### Mozilla - CA Program

| Case Information              |           |                  |                                 |  |  |
|-------------------------------|-----------|------------------|---------------------------------|--|--|
| Case Number                   | 00000047  | Case Record Type | CA Owner/Root Inclusion Request |  |  |
| CA Owners/Certificate<br>Name | TurkTrust | Request Status   | Need Information from CA        |  |  |

## Additional Case Information Subject TurkTrust Root Renewal Request Case Reason New Owner/Root inclusion requested

# Bugzilla Information Link to Bugzilla Bug https://bugzilla.mozilla.org /show\_bug.cgi?id=1007683

| General information               | General information about CA's associated organization   |           |                |  |  |
|-----------------------------------|--|-----------|----------------|--|--|
| Company Website                   | http://www.turktrust.com.tr/en   | Verified? | Verified       |  |  |
| Organizational Type               | Private Corporation  | Verified? | Verified       |  |  |
| Organizational Type<br>(Others)   |  | Verified? | Not Applicable |  |  |
| Geographic Focus                  | Turkey   | Verified? | Verified       |  |  |
| Primary Market /<br>Customer Base | TURKTRUST issues certificates to the public.   | Verified? | Verified       |  |  |
| Impact to Mozilla Users           | TÜRKTRUST Information Security Services Inc. is an IT company based in Turkey. TÜRKTRUST is an authorized qualified electronic certificate service provider according to the Turkish Electronic Signature Law. TÜRKTRUST issues qualified certificates, time-stamping services, SSL certificates, and object signing certificates. One of TURKTRUST's previously included root certs expires this November | Verified? | Verified       |  |  |

| Recommended                                  | https://wiki.mozilla.org   | Recommended         | I have reviewed Mozilla's list o   |
|--|--|---------------------|--|
| Practices                                    |  | Practices Statement | Recommended Practices, and confirm that we follow those practices, with exceptions and clarifications noted in the text box below. |
| CA's Response to<br>Recommended<br>Practices | * Revocation of Compromised Certificates: Yes. CPS section 4.9.1 *DNS names go in SAN: Yes. CPS section 3.1.5.2: "SAN" contains the "DNS" which is indicated in "CN" field. Provided that domain name ownership is verified for each domain name, more than one domain name can be written in this | Verified?           | Verified   |

field. The constraints which are specified in "CN" are also valid for SAN field.

| esponse to Mo                               | zilla's list of Potentially Problematic Practices   |                                       |  |
|---|---|---------------------------------------|--|
| Potentially<br>Problematic<br>Practices     | https://wiki.mozilla.org<br>/CA:Problematic_Practices#Potentially_problematic_CA_practices  | Problematic<br>Practices<br>Statement | I have reviewed Mozilla's list of Potentially Problematic Practices, and confirm that w do not do those practices, will exceptions and clarifications noted in the text box below. |
| A's Response to<br>Problematic<br>Practices | NEED: Please also respond to <a href="https://wiki.mozilla.org">https://wiki.mozilla.org</a> *CA:Problematic Practices#SHA-1 Certificates | Verified?                             | Need Response From CA  |

## Root Case Record # 1

| Root Case No   | R00000062                | Case Number           | 0000047   |
|----------------|--------------------------|-----------------------|---|
| Request Status | Need Information from CA | Root Certificate Name | TÜRKTRUST Elektronik Sertifika Hizmet<br>Sağlayıcısı H5 |
|                |                          |                       |   |

#### Additional Root Case Information

Subject Include TÜRKTRUST Elektronik Sertifika Hizmet Sağlayıcısı H5 root

| Technical Inform                 | Technical Information about Root Certificate  |           |          |  |
|----------------------------------|---|-----------|----------|--|
| O From Issuer<br>Field           | TÜRKTRUST Bilgi İletişim ve Bilişim Güvenliği Hizmetleri A.Ş.   | Verified? | Verified |  |
| OU From Issuer<br>Field          |   | Verified? | Verified |  |
| Certificate<br>Summary           | The H5 root has internally-operated subCAs that issue SSL and Code Signing certificates.              | Verified? | Verified |  |
| Root Certificate<br>Download URL | http://www.turktrust.com.tr/sertifikalar<br>/TURKTRUST_Elektronik_Sertifika_Hizmet_Saglayicisi_h5.crt | Verified? | Verified |  |
| Valid From                       | 2013 Apr 30   | Verified? | Verified |  |
| Valid To                         | 2023 Apr 28   | Verified? | Verified |  |

