

Mozilla – CA Program

| Required and Recommended Practices | | |
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| Recommended Practices | https://wiki.mozilla.org/CA/Required_or_Recommended_Practices I have reviewed Mozilla's lists of Required and Recommended Practices, and confirm that we follow those practices, with exceptions and clarifications noted in the text box below. | Publicly Available CP and CPS The Tunisian National Root CA supplied a complete Certification Policy (CP) and Certification Practice Statement (CPS) containing sufficient information to determine whether and how the CA complies with the Mozilla policy requirements: <ul style="list-style-type: none"> • The CP/CPS is publicly available from the NDCA's official web site (http://www.certification.tn/pub/CPCPS-TunisianNationalPKI.pdf). • The format of the CP/CPS document is PDF. • The CP/CPS is available in an English version. • The Tunisian National Root CA provides references to the CP/CPS sections (e.g., by section number and/or page number) that address the requirements of the Mozilla policy. |
| CA's Response to Recommended Practices | NEED: CAs response to each of the items listed in https://wiki.mozilla.org/CA/Required_or_Recommended_Practices | |
| Forbidden and Potentially Problematic Practices | | |
| Potentially Problematic Practices | https://wiki.mozilla.org/CA/Forbidden_or_Problematic_Practices I have reviewed Mozilla's lists of Forbidden and Potentially Problematic Practices, and confirm that we do not do those practices, with exceptions and clarifications noted in the text box below. | |
| CA's Response to Problematic Practices | NEED: CA's response to each of the items listed in https://wiki.mozilla.org/CA/Forbidden_or_Problematic_Practices | |
| Root Case Record #1 | | |
| Root Case Information | | |
| Root Certificate Name | Tunisia National Root CA | |
| Request Status | Initial Request Received | |
| Certificate Data | | |
| Certificate Issuer Common Name | Tunisia National Root CA | |
| O From Issuer Field | National digital Certification Agency | |
| OU From Issuer Field | | |
| Valid From | 2016 Nov 29 | |
| Valid To | 2037 Nov 29 | |
| Certificate Serial Number | 683e1155929c8e8e | |
| Subject | CN=Tunisia National Root CA, OU=null, O=National Digital certification Agency, C=TN | |
| Signature Hash Algorithm | Sha256WithRSAEncryption | |
| Public Key Algorithm | RSA 4096 bits | |
| SHA1 Fingerprint | AF:29:06:F9:E6:9E:C1:86:36:AE:29:ED:5B:B4:08:91:7A:82:B5:07 | |
| SHA-256 Fingerprint | 4F:BA:9F:8B:2B:F7:0D:94:7F:F8:47:C1:5F:BA:65:13:38:84:01:8A:9B:B2:B2:E2:09:B8:33:C9:3F:57:B6:7C | |
| Certificate Fingerprint | 8A:10:B0:0B:AB:71:CC:2A:9C:64:27:C4:FA:69:78:11:A1:EF:1D:A5:3D:8F:3A:C0:55:45:33:67:D4:78:AF:9E | |
| Certificate Version | 3 | |

