



EAC

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Aerodrome Mapping Data

1. Introduction

ECAR139-Subpart E, ECAR 139-307.a.2 and ECAR 139-307.a.2, contain provisions related to the provision of aerodrome mapping data. The aerodrome mapping data features are collected and made available to the aeronautical information services for aerodromes designated by States with consideration of the intended applications. These applications are closely tied to an identified need and operational use where the application of the data would provide a safety benefit or could be used as mitigation to a safety.

2. Applications

2.1 Aerodrome mapping data include aerodrome geographic information that applications which improve the user's situational awareness or supplement surface navigation, thereby increasing safety margins and operational efficiency. With appropriate data element accuracy, these data sets support collaborative decision making, common situational awareness, and aerodrome guidance applications. The data sets are intended to be used in the following air navigation applications:

- a) On-board positioning and route awareness including moving maps with own aircraft position, surface guidance and navigation;
- b) Traffic awareness including surveillance and runway incursion detection and alerting (such as respectively in A-SMGCS levels 1 and 2);
- c) Ground positioning and route awareness including situational displays with aircraft and vehicles position and taxi route, surface guidance and navigation (such as A-SMGCS levels 3 and 4);
- d) Facilitation of aerodrome-related aeronautical information, including NOTAMs;
- e) Resource and aerodrome facility management; and
- f) Aeronautical chart production.

2.2 The data may also be used in other applications such as training / flight simulators and on-board or ground enhanced vision systems (EVS), synthetic vision systems (SVS).

3. Determination of aerodromes to be considered for collection of aerodrome mapping data features

3.1 In order to determine which aerodromes may make use of applications requiring the collection of aerodrome mapping data features, the following aerodrome characteristics may be considered:

- Safety risks at the aerodrome ;
- Visibility conditions ;
- Aerodrome layout ; and
- Traffic density.

Note. — Further guidance on aerodrome mapping data can be found in EAC 139-25 — Airport Operational Service.