



Standard Audit Attestation for

and Telecommunication (FOITT)		
Reference: 250/2025		
	Zurich, 2025-01-24	
To whom it may concern,		
This is to confirm that KPMG AG has audited Fechnology, Systems and Telecommunication	d the CAs of the Federal Office of Information (FOITT) without critical findings.	
This present Audit Attestation Letter is rec 250/2025" covers multiple Root-CAs and cons	gistered under the unique identifier number sists of 12 pages.	
Kindly find here below the details accordingly.		
n case of any question, please contact:		
KPMG AG Certification Body SCESm 0071 Badenerstrasse 172 8004 Zurich, Switzerland Internet: www.kpmg.ch Phone: +41 58 249 30 48		
With best regards,		
Reto P. Grubenmann Director, Head of Certification Body	Dr. Philipp Wirth	

General audit information

Identification of the conformity assessment body (CAB) and assessment organization acting as ETSI auditor

- KPMG AG, certification body SCESm 0071, Badenerstrasse 172, 8004 Zurich, Switzerland, registered under CHE-106.084.881
- Accredited by Swiss Accreditation Service SAS under registration SCESm 0071 for the certification of trust services according to "ISO/IEC 17021-1:2015" and "ETSI EN 319 403-1 V2.3.1 (2020-06)".
- Insurance Carrier (BRG section 8.2):
 Allianz Suisse Versicherungs-Gesellschaft AG
- Third-party affiliate audit firms involved in the audit: None.

Identification and qualification of the audit team

- Number of team members: 3
- Academic qualifications of team members:
 - All team members have formal academic qualifications or professional training or extensive experience indicating general capability to carry out audits based on the knowledge given below and at least four years full time practical workplace experience in information technology, of which at least two years have been in a role or function relating to relevant trust services, public key infrastructure, information security including risk assessment/management, network security and physical security.
- Additional competences of team members:
- All team members have knowledge of
 - 1) audit principles, practices and techniques in the field of CA/TSP audits gained in a training course of at least five days;
 - 2) the issues related to various areas of trust services, public key infrastructure, information security including risk assessment/management, network security and physical security;
 - 3) the applicable standards, publicly available specifications and regulatory requirements for CA/TSPs and other relevant publicly available specifications including standards for IT product evaluation; and
 - 4) the Conformity Assessment Body's processes.
 - Furthermore, all team members have language skills appropriate for all organizational levels within the CA/TSP organization; note-taking, report-writing, presentation, and interviewing skills; and relevant personal attributes: objective, mature, discerning, analytical, persistent and realistic.
- Professional training of team members:
 - See "Additional competences of team members" above. Apart from that are all team members trained to demonstrate adequate competence in:
 - a) knowledge of the CA/TSP standards and other relevant publicly available specifications;
 - b) understanding functioning of trust services and information security including network security issues;
 - c) understanding of risk assessment and risk management from the business perspective;
 - d) technical knowledge of the activity to be audited;
 - e) general knowledge of regulatory requirements relevant to TSPs; and
 - f) knowledge of security policies and controls.
- Types of professional experience and practical audit experience:

The CAB ensures, that its personnel performing audits maintains competence on the basis of appropriate education, training or experience; that all relevant experience is current and prior to assuming responsibility for performing as an auditor, the candidate has gained experience in the entire process of CA/TSP auditing. This experience shall have been gained by participating under supervision of lead auditors in a minimum of four TSP audits for a total of at least 20 days, including documentation review, on-site audit and audit reporting.

- Additional qualification and experience Lead Auditor:
 - On top of what is required for team members (see above), the Lead Auditor
 - a) has acted as auditor in at least three complete TSP audits;
 - b) has adequate knowledge and attributes to manage the audit process; and
 - c) has the competence to communicate effectively, both orally and in writing.
- Special skills or qualifications employed throughout audit: None.
- Special Credentials, Designations, or Certifications:
 All members are qualified and registered assessors within the accredited CAB.
- Auditors code of conduct incl. independence statement:
 Code of Conduct as of Annex A, ETSI EN 319 403 or ETSI EN 319 403-1 respectively.

