



# **SWIM Common PKI and policies & procedures for establishing a Trust Framework**

## **D1.2 Final Trust Framework - Annex A3 EACP Policies and Processes**

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### **Abstract**

This document is part of the Trust Framework for the European Aviation Common PKI (Public Key Infrastructure).

It is the annex A3 of the EACP Trust Framework describing the EACP Policies and Processes.

## Authoring & Approval

Prepared By - <i>Authors of the document.</i>		
Name & Company	Position & Title	Date
Patrick MANA EUROCONTROL	Project Manager	19/10/2021

Reviewed By - <i>Reviewers internal to the project.</i>		
Name & Company	Position & Title	Date

Reviewed By - <i>e.g. EDA, staff associations, other organisations.</i>		
Name & Company	Position & Title	Date

Approved for submission to the SDM By - <i>Representatives of the company involved in the project.</i>		
Name & Company	Position & Title	Date

Rejected By - <i>Representatives of the company involved in the project.</i>		
Name & Company	Position & Title	Date

Rational for rejection

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## Table of Contents

<b>1</b>	<b>Introduction .....</b>	<b>6</b>
1.1	Context .....	6
1.2	Purpose .....	6
1.3	Document Structure.....	6
<b>2</b>	<b>More information sharing in ATM .....</b>	<b>7</b>
2.1	Annex A3.a - EACP Certificate Policy .....	7
2.2	Annex A3.b - EACP Certification Practices Statement .....	7
2.3	Annex A3.c - EACP Processes and Procedures .....	7
2.4	Annex A3.d - EACP Criteria and Methodology for Cross-Certification .....	8

# 1 Introduction

## 1.1 Context

This document is the Annex A3 to the European Aviation Common PKI Trust Framework. It introduces the EACP Policies and Processes that are described in underlying annexes. It is meant to be read in conjunction with the rest of the framework.

## 1.2 Purpose

Participation in the European Common Aviation Trust Framework shall be possible for European Aviation stakeholders that require secure collaboration and data sharing while trusting one another's digital identities.

This document provides the structure of the EACP Policies and Processes package.

## 1.3 Document Structure

This document describes:

- Annex A3.a – Certificate Policy
- Annex A3.b – EACP Certification Practices Statement
- Annex A3.c – EACP Processes and Procedures
- Annex A3.d – Criteria & Methodology for Cross-Certification

## 2 More information sharing in ATM

### 2.1 Annex A3.a - EACP Certificate Policy

The structure of the EACP CP is based upon industry best practice, namely RFC 3647.

The EACP CP presents requirements on the EACP certificate lifecycle management (key pair creation, certificate issuance, renewal/rekeying, publication, revocation, etc.) and gives rules on the technical aspects of the certificate(s) such as the validity period, the key length and algorithm, etc. Often, the CP includes rules on the registration process and describes the applicability of the certificate to a specific community. Additional details on the technical aspects of the certificate, including details of private extensions are also included and other details that a relying party should be aware of in order to understand what level of reliance to place on a certificate and its usage.

EACP provides also rules on the Technical, Operational and Legal aspects of the EACP.

The EACP CP is developed to refer to other EACP documentation where appropriate, taking into account both the need to protect the confidentiality of internal controls and associated processes as well as reducing the duplication of information.

### 2.2 Annex A3.b - EACP Certification Practices Statement

The structure of the EACP Certification Practices Statement (CPS) will be based upon the RFC 3647.

The EACP CPS describes "how" EACP performs certification management; it explains how certificates are managed through the complete certificate lifecycle, from generation to destruction. Where hardware tokens are used, the token lifecycle management and associated practices may also be described.

Whilst both the CPS and CP follow the same document structure and together describe the Policy, Legal, Operational and Technical aspects of the use of EACP, the intended purpose for the two types of document is quite different and therefore the actual contents and levels of detail for each section varies between them.

The EACP Certification Practices Statement (CPS) will be developed at a later stage by the selected contractor.

### 2.3 Annex A3.c - EACP Processes and Procedures

The EACP Processes and Procedures document describes the Processes and Procedures applicable for the operation of the EACP Services. It details the processes and procedures of registering new participant to EACP, exposes all the steps surrounding the certificate lifecycle management from key pair generation up to certificate revocation. Moreover, Annex A3.c details processes of other EACP services such as the Interoperability service, the Signing As a Service, the Validation As a Service and the delegation of the Local Registration Authority Service (LRA).

## 2.4 Annex A3.d - EACP Criteria and Methodology for Cross-Certification

Annex A3.d defines criteria for a global interoperability between EACP and other external PKI domains. The document describes the criteria for eligibility and makes distinction between intra-interoperability criteria and inter-interoperability criteria, and presents the compliance requirement. In addition, the document describes the renewal process and other maintenance tasks that sustain the interoperability relationship over time.