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PKI SYSTEM CERTIFICATE POLICY AND CERTIFICATION PRACTICE STATEMENT FOR **SCA-001** (SCA-001 CP/CPS)

Issue 1.0 | August 2023

#EUSpace

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DOCUMENT CHANGE RECORD

REASON FOR CHANGE	ISSUE	REVISION	DATE
First version of the document	1	0	August 2023

FOREWORD

This Certificate Policy and Certification Practice Statement for the EUSPA GALILEO SCA-001 infrastructure (hereinafter referred to as CPS EUSPA GALILEO SCA-001 or CPS) details the certification policy and practices that EUSPA applies for the issuance of digital certificates by the EUSPA GALILEO SCA-001 (hereinafter referred to as EUSPA GALILEO SCA-001) infrastructure for ICAs.

The structure and content of the CPS EUSPA GALILEO SCA-001 are compliant with [RD-3], [RD-4] and [RD-5].

The EUSPA GALILEO SCA-001 infrastructure is classified and most of the organizational, technical and process details are only delivered on a need-to-know basis and in compliance with applicable regulations ([RD-11]).

The EUSPA GALILEO SCA-001 is intended to be used initially in support of Galileo OSNMA service. Nevertheless, in the future, the EUSPA GALILEO SCA-001 might be used for additional purposes within the Galileo program, in which case an evolution of this CP/CPS will be published.

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1 INTRODUCTION

1.1 Overview

EUSPA, Certificate Authorities and associated Relying Parties' operation depend on the CPS EUSPA GALILEO SCA-001 for the issuance of digital certificates for ICAs. Also, this document describes the general rules for providing certificate services such as: registration, public key certification, key and certificates rekey and certificate revocation.

In this version of the document the EUSPA GALILEO SCA-001 certificates are provided within the OSNMA Public Observation phase only for testing purposes. See [RD-12] for further details. Further versions of this document will be published for the OSNMA service provision phase and new services.

1.2 Document identification

This document is the practice statement and also the EUSPA GALILEO SCA Policy 1 identified by {EUSPA}.1.1=1.3.6.1.4.1.60049.1.1 with :

- EUSPA RCA Policy 1 = {EUSPA}.1=1.3.6.1.4.1.60049.1

The digital version of this document is available in the following repositories

- HTTP repository at <https://www.euspa.europa.eu/about/how-we-work/pki/policy> (please see [RD-1] for further details).

1.2.1 Reference documents

Please refer to chapter 11.

1.3 PKI participants

The CPS EUSPA GALILEO SCA-001 regulates the most important relations between entities belonging to EUSPA, advisory teams (including auditors) and customers (users of the services provided):

- Certification Authorities
- Subscribers
- Relying parties
- Communication team for the repositories (§1.2)
- Relevant suppliers for EUSPA regarding issuance and management of digital certificates
- Auditors

Note: PKI administration contact given in §1.5.2

1.3.1 Certification authorities

EUSPA GALILEO SCA-001 is the second tier Certification Authority part of the following hierarchy:

- EUSPA Root CA.
- GALILEO Sub CA.

- OSNMA Issuing CA.

The EUSPA GALILEO SCA-001 can issue certificates only to ICAs that belong to the EUSPA domain.

