

The certification body of TÜV Informationstechnik GmbH
hereby awards this certificate to the company

TC TrustCenter GmbH
Sonninstraße 24 - 28
20097 Hamburg, Germany

to confirm that its certification service

TC TrustCenter Class 2 CA and
TC TrustCenter Class 3 CA

fulfils all requirements defined in the technical specification

ETSI TS 102 042 V2.4.1 (2013-02),
policies LCP and OVCP.

The appendix to the certificate is part of the certificate and
consists of 8 pages.

The certificate is valid only in conjunction with the respective
evaluation report until 2015-02-28.



Voluntary Validation
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Certificate-Registration-No.:
TUVIT-CA6721.14

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Essen, 2014-02-14

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Head of Certification Body

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Certificate

Certification System

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The certification body of TÜV Informationstechnik GmbH is accredited by “DAkkS Deutsche Akkreditierungsstelle GmbH” according to DIN EN 45011 for the scope IT security product certification. The certification body performs its certification on the basis of the following accredited product certification system:

- German document: “Zertifizierungsschema für Zertifikate des akkreditierten Bereichs der Zertifizierungsstelle der TÜV Informationstechnik GmbH”, version 1.2 as of 2011-01-28, TÜV Informationstechnik GmbH

Evaluation Report

- “Evaluation Report – Surveillance On-Site Inspection – ETSI TS 102 042, TUVIT-CA6721Ü2, TC TrustCenter Class 2 CA and TC TrustCenter Class 3 CA, Version 1.1, 13.02.2014, TÜV Informationstechnik GmbH

Evaluation Requirements

The evaluation requirements are defined in the technical specification ETSI TS 102 042:

- ETSI TS 102 042 V2.4.1 (2013-02): “Electronic Signatures and Infrastructures (ESI); Policy Requirements for certification authorities issuing public key certificates”, Version 2.4.1, 2013-02, European Telecommunications Standards Institute

The applicable ETSI Certificate Policies are:

- LCP: Lightweight Certificate Policy
- OVCP: Organizational Validation Certificate Policy

Evaluation Target

The target of evaluation is characterized by the certificate information of the inspected certification service:

1. TC TrustCenter Class 2 CA:

Root CA (Issuer of CA certificates): E = certificate@trustcenter.de, Certificate Serial Number: 00 92 91 00 01 00 02 ff 35 aa 3a 91 31 25 8c	
Name of CA (as in certificate)	serial number of certificate
CN = TC TrustCenter Class 2 L1 CA V	29 1f 00 01 00 02 87 6d 1c b2 d2 38 b3 48
CN = TC TrustCenter Class 2 L1 CA VII	2e 1a 00 01 00 02 5d 6f d5 19 cc 1e ed 3f

Root CA (Issuer of CA certificates): CN = TC TrustCenter Class 2 CA II, Certificate Serial Number: 2e 6a 00 01 00 02 1f d7 52 21 2c 11 5c 3b	
Name of CA (as in certificate)	serial number of certificate
CN = TC TrustCenter Class 2-II L1 CA IV	0f 9b 00 01 00 02 1c 11 9b 52 27 62 1e 76
CN = TC TrustCenter Class 2-II L1 CA VIII	41 fb 00 01 00 02 5b b7 c9 08 ae ad 8f 5f
CN = TC TrustCenter Class 2 L1 CA XI	1c 50 00 01 00 02 85 43 59 f1 f3 2e cd 26
CN = TC TrustCenter Class 2 L1 CA XII	00 b4 db 00 01 00 02 78 b9 0d cd 2a 63 53 d8
CN = TC TrustCenter Class 2 L1 CA XIV	00 b6 8f 00 01 00 02 10 b4 3a e7 d4 eb 28 8c

2. TC TrustCenter Class 3 CA:



Root CA (Issuer of CA certificates): E = certificate@trustcenter.de, Certificate Serial Number: 00 92 91 00 01 00 02 ff 35 aa 3a 91 31 25 8c	
Name of CA (as in certificate)	serial number of certificate
CN = TC TrustCenter Class 3 L1 CA V	56 74 00 01 00 02 24 25 c2 a7 ae 24 25 9b
CN = TC TrustCenter Class 3 L1 CA VII	00 9e 9c 00 01 00 02 70 5c aa 18 74 79 9f 46

Root CA (Issuer of CA certificate): CN = TC TrustCenter Class 3 CA II, Certificate Serial Number: 4a 47 00 01 00 02 e5 a0 5d d6 3f 00 51 bf	
Name of CA (as in certificate)	serial number of certificate
CN = TC TrustCenter Class 3-II L1 CA IV	0a 29 00 01 00 02 45 79 c0 ab a1 f8 eb a5