| Technical Information about Root Certificate | | |
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| Certificate Summary | The main purpose of the Tunisian National Root Certificate Authority is to issue the Subordinate Certification Authorities of the NDCA. | |
| Root Certificate Download URL | http://www.certification.tn/pub/TunisianNationalRootCA.crt | |
| CRL URL(s) | http://crl.certification.tn/tunrootca.crl | |
| OCSP URL(s) | http://va.certification.tn | |
| Mozilla Trust Bits | Email; website | |
| SSL Validation Type | OV, EV | |
| Mozilla EV Policy OID(s) | 2.16.788.1.2.6.1.10 | |
| Root Stores Included in | Microsoft Need Clarification From CA | The Tunisian National Root CA is not yet included in Microsoft root store. An application has been submitted and the CA is waiting for the response. |
| Mozilla Applied Constraints | No constraints | |
| Test Websites or Example Cert | | |
| Test Website - valid | | The Tunisia National Root CA is a root CA which issue only : <ul style="list-style-type: none"> • CRL • OCSP certificate • Intermediate CAs certificates. |
| Test website Expired | | |
| Test website - revoked | | |
| Test notes | NEED: - If requesting Websites trust bit provide 3 URLs to 3 test websites (valid, expired, revoked) whose TLS/SSL cert chains up to this root. - If only requesting the Email trust bit, then attach an example S/MIME cert to the bug. | |
| Test Results (When Requesting the SSL/TLS Trust Bit) | | |
| Revocation Tested | NEED: Test with http://certificate.revocationcheck.com/ make sure there aren't any errors. | The Tunisia National Root CA is a root CA which issue only : <ul style="list-style-type: none"> • CRL • OCSP certificate • Intermediate CAs certificates. |
| CA/Browser Forum Lint Test | NEED: The CA MUST check that they are not issuing certificates that violate any of the CA/Browser Forum Baseline Requirements (BRs). BR Lint Test: https://github.com/awslabs/certlint | |
| Test Website Lint Test | NEED: The CA MUST check that they are not issuing certificates that violate any of the X.509 rules. X.509 Lint Test: https://github.com/kroeckx/x509lint | |
| EV Tested | NEED: If EV treatment is being requested, then provide successful output from EV Testing as described here https://wiki.mozilla.org/PSM:EV_Testing_Easy_Version | |
| CA Hierarchy Information | | |
| CA Hierarchy | NEED: A description of the PKI hierarchy rooted at or otherwise associated with this root CA certificate. – List and/or describe all of the subordinate CAs that are signed by this root. – Identify which of the subordinate CAs are internally operated; e.g. list the subordinate CAs that operated by the CA organization associated with the root CA. For example, this might include subordinate CAs created to issue different classes or types of end entity certificates to the general public: Class 1 vs. class 2 certificates, qualified vs. non-qualified certificates, EV certificates vs. non-EV certificates, SSL certificates vs. email certificates, and so on. – It might also include subordinate CAs operated for the benefit of specific third parties. In this case note that we do not require that the CA submit a complete customer list; rather we are interested in the general type and nature of the third-party arrangements | List of the subordinate CAs that are signed by the Tunisia National Root CA are: Tunisia Gov CA: is an intermediate CA. There are two issuing CAs under this CA which are: TnTrust Gov CA: which issue these certificate profiles: <ul style="list-style-type: none"> • OV SSL • EV SSL • OV Code Signing • EV Code Signing • VPN • Timestamping TnTrust Qualified Gov CA: <ul style="list-style-type: none"> • Qualified signature • Qualified Seal Tunisia Corporate CA: is an intermediate CA. There are two issuing CAs under this CA which are: TnTrust Corporate CA: which issue these certificate profiles: <ul style="list-style-type: none"> • OV SSL • EV SSL • OV Code Signing |

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| | | <ul style="list-style-type: none"> • EV Code Signing • VPN • Timestamping TnTrust Qualified Corporate CA: <ul style="list-style-type: none"> • Qualified signature • Qualified Seal |
| Externally Operated SubCAs | NEED: – If this root has any subordinate CA certificates that are operated by external third parties, then provide the information listed in the Subordinate CA Checklist, https://wiki.mozilla.org/CA/Subordinate_CA_Checklist - If the CA functions as a super CA such their CA policies and auditing don't apply to the subordinate CAs, then those subordinate CAs must apply for inclusion themselves as separate trust anchors. | This root has no subordinate CA certificates that are operated by external third parties. |
| Cross Signing | NEED: – List all other root certificates for which this root certificate has issued cross-signing certificates. - List all other root certificates that have issued crosssigning certificates for this root certificate. – If any such cross-signing relationships exist, it is important to note whether the cross-signing CAs' certificates are already included in the Mozilla root store or not. | There are not any other root certificates for witch this root certificate has issued cross-signing certificates. There are not any other root certificates that have issued crosssigning certificates for this root certificate. There are not any crosssigning relationships. |
| Technical Constraint on 3 rd party Issuer | NEED: CP/CPS documentation describing the technical and contractual controls over any 3rd party who may issue certs in this CA Hierarchy. This includes external RAs as well as External subCAs. References: - section 7.1.5 of the CA/Browser Forum's Baseline Requirements – Mozilla's Root Store Policy | Section 1.3.3 of the CP/CPS describes the technical and contractual controls over any 3rd party « Delegated Registration Authority (DRA) Delegated RAs have to abide by all the requirements of the TN PKI CP/CPS. DRAs may, however implement more restrictive practices based on their internal requirements. Any DRA operating under this CP/CPS must adhere to the following rules: • The DRA must have a contractual agreement with the National Digital Certification Agency which indicates the authorization for their role as RA and clearly details the minimum requirements, processes and liabilities. • The registration process of any DRA must be provided by the National Digital Certification Agency. The latter has to audit and approve the process as meeting the quality requirements of this CP/CPS and therefore being equivalent to the registration process of the TN PKI RA. • The DRA must have an annual audit. All costs related to this audit are to be paid by the operator of the RA. Failure to pass the annual audit leads to the revocation of DRA privileges. » For the moment, the Tunisia National Root CA does not use external RAs. We have prepared a template of contract between NDCA and delegated RA. |
| Verification Policies and Pratices | | |
| Policy Documentation | NEED: Languages that the CP/CPS and other documents are provided in. | The CP/CPS is provided in English language. |
| CA Document Repository | | http://www.certification.tn/pub/CPCPS-TunisianNationalPKI.pdf |
| CP Doc Language | | English |
| CPS Doc Language | | English |
| Other Relevant Documents | | The relying parties agreement are made in French language. |
| Auditor Name | | Mr. Philippe Bouchet from the certification body LSTI |
| Auditor Website | | http://lsti-certification.fr |
| Auditor Qualifications | | LSTI has been accredited pursuant to the accreditation certificate of French Accreditation Body COFRAC with registration number 5-0546 in accordance with NF EN ISO/IEC 17065:2013 as a certification body for products, processes, and services in accordance with the Annex of the accreditation certificate and the ETSI EN 319 403. |
| Standard Audit | NEED: Audit statements meeting the requirements of Mozilla's Root Store Policy. | |
| Standard Audit type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| Standard Audit Statement Date | | 21 march 2017 |