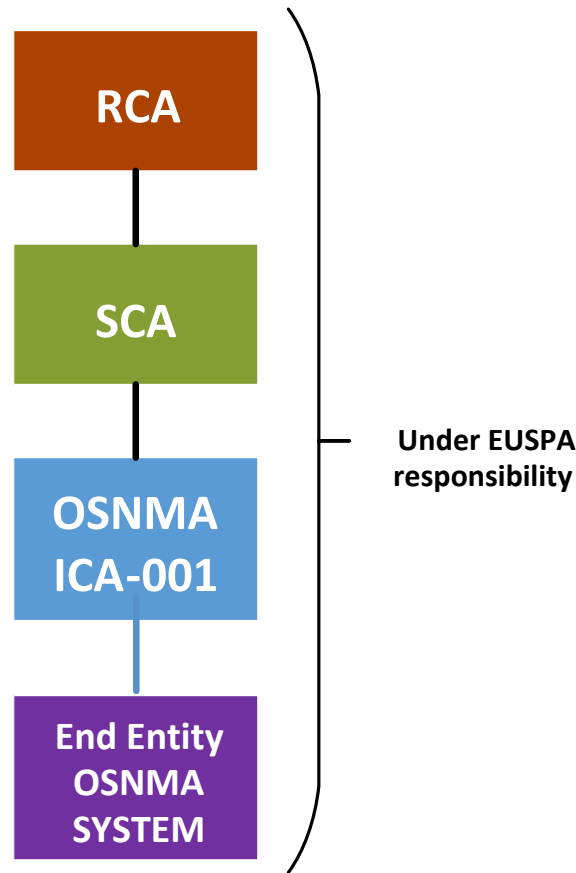


Figure 1: Certification Authority chain overview

1.3.2 Registration authority

Only EUSPA/EUSPA contracted operators are authorized to request and issue certificates.

1.3.3 Subscribers

The PKI subscriber is EUSPA.

1.3.4 Relying parties

A relying party is an entity that uses a SCA certificate. This certificate digital signature has to be controlled in order to insure the confidentiality, integrity and authenticity of the data exchange relying on this certificate.

1.3.5 Other participants

EUSPA GALILEO SCA-001 is operated by EUSPA/EUSPA contracted and authorized operators.

These entities may audit the EUSPA GALILEO SCA-001:

- National Authorities.
- Independent audit team (e.g.: Security Accreditation Board tasks an audit team).

1.4 Certificate usage

The certificate policy settles the purpose for which a certificate may be used. This is defined by two elements:

- One that defines the certificate applicability (for example: electronic signature, confidentiality),
- And another that entails a list or a description of the allowed and prohibited applications.

1.4.1 Appropriate certificate uses

The EUSPA GALILEO SCA-001 private key is only used to sign certificates and certificate revocation lists.

The EUSPA GALILEO SCA-001 only issues certificates for ICAs which only sign certificates and certificate revocation lists (CRL).

1.4.2 Prohibited certificate uses

All certificate usages not listed in §1.4.1 are prohibited.

1.5 Policy administration

1.5.1 Organization administering the document

Table 1 - Organization administering the document

Name	European Union Agency for the Space Programme (EUSPA) Office: Janovského 438/2 170 00 Prague 7 – Holesovice Czech Republic
e-mail	helpdesk@gsc-europa.eu
Web	https://www.gsc-europa.eu/

1.5.2 Point of contact

Table 2 - Point of contact

Name	GSC Helpdesk
e-mail	helpdesk@gsc-europa.eu

Contact person should also be used for any concern about the certificate (e.g.: revocation §4.9.3).

1.5.3 Entity determining CPS suitability for the policy

Table 3 - Entity determining CPS suitability for the policy

Name	GSC Helpdesk
e-mail	helpdesk@gsc-europa.eu
Web	https://www.gsc-europa.eu/

1.5.4 CPS approval procedures

The procedure for document (CP/CPS) changes is under the responsibility of the PKI Project Manager.

The EUSPA Engineering department will be in charge of updating the technical content and submitting the update to the EUSPA Engineering Board.

Any change and evolution of this document will be first submitted to the EUSPA Engineering Board for endorsement and after to the EUSPA Project Board for the approval. The EUSPA Project Board will request (if necessary) the implementation of the changes.

1.6 Acronyms and Abbreviations

Table 4 - Acronyms and abbreviations

Abbreviation	Definition
CA	Certification Authority
CPS	Certification Practice Statement : Statement of the practices which a Certification Authority employs in issuing managing, revoking, and renewing or re-keying certificates
CRL	Certificate Revocation List
CSR	Certificate Signing Request
DN	Distinguished Name
EC	European Commission
ECC	Elliptic Curve Cryptography
ECSS	European Cooperation for Space Standardization
EE	End Entity
EU	European Union
EUCI	EU classified information
EUSPA	European Union Space Programme Agency
{EUSPA}	EUSPA base OID=1.3.6.1.4.1.60049
GNSS	Global Navigation Satellite System (e.g. GPS, Galileo, GLONASS etc.)
HSM	Hardware Security Module
ICA	Issuing Certificate Authority
NAGU	Notice Advisory to Galileo Users
OID	Object identifier Alphanumeric / numeric identifier registered in accordance with the ISO/IEC 9834 standard and uniquely describing a specified object or its class
PKI	Public Key Infrastructure
RCA	Root Certificate Authority
SCA	Subordinate Certificate Authority

Abbreviation	Definition
SIS	Signal In Space

2 PUBLICATION AND REPOSITORY RESPONSIBILITIES

2.1 Repositories

The Status of certificates (new certificates, CRL updates) will be announced on the Web Portal and sent to registered users via e-mail, consenting to such notification

The repository is available online:

- EUSPA Web Portal (public) : <https://www.euspa.europa.eu/about/how-we-work/pki>

The content is described in [RD-1].