Identification and qualification of the reviewer performing audit quality management

- Number of Reviewers/Audit Quality Managers involved independent from the audit team: 2
- The reviewer fulfils the requirements as described for the Audit Team Members above and has acted as an auditor in at least three complete CA/TSP audits.

Identification of the CA / Trust Service	Federal Office of Information Technology, Sytems and Telecommunication (FOITT), Campus Meielen, Eichenweg 3,
Provider (TSP):	3003 Bern, Switzerland registered under CHE-221.032.573

Type of audit:	☐ Point in time audit ☐ Period of time, full audit
Audit period covered for all policies:	2023-11-01 to 2024-10-31
Point in time date:	none, as audit was a period of time audit
Audit dates:	2024-06-11 to 2024-11-26 (on site)
Audit location:	Federal Office of Information Technology, Sytems and Telecommunication (FOITT), Campus Meielen, Eichenweg 3, 3003 Bern, Switzerland

Root 1: Swiss Government Root CA I

Standards considered:	 European Standards: ETSI EN 319 401 V2.3.1 (2021-05) ETSI EN 319 411-1 V1.4.1 (2023-10) ETSI EN 319 412-1 V1.5.1 (2023-09) ETSI EN 319 412-2 V2.3.1 (2023-09) ETSI EN 319 412-3 V1.3.1 (2023-09)
	For the Trust Service Provider Conformity Assessment: ISO/IEC 17021-1:2015 ETSI EN 319 403 V2.3.1 (2020-06)

The audit was based on the following policy and practice statement documents of the CA / TSP:

 Certificate Policy and Certification Practice Statement of the Swiss Government Root CA I, version 3.5, as of 2023-03-23

In the following areas, non-conformities have been identified throughout the audit:

Findings with regard to ETSI EN 319 401:

6.2 Terms and Conditions

Not all the necessary information is described in the terms of use. [REQ-6.2-02]

6.3 Facility, management, and operational controls

The validity period of an identification, in which certificates may be issued is not documented. [REQ-6.3.1-00D, REQ-6.3.1-00E]

7.3 Asset management

The asset management documentation has not been finalized and formally approved at the time of the audit, and an information asset register does not yet exist. [REQ-7.3-01, REQ-7.3.1-02]

7.6 Physical and environmental security

The racks are in a server room of the FOITT and shared with other departments. The racks are physically locked, but not monitored. As an interim measure, the racks are to be connected to the alarm system and electronically secured, but this has not yet been fully implemented. [REQ-7.6-03, REQ-7.6-04, REQ-7.6-05]

7.7 Operation security

An Anti-Malware-System is not installed on Linux systems. [REQ-7.7-05]

7.8 Network security

The network is provided as a service by FOITT and is not managed by the SG PKI department directly and applicable firewall rules are not yet sufficiently reviewed by members of a trusted role. [REQ-7.8-01, REQ-7.8-03, REQ-7.8-06]

7.9 Incident management

A project for planning and conducting penetration tests is currently ongoing, but no penetration tests with relevant scope have been carried out in the current audit period. [REQ-7.8-14, REQ-7.8-15]

The monitoring concept has not yet been finalized and formally approved, and system and application logs are not yet archived. [REQ-7.9-01, REQ-7.9-02, REQ-7.9-04, REQ-7.9-09, REQ-7.10-03, REQ-7.10-08]

7.10 Collection of evidence

It is not formally documented that critical vulnerabilities are addressed within 48 hours. [REQ-7.9-10]

Findings with regard to ETSI EN 319 411-1:

6.3 Certificate Life-Cycle operational requirements

As part of the Period of Time audit, the auditors found that certain suffixes were used multiple times (e.g., 9ZGDC in the Canton of Zurich). This can potentially lead to the Distinguished Name not being unique when first and last names are the same. [OVR-6.3.3-10]

It is not explicitly documented that the user must notify the TSP if the private key or control over it is lost or stolen. [OVR-6.3.5]

Technical requirements for the key archive server (KAS) are not documented. [OVR-6.3.12-01]

6.4 Facility, management, and operational controls

The auditors could not fully determine how registration is consistently archived and in particular deleted after the respective retention period of 11 or 14 years. At the moment archival of registration data is within the responsibility of the LRA offices and a central system for archiving registration data is not yet in place. [OVR-6.4.5-04, OVR-6.4.5-04A]

No fire extinguishers were found in close proximity to the server racks. [OVR-6.4.7-07]

6.5 Technical security controls

The process for destroying cryptographic keys and devices is only available as a draft version. [OVR-6.5.2-13]

An intrusion detection system specifically for the PKI server infrastructure is not established. Since the TLS termination is performed by the application servers, the established IDS/IPS solutions on network level are not effective. [OVR-6.5.5-07]

6.9 Other provisions

It is not formally documented how certificates used for testing purposes are not used outside the scope of testing. [OVR-6.9.2-01C]

7.1 Certificate policy managements

During the document review, it was found that some references in the CP/CPS are not up to date or links are no longer available. For example, in Chapter 1.2.5, the link to the Swiss Accreditation Service SAS. [OVR-7.1-06]

For all non-conformities, remediation has been scheduled within three months after the onsite audit at latest and will be covered by a corresponding audit.

To the best of our knowledge, no incidents have occurred within this Root-CA's hierarchy during the audited period.

The remediation measures taken by Federal Office of Information Technology, Systems and Telecommunication (FOITT) as described on Bugzilla (see link above) have been checked by the auditors and properly addressed the incident.

Distinguished Name	SHA-256 fingerprint	Applied policy
Complete subject DN:	SHA-256 fingerprint of the certificate:	ETSI EN policy that this Root has been
		assessed against:
CN=Swiss Government Root CA I,	6EC6614E9A8EFD47D6318FFDFD0BF65B493A141F77C38D0B319BE1BBBC053DD2	
OU=Services, O=The Federal Authorities		ETSI EN 319 411-1 V1.4.1,
of the Swiss Confederation, C=CH		NCP+

Table 1: Root-CA 1 in scope of the audit

The TSP named the Sub-CAs that have been issued by the aforementioned Root-CA, that are listed in the following table and that have been covered in this audit.

Distinguished Name	SHA-256 fingerprint	Applied policy
Complete subject DN:	SHA-256 fingerprint of the certificate:	ETSI EN policy that this Root has been assessed against:
CN = Swiss Government Enhanced CA	7B8ABCDCBCBC696694D9C4993551E53C662A5EA2F12788F68E8F33C356847A66	_
01, OU = Certification Authorities, OU =		ETSI EN 319 411-1 V1.4.1,
Services, O = Admin, C = CH		NCP+
Complete subject DN:	SHA-256 fingerprint of the certificate:	ETSI EN policy that this Root has been
		assessed against:
CN = Swiss Government Enhanced CA	D506A0E9916076E6AFC8476DF9387FD07402D57CA4088873C99A41485BAEE944	_
02, OU = Certification Authorities, OU =		ETSI EN 319 411-1 V1.4.1,
Services, O = Admin, C = CH		NCP+

Table 2: Sub-CA's issued by the Root-CA 1 or its Sub-CA's in scope of the audit

Root 2: Swiss Government Root CA IV

Standards considered:	European Standards: • ETSI EN 319 401 V2.3.1 (2021-05) • ETSI EN 319 411-1 V1.4.1 (2023-10) • ETSI EN 319 411-2 V2.5.1 (2023-10) • ETSI EN 319 412-1 V1.5.1 (2023-09) • ETSI EN 319 412-2 V2.3.1 (2023-09) • ETSI EN 319 412-3 V1.3.1 (2023-09) • ETSI EN 319 412-5 V2.4.1 (2023-09)
	For the Trust Service Provider Conformity Assessment: ISO/IEC 17021-1:2015 ETSI EN 319 403-1 V2.3.1 (2020-06)