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| BR Audit | NEED: If requesting Websites trust bit, then also need a BR audit as per Mozilla's Root Store Policy. | |
| RG Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| BR Audit Statement Date | | 21 march 2017 |
| EV SSL Audit | NEED: If requesting EV treatment, then also need an EV audit as per Mozilla's Root Store Policy. | |
| EV SSL Audit | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| EV SSL Audit Statement Dare | | 21 march 2017 |
| BR Commitment Comply | NEED: If requesting Websites trust bit, need section in the CP/CPS that has the commitment to comply with the BRs as described in section 2.2 of the CA/Browser Forum's Baseline Requirements. | Tunisian National Root CA conform to the current version of the CA/Browser Forum (CABF) requirements including: <ul style="list-style-type: none"> • Guidelines for the Issuance and Management of Extended Validation (EV) Certificates, • Guidelines for the Issuance and Management of Extended Validation (EV) Code-Signing Certificates, and, • Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, Published at www.cabforum.org . In the event of any inconsistency between this document and those Requirement, those Requirements take precedence over this document |
| BR Self Assessment | NEED: If requesting Websites trust bit, attach BR Self Assessment (https://wiki.mozilla.org/CA/BR_SelfAssessment) to the Bugzilla Bug. | I have attached the BR Self Assessment two months ago. |
| SSL Verification Procedures | NEED: if Websites trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the domain name to be included in the SSL/TLS cert. CP/CPS must clearly specify the procedures that the CA employs. Each documented procedure should state which subsection of BR section 3.2.2.4 it is complying with. | Section 3.2.2 of the CP/CPS 3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to: <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. |

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| | | <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>EV SSL Verification Procedures</p> | <p>NEED: If EV verification is performed, then provide URLs and section/page number information pointing directly to the sections of the CP/CPS documents that pertain to EV and describe the procedures for verifying the ownership/control of the domain name, and the verification of identity, existence, and authority of the organization to request the EV certificate. The EV verification documentation must meet the requirements of the CA/Browser Forum's EV Guidelines, and must also provide information specific to the CA's operations</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> |

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| | | <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or " postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>Organisation Verification Procedures</p> | <p>NEED: CP/CPS sections that describe identity and organization verification procedures for cert issuance.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with |

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| | | <p>the applicable government that confirms the existence of the organization, and</p> <ul style="list-style-type: none"> • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or " postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>Email Address Verification Procedures</p> | <p>NEED if Email trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the email address to be included in the cert.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information |