EUSPA/EUSPA contracted organizations:

- Make all necessary efforts to ensure that all certificates published in the repositories belong to EUSPA.
- Ensures that the certificates of Certification Authorities belong to each domain and that the certificates are published on time.
- Ensures the publishing of the CPS.
- Provides access to information about the certificate status by publishing Certificate Revocation Lists (CRL) for instance through an HTTP service.
- Secures constant access to information in the repositories.
- Ensures secured and controlled access to repositories.
- Makes all necessary efforts to ensure that all personal information are treated according to the GDPR.

2.1.1 EUSPA Web Portal

The following elements are available in EUSPA Web Portal:

1. All required elements to trust the RCA (e.g.: RCA certificate, RCA CRL and RCA CP/CPS).
2. All required elements to trust the SCA (e.g.: SCA certificate, SCA CRL and SCA CP/CPS).

Note : For the sake of service continuity, when renewing a certificate, active and future certificates and CRL may be present in the repositories as described in [RD-1].

2.2 Publication of certification information

Online repositories providing the CPS, issued certificates, CRL and any other elements necessary to authenticate the Chain of Trust and deliver a trusted service are always available.

2.3 Time or frequency of publication

The information published is updated following specific events like:

- CPS updates.
- After issuing a new certificate.
- Certificate Revocation List is updated either periodically or when a certificate is revoked.
- Fixing of non-conformities found by audits.
- Additional information – after every update.

2.4 Access controls on repositories

All information published is publicly available in EUSPA Web portal.

Logical and physical protection measures are implemented to protect against unauthorized addition, deletion or modification of data published in the EUSPA repository.

Relying parties have read-only access via Internet to the EUSPA repository.

In case of voluntary or involuntary alteration or compromise of information in the repository, appropriate actions will be taken to re-establish the repositories' data integrity. Actions (if appropriate) will be taken against those responsible for these acts. The affected relying parties will be notified.

3 IDENTIFICATION AND AUTHENTICATION

3.1 Naming

The structure and use of names in certificates comply with [RD-6].

3.1.1 Types of names

Certificates generated by EUSPA GALILEO SCA-001 for ICA are compliant with the X.509 v3 standard. Basic names of the Subjects and of the certificate issuers placed in EUSPA's certificates are in compliance with the Distinctive Names – DN, created following X.500 and X.520 recommendations.

3.1.2 Need for names to be meaningful

The names used in certificates are chosen so that:

- It is clear that the certificate issued is an CA certificate (not a EE certificate).
- The usage of the CA certificate is clear.

The names of CA certificates should be compliant with:

- `commonName`: An official unique identifier of the CA (as formatted in ETSI EN 319 412-1),
- `organizationName`: EUSPA as it is the official registered name of the Subscribing CA as a corporation or organization
- `countryName`: ES as it is the two-letter ISO 3166-1 country code for the country in which the CA is located.

3.1.3 Anonymity or pseudo anonymity of subscribers

The subscribers shall not be anonymous or pseudo anonymous.

3.1.4 Rules for interpreting various name forms

The interpretation of the fields within the certificates issued by EUSPA is done in accordance with the certificate profiles described in Certificates and CRLs profiles presented in §7 of this document. The creation and interpretation of the DN shall be performed according to the recommendations from § 3.1.2 of this document.

3.1.5 Uniqueness of names

The CN must be unique for all certificates issued by the EUSPA GALILEO SCA-001.

3.1.6 Recognition, authentication and role of trademarks

Not applicable

3.2 Initial identity validation

3.2.1 Method to prove possession of private key

Possession of the private key is controlled by verifying the digital signature of the CSR (certificate signing request).

3.2.2 Authentication of organization identity

EUSPA GALILEO SCA-001 is the second tier Certification Authority of the EUSPA domain: its certificate is signed by the ROOT CA and should be verified with the ROOT CA public key/certificate.