| Certificate Version                          | 3  | Verified? | Verified       |
|--|--|-----------|----------------|
| Certificate<br>Signature<br>Algorithm        | SHA-256  | Verified? | Verified       |
| Signing Key<br>Parameters                    | 2048   | Verified? | Verified       |
| Test Website URL<br>(SSL) or Example<br>Cert | https://testsuite12001.turktrust.com.tr  | Verified? | Verified       |
| CRL URL(s)                                   | http://www.turktrust.com.tr/sil/TURKTRUST_SSL_SIL_h5.crl<br>http://www.turktrust.com.tr/sil/TURKTRUST_Kok_SIL_h5.crl | Verified? | Verified       |
| OCSP URL(s)                                  | http://ocsp.turktrust.com.tr   | Verified? | Verified       |
| Trust Bits                                   | Code; Websites   | Verified? | Verified       |
| SSL Validation<br>Type                       | DV; OV   | Verified? | Verified       |
| EV Policy OID(s)                             | Not EV   | Verified? | Not Applicable |
| EV Tested                                    |  | Verified? | Not Applicable |
| Root Stores<br>Included In                   | Microsoft  | Verified? | Verified       |
| Mozilla Applied<br>Constraints               | None   | Verified? | Verified       |

#### **Digital Fingerprint Information**

| SHA-1<br>Fingerprint   | C4:18:F6:4D:46:D1:DF:00:3D:27:30:13:72:43:A9:12:11:C6:75:FB   | erified? | Verified |
|------------------------|---|----------|----------|
| SHA-256<br>Fingerprint | 49:35:1B:90:34:44:C1:85:CC:DC:5C:69:3D:24:D8:55:5C:B2:08:D6:A8:14:13:07:69:9F:4A:F0:63:19:9D:78 Verify (a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | rified?  | Verified |

#### **CA Hierarchy Information**

CA Hierarchy Link not working: Verified? Need Response From CA

http://www.turktrust.com.tr /en/kok\_sertifika\_kurulumu2.html

TURKTRUST ECSP 6. ROOT

HIERARCHY

Root: TURKTRUST Electronic Certificate

Service Provider Certificate

No third-party issuers.

EV SSL subCA: TURKTRUST Electronic Server Certificate Services Certificate

(EVSSL)

Externally Operated SubCAs

None. None planned.

Cross Signing

None. None planned.

Verified?

Verified?

Verified?

Verified?

#### **Verification Policies and Practices**

**Technical Constraint** 

on 3rd party Issuer

| Policy<br>Documentation   | Documents are in Turkish & English              | Verified? | Verified |
|---------------------------|---|-----------|----------|
| CA Document<br>Repository | http://www.turktrust.com.tr/en/bilgideposu.html | Verified? | Verified |

Verified?

