

Towards Drone AIM in Latvia using UAS Geographical zones

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Operational conditions for UAS geographical zones



EC Implementing Regulation 2019/947, Article 15

- 1. When **defining UAS geographical zones** for safety, security, privacy or environmental reasons, Member States may:
 - a. <u>prohibit</u> certain or all <u>UAS operations</u>, request particular conditions for certain or all UAS operations or request a prior operational authorization for certain or all UAS operations;
 - b. subject UAS operations to specified environmental standards;
 - c. allow access to **certain UAS classes** only;
 - d. allow access only to <u>UAS equipped with certain technical features</u>, in particular remote identification systems or geo awareness systems.
- 2. On the basis of a risk assessment carried out by the competent authority, Member States may designate certain geographical zones in which <u>UAS operations are exempt</u> from one or more of the 'open' category requirements.
- 3. When pursuant to paragraphs 1 or 2 Member States define UAS geographical zones, for geo awareness purposes they shall ensure that the <u>information on the UAS geographical zones</u>, including their period of validity, <u>is made publicly available</u> in a common unique digital format.

LGS AIS services and functions



Aerodrome "Riga",

aerodrome "Liepaja"

Aeronautical Information Service (AIS) Aeronautical information products (including distribution services)

Aeronautical information publication (AIP)	N/A	Riga FIR
Aeronautical information circular (AIC)	N/A	Riga FIR
Aeronautical charts	N/A	Riga FIR
NOTAM	N/A	Riga FIR
AIP data set	N/A	Riga FIR
Terrain data sets	N/A	Riga FIR
Obstacle data sets	N/A	Riga FIR
Aerodrome mapping data sets	N/A	Riga FIR

N/A

THE MINISTRY OF TRANSPORT
THE STATE AGENCY "CIVIL AVIATION AGENCY"

NATIONAL SUPERVISORY AUTHORITIES OF THE REPUBLIC OF LATVIA, EUROPEAN UNION

CERTIFICATE

Reference: LV-ANS 01

Pursuant to the Regulation (EC) No 216/2008 of the European Parliament and of the Council, to the Regulation (EC) No 550/2004 of the European Parliament and of the Council and to the Commission Implementing Regulation (EU) No 1035/2011 and to for the time being in force and subject to the conditions specified in this Certificate, the State Agency "Civil Aviation Agency" hereby certifies:

State Joint Stock Company "Latvijas gaisa satiksme"

Current Aeronautical Information product and function nomenclature to be updated with UAS Geographical zones?

N/A

Pre-flight information

services

LGS AIM Drone activities – AIS/AIM functional system changes identified



AIM Drone Data-centric process

- Data collection
- Data assemble
- Data selection
- Data Format (unique ...)
- Data Distribution
- Data display (National Requirements)

AIS/AIM Functional system changes

- AIM/AIS SW improvement to serve UAS GeoZone data based on EUROCAE ED-269 requirements
- Integrated AIM DB (IAIM DB) improvement to cover UAS Geographical zone data;
- Create IAIM DB export mechanism to provide data.

EC Implementing Regulation 2019/947, Article 18 (f)

The competent authority shall be responsible for:

(f) making available in a common unique digital format information on UAS geographical zones identified by the Member States and established within the national airspace of its State;

AIS/AIM functional system changes identified



Procedures

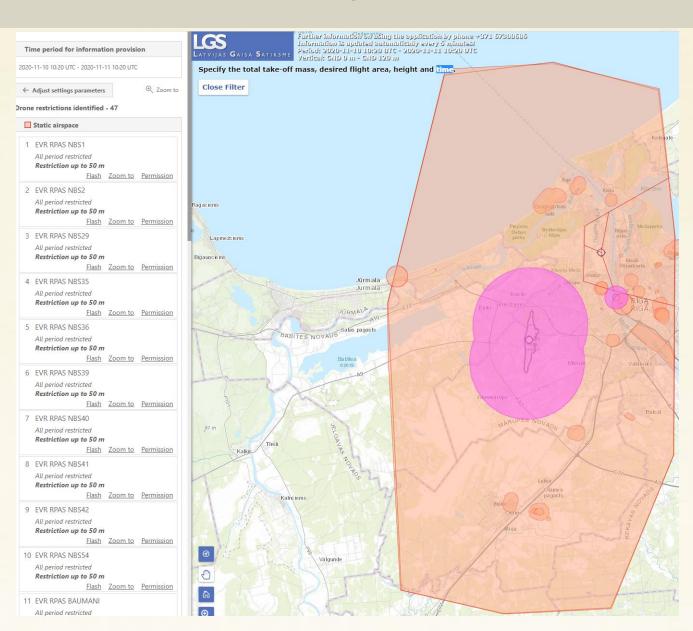
- Formal Arrangement improvement to ensure timely and complete data provision to AIS from UAS GeoZone Originators (Aeronautical Data Catalogue extension is needed)
- Appropriate procedures will be added to reflect staff responsibility to process UAS Geographical zone data