Only EUSPA/EUSPA contracted operators are authorized to operate the EUSPA GALILEO SCA-001.

3.2.3 Authentication of individual identity

Authentication is done using only EUSPA/EUSPA contracted and authorized operators' credentials.

3.2.4 Non-verified subscriber information

The EUSPA PKI doesn't include unverified subject information in certificates.

3.2.5 Validation of authority

Each received certificate authority shall be verified through chain of trust.

3.2.6 Criteria for interoperation

Not applicable.

3.3 Identification and authentication for re-key requests

3.3.1 Identification and authentication for routine re-key

Same identification and authentication will be used as per section 3.2.3.

3.3.2 Identification and authentication for re-key after revocation

Same identification and authentication will be used as per section 3.2.3.

3.4 Identification and authentication for revocation request

Same identification and authentication will be used as per section 3.2.3.

4 CERTIFICATE LIFE-CYCLE OPERATIONAL REQUIREMENTS

This chapter describes the basic procedures that apply to all types of certificates issued directly by EUSPA GALILEO SCA-001.

4.1 Certificate application

4.1.1 Who can submit a certificate application

Only EUSPA/EUSPA contracted and authorized operators can request a certificate from the EUSPA GALILEO SCA-001.

4.1.2 Enrolment process and responsibilities

The enrolment process is described in [RD-7].

4.2 Certificate application processing

4.2.1 Performing identification and authentication functions

Identification and authentication functions are done by trusted roles associated to EUSPA GALILEO SCA-001 as described in [RD-7].

4.2.2 Approval or rejection of certificate applications

Approval or Rejection of a certificate application is done as per [RD-7].

4.2.3 Time to process certificate applications

EUSPA/EUSPA contracted and authorized operators are the only persons operating the EUSPA GALILEO SCA-001. In this framework, the time to process certificate applications is without interest as the requester and the issuer are the same authorized operators.

4.3 Certificate issuance

4.3.1 CA actions during certificate issuance

After receiving and processing a request, the EUSPA GALILEO SCA-001 issues a certificate. After the certificate is issued, EUSPA/EUSPA authorized and contracted operators will publish the certificate in the EUSPA repository if necessary.

4.3.2 Notification to subscriber by the CA of issuance of certificate

Not applicable as the EUSPA GALILEO SCA-001 and the ICAs system are operated by the same authorized operators.

4.4 Certificate acceptance

4.4.1 Conduct constituting certificate acceptance

Acceptance of a certificate is described in [RD-7].

4.4.2 Publication of the certificate by the CA

See §2 of the present document.

4.4.3 Notification of certificate issuance by the CA to other entities

Every issued certificate is published in EUSPA repository if needed.

4.5 Key pair and certificate usage

4.5.1 Subscriber private key and certificate usage

The private keys are protected (as described in §6) from access by unauthorized personnel or other third parties.

The private keys are used only in accordance with the usages specified in the key usage extension as stated in §1.4.1 and described in [RD-1].

4.5.2 Relying party public key and certificate usage

All user receivers software must be compliant with X.509 that enforce the requirements and requirements set forth in this CPS. EUSPA does not warrant that any third party's software will support or enforce such controls or requirements, and all relying parties are advised to seek appropriate technical or legal advice.

Relying Parties shall use the certificates:

- In compliance with their stated purpose in the present CPS and in compliance with the certificate content (field keyUsage),
- Only after certificate validity/status control and validation of chain of trust.

Relying on an unverifiable digital signature may result in risks that the relying party assumes in whole and which EUSPA does not assume any responsibility for any way.

4.6 Certificate renewal

Prior to the expiration of an existing CA certificate, it is necessary to request a new certificate to maintain continuity of the services relying on this PKI.

A certificate renewal necessarily implies re-keying (public/private keys renewal or recomputation).

Other certificate attributes will not change between new and old certificates except in exceptional circumstances. For example in case of the use of a new algorithm, a new CP/CPS will be published, in addition to a new certificate.

Furthermore, if the SCA keys are revoked, all certificates issued by this SCA become untrusted and must be renewed again.

4.7 Certificate re-key

See §4.6

4.8 Certificate modification

No modification is allowed on existing certificate (e.g.: validity extension): modifications shall be done through certificate renewal.

4.9 Certificate revocation and suspension

Certificates issued by EUSPA GALILEO SCA-001 can be revoked but they are never suspended. Certificate revocation is irreversible.