Verified

| CP Doc Language                            | English  |           |                |
|--|--|-----------|----------------|
| СР   | http://www.turktrust.com.tr/files/bilgidepo/TURKTRUST_CP_V-08_%5BEN%5D.pdf   | Verified? | Verified       |
| CP Doc Language                            | English  |           |                |
| CPS  | http://www.turktrust.com.tr/files/bilgidepo<br>/TURKTRUST_CPS_V-08_%5BEN%5D.pdf  | Verified? | Verified       |
| Other Relevant<br>Documents                |  | Verified? | Not Applicable |
| Auditor Name                               | TUVIT  | Verified? | Verified       |
| Auditor Website                            | https://www.tuvit.de   | Verified? | Verified       |
| Auditor<br>Qualifications                  | https://portal.etsi.org/TBSiteMap<br>/ESI/TrustServiceProviders.aspx   | Verified? | Verified       |
| Standard Audit                             | https://www.tuvit.de/en/certification-overview-1265-trusted-site-etsi-certificates-1334.htm  | Verified? | Verified       |
| Standard Audit<br>Type                     | ETSI TS 102 042  | Verified? | Verified       |
| Standard Audit<br>Statement Date           | 12/19/2014   | Verified? | Verified       |
| BR Audit                                   | https://www.tuvit.de/en/certification-overview-1265-trusted-<br>site-etsi-certificates-1334.htm  | Verified? | Verified       |
| BR Audit Type                              | ETSI TS 102 042  | Verified? | Verified       |
| BR Audit Statement<br>Date                 | 12/19/2014   | Verified? | Verified       |
| EV Audit                                   | https://www.tuvit.de/en/certification-overview-1265-trusted-site-etsi-certificates-1334.htm  | Verified? | Verified       |
| EV Audit Type                              | ETSI TS 102 042  | Verified? | Verified       |
| EV Audit Statement<br>Date                 | 12/19/2014   | Verified? | Verified       |
| BR Commitment to<br>Comply                 | CPS and CP section 1   | Verified? | Verified       |
| SSL Verification<br>Procedures             | Domain/e-mail validation is performed by TURKTRUST CA and is not delegated to any third party.   | Verified? | Verified       |
|  | CPS section 3.2.2.1, QEC, SSL or OSC: For SSL and OSC applications, the e-mail address submitted by the authorized person who conducts the application operations on behalf of the subscriber should be verified. This verification is done with a unique user name and activation code sent to the authorized person's e-mail address.  |           |                |
|  | The following e-mail address prefixes are used for domain verification of both DV and OV certificates: "admin", "administrator", "webmaster", "hostmaster" or "postmaster".  |           |                |
| EV SSL Verification<br>Procedures          | Not requesting EV treatment for this root.   | Verified? | Not Applicable |
| Organization<br>Verification<br>Procedures | CPS section 9.6.1, CA Representations and Warranties: Right to Use Domain Name: TURKTRUST has taken all steps reasonably necessary to verify that, as of the date the SSL and EV SSL certificate was issued, either the Subject named in the SSL and EV SSL certificate has the exclusive right to use all the Domain Name(s) listed in the SSL and EV SSL certificate or had control of, the Domain Name(s) listed in the certificate's subject field and subjectAltName extension. This verification is done either communicating directly with the national or international domain name registrant or right to use domain name assignment. Authorization for SSL and EV SSL Certificate: TURKTRUST | Verified? | Verified       |

has taken all steps reasonably necessary to verify that the Subject named in the SSL and EV SSL certificate has authorized the issuance of the SSL and EV SSL certificate. This authorization verification is done by either official authorization document or the data which is taken from independent resources and confirmed via telephone or it can be done face to face.

CPS section 3.2.5: In cases where the name of a legal entity is to be contained in a certificate, the applicant must submit an official document showing the authority of the applicant to act on behalf of the legal entity.

Email Address Verification Procedures Not requesting the Email trust bit.

Verified?

Not Applicable

Code Signing Subscriber Verification Pro CPS section 1.2: TURKTRUST OSC Policy (2.16.792.3.0.3.1.1.4) covers certificates related to object signing operations. OSC is issued and maintained in conformity with "Normalized Certificate Policy" defined in ETSI TS 102 042.

Verified? Verified

CPS section 1.6.2: Object Signing Certificate (OSC): The certificate that verifies the owner of the source code of software that can be executed on a computer.

CPS section 3.1.5.4. OSC: DN in TURKTRUST OSC is formed as below:

- "CN" contains complete name of the subscriber, which is based on the official documentation according to the legislation of residence.

CPS section 3.2.2.1. QEC, SSL or OSC

The name of legal entity is verified against the official documents of the country of residence of the applicant. Verification herein is executed according to the TURKTRUST procedures.

For SSL and OSC applications, the e-mail address submitted by the authorized person who conducts the application operations on behalf of the subscriber should be verified. This verification is done with a unique user name and activation code sent to the authorized person's e-mail address.

CPS section 4.1.1, Who Can Submit a Certificate Application? Any real person free of any legal obstacles may apply for QEC or OSC.

For SSL, EV SSL and OSC, including private legal entities and public entities, any legal entity may apply for a certificate.

