



Audit Attestation for

T-Systems International GmbH

Reference: AA2019072606

Essen, 26.07.2019

To whom it may concern,

This is to confirm that "TÜV Informationstechnik GmbH" has successfully audited the CAs of the "T-Systems International GmbH" without critical findings.

This present Audit Attestation Letter is registered under the unique identifier number "AA2019072606" and consist of 8 pages.

Kindly find here-below the details accordingly.

In case of any question, please contact:

TÜV Informationstechnik GmbH TÜV NORD GROUP Certification Body Langemarckstr. 20 45141 Essen, Germany

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With best regards,

Dr. Anja Wiedemann Matthias Wiedenhorst
Reviewer Leadauditor

Identification of the conformity assessment body (CAB):	TÜV Informationstechnik GmbH ¹ , Langemarckstraße 20, 45141 Essen, Germany registered under HRB 11687, Amtsgericht Essen, Germany Accredited by DAkkS under registration D-ZE-12022-01 ² for the certification of trust services according to "DIN EN ISO/IEC 17065:2013" and "ETSI EN 319 403 V2.2.2 (2015-08)".
Identification of the trust service provider (TSP):	T-Systems International GmbH, Untere Industriestraße 20, 57250 Netphen, Germany, registered under "HRB 55933" at Amtsgericht Frankfurt am Main, Germany.

Identification of the audited Root-CA:	Deutsche Telekom Root CA 2		
	Distinguished Name	CN = Deutsche Telekom Root CA 2 OU = T-TeleSec Trust Center O = Deutsche Telekom AG C = DE	
	SHA-256 fingerprint	B6 19 1A 50 D0 C3 97 7F 7D A9 9B CD AA C8 6A 22 7D AE B9 67 9E C7 0B A3 B0 C9 D9 22 71 C1 70 D3	
	Certificate Serial number	26	
	Applied policy	NCP+, NCP & OVCP OF ETSI EN 319 411-1	

¹ In the following termed shortly "TÜViT"

² http://www.dakks.de/en/content/accredited-bodies-dakks?Regnr=D-ZE-12022-01-01

The audit was performed as full period of time audit at the TSP's locations in Netphen, Germany. It took place from 2019-04-08 until 2019-04-12 and 2019-05-08 and 2019-05-09 and covered the period from May 18th, 2018 until May 9th 2019. The audit was performed according to the European Standards "ETSI EN 319 411-2, V2.2.2 (2018-04)", "ETSI EN 319 411-1, V1.2.2 (2018-04)" and "ETSI EN 319 401, V2.2.1 (2018-04)" as well as CA Browser Forum Requirements "EV SSL Certificate Guidelines, version 1.6.8" and "Baseline Requirements, version 1.6.4" considering the requirements of the "ETSI EN 319 403, V2.2.2 (2015-08)" for the Trust Service Provider Conformity Assessment.

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

- 1. Public Key Service, Certificate Practice Statement, Version 3.5 as of 2018-08-01, T-Systems International GmbH
- 2. Trust Center Solutions, TeleSec Shared-Business-CA, Certificate Policy (CP) and Certification Practice Statement (CPS), Version 6.00 as of 2018-10-11, T-Systems International GmbH
- 3. CP/CPS TeleSec ServerPass, Zertifizierungsrichtlinie und Erklärung zum Zertifizierungsbetrieb (CP/CPS), Version 10.00 as of 2018-10-16, T-Systems International GmbH

The Sub-CAs that have been issued by the aforementioned Root-CA and that have been covered by this audit are listed in table 1 below. The TSP assured that all non-revoked Sub-CA's that are technically capable of issuing server or email certificates and that have been issued by this Root-CA are in the scope of regular audits.

The TSP demonstrated that the CA "Shared Business CA 3" is deactivated, only used to issue revocation status information and that it had not issued any certificates during the audit period.

Pending major non-conformities have been closed, if any.

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

Findings with regard to ETSI EN 319 401:

7.9 Incident management

Documentation and implementation of the processes regarding logging functions shall be improved. [ETSI EN 319 401, REQ-7.9-04]

Findings with regard to ETSI EN 319 411-1:

6.2 Identification and authentication

Documentation and implementation of the processes regarding the revocation of a certificate and the change of the status information of that certificate and issuance of CRLs shall be improved. [ETSI EN 319 411-1, REV-6.2.4-04, CSS-6.3.9-05]

6.5.2 Private key protection and cryptographic module engineering controls

Documentation and implementation of processes regarding HSM management shall be improved. [ETSI EN 319 411-1, GEN-6.5.2-06]

All minor non-conformities are scheduled for remediation within three months after the onsite audit and will be covered by a corresponding audit.