4.9.1 Circumstances for revocation

The EUSPA GALILEO SCA-001 will revoke issued certificates for instance when:

1. EUSPA/EUSPA contracted and authorized operators obtain evidence that the ICA (related to this EUSPA GALILEO SCA-001) has been compromised or no longer complies with the requirements of §6.1.5 and §6.1.6.
2. EUSPA/EUSPA contracted and authorized operators obtain evidence that the ICA (related to this EUSPA GALILEO SCA-001) private key has been misused.
3. EUSPA/EUSPA contracted and authorized operators are made aware that the ICA (related to this EUSPA GALILEO SCA-001) private key was not issued in accordance with this document.
4. EUSPA/EUSPA contracted and authorized operators determine that any of the information appearing in the ICA (related to this EUSPA GALILEO SCA-001) private key is inaccurate or misleading.
5. The ICA (related to this EUSPA GALILEO SCA-001) ceases operations for any reason.
6. The GALILEO EUSPA GALILEO SCA-001's right to issue ICA certificates under these requirements expires or is revoked or terminated, but GALILEO EUSPA GALILEO SCA-001's right to publish CRL remains.

A compromised private key refers to:

1. Unauthorized access to the private key or a strong reason for suspecting such a thing,
2. Private key loss or occurrence of a reason to suspect such a loss,
3. Stolen private key or occurrence of a reason to suspect such a theft,
4. Accidental deletion of the private key.

4.9.2 Who can request revocation

Revocation can only be performed by EUSPA/EUSPA contracted and authorized operators.

4.9.3 Procedure for revocation request

The ICA certificates will be revoked by EUSPA/EUSPA contracted and authorized operators staff who will also publish a new CRL. For further details please refer to [RD-2].

4.9.4 Revocation request grace period

As soon as the revocation is decided and taking into account service provision constraints, EUSPA/EUSPA contracted and authorized operators will revoke the certificate without any grace period.

4.9.5 Time within which CA must process the revocation request

Not available.

4.9.6 Revocation checking requirements for relying parties

Relying Parties shall use the repositories to verify the status of a certificate any time before relying on it:

- ICA CRL.
- SCA CRL.
- RCA CRL.

4.9.7 CRL issuance frequency

In case of certificate revocation, this certificate is immediately present in the Certificate Revocation List.

4.9.8 Maximum latency for CRLs

The CRL should be published without delay.

4.9.9 On-line revocation/status checking availability

The provisions given in section 2.3 apply.

4.9.10 On-line revocation checking requirements

The provisions given in section 2.3 apply.

4.9.11 Other forms of revocation advertisements available

Not applicable.

4.9.12 Special requirements re key compromise

The ICA (related to this EUSPA GALILEO SCA-001) certificate associated to a compromised private key shall be revoked.

By propagation, all cryptographic elements under EUSPA GALILEO SCA-001 (including certificates issued by the ICA related to this EUSPA GALILEO SCA-001) shall be revoked in the case where the EUSPA GALILEO SCA-001 private key is compromised.

4.9.13 Circumstances for suspension

EUSPA/EUSPA contracted and authorized operators don't suspend certificates.

4.9.14 Who can request suspension

Not applicable.

4.9.15 Procedure for suspension request

Not applicable.

4.9.16 Limits on suspension period

Not applicable.

4.10 Certificate status services

4.10.1 Operational characteristics

EUSPA GALILEO SCA-001 certificate status services is provided through the CRL. CRL is available through EUSPA repository as described in §2. The integrity and authenticity of the CRL is provided by the digital signature performed by the EUSPA GALILEO SCA-001.

4.10.2 Service availability

The EUSPA GALILEO SCA-001 operates and maintains its CRL capability with resources sufficient to provide an HTTP service under normal operating conditions.

The EUSPA GALILEO SCA-001 publication availability is described in §2.2.

4.10.3 Optional features

EUSPA certificate status services do not include or require any additional features.

4.10.4 End of subscription

Not applicable.

4.10.5 Key escrow and recovery

Not applicable.