Multi-Factor Authentication We confirm that multi-factor authentication is required for all accounts capable of directly causing certificate issuance.

Verified? Verified

**Network Security** 

We confirm that we have performed the actions listed in #7 of <a href="https://wiki.mozilla.org">https://wiki.mozilla.org</a>

Verified? Verified

/CA:Information checklist#Verification Policies and Practices

#### Link to Publicly Disclosed and Audited subordinate CA Certificates

Publicly Disclosed & Audited subCAs Link not working: http://www.turktrust.com.tr /en/kok\_sertifika\_kurulumu2.html Verified? Need Response From CA

#### **Root Case Record #2**

#### **Root Case Information**

| Root Case No   | R00000063                | Case Number           | 0000047   |
|----------------|--------------------------|-----------------------|---|
| Request Status | Need Information from CA | Root Certificate Name | TÜRKTRUST Elektronik Sertifika Hizmet<br>Sağlayıcısı H6 |

#### **Additional Root Case Information**

Include TÜRKTRUST Elektronik Sertifika Hizmet Sağlayıcısı H6 root Subject

| echnical l   | nformation about Root Certificate   |           |         |
|--|---|-----------|---------|
| O From<br>ssuer Field                              | TÜRKTRUST Bilgi İletişim ve Bilişim Güvenliği Hizmetleri A.Ş.   | Verified? | Verifie |
| OU From<br>ssuer Field                             |   | Verified? | Verifie |
| Certificate<br>Summary                             | The H6 root has an internally-operated subCA that issues EV SSL certificates.   | Verified? | Verifie |
| Root<br>Certificate<br>Download<br>URL             | http://www.turktrust.com.tr/sertifikalar<br>/TURKTRUST_Elektronik_Sertifika_Hizmet_Saglayicisi_h6.crt   | Verified? | Verifie |
| Valid From   | 2013 Dec 18   | Verified? | Verifie |
| Valid To   | 2023 Dec 18   | Verified? | Verifie |
| Certificate<br>Version                             | 3   | Verified? | Verifie |
| Certificate<br>Signature<br>Algorithm              | SHA-256   | Verified? | Verifie |
| igning Key<br>Parameters                           | 2048  | Verified? | Verifie |
| Test<br>Website<br>URL (SSL)<br>or Example<br>Cert | https://testsuite12002.turktrust.com.tr   | Verified? | Verifie |
| CRL URL(s)   | http://www.turktrust.com.tr/sil/TURKTRUST_EV_SSL_SIL_h6.crl<br>http://www.turktrust.com.tr/sil/TURKTRUST_Kok_SIL_h6.crl   | Verified? | Verifie |
| OCSP<br>URL(s)                                     | http://ocsp.turktrust.com.tr  | Verified? | Verifie |
| Trust Bits   | Websites  | Verified? | Verifie |
| SSL<br>Validation<br>Type                          | EV  | Verified? | Verifie |
| EV Policy<br>OID(s)                                | 2.16.792.3.0.3.1.1.5  | Verified? | Verifie |
| EV Tested  | // CN=TÜRKTRUST Elektronik Sertifika Hizmet Sağlayıcısı H6,O=TÜRKTRUST Bilgi İletişim ve Bilişim Güvenliği Hizmetleri A,L=Ankara,C=TR  "2.16.792.3.0.3.1.1.5", "TurkTrust EV OID", SEC_OID_UNKNOWN, {0x8D, 0xE7, 0x86, 0x55, 0xE1, 0xBE, 0x7F, 0x78, 0x47, 0x80, 0x0B, 0x93, 0xF6, 0x94, 0xD2, 0x1D, 0x36, 0x8C, 0xC0, 0x6E, 0x03, 0x3E, 0x7F, 0xAB, 0x04, 0xBB, 0x5E, 0xB9, 0x9D, 0xA6, 0xB7, 0x00 }, "MIGxMQswCQYDVQQGEwJUUjEPMA0GA1UEBwwGQW5rYXJhMU0wSwYDVQQKDERUw5xS" "S1RSVVNUIEJpbGdpIMSwbGV0acWfaW0gdmUgQmlsacWfaW0gR8O8dmVubGnEn2kg" "SGl6bWV0bGVyaSBBLSWeLjFCMEAGA1UEAww5VMOcUktUUIVTVCBFbGVrdHJvbmlr" "IFNIcnRpZmlrYSBIaXptZXQgU2HEn2xhecSxY8Sxc8SxIEq2", | Verified? | Verifie |

|                                   | "faHyZeyK",<br>Success! |           |          |
|-----------------------------------|-------------------------|-----------|----------|
| Root Stores<br>Included In        | Microsoft               | Verified? | Verified |
| Mozilla<br>Applied<br>Constraints | None                    | Verified? | Verified |