This Audit Attestation also covers the following incidents as documented under

- Bug 1391074, T-Systems: Non-BR-Compliant Certificate Issuance https://bugzilla.mozilla.org/show_bug.cgi?id=1391074
- Bug 1530718, T-Systems: Invalid SAN Entries
 https://bugzilla.mozilla.org/show-bug.cgi?id=1530718
- Bug 1536082, T-Systems: Insufficient serial number entropy https://bugzilla.mozilla.org/show-bug.cgi?id=1536082

The remediation measures taken by T-Systems as described on Bugzilla (see link above) have been accompanied by the auditors and showed to properly address the incident. The long-term effectiveness of the measures will be rechecked at the next regular audit.

This template (version 2 as of 2018-03-05) was approved for use by ACAB-c. It may only be used to without modification.

Identification of the Sub-CA	Distinguished Name	SHA-256 fingerprint	Certificate Serial number OID	Applied policy	Service	EKU	Validy
T-TeleSec GlobalRoot Class 2	CN = T-TeleSec GlobalRoot Class 2 OU = T-Systems Trust Center O = T-Systems Enterprise Services GmbH C = DE	09 BC 51 51 7A 97 F6 63 39 E2 4D 77 E9 CA BE 4E 46 69 5C 2E C1 B4 2A 23 9E 1E FB A7 B7 2F 32 8F	11 9C 14 8C C1 AC 0E 95	policy NCP & OVCP of ETSI EN 319 411-1	Cross certificate	Not defined	25 Apr 2016 to 9 July 2019
TeleSec PKS CA 7:PN	CN = TeleSec PKS CA 7:PN OU = Trust Center Deutsche Telekom O = T-Systems International GmbH C = DE	10 C6 91 8C 58 ED 94 DD 6A 6B 51 58 8C 40 1F A2 C8 EB 4C C6 D4 0F 12 5F FA D4 14 96 12 8D 7B 58	00 B6 98 01 67	policy NCP+ of ETSI EN 319 411-1	Authentication, signature encryption	Not defined	9 June 2016 to 9 July 2019

Shared Business	CN = Shared	5C 7D 59 57 F5	30 15 8B 58 CD	policy NCP &	signature,	Not defined	11 Feb 2014
CA 4	Business CA 4	56 46 15 42 B6	56 31 F5	OVCP of ETSI	encryption,		to 9 July 2019
	STREET = Untere	5B 2D B6 D5 9F		EN 319 411-1	server		
	Industriestr. 20	EA 1A E0 32 7D			authentication		
	L = Netphen	D8 18 14 3A 2E					
	PostalCode =	2C 21 6D 07 15					
	57250	44 22					
	S = Nordrhein						
	Westfalen						
	OU = T-Systems						
	Trust Center						
	O = T-Systems						
	International						
	GmbH						
	C = DE						
Shared Business	CN = Shared	D8 02 2A 38 FD	03 81 0F 39 E0	policy NCP &	Not active any	Not defined	4 Sept 2012
CA 3	Business CA 3	51 AA A4 F7 9E	0C B4	OVCP of ETSI	more		to 9 July 2019
	OU = T-Systems	2E 95 22 5B 5B		EN 319 411-1			not issuing
	Trust Center	8A CC 71 A8 28					certificates
	O = T-Systems	9E D7 91 79 97					any more
	International	AE 70 15 40 88					
	GmbH	8D 96					
	C = DE						

TeleSec	CN = Telesec	0E 11 76 3E 42	00 c7 5e 01 58 2a	policy OVCP of	server	Not defined	11 Feb 2014
ServerPass DE-2	ServerPass DE-2	9E 42 28 67 F9	c3 be e7	ETSI EN 319	authentication		to 9 July 2019
	STREET = Untere	2D 79 BB 14 0B		411-1			
	Industriestr. 20	86 C1 E4 6D 50					
	L = Netphen	E0 B2 E8 B9 D5					
	PostalCode =	23 0E 56 A1 F7					
	57250	FD B5					
	S = Nordrhein						
	Westfalen						
	OU = T-Systems						
	Trust Center						
	O = T-Systems						
	International						
	GmbH						
	C = DE						

Table 1: Sub-CA's issued by the Root-CA

Modifications record

Version	Issuing Date	Changes
Version 1.0	2019-07-26	Initial attestation

End of the audit attestation letter.