4.11 CA termination

Before a CA ceases its activity, EUSPA/EUSPA contracted and authorized operators staff should:

- Inform the following about the decision to terminate its services: all relying parties who use active (unexpired and unrevoked) certificates issued by this authority and other entities with which EUSPA has agreements or other form of established relations, other trust service providers and relevant authorities such as supervisory bodies;
- Revoke the unexpired certificates that have been issued by the EUSPA GALILEO SCA-001;
- Assist with the orderly transfer of service, and operational records to a successor CA, if any;
- Destroy CA private keys, including backup copies, or withdraw them from use, in such a manner that the private keys cannot be retrieved.

5 FACILITY, MANAGEMENT, AND OPERATIONAL CONTROLS

Facility, management, and operational controls are described in a Local Security Operations document [RD-8].

Business continuity plan is described in [RD-9] and provides guidelines for handling security incidents related to the certificate system, including reporting and mitigation procedures.

6 TECHNICAL SECURITY CONTROLS

The EUSPA GALILEO SCA-001 PKI infrastructure is classified and complies with applicable EUCI regulations and [RD-14]. Some of the technical, organizational or processes measures are only communicated on a need-to-know basis and in compliance with applicable regulation [RD-11].

6.1 Key pair generation and installation

6.1.1 Key pair generation

All key pairs are generated by a CC EAL4+ certificate and Reinforced Qualification (ANSSI) and having NATO SECRET and EU RESTRICTED agreements HSM.

6.1.2 Private key delivery to subscriber

Not applicable

6.1.3 Public key delivery to the certificate issuer

ICA Public key is delivered to the certificate issuer EUSPA GALILEO SCA-001 through CSR.

6.1.4 CA public key delivery to relying parties

Certification Authorities are available in the repositories §2.2.

6.1.5 Key sizes

All EUSPA PKI key sizes follow the recommendations provided by the French NSA (ANSSI) given in [RD-10]. The used values for ICA certificates issued by the EUSPA GALILEO SCA-001 are the following:

- Digest Algorithm: SHA-256
- ECC: NIST P-256.

6.1.6 Public keys parameters generation and quality checking

EUSPA/EUSPA contracted and authorized operators are responsible for checking the parameter quality of the generated key.

6.1.7 Key usage purposes (as per X.509 v3 key usage field)

Key usage of CA certificates is defined in §7 and shall be used only for 'Certificate Signing' and 'CRL Signing'.

6.2 Private key Protection and Cryptographic Module Engineering Controls

6.2.1 Cryptographic module standards and controls

The cryptographic product is approved by the Secretary-General of the Council (LACP [RD-15]), has also a CC EAL4+ certification, Reinforced Qualification (ANSSI QR), NATO SECRET and EU RESTRICTED agreements covers hardware and software implementation.

6.2.2 Private key (n out of m) multi-person control

CA Key Pairs are generated in accordance with a written key generation procedure.

Associated records are retained at least for the lifetime of the generated key pairs.

6.2.3 Private key escrow

Private keys are not subjected to custody.

6.2.4 Private key backup

Private keys are backed-up and stored in a secured manner.

6.2.5 Private key archival

Private key are archive in a secured manner.

6.2.6 Private key transfer into or from a cryptographic module

Private keys/backups are encrypted before extraction and the transfer into another HSM are performed in accordance with HSM manufacturer procedures.

6.2.7 Private key storage on cryptographic module

Private keys are stored in HSM as per HSM manufacturer procedures.

6.2.8 Method of activating the private key

Private keys are activated in accordance with the user manual of the HSM manufacturer.

6.2.9 Method of deactivating private key

Private keys are deactivated in accordance with the user manual of the HSM manufacturer.

6.2.10 Method of destroying private key

Private keys are destroyed in accordance with the user manual of the HSM manufacturer and as described in [RD-7].

6.2.11 Cryptographic Module Rating

See §6.2.1

6.3 Other aspects of key pair management

6.3.1 Public key archival

No stipulation.

6.3.2 Certificate operational periods and key pair usage periods

The validity periods of the keys are:

Table 5 – Key periods

Keys/certificates	Validity period
EUSPA GALILEO SCA-001	5 years
OSNMA ICA Certificate	3 years

6.4 Activation data

Not applicable.

6.5 Computer security controls

The entire infrastructure is hosted in a secure area. Physical controls, networks controls and system controls protect the system from unauthorized logical and physical accesses.

6.6 Life cycle technical controls

6.6.1 System development controls

The development of the system follows the ECSS standards defining all the steps to monitor, review, qualify, validate and accept the system.

6.6.2 Security Management Controls

Organization, procedures and technical measures are assessed during the development phase and during the operation all along the infrastructure lifetime through audits.

