High Level Conference on Drones

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EUROCAE Secretary General

EUROCAE

Warsaw, 23-24 November 2016

Inputs for Standardisation

EUROCAE facts and figures

- 200+ Members (+10% p.a.)
  - 115 in 2010
- 36 active working groups
  - 26 in 2010
- 1400 experts

EUROCAE Role

- strong reliable partner for
  - Industry
  - R & D
  - user and
  - regulator
- to reach the destination

EUROPEAN Coordination

EUROCAE

EASCG

EUROCAE

MoC

SESAR JOINT UNDERTAKING

SESAR DEPLOYMENT MANAGER

EUROPEAN DEFENCE AGENCY

Global Coordination

EUROCAE

ICAO • OACI • ИКАО

国际民航组织 • ايكاو

RTCA

THE AVIATION GOLD STANDARD SINCE 1935

SAE INTERNATIONAL

EUROCAE domains of activities

- **Avionics**
- **Communication**
- **Navigation**
- **Surveillance**
- ATM Systems
- Airports
- SWIM

- Security
- AIS / MET
- ***RPAS*** & General Aviation
- Miscellaneous
  - Fuel Cells
- Possible future activities:
  - space

Regulation – Standard

- PB regulations by EASA and ICAO
  - Reference to industry standards
- standardisation reaction to regulation
- forward looking
  - in anticipation of regulatory requirements
- referenced by the regulator
  - EASA, EU Leg, FAA, ICAO
- ETSO – MOPS, SW, Environment

R&D-standardisation-deployment

EUROCAE

R&D

CARATS
Collaborative Actions for Renovation of Air Traffic Systems

NextGEN

SESAR
JOINT UNDERTAKING

Standardisation and Regulation

EUROCAE

Deployment

SESAR
DEPLOYMENT MANAGER

EUROCAE Standards EDs

- Best industry practice
- Soft law
- Acceptable means of compliance
- How to do and to comply
- Internationally recognised

EUROCAE RPAS working groups

WG-73
UAV

WG-93
LRPAS

WG-73 UAV

- Created 2006
- All classes of Airspace
- All terrain
- All times

WG-93 LRPAS

- Originally WG-73 VLOS SG

The bigger picture

WG-73
UAV

WG-93
LRPAS

European Commission
- European RPAS Roadmap
- Riga Declaration

EASA
- A-NPA 2015/10 > 3 categories
- Prototype Rules for Open/Specific

JARUS
- Regulatory Proposals / AMC

Risk Based, Operation Centric Approach

High Level strategy

Coordination activities

Mission

- Safe integration of UAS
- All classes of Airspace
- All terrain
- All times
- Focused on Deliverables

Focus Teams

Focused on Deliverables

Organised in Focus Teams

- Focus Team 1 — UTM
  - Identification
  - Geo-Fencing
- Focus Team 2 — C3
  - C2 Datalink
  - C3
  - Spectrum
  - Security
- Focus Team 3 — DAA
  - IFR Class A-C
  - IFR/VFR D-G
  - VLL
  - Security
- Focus Team 4 — Automation
  - ATOL
  - Auto-Taxi
  - Emergency Recovery
- Focus Team 5 — D/AW
  - System Safety Assessment
  - AMC
- Focus Team 6 — SORA
  - SORA Implem. Support

Cross coordination

WG-105 Leadership

Steering Committee

- Focus Team 1 UTM
  - Identification
  - Geo-Fencing
- Focus Team 2 C3
  - C2 Datalink
  - C3
  - Spectrum
  - Security
- Focus Team 3 DAA
  - IFR Class A-C
  - IFR/VFR D-G
  - VLL
  - Security
- Focus Team 4 Automation
  - ATOL
  - Auto-Taxi
  - Emergency Recovery
- Focus Team 5 D/AW
  - System Safety Assessment
  - AMC
- Focus Team 6 SORA
  - SORA Implem. Support

WG-105 Kick Off

- Kick-Off Meeting 15-17.11.2016
- Record registration 135 experts
- Excellent participation 75 experts
- 30-50 per focus team
- Wide range of stakeholders
- Very good progress

Conclusions

- Resources and expertise needed
  - Industry and regulator → working together
- Performance based and high level regulation
  - Supported and complemented by industry standards
- Smart and adaptable regulatory frame
  - Quick and flexible standards to underpin
- Coordination between SDOs and Regulator needed
  - platform like EASCG - to advise the Regulator
  - RDP - Global harmonisation

Thank you!

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