#### **Digital Fingerprint Information**

| SHA-1<br>Fingerprint   | 8A:5C:8C:EE:A5:03:E6:05:56:BA:D8:1B:D4:F6:C9:B0:ED:E5:2F:E0   | Verified |
|------------------------|---|----------|
| SHA-256<br>Fingerprint | 8D:E7:86:55:E1:BE:7F:78:47:80:0B:93:F6:94:D2:1D:36:8C:C0:6E:03:3E:7F:AB:04:BB:5E:B9:9D:A6:B7:00 Verified? | Verified |

#### **CA Hierarchy Information**

| CA Hierarchy                             | Link not working: http://www.turktrust.com.tr /en/kok sertifika kurulumu2.html TURKTRUST ECSP 5. ROOT HIERARCHY Root: TURKTRUST Electronic Certificate Service Provider Certificate SSL subCA: TURKTRUST Electronic Server Certificate Services Certificate Non-QEC subCA: TURKTRUST Simple Electronic Certificate Services Certificate Code-Signing subCA: TURKTRUST Object Signing Services Certificate | Verified? | Need Response From CA |
|--|---|-----------|-----------------------|
| Externally Operated SubCAs               | None. None planned.   | Verified? | Verified              |
| Cross Signing                            | None. None planned.   | Verified? | Verified              |
| Technical Constraint on 3rd party Issuer | No third-party issuers.   | Verified? | Verified              |

#### **Verification Policies and Practices**

| Policy<br>Documentation     | Documents are in Turkish & English  | Verified? | Verified       |
|-----------------------------|---|-----------|----------------|
| CA Document<br>Repository   | http://www.turktrust.com.tr/en/bilgideposu.html                                 | Verified? | Verified       |
| CP Doc Language             | English   |           |                |
| СР                          | http://www.turktrust.com.tr/files/bilgidepo/TURKTRUST_CP_V-08_%5BEN%5D.pdf      | Verified? | Verified       |
| CP Doc Language             | English   |           |                |
| CPS                         | http://www.turktrust.com.tr/files/bilgidepo<br>/TURKTRUST_CPS_V-08_%5BEN%5D.pdf | Verified? | Verified       |
| Other Relevant<br>Documents |   | Verified? | Not Applicable |
| Auditor Name                | TUVIT   | Verified? | Verified       |
| Auditor Website             | https://www.tuvit.de  | Verified? | Verified       |
| Auditor<br>Qualifications   | https://portal.etsi.org/TBSiteMap<br>/ESI/TrustServiceProviders.aspx            | Verified? | Verified       |
|                             |   |           |                |