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| | | <p>(employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization.</p> <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| Code Signing Subscriber Pro | Mozilla is no longer accepting requests to enable the Code Signing trust bit. | Yes. We need to activate Code Signing trust bit. |
| Multi-factor Authentication | NEED section number of the CP/CPS that states that multifactor authentication is enforced for all accounts capable of directly causing certificate issuance. (reference section 6.5 of the BRs) | <p>Section 5.2.2 of the CP/CPS</p> <p>5.2.2 Number of persons required per task</p> <p>Two or more persons are required for TN PKI CAs for the following tasks:</p> <p>(a) CA key generation = Three (3) persons</p> <p>(b) CA signing key activation = Three (3) persons</p> <p>(c) CA private key backup = Three (3) persons</p> <p>Where multiparty control for logical access is required, at least one of the participants is an administrator. All participants must serve in a trusted role as defined in Section 5.2.1 (Trusted Roles).</p> <p>Multiparty control for logical access are not achieved using personnel that serve in the Auditor Trusted Role.</p> <p>HSM Administrators uses HSM Smartcards for authentication. The HSM itself enforces dual control based on the HSM smartcards for the different functions.</p> <p>The number of needed HSMsmartcards (m) of the total number of produced HSM-smartcards (n) will be:</p> <p>(a) Key generation = 3 of 6</p> <p>(b) Signing key activation = 3 of 8</p> <p>(c) Private key backup and restore = 3 of 6</p> <p>End-user certificate issuance requires the approval of at least two persons.</p> <p>End-user Certificate revocation requires the approval of at least two persons.</p> <p>Registration and Customer Services : Responsible Employees responsible for routine certification services such as customer services, document control, processes relating to certificate registration, generation and revocation. These employees are trusted roles. They access the RA system using a smart card and a PIN code .</p> |
| Network Security | NEED section number(s) of the CP/CPS dealing with Network Security | <p>Section 6.8 of the CP/CPS:</p> <p>6.8 Network security controls TN PKI's CA system is connected to one internal network and is protected by firewalls, a Demilitarized Zone (DMZ) and Network Address Translation for all internal IP addresses. TN PKI's customer support and vetting workstations are also protected by firewall(s) and only use internal IP addresses. Root and</p> |

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| | | intermediate CAs Keys are kept offline and brought online only when necessary to sign certificate-issuing subordinate CAs or periodic CRLs. Firewalls and boundary control devices are configured to allow access only by the addresses, ports, protocols and commands required for the trustworthy provision of PKI services by such systems. It is TN PKI's security policy to block all ports and protocols and open only necessary ports to enable CA functions. All CA equipment is configured with a minimum number of services and all unused network ports and services are disabled. All firewall configurations and changes thereto are documented, authorized, tested and implemented in accordance with change management procedures. TN PKI's network configuration is available for review on-site by its auditors and consultants under an appropriate non-disclosure agreement. |
| Root Case Record # 2 | | |
| Root Case Information | | |
| Root Certificate Name | Tunisia Gov CA | |
| Request Status | Initial Request Received | |
| Certificate Data | | |
| Certificate Issuer Commun Name | Tunisia National Root CA | |
| O From Issuer Field | National digital Certification Agency | |
| OU From Issuer Field | | |
| Valid From | 2016 Nov 29 | |
| Valid To | 2032 Feb 29 | |
| Certificate Serial Number | 782c1009830a4bee | |
| Subject | CN=Tunisia Gov CA, OU=null, O=National Digital Certification Agency, C=TN | |
| Signature Hash Algorithm | Sha256WithRSAEncryption | |
| Public Key Algorithm | RSA 4096 bits | |
| SHA1 Fingerprint | 9F:81:BE:87:33:2A:67:FC:93:71:1E:5B:FD:FF:6E:3B:7F:46:31:A4 | |
| SHA-256 Fingerprint | 37:93:68:F7:8E:99:37:A8:B0:BB:72:3E:99:99:50:86:12:75:12:0D:67:75:32:4E:37:A7:0C:F1:69:76:0A:64 | |
| Certificate Fingerprint | EB:9F:AC:B7:DD:89:B2:62:1E:D1:31:99:80:31:A6:8F:A4:5E:DA:CF:CE:F2:85:B4:5F:45:52:57:57:13:FC:FE | |
| Certificate Version | 3 | |
| Technical Information about Root Certificate | | |
| Certificate Summary | Need response from CA | <p>The Tunisia Gov CA issue :</p> <ul style="list-style-type: none"> • CRL • OCSP Certificate • Certificate of issuing Authority. <p>There are two issuing authorities under this CA which are:</p> <ul style="list-style-type: none"> • TnTrust Gov CA • TnTrust Qualified Gov CA |
| Root Certificate Download URL | Need response from CA | http://crl.certification.tn/tunrootca.crl |
| CRL URL(s) | Need response from CA | http://crl.certification.tn/tunisiagovca.crl |
| OCSP URL(s) | Need response from CA | http://va.certification.tn |
| Mozilla Trust Bits | Need response from CA | Email, website |
| SSL Validation Type | Need response from CA | OV, EV |
| Mozilla EV Policy OID(s) | Need response from CA | 2.16.788.1.2.6.1.9.1.2 |
| Root Stores Included in | Need response from CA | The Tunisian National Root CA is not yet included in Microsoft root store. An application has been submitted and the CA is waiting for the response. |
| Mozilla Applied Constraints | Need response from CA | No constraints |
| Test Websites or Example Cert | | |
| Test Website - valid | | The Tunisia Gov CA is an intermediateCA which issue only : |