Root CA (Issuer of CA certificate): CN = TC TrustCenter Universal CA I, Certificate Serial Number: 1d a2 00 01 00 02 ec b7 60 80 78 8d b6 06	
Name of CA (as in certificate)	serial number of certificate
CN = TC TrustCenter Class 3 L1 CA IX	3d 43 00 01 00 02 5a f0 54 32 d1 a2 0b 3a

together with the Certification Practice Statement (CPS) of the operator:

- “TC TrustCenter GmbH Certification Practice Statement”, version 1.9.7 as of 2014-01-14, TC TrustCenter GmbH

Evaluation Result

- The target of evaluation fulfills all applicable evaluation requirements.
- The certification requirements defined in the certification system are fulfilled.

Summary of the Evaluation Requirements

The ETSI specification ETSI TS 102 042 contains the following requirements:

1 Certification Practice Statement (CPS)

The CA shall have a statement of the practices and procedures.

2 Public key infrastructure - Key management life cycle

The CA shall ensure that CA keys are generated in controlled circumstances.

The CA shall ensure that CA private keys remain confidential and maintain their integrity.

The CA shall ensure that the integrity and authenticity of the CA signature verification (public) key and any associated parameters are maintained during its distribution to relying parties.

If the subject's key is to be used for electronic signatures with the meaning of Directive 1999/93/EC, then the CA shall not hold the subject's private signing keys in a way which provides a backup decryption capability (commonly called key escrow).

If a copy of the subject's key is kept by the CA then the CA shall ensure that the private key is kept secret and only made available to appropriately authorized persons.

The CA shall ensure that CA private signing keys are not used inappropriately.

The CA shall ensure that CA private signing keys are not used beyond the end of their life cycle.

In case of NCP, the CA shall ensure the security of cryptographic device throughout its lifecycle.

The CA shall ensure that any subject keys, that it generates, are generated securely and the secrecy of the subject's private key is assured.

In case of NCP+, the CA shall ensure that if it issues to the subject secure user device this is carried out securely.

In case of an EV code signing certificate instructions of appendix H, item 10 of the document "Guidelines for the Issuance and Management of Extended Validation Certificates", version 1.3, CA/Browser Forum, shall be followed.

3 Public key infrastructure - Certificate Management life cycle

The CA shall ensure that evidence of subscriber's and subject's identification and accuracy of their names and associated data are either properly examined as part of the defined service or, where applicable, concluded through examination of attestations from appropriate and authorized sources, and that certificate requests are accurate, authorized and complete according to the collected evidence or attestation.

The CA shall ensure that requests for certificates issued to a subject who has previously been registered with the same CA are complete, accurate and duly authorized. This includes certificate renewals, rekey following revocation or prior to expiration, or update due to change to the subject's attributes.

The CA shall ensure that it issues certificates securely to maintain their authenticity.

The CA shall ensure that the terms and conditions are made available to subscribers and relying parties.

The CA shall ensure that certificates are made available as necessary to subscribers, subjects and relying parties.

The CA shall ensure that certificates are revoked in a timely manner based on authorized and validated certificate revocation requests.

4 CA management and operation

Requirements from document "Network and Certificate System Security Requirements", CA/Browser Forum, apply.

The CA shall ensure that administrative and management procedures are applied which are adequate and correspond to recognized standards.

The CA shall ensure that its assets and information receive an appropriate level of protection.

The CA shall ensure that personnel and hiring practices enhance and support the trustworthiness of the CA's operations.

The CA shall ensure that physical access to critical services is controlled and physical risks to its assets minimized.

The CA shall ensure that the CA systems are secure and correctly operated, with minimal risk of failure.

The CA shall ensure that CA system access is limited to properly authorized individuals.

The CA shall use trustworthy systems and products that are protected against modification.

The CA shall ensure in the event of a disaster, including compromise of the CA's private signing key, operations are restored as soon as possible.

The CA shall ensure that potential disruptions to subscribers and relying parties are minimized as a result of the cessation of the CA's services, and ensure continued maintenance of records required to provide evidence of certification for the purposes of legal proceedings.

The CA shall ensure compliance with legal requirements.

The CA shall ensure that all relevant information concerning a certificate is recorded for an appropriate period of time, in particular for the purpose of providing evidence of certification for the purposes of legal proceedings.

5 Organizational

The CA shall ensure that its organization is reliable.

6 Additional requirements

The CA shall provide different options to allow third parties to check and test their certificates.

In case of PTC-BR, requirements from appendix C of document "Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates", CA/Browser Forum, apply.



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The CA shall disclose all cross certificates that identify the CA as the subject.

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In case of PTC-BR, requirements from section 8.4 of document “Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates”, CA/Browser Forum, apply.