

Standard Audit Attestation for

DFN Verein e.V.

Reference: AA2023112301-Standard

Essen, 2023-11-23

To whom it may concern,

This is to confirm that “TÜV Informationstechnik GmbH” has audited the CAs of “DFN Verein e.V.” without critical findings.

This present Audit Attestation Letter is registered under the unique identifier number “**AA2023112301-Standard**” covers a single Root-CA and consists of 7 pages.

Kindly find here-below the details accordingly.

In case of any question, please contact:

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With best regards,

Matthias Wiedenhorst
Reviewer

Dr. Silke Keller
Lead Auditor

This attestation is based on the template version 3.2 as of 2023-08-24, that was approved for use by ACAB-c.

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Management Board
Dirk Kretzschmar

General audit information

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

- TÜV Informationstechnik GmbH¹, TÜV NORD GROUP, Am TÜV 1, 45307 Essen, Germany, registered under HRB 11687, Amtsgericht Essen, Germany
- Accredited by DAkkS under registration D-ZE-12022-01-01² for the certification of trust services according to “DIN EN ISO/IEC 17065:2013” and “ETSI EN 319 403 V2.2.2 (2015-08)”.
- Insurance Carrier (BRG section 8.2):
HDI Global SE
- Third-party affiliate audit firms involved in the audit:
None.

Identification and qualification of the audit team

- Number of team members: 1 Lead Auditor, 1 Auditor, 1 Trainee Auditor
- 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;

¹ In the following termed shortly „TÜVIT“

² <https://www.dakks.de/en/accredited-body.html?id=D-ZE-12022-01-01>

- 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 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: 1 Reviewer
- 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 Provider (TSP):

DFN-Verein e. V., Alexanderplatz 1, 10178 Berlin, Germany,
registered under „VR 7729 B” at “Amtsgerichts Berlin-Charlottenburg”, Berlin, Germany

Type of audit:

- Point in time audit
- Period of time, after x month of CA operation
- Period of time, full audit

Audit period covered for all policies:

2022-09-02 to 2023-09-01

Point in time date:

none, as audit was a period of time audit

Audit dates:

2023-10-11 to 2023-10-12 (on-site)

Audit location:

20097 Hamburg, Germany

Root 1: T-TeleSec GlobalRoot Class 2

Standards considered

European Standards:

- ETSI EN 319 411-1 V1.3.1 (2021-05)
- ETSI EN 319 401 V2.3.1 (2021-05)

CA Browser Forum Requirements:

- Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, version 2.0.1

For the Trust Service Provider Conformity Assessment:

- ETSI EN 319 403-1 V2.3.1 (2020-06)
- ETSI TS 119 403-2 V1.2.4 (2020-11)

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

- Certification Policy of the DFN-PKI – Security Level “Global” –, version 13 as of 2023-09-29, DFN-Verein
- Certification Practice Statement of the DFN-PKI – Security Level “Global” –, DFN-Verein, Version 13 as of 2023-09-29, DFN-Verein

No non-conformities have been identified during the audit.

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

Distinguished Name	SHA-256 fingerprint	Applied policy
C=DE, O=T-Systems Enterprise Services GmbH, OU=T-Systems Trust Center, CN=T-TeleSec GlobalRoot Class 2	91E2F5788D5810EBA7BA58737DE1548A8ECACD014598BC0B143E041B17052552	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP

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

The audit of the Root CA itself is not object of this audit attestation. The Root CA was already successfully audited which is confirmed in the “Audit Attestation for Deutsche Telekom Security GmbH - Reference AA2023062101” as of 2023-06-21.

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
C=DE, O=Verein zur Foerderung eines Deutschen Forschungsnetzes e. V., OU=DFN-PKI, CN=DFN-Verein Certification Authority 2	F660B0C256481CB2BFC67661C1EA8FEE395B7141BCAC36C36E04D08CD9E1582	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, ST=Berlin, L=Berlin, O=Deutscher Bundestag, CN=Deutscher Bundestag CA - G02	4C9E0538F985690DE9D5CE1C38F16C24B4C39A1710C0881CDB06E2AFDB757B4D	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, O=Verein zur Foerderung eines Deutschen Forschungsnetzes e. V., OU=DFN-PKI, CN=DFN-Verein Global Issuing CA	1257AAC2F4EEAC6CA4942C2C83F0B67B41A3B47120C4D53429929513ACAD468C	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, ST=Bayern, L=Muenchen, O=Fraunhofer, OU=Fraunhofer Corporate PKI, CN=Fraunhofer Service CA - G02	ACBFAEBDCBCE1AC84C98CF24140B6061A97318E926215409DC0CF4C7BE506620	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP

C=DE, ST=Bayern, L=Muenchen, O=Fraunhofer, OU=Fraunhofer Corporate PKI, CN=Fraunhofer User CA - G02	562CBBCBDEBEEB3CB55946BDCE248CA4A623D2BA6E77B63B754D3A571F67DFA2	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, ST=Baden-Wuerttemberg, L=Karlsruhe, O=Karlsruhe Institute of Technology, CN=KIT-CA	01B9F3D08E31A9E8E1600D118C2ABFD856875EA60827020469865BA242EEBE1C	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, ST=Bayern, L=Muenchen, O=Max-Planck-Gesellschaft, CN=MPG CA - G02	FC2245BE59DC6461D4119C3A06EDBEE4D288556BD88C479E30ED5F3E81616469	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, O=Ruhr-Universitaet Bochum, CN=RUB-Chipcard CA G2	709BE4EAB0A3721236F28B2AB80F76FDA251330B3282F515EA5E0B6C79AE6729	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, O=Technische Universitaet Dortmund, CN=TU Dortmund Chipcard CA 2	E121C1694DA737C17B86448AEDC614EEBD7946A7B4B91FB30025B636070239EA	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, ST=Sachsen, L=Dresden, O=Technische Universitaet Dresden, CN=TU Dresden CA	E1B295E1465C24E0951EC0B90FBF7DA30B678E9E9CE4417DFFE9F34042DF4386	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP
C=DE, O=Technische Universitaet Ilmenau, CN=TU Ilmenau CA G2	1A5CCD714ABD7C7AF52A0FA946BC9C8F8696BCBF227D81339430E5D3394ECC97	ETSI EN 319 411-1 V.1.3.1, NCP ETSI EN 319 411-1 V.1.3.1, OVCP

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

Modifications record

Version	Issuing Date	Changes
Version 1	2023-11-23	Initial attestation

End of the audit attestation letter.