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| Test website Expired | | <ul style="list-style-type: none"> • CRL • OCSP certificate • Issuing CAs certificates. |
| Test website - revoked | | |
| Test notes | NEED: - If requesting Websites trust bit provide 3 URLs to 3 test websites (valid, expired, revoked) whose TLS/SSL cert chains up to this root. - If only requesting the Email trust bit, then attach an example S/MIME cert to the bug. | |
| Test Results (When Requesting the SSL/TLS trust Bit) | | |
| Revocation Tested | NEED: Test with http://certificate.revocationcheck.com/ make sure there aren't any errors. | <p>The Tunisia Gov CA is an intermediateCA which issue only :</p> <ul style="list-style-type: none"> • CRL • OCSP certificate • Issuing CAs certificates. |
| CA/Browser Forum Lint Test | NEED: The CA MUST check that they are not issuing certificates that violate any of the CA/Browser Forum Baseline Requirements (BRs). BR Lint Test: https://github.com/awslabs/certlint | |
| Test Website Lint Test | NEED: The CA MUST check that they are not issuing certificates that violate any of the X.509 rules. X.509 Lint Test: https://github.com/kroeckx/x509lint | |
| EV Tested | NEED: If EV treatment is being requested, then provide successful output from EV Testing as described here https://wiki.mozilla.org/PSM:EV_Testing_Easy_Version | |
| CA Hierarchy Information | | |
| CA Hierarchy | NEED: A description of the PKI hierarchy rooted at or otherwise associated with this root CA certificate. - List and/or describe all of the subordinate CAs that are signed by this root. - Identify which of the subordinate CAs are internally operated; e.g. list the subordinate CAs that operated by the CA organization associated with the root CA. For example, this might include subordinate CAs created to issue different classes or types of end entity certificates to the general public: Class 1 vs. class 2 certificates, qualified vs. non-qualified certificates, EV certificates vs. non-EV certificates, SSL certificates vs. email certificates, and so on. - It might also include subordinate CAs operated for the benefit of specific third parties. In this case note that we do not require that the CA submit a complete customer list; rather we are interested in the general type and nature of the third-party arrangements | <p>The Tunisia Gov CA is an intermediate CA. This CA issue two issuing CA:</p> <p>TnTrust Gov CA: which issue these certificate profiles:</p> <ul style="list-style-type: none"> • OV SSL • EV SSL • OV Code Signing • EV Code Signing • VPN • Timestamping <p>TnTrust Qualified Gov CA:</p> <ul style="list-style-type: none"> • Qualified signature • Qualified Seal |
| Externally Operated SubCAs | NEED: - If this root has any subordinate CA certificates that are operated by external third parties, then provide the information listed in the Subordinate CA Checklist, https://wiki.mozilla.org/CA/Subordinate_CA_Checklist - If the CA functions as a super CA such their CA policies and auditing don't apply to the subordinate CAs, then those subordinate CAs must apply for inclusion themselves as separate trust anchors. | This CA has no subordinate CA certificates that are operated by external third parties. |
| Cross Signing | NEED: - List all other root certificates for