The audit was based on the following policy and practice statement documents of the CA / TSP:

 Certificate Policy and Certification Practice Statement of the Swiss Government Root CA IV, version 1.40, as of 2023-03-23

In the following areas, non-conformities have been identified throughout the audit:

Findings with regard to ETSI EN 319 401:

6.2 Terms and Conditions

Not all the necessary information is described in the terms of use. [REQ-6.2-02]

7.3 Asset management

The asset management documentation has not been finalized and formally approved at the time of the audit, and an information asset register does not yet exist. [REQ-7.3-01, REQ-7.3.1-02]

7.6 Physical and environmental security

The racks are in a server room of the FOITT and shared with other departments. The racks are physically locked, but not monitored. As an interim measure, the racks are to be connected to the alarm system and electronically secured, but this has not yet been fully implemented. [REQ-7.6-03, REQ-7.6-04, REQ-7.6-05]

7.7 Operation security

An Anti-Malware-System is not installed on Linux systems. [REQ-7.7-05]

7.8 Network security

The network is provided as a service by FOITT and is not managed by the SG PKI department directly and applicable firewall rules are not yet sufficiently reviewed by members of a trusted role. [REQ-7.8-01, REQ-7.8-03, REQ-7.8-06]

7.9 Incident management

A project for planning and conducting penetration tests is currently ongoing, but no penetration tests with relevant scope have been carried out in the current audit period. [REQ-7.8-14, REQ-7.8-15]

The monitoring concept has not yet been finalized and formally approved, and system and application logs are not yet archived. [REQ-7.9-01, REQ-7.9-02, REQ-7.9-04, REQ-7.9-09, REQ-7.10-03, REQ-7.10-08]

7.10 Collection of evidence

It is not formally documented that critical vulnerabilities are addressed within 48 hours. [REQ-7.9-10]

Findings with regard to ETSI EN 319 411-1:

6.3 Certificate Life-Cycle operational requirements

During a walkthrough the auditors noticed that the LRAO advised the applicant to enter the PIN and PUK using Notepad and to copy-paste them to simplify the registration procedure. Additionally, the email with the registration documents and passport copy was not deleted from the bin and could potentially be restored. [OVR-6.3.3-09A]

6.4 Facility, management, and operational controls

The auditors could not fully determine how registration is consistently archived and in particular deleted after the respective retention period of 11 or 14 years. At the moment archival of registration data is within the responsibility of the LRA offices and a central system for archiving registration data is not yet in place. [OVR-6.4.5-04, OVR-6.4.5-04A]

No fire extinguishers were found in close proximity to the server racks. [OVR-6.4.7-07]

6.5 Technical security controls

The protocol of the key ceremony for the Regulated CA03, although inspected by the auditors during an on-site visit was not made available to the auditors. [OVR-6.5.1-03, OVR-6.5.1-15]

There is no formal documentation of how cryptographic devices (e.g., HSMs, smart cards) must be stored. [OVR-6.5.2-11, OVR-6.5.2-12]

The process for destroying cryptographic keys and devices is only available as a draft version. [OVR-6.5.2-13]

An intrusion detection system specifically for the PKI server infrastructure is not established. Since the TLS termination is performed by the application servers, the established IDS/IPS solutions on network level are not effective. [OVR-6.5.5-07]

6.9 Other provisions

The test certificates for Class A from the Regulated CA 03 have not yet been published on the website. [OVR-6.9.2-01]

It is not formally documented how certificates used for testing purposes are not used outside the scope of testing. [OVR-6.9.2-01C]

