

## ANNEX VII

### **Draft Annex VII to Regulation (EU) .../... amending Regulation (EU) 2017/373 laying down common requirements for providers of air traffic management/air navigation services and other air traffic management network functions and their oversight and Regulation (EU) No 139/2014 laying down requirements and administrative procedures related to aerodromes**

ANNEX III — Part Organisation Requirements — Aerodrome Operators (Part-ADR.OR) and ANNEX IV — Part Operations Requirements — Aerodromes (Part-ADR.OPS) to Regulation (EU) No 139/2014 are amended as follows:

1. Annex III (Part-ADR.OR) to Regulation (EU) No 139/2014 is amended as follows:
  - a. Point ADR.OR.B.015(b)(2)(ii) is replaced as follows:

‘(ii) the type of operations at the aerodrome and the associated airspace; and’.
  - b. ADR.OR.B.025(a)(1)(iii) is replaced as follows:

‘(iii) that the flight procedures of the aerodrome have been approved in accordance with Regulation (EU) 2017/373.’.
  - c. and ADR.OR.B.040(a)(1) is replaced as follows:

‘(1) affecting the terms of the certificate, its certification basis, the flight procedures associated with the aerodrome and safety critical aerodrome equipment;’.
  - d. ADR.OR.D.007 is replaced as follows:

**‘ADR.OR.D.007 Management of aeronautical data and aeronautical information**

    - (a) As part of its management system, the aerodrome operator shall implement and maintain a quality management system covering:
      - (1) its aeronautical data activities; and
      - (2) its aeronautical information provision activities.
    - (b) The aerodrome operator shall, as part of its management system, establish a security management system to ensure the security of operational data it receives, or produces, or otherwise employs, so that access to that operational data is restricted only to those authorised.
    - (c) The security management system shall define:
      - (1) the procedures relating to data security risk assessment and mitigation, security monitoring and improvement, security reviews and lesson dissemination;
      - (2) the means designed to detect security breaches and to alert personnel with appropriate security warnings; and

- (3) the means of controlling the effects of security breaches and of identifying recovery action and mitigation procedures to prevent reoccurrence.
- (d) The aerodrome operator shall ensure the security clearance of its personnel with respect to aeronautical data security.
- (e) The aerodrome operator shall take the necessary measures to protect its aeronautical data against cyber security threats.’

2. Annex IV (Part-ADR.OPS) to Regulation (EU) No 139/2014 is amended as follows:

a. ADR.OPS.A.010 is replaced as follows:

**‘ADR.OPS.A.010 Data quality requirements**

The aerodrome operator shall have formal arrangements with the organisations with which it exchanges aeronautical data and/or aeronautical information and shall ensure the following:

- (a) all data relevant to the aerodrome and available services shall be provided with the required quality; data quality requirements (DQRs) shall be complied with at data origination and maintained during data transmission;
- (b) the accuracy of aeronautical data shall be as specified in the aeronautical data catalogue;
- (c) the integrity of aeronautical data shall be maintained throughout the data process from origination to transmission; based on the integrity classification specified in the aeronautical data catalogue, procedures shall be put in place so that:
  - (1) for routine data, corruption is avoided throughout the processing of the data;
  - (2) for essential data, corruption does not occur at any stage of the entire process and additional processes are included, as needed, to address potential risks in the overall system architecture to ensure data integrity at that level; and
  - (3) for critical data, corruption does not occur at any stage of the entire process and additional integrity assurance processes are included to fully mitigate the effects of faults identified by thorough analysis of the overall system architecture as potential data integrity risks;
- (d) the resolution of the aeronautical data is commensurate with the actual data accuracy;
- (e) the traceability of the aeronautical data;
- (f) the timeliness of the aeronautical data, including any limits on the effective period;
- (g) the completeness of the aeronautical data; and
- (h) the format of the delivered data meets the specified requirements.’.

- b. New ADR.OPS.A.020 is added as follows:

**‘ADR.OPS.A.020 Common reference systems**

For the purpose of air navigation, the aerodrome operator shall use the:

- (a) World Geodetic System — 1984 (WGS-84) as the horizontal reference system;
- (b) mean sea level (MSL) datum as the vertical reference system; and
- (c) Gregorian calendar and coordinated universal time (UTC) as the temporal reference systems.’

- c. New ADR.OPS.A.025 is added as follows:

**‘ADR.OPS.A.025 Data error detection and authentication**

When originating, processing or transmitting data to the aeronautical information service (AIS) provider, the aerodrome operator shall:

- (a) ensure that digital data error detection techniques are used during the transmission and/or storage of aeronautical data in order to support the applicable data integrity levels; and
- (b) ensure that the transfer of aeronautical data is subject to a suitable authentication process such that recipients are able to confirm that the data or information has been transmitted by an authorised source.’

- d. New ADR.OPS.A.030 is added as follows:

**‘ADR.OPS.A.030 Aeronautical data catalogue**

When originating, processing or transmitting data to the AIS provider, the aerodrome operator shall ensure that the aeronautical data of Appendix 1 to Annex III (Part-ATM/ANS.OR) to Regulation (EU) 2017/373 conform to the data catalogue specifications.’

- e. New ADR.OPS.A.035 is added as follows:

**‘ADR.OPS.A.035 Data validation and verification**

When originating, processing or transmitting data to the AIS provider, the aerodrome operator shall ensure that validation and verification techniques are employed so that the aeronautical data meets the associated DQRs. In addition:

- (a) the verification shall ensure that the aeronautical data is received without corruption and that the aeronautical data process does not introduce corruption;
- (b) aeronautical data and aeronautical information entered manually shall be subject to independent verification to detect any errors that may have been introduced; and
- (c) when using aeronautical data to obtain or calculate new aeronautical data, the initial data shall be verified and validated, except when provided by an authoritative source.’

- f. New ADR.OPS.A.040 is added as follows:

**‘ADR.OPS.A.040 Error handling requirements**

The aerodrome operator shall ensure that:

- (a) errors identified during data origination and after data delivery are addressed, corrected or resolved; and
- (b) priority is given to managing errors in critical and essential aeronautical data.’.

- g. New ADR.OPS.A.045 is added as follows:

**‘ADR.OPS.A.045 Metadata**

The aerodrome operator shall ensure that metadata include, as a minimum:

- (a) the identification of the organisations or entities performing any action of originating, transmitting or manipulating the aeronautical data;
- (b) the action performed; and
- (c) the date and time the action was performed.’.

- h. New ADR.OPS.A.050 is added as follows:

**‘ADR.OPS.A.050 Data transmission**

The aerodrome operator shall ensure that aeronautical data is transmitted by electronic means.’.

- i. New ADR.OPS.A.055 is added as follows:

**‘ADR.OPS.A.055 Tools and software**

When originating, processing or transmitting aeronautical data to the AIS provider, the aerodrome operator shall ensure that tools and software used to support or automate aeronautical data processes perform their functions without adversely impacting the quality of the aeronautical data.’.