
  - Linked to a specific Rulemaking Task (e.g., RMT .0513 on Noise or ROOAS)
- Each criteria has specific weight which are totalled in a Total Score (0-100). WG's whose score is above the threshold are designated as Priority 1. Those whose score was below the threshold are designated as Priority 2.

Overview of EASA's current involvement in Standardisation Bodies

- EASA is on the executive councils or Technical Committees of 7 key standards organisations
  - (EUROCAE, RTCA, SAE, ASTM, ASD-STAN, CEN-CENELEC, ETSI)
  - Voting rights as an Organisation at the Council level
    - SAE R Minter,
    - ASD STAN E.Duvivier
    - Eurocae council P Medal, EUROCAE TAC F Runge & B Jolly
  - Voting rights as individuals at the WG level via the Consultation Process
- EASCG / EUSCG / ECSCG
- Members of specific task forces/ e.g. lean process, FAS UAS, etc…

IISC key contributions in 2018

EUSCG, WG 105-RPAS sub groups, Cybersecurity

Focused participation in ICAO groups to enhance European coordination

ANC 13 WP including European coordination

EUROCAE Specific contracts

SC 2016-003, data Link ATN/OSI and ATN/IPS comparison, SC 2016-004 new HIRF

New relationship with EAQG/IAQG & DOA TT under ASD-STAN D6

Impact on Part 21 “light” for GA, audits, etc…

EUROCAE lean Process starting phase

Standardization Bodies Priorities 2019

- Continue to support ECAE at council level:
  - ✓ identified support development in **the GA domain**
    - ✓ Task force **ECAE light** to be more agile on new technologies and better deal with GA for European specific needs
    - ✓ V-TOL used as pilot project for Eurocae lean process

- Increased effort on ATM, e.g.
  - Data Link ED 92 C edition and further work on companion doc for the ground implementation, IPS, etc…
  - GNSS: MCDF, spoofing/jamming?

- SC contracts: Updated HIRF environment levels for Urban mobility (RF threat level)

The IISC's operating plan for 2019 vs 2018

In 2018

- For SB : **# 150** Standardisation body WG & ARAC WG, with a mission budget of **191 000 € and 7770 man hours**
- For ICAO: **# 81** ICAO WG & panels With a mission budget of **# 173 000 € and 6820 man hours**
- In total, total, a Budget of **363 k€** spent

For 2019

- Total Mission Budget: a budget of # 390 k€ was established and is being executed
- EASA Staff acting as Focal points (actual): **165**
- **15 000 hours, 9,3 FTE*** (*assuming 1600 hours/year, actual data)

Issues

- Fragmented European SB landscape, overlapping without coordination resulting in inefficiency
- Difficulty for EASA to involve itself in as many activities as we would wish (prioritisation/selection)
- Prevent recognition & visibility at International level

Recommendations

- European Industry to “shake” the system: we are speaking of “**Industry** standards”

- Main message: **Help yourself to help us!!**

EASA
European Union Aviation Safety Agency

Thank you for your attention!

Questions are welcome.

easa.europa.eu/connect

Your safety is our mission.

An Agency of the European Union