| Standard Audit                   | https://www.tuvit.de/en/certification-overview-1265-trusted-<br>site-etsi-certificates-1334.htm   | Verified? | Verified |
|----------------------------------|---|-----------|----------|
| Standard Audit<br>Type           | ETSI TS 102 042   | Verified? | Verified |
| Standard Audit<br>Statement Date | 12/19/2014  | Verified? | Verified |
| BR Audit                         | https://www.tuvit.de/en/certification-overview-1265-trusted-<br>site-etsi-certificates-1334.htm   | Verified? | Verified |
| BR Audit Type                    | ETSI TS 102 042   | Verified? | Verified |
| BR Audit Statement<br>Date       | 12/19/2014  | Verified? | Verified |
| EV Audit                         | https://www.tuvit.de/en/certification-overview-1265-trusted-<br>site-etsi-certificates-1334.htm   | Verified? | Verified |
| EV Audit Type                    | ETSI TS 102 042   | Verified? | Verified |
| EV Audit Statement<br>Date       | 12/19/2014  | Verified? | Verified |
| BR Commitment to<br>Comply       | CPS and CP section 1  | Verified? | Verified |
| SSL Verification<br>Procedures   | Domain/e-mail validation is performed by TURKTRUST CA and is not delegated to any third party.  CPS section 3.2.2.1, QEC, SSL or OSC: For SSL and OSC applications, the e-mail address submitted by the authorized person who conducts the application operations on behalf of the subscriber should be verified. This verification is done with a unique user name and activation code sent to the authorized person's e-mail address.  The following e-mail address prefixes are used for domain verification of both DV and OV certificates: "admin", "administrator", "webmaster", "hostmaster" or "postmaster".  | Verified? | Verified |
| EV SSL Verification Procedures   | CPS section 3.2.2.2, EV SSL: In verification of an EV SSL application, minimum criteria to be met are as follows:  - The name of legal entity is verified against the official documents of the country of residence of the applicant. Additional to this verification, circular of signature or an equivalent official document in applicable legislation, showing the authority of the applicant to act on behalf of the legal entity is required.  - Operational existence of the legal entity is confirmed via a third party, who is a buyer of a product or service of the legal entity. Where possible, an official document, obtained from a public agency or a legally authorized person to do so, proving the operational existence suffices to verify.  - Address of the legal entity's place of business is verified according to the legal documents of the country of residence. Moreover, telephone numbers, submitted by the applicant, are checked if they are exactly matched with the official records. In case of mismatch, correction is required. Verified telephone is the called for applicant to confirm the application.  - The e-mail address submitted by the authorized person who conducts the application operations on behalf of the subscriber should be verified. This verification is done with a unique user name and activation code sent to the authorized person's e-mail address.  - The following conditions should be met as well:  The legal entity is the owner of the DNS registry, or  The legal entity is given the exclusive right and authority to use the DNS name.  All conditions that apply for authentication of legal entity for an EV SSL applicant are given in Appendix. Given the conditions here, the process of authentication of legal persons is conducted according to the TURKTRUST procedures. | Verified? | Verified |

| Organization<br>Verification<br>Procedures     | CPS section 9.6.1, CA Representations and Warranties: Right to Use Domain Name: TURKTRUST has taken all steps reasonably necessary to verify that, as of the date the SSL and EV SSL certificate was issued, either the Subject named in the SSL and EV SSL certificate has the exclusive right to use all the Domain Name(s) listed in the SSL and EV SSL certificate or had control of, the Domain Name(s) listed in the certificate's subject field and subjectAltName extension. This verification is done either communicating directly with the national or international domain name registrant or right to use domain name assignment. Authorization for SSL and EV SSL Certificate: TURKTRUST has taken all steps reasonably necessary to verify that the Subject named in the SSL and EV SSL certificate has authorized the issuance of the SSL and EV SSL certificate. This authorization verification is done by either official authorization document or the data which is taken from independent resources and confirmed via telephone or it can be done face to face.  CPS section 3.2.5: In cases where the name of a legal entity is to be contained in a certificate, the applicant must submit an official document showing the authority of the applicant to act on behalf of the legal entity. | Verified? | Verified       |
|--|--|-----------|----------------|
| Email Address<br>Verification<br>Procedures    | Not requesting the Email trust bit.  | Verified? | Not Applicable |
| Code Signing<br>Subscriber<br>Verification Pro | Not requesting the Code Signing trust bit for this root.   | Verified? | Not Applicable |
| Multi-Factor<br>Authentication                 | We confirm that multi-factor authentication is required for all accounts capable of directly causing certificate issuance.   | Verified? | Verified       |
| Network Security                               | We confirm that we have performed the actions listed in #7 of <a href="https://wiki.mozilla.org">https://wiki.mozilla.org</a> /CA:Information checklist#Verification Policies and Practices  | Verified? | Verified       |

#### Link to Publicly Disclosed and Audited subordinate CA Certificates

Publicly Disclosed & Audited subCAs Link not working: http://www.turktrust.com.tr /en/kok\_sertifika\_kurulumu2.html

Verified? N

Need Response From CA