7.1 Certificate policy managements

During the document review, it was found that some references in the CP/CPS are not up to date or links are no longer available. For example, in Chapter 1.2.5, the link to the Swiss Accreditation Service SAS. [OVR-7.1-06]

Findings with regard to ETSI EN 319 411-2:

6.5 Technical security controls

There is no formal documentation in the CP/CPS that the smart card certification is regularly checked. [OVR-6.5.1-07A, OVR-6.5.1-07B]

Findings with regard to ETSI EN 319 412-5:

4.2 QC-Statements

The Policy and Layout document, defining the certificate profiles, does not formally list id-etsi-qcs-QcCompliance (0.4.0.1862.1.1) and id-etsi-qcs-QcCClegislation (0.4.0.1862.1.7) within the profiles for class A certificates. [QCS-4.2.1]

For all non-conformities, remediation has been scheduled within three months after the onsite audit at latest and will be covered by a corresponding audit.

To the best of our knowledge, no incidents have occurred within this Root-CA's hierarchy during the audited period.

The remediation measures taken by Federal Office of Information Technology, Systems and Telecommunication (FOITT) as described on Bugzilla (see link above) have been checked by the auditors and Select appropriate addressed the incident.

Distinguished Name	SHA-256 fingerprint	Applied policy
Complete subject DN:	SHA-256 fingerprint of the certificate:	ETSI EN policy that this Root has been assessed against:
CN=Swiss Government Root CA IV, OU= Swiss Government PKI, O= Bundesamt fuer Informatik und Telekommunikation (BIT), C=CH	5A0BAF5588E73FCC336C9039B85981189296670EFA994520FF008B9ACF4D2602	ETSI EN 319 411-2 V2.5.1 (2023-10), QCP-n-qscd ETSI EN 319 411-2 V2.5.1 (2023-10), QCP-I-qscd

Table 3: Root-CA 2 in scope of the audit

The TSP named the Sub-CAs that have been issued by the aforementioned Root-CA, that are listed in the following table and that have been covered in this audit.

Distinguished Name	SHA-256 fingerprint	Applied policy
Complete subject DN:	SHA-256 fingerprint of the certificate:	ETSI EN policy that this Root has been assessed against:
CN=Swiss Government Regulated CA 02,	8D494A349B6ED36DCCABCCE2767C8A6D527E290DE0797DFF83D58F43C2D191E9	
OU=Swiss Government PKI,		ETSI EN 319 411-2 V2.5.1 (2023-10),
O=Bundesamt fuer Informatik und		QCP-n-qscd
Telekommunikation (BIT),		ETSI EN 319 411-2 V2.5.1 (2023-10),
OID.2.5.4.97=VATCH-CHE-221.032.573, C=CH		QCP-I-qscd
Complete subject DN:	SHA-256 fingerprint of the certificate:	ETSI EN policy that this Root has been assessed against:
CN=Swiss Government Regulated CA 03,	E1A4A65825451E14E12D1A3B640D76DE2802F75491008FAB82E6D678AF5E84DA	assessed against.
OU=Swiss Government PKI.	2 17 (17 (00020 10 12 1 12 12 17 (000 10 17 00 12 00 17 10 10 10 10 17 No 22 00 0 17 No 22 0 15 N	ETSI EN 319 411-2 V2.5.1 (2023-10),
O=Bundesamt fuer Informatik und		QCP-n-qscd
Telekommunikation (BIT),		ETSI EN 319 411-2 V2.5.1 (2023-10),
OID.2.5.4.97=NTRCH-CHE-221.032.573,		QCP-I-qscd
C=CH		

Table 4: Sub-CA's issued by the Root-CA 2 or its Sub-CA's in scope of the audit

Modifications record

Version	Issuing Date	Changes
Version 1	2025-01-24	Initial attestation

End of the audit attestation letter.