

# VTOL – kommande regelverk

Abdulah Ramic

Skolchefsmöte 2024



# Opinion No 03/2023

## Opinion No 03/2023 (RMT.0230 — SUBTASK C#1)

EASA introduces the following concepts for the purpose of standardising the communication on the matter at European Union level, and to be used for the development of future requirements (regulations and rules):

- **innovative<sup>18</sup> aerial services (IAS)**: the set of operations and/or services that are of benefit to the citizens and to the aviation market, and that are enabled by new airborne technologies; the operations and/or services include both the transportation of passengers and/or cargo and aerial operations (e.g. **surveillance, inspections, mapping, telecommunications networking, etc.**);
- **innovative air mobility (IAM)**: the safe, secure and sustainable air mobility of passengers and cargo enabled by new-generation technologies integrated into a multimodal transportation system;
- **urban air mobility (UAM)**: the subset of IAM operations conducted in to, within or out of urban environments.



## Opinion No 03/2023 (RMT.0230 — SUBTASK C#1) Definitions

### **Innovative aerial services (IAS)**

the set of operations and/or services that are of benefit to the citizens and to the aviation market, and that are enabled by new airborne technologies; the operations and/or services include both the transportation of passengers and/or cargo and aerial operations

#### **Aerial Operations**

surveillance, inspections, mapping, telecommunications networking, etc.

#### **Innovative Air Mobility (IAM)**

the safe, secure and sustainable air mobility of passengers and cargo enabled by new-generation technologies integrated into a multimodal transportation system

#### **Urban Air Mobility (UAM)**

the subset of IAM operations conducted in to, within or out of urban environments

**Regional**

**International**

## Opinion No 03/2023 (RMT.0230 — SUBTASK C#1) Definitions

- **VTOL:** vertical take-off and landing



- **VCA:** VTOL-capable aircraft (a power-driven, heavier-than-air aircraft, **other than aeroplane or rotorcraft**, capable of performing vertical take-off and landing by means of lift and thrust units used to provide lift during take-off and landing)



- **MVCA:** manned VCA



## Regulation (EU) No 1178/2011

### Article 4 — Existing national pilots' licences

4. The conversion report shall:

(a) be established by the Member State that issued the pilot licence in consultation with the European Aviation Safety Agency (the Agency);

(b) describe the national requirements on the basis of which the pilot licences were issued;

(c) describe the scope of the privileges that were given to the pilots;

(d) indicate for which requirements in Annex I credit is to be given;

(e) indicate any limitations that need to be included on the Part-FCL licences and any requirements the pilot has to comply with in order to remove those limitations.

(f).....

## Opinion No 03/2023

Opinion proposes to introduce provisions (**new Article 4f to Commission Regulation (EU) No 1178/2011**) that will allow holders of commercial pilot licences for aeroplanes (**CPL(A)**) or helicopters (**CPL(H)**) to be issued with a VCA type rating that will be endorsed on their CPL(A) or CPL(H), after having completed **type-rating training in accordance with the applicable OSD**.

The proposed Article 4f comprehensively addresses type-rating training including revalidation and renewal, privileges for flying under instrument flight rules (IFR), as well as related instructor and examiner privileges.

Art. 4f applicable from September 2025 (Template art.71 exemption for the VTOL operators who wants to start sooner)  
AMC & GM under development

This solution (VCA type ratings for existing CPL(A) and CPL(H) holders) will serve as a **bridging solution** while the relevant comprehensive **Part-FCL framework is not yet in place**, but it is also planned to keep the content of **Article 4f as a permanent arrangement**: CPL(A) or CPL(H) holders who wish to continue their career as VCA pilots will not need to obtain a separate pilot licence for manned VCA; instead, they will be able to add a VCA type rating to their existing licence.

# Kommande regelverk



## RMT.0230 FCL (Regulation (EU) No 1178/2011)

- NPA #2 (VPL, RPL) replanning in progress
- NPA on VPL: in 2025 (type #3 operation)
- NPA on RPL: in 2026 or later (operation type #1 -Cargo A350 international flight)
- Linked to RMT.0194 (CBTA) NPA in 2025
- VCA har ingen ICAO definition (FAA räknar VCA som powered lift aircraft)
- Ny paragraf (Recomendation) 2.1.1.5 i ICAO Annex 1, Chapter 2 liknar art.4f

*Ongoing UAS operations in the 'certified' category are grouped into three types:*

*— Type #1 operations: Instrument flight rules (IFR) operations of UAS for the carriage of cargo in airspace classes A–C (ICAO airspace classification) and taking off from and/or landing at aerodromes falling under the Basic Regulation.*

*— Type #2 operations: operations of UAS taking off and/or landing in a congested (e.g. urban) environment using predefined routes in the U-space airspace (part of the operation could be in a non-congested, e.g. rural, environment). These include operations of unmanned VTOL aircraft carrying passengers (e.g. air taxis) or cargo (e.g. goods delivery services).*

*— Type #3 operations: same as for type #2 operations with VTOL aircraft with a pilot on board, including operations out of the U-space airspace.*