

Paving the way for UAS certification

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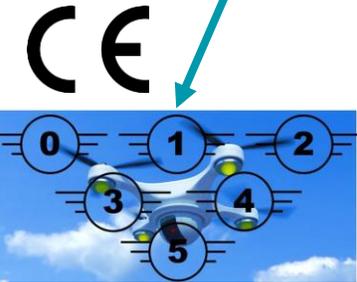


Bridging OPS centric regulation with product certification

Open category

Specific category

Certified category



Class Label
Market Regulation

SAIL I/II Standard Scenarios

SAIL I/II Predef. Risk Assessment

Remaining SAIL II

SAIL III

SAIL IV

SAIL V/VI

Declaration
against PDRA
prescriptions

Declaration
on C2 Link and HMI

EASA DVR
or declaration
with verific.



Drones Design Database



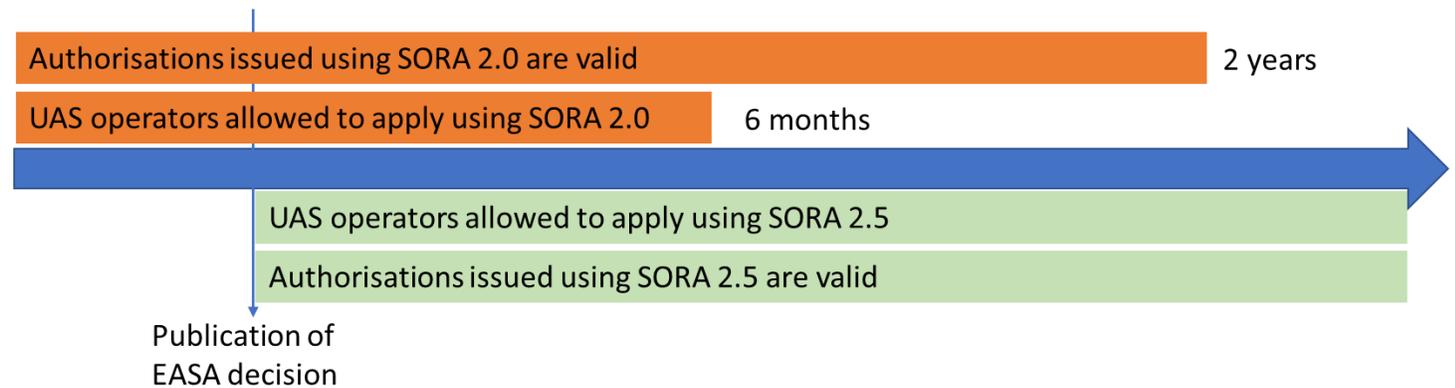
TC
Part 21



SORA 2.5 Development



- Restructured to be easier to read
- Quantitative approach for ground risk assessment
- Simplified containment requirements
- Instructions for comprehensive Safety Portfolio
- SORA Risk Assessment template
- Operations manual template
- Introduction of functional test based approach



Design Verification Process

An EASA DVR is required for any **SAIL IV operation** and it may be needed for **SAIL I – III** for compliance of technical mitigations (M2) and containment on request of the NAA.

The DVR documents is stating that **EASA is satisfied with the verified compliance demonstration** based on a focused review.

The design verification basis is primarily based on the **Special Condition for Light UAS - Medium Risk** not requiring a DOA/POA.

EASA charges an hourly rate and provides a quote to the applicant.

EASA offers a pre-application meeting with potential applicants.