6.6.3 Life cycle security controls

Security controls are performed through the monitoring of the status of the entire infrastructure. Furthermore, internal audit are performed every year and external audits may be planned also to assess the security level of the infrastructure and improve it.

6.7 Network security controls

The controls include:

- A set of organization measures as, for example, separation of duties, right access control and management.
- A set of technical measures as, for example, firewalls, antivirus, hardened operating systems.
- A set of physical measures as, for example, badge access, seals, locks.
- Cyber/Security and operation trainings.
- Monitoring system with dashboards to control system health and security events.
- Constant vulnerability and patch management.

6.8 Time stamping

All events are timestamped.

7 CERTIFICATE AND CRL PROFILES

Certificate profiles and Certificate Revocation List (CRL) profile comply with the format described in the ITU-T X.509 v.3 standard. The information stated below describes the meaning of the respective certificate fields and CRL, of the applied standard and private extensions used by EUSPA.

Certificate and CRL are defined in [RD-1].

8 OCSP PROFILE

Not applicable.

9 COMPLIANCE AUDIT AND OTHER ASSESSMENTS

9.1 Frequency or circumstances of assessment

Compliance internal audits are performed regularly; once per year.

9.2 Identity/qualifications of assessor

The auditor can be internal to EUSPA/EUSPA contractor organizations or external and independent from EUSPA/EUSPA contractor (EUSPA Security Accreditation Department, National NSA, external accredited company)

The auditors have enough qualifications to audit PKI infrastructures.

9.3 Topics covered by assessment

The auditors assess the compliance level of the infrastructure to applicable cyber/security baselines, specifications, regulations or guidelines (e.g.: NSA guidelines).

10 OTHER BUSINESS AND LEGAL MATTERS

10.1 Fees

No fee as part of Galileo project.

10.1.1 Certificate issuance and renewal fees

Not applicable.

10.1.2 Certificate access fees

Not applicable.

10.1.3 Revocation or status information access fees

Not applicable.

10.1.4 Fees for other services

Not applicable.

10.1.5 Refund policy

Not applicable.

10.2 Financial responsibility and limited liability

The Galileo Authentication Services (including OSNMA) is provided for testing purposes only. For further details please refer to [RD-12].

10.2.1 Insurance coverage

Not applicable.

10.2.2 Other assets

Not applicable.

10.2.3 Insurance or warranty coverage for end-entities

Not applicable.

10.3 Confidentiality of business information

For details please refer to [RD-12].

10.4 Privacy of personal information

The privacy of personal information is governed by to [RD-13] which includes details on processing of personal information.

10.4.1 Privacy Plan

For details please refer to [RD-13].

10.4.2 Information Treated as Private

For details please refer to [RD-13].

10.4.3 Information not Deemed Private

The content of digital certificates is public information.

10.4.4 Responsibility to Protect Private Information

For details please refer to [RD-13].

10.4.5 Notice and Consent to use Private Information

10.4.6 If needed, in the process of issuing a digital certificate Subjects / Beneficiaries are informed about the need to use their personal data for the service and the need for consent. Consent is required for providing the service. Disclosure Pursuant to Judicial or Administrative Process

EUSPA is relieved of liability for the disclosure of personal data, if any, in the following situations:

- disclosure of personal information in accordance with the applicable law;
- to the competent institutions and bodies, based on the public law obligations EUSPA has, in accordance with the legal provisions.

10.4.7 Other Information Disclosure Circumstances

Constitute exceptions to the obligation to keep the confidentiality of personal data, that exonerate EUSPA of liability, the following situations:

- disclosure of personal information to:
 - auditors in the audits to which EUSPA could be subject;
 - a third party who relies on the certification services provided by EUSPA.

10.5 Intellectual Property Rights

For details please refer to §Terms Of Use And Disclaimers.

10.6 Representations and warranties

The Galileo OSNMA is provided for testing purposes only and (with exception of section 10.6.1) no representations and warranties are provided. For further details please refer to [RD-12].

10.6.1 CA representations and warranties

EUSPA issues X509 v3 certificates.

10.6.2 RA representations and warranties

For details, please refer to section 1.3.2.

10.6.3 Subscriber representations and warranties

Not applicable.

