SESAR Solution Regulatory Overview

Enhanced Ground Controller Situation awareness in all weather conditions

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Abstract

This document contains an overview of the SESAR Solutions documented recommendations from regulatory, standardisation, oversight and certification perspectives resulting from the cooperation with EASA and National Authorities.

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Table of Contents

1   Introduction

The purpose of this document is to provide an overview of the SESAR Solutions documented recommendations from regulatory, standardisation, oversight and certification perspectives resulting from the cooperation with EASA and National Authorities.

The document presents the recommendations issued by the National Authorities and EASA, for an acceptable deployment of the concepts contained in the SESAR Solution. These recommendations must be taken into consideration by the entities in charge of deployment of the correspondent SESAR Solution.

2 General recommendations

In general terms, it must be underlined that:

1) When deploying a SESAR Solution, the compliance with all applicable regulatory requirements must be ensured by the different concerned entities;

2) In particular, it must be ensured that the appropriate safety argument for the concerned change to the ATM functional system is performed in accordance with EC regulation 1035/2011 considering local specific risks and mitigation to those risks.

3) The present SESAR Solution does not constitute in itself an acceptable Means of Compliance with the previously mentioned regulatory requirements. Means of Compliance are subject to their acceptance by the Authorities involved in each concrete local implementation.

4) A verification of the existing standardisation and regulatory frameworks has to be done at the date of local deployment to identify possible major changes to the one in use at the moment of publication of this SESAR Solution.

3 Specific recommendations

3.1 On the Regulatory Framework

The need for improving regulations addressing security issues affecting data exchange should be considered.

3.2 On the Standardisation Framework

The need for improving standards addressing security issues affecting data exchange should be considered.

3.3 On the Regulatory Oversight and Certification Activities

On the elaboration of the local safety argument:

- An assessment of the percentage of runway conflicts stemming from ATC clearances in each particular operational scenario has to be done.

- The work load specifically associated with the use of EFS has to be assessed in the local application

The elaboration of specific local procedures on several topics should be considered regarding:

- working sequence for the use of radiofrequency communications and electronic flight strips;
- maintaining ATCO awareness on external views of the tower;
- airport/ATC interface procedures including particular alerting algorithms;
- warning acceptance by the ATCO;

Regarding additional technical and operational elements:

- The determination of acceptable number of false alerts must be done for the particular operational environment.

- A warning signal on electronic strips to prevent issuing a conflicting clearance should be developed;

- The use of transponders in ground vehicles should be ensured

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