Personnel

ATSEP Training will be provided to achieve the UAS GeoZone competence

Transition from UAS Airspace restriction to GeoZone provision





Time period for information provision

2020-11-10 10:20 UTC - 2020-11-11 10:20 UTC

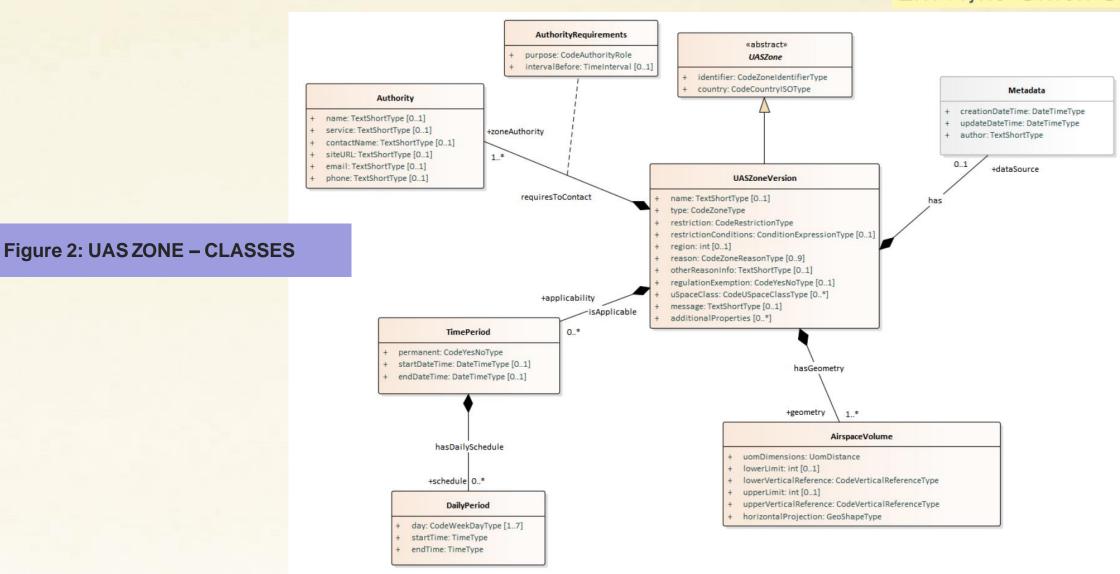
← Adjust settings parameters

⊕ Zoom to

Drone restrictions identified - 47

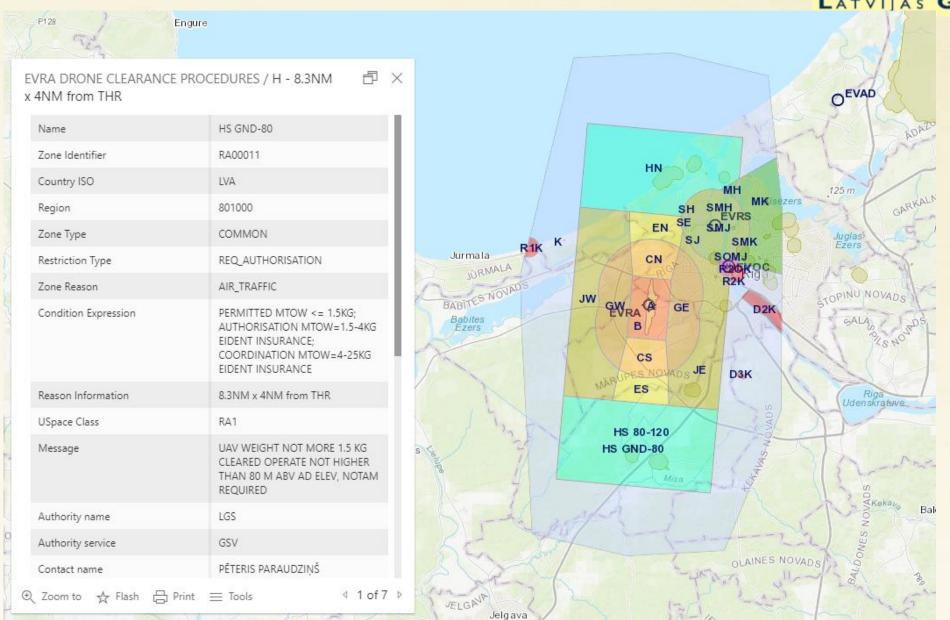
- UAS Zone info
- Authority
- Authority requirements
- Time period
- Daily period
- Airspace volume
- Metadata





UAS Geographical zones within RIGA CTR information and visualization - *example*







THANK YOU FOR THE ATTENTION!

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