10.6.4 Relying Party representations and warranties

Examples of Relying Parties' obligations and responsibilities include (without limitation):

- The successful performance of public key operations as a prerequisite for relying on a EUSPA Certificate.
- The validation of a EUSPA Certificate by using the (CRLs) or certificate validation services.
- The immediate termination of any reliance on a EUSPA Certificate if it has been revoked or when expired.

10.6.5 Representations and warranties of other participants

Not applicable.

10.7 Disclaimers of warranties

For details please refer to [RD-12].

10.8 Limitations of liability

For details please refer to [RD-12].

10.9 Indemnities

EUSPA assumes no financial responsibility for improperly used Certificates, CRLs, etc.

10.10 Term and termination

10.10.1 Term

This CPS and any amendments hereto shall become effective after publication in the repository and in accordance with §10.12.2 and shall remain in effect perpetually until terminated in accordance with this section.

10.10.2 Termination

The CPS remains in force until replaced by a new version.

10.10.3 Effect of termination and survival

The conditions and effects resulting from termination of this CPS will be communicated via the repositories upon termination. That communication will outline the provisions that may survive termination of this CPS and remain in force. The responsibilities for protecting confidential information and private personal information shall survive termination, and the terms and conditions for all existing Certificates shall remain valid for the remainder of the validity periods of such Certificates.

10.11 Individual notices and communications with participants

Participants shall use adequate methods to communicate with each other taking into account the classification of the information.

10.12 Amendments

10.12.1 Procedure for amendment

EUSPA is responsible for the approval and change of the present CPS. The CPS is reviewed when an update is needed.

Errors, updates, or suggested changes to this document shall be communicated as identified in the present CPS §1.5.4 Such communication will include a description of the change, a change justification, and contact information of the person requesting the change.

EUSPA shall accept, modify or reject the proposed change after completion of a review phase.

10.12.2 Notification mechanism and period

CP/CPS will be published in the repository.

10.12.3 Circumstances under which OID must be changed

Not applicable.

10.13 Dispute resolution provisions

All disputes associated with the present CPS will be settled before the French-speaking courts of Brussels.

10.14 Governing law

The present CPS shall be governed by European Union law, complemented, where necessary, by the law of Belgium.

10.15 Compliance with applicable law

The present CPS is subject to European Union law, complemented, where necessary, by the law of Belgium.

10.16 Miscellaneous provisions

Not applicable

10.17 Other provisions

Not applicable

11 LIST OF REFERENCES

ID	Title	Reference
[RD-1]	OSNMA IDD ICD (OSNMA Internet Data Distribution)	EUSPA-ENG-SE-ICD-A23855
[RD-2]	PKI CONOPS	EUSPA-GAL-SYST-TN-A23308
[RD-3]	RFC 3647 - Internet X.509 Public Key Infrastructure Certificate Policy and Certification Practices Framework	November 2003
[RD-4]	ETSI EN 319 411-1 - Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 1: General requirements	V1.3.1 (2021-05)
[RD-5]	ETSI EN 319 411-2 - Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates; Part 2: Requirements for trust service providers issuing EU qualified certificates	V2.4.1 (2021-11)
[RD-6]	RFC 5280 - Internet X.509 Public Key Infrastructure Certificate and Certificate Revocation List (CRL) Profile	May 2008
[RD-7]	Installation Operations Maintenance Manual	GAL-MAN-CSGN-PKI-ENG20001 Issue 1.3
[RD-8]	Local Secops	GAL-REQ-CSGN-PKI-SEC08001 Issue 1.3
[RD-9]	Business Continuity Plan	GAL-PL-CSGN-PKI-SEC04001 Issue 2.3
[RD-10]	Référentiel Général de Sécurité	Version 1.20 du 26 January 2010

ID	Title	Reference
[RD-11]	Commission Decision (EU, Euratom) 2015/444 on the security rules for protecting EU classified information	13 march 2015
[RD-12]	https://www.gsc-europa.eu/support-to-developers/osnma-public-observation-test-phase/register	
[RD-13]	https://www.gsc-europa.eu/sites/default/files/sites/all/files/GSC_Privacy_Statement.pdf	
[RD-14]	PROGRAMME SECURITY INSTRUCTION CONCERNING European GNSS Programmes	EU GNSS PSI v 4.1
[RD-15]	List of approved cryptographic products (LACP) for protecting EU Classified Information (EUCI)	5335/4/21 rev4



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