Specific Category Design Verification/Certification Basis

Special Condition Light UAS (update >600 kg in 2025)

Compliance Matrix for design verification projects

Means of Compliance published:

MoC Light-UAS.2511 - Enhanced containment

MoC Light-UAS.2512 - M2 technical mitigation medium robustness

MoC SC Light-UAS FTB - Functional test based

MoC Light-UAS.2405 - Lift/Thrust/Power System Integrity

MoC Light-UAS.2410 - Lift/Thrust/Power Endurance and durability

MoC Light-UAS.2510 - Equipment, systems and installations

Means of Compliance in process:

MOC 2510 high risk

MOC Human Factors

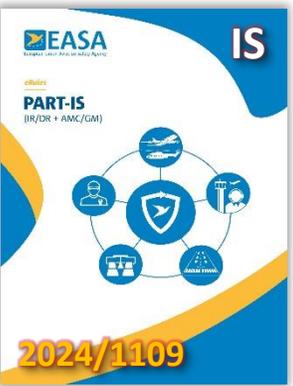
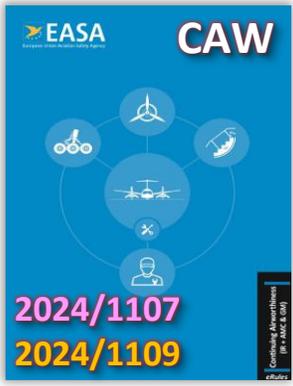


Update on the certified category

DELEGATED ACTS
IMPLEMENTING ACTS

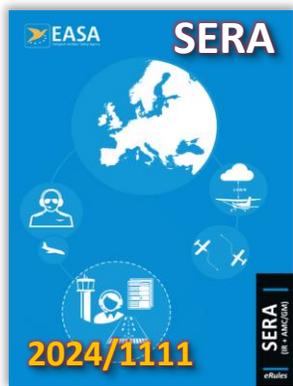
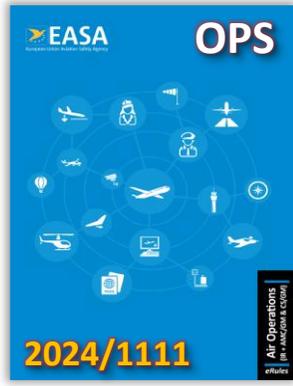
NPA 2024-06 AMC&GM

UAS 'specific category' – SAIL V/VI



NPA 2024-01 AMC&GM

Manned VTOL-capable aircraft



Introduction Command and Monitoring Unit (CMU) in Part.21

- CMU is introduced
- Procedures for Type Certification of CMU introduced
- Provision for Continuing Airworthiness for UAS including CMU introduced.



Function & Reliability Testing for Type Certified UAS

- NPA 2024-06, with draft AMC to 21.A.35
- Minimum Duration defined in 21.A.35(f)(2).
- Additional testing necessary for Certified Category under certain conditions.
- Representative flight duration and - operation.
- Minimum battery cycles to be agreed with EASA.
- F&R for CMU may include simulation

Duration	Flight Hours		Cases	Use of integration benches
	Certified Category	Specific Category (SAIL V/VI)		
Minimum	150	50/100	All	No
Additional	150	tbd	New safety critical technologies and/or new engines	Yes
CMU	TBD	TBD	All	TBD



Enabling Certification: Our Journey

TYPE DESIGN AND ENVIRONMENTAL PROTECTION

Q3/2019
Special
Condition
Light UAS
(SC-Light UAS)

Q2/2021
Special
Condition
Electric/Hybrid
Propulsion

2024
MOC
SAIL III

2025
P21 GM-
AMC
(ref. NPA
2024-
06(A))

2025
SC-Light
UAS >
600 kg

TBD
CS-VTOL
CS-UAS

TBD
Part 21 & CS
updates

OPERATIONS AND INFRASTRUCTURE

AIRSPACE AND AIRCREW

Q2/2021
U-Space Regulation

2025
945/947 update
with SORA 2.5

TBD
NPA(s) UAS
operations
type #1 and #2

Resuming rulemaking Certified Category as of 2026



Facilitating Validation



Transport
Canada



Objectives

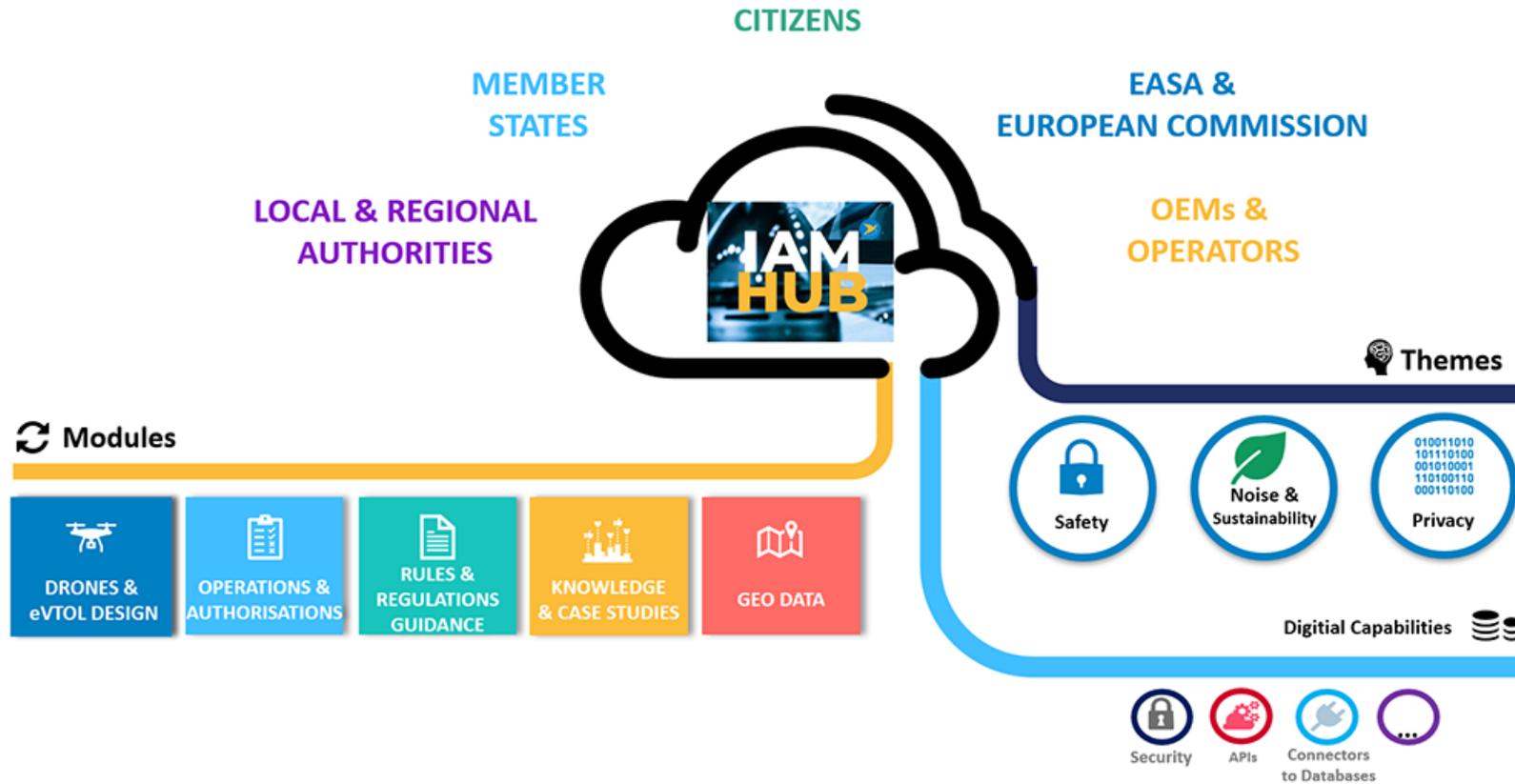
- CMT/DronesQuad platform for identification of high level non-prescriptive / performance-based airworthiness criteria
- enable product transferability based on mutually accepted Means of Compliance / Industry Standards

Challenges

- Different categories of operation implemented
- Different rulemaking process and pace



And... enhancing collaboration: EASA IAM Hub



 Drones Design Database



Thank you
for your attention!

Your safety is our mission.



easa.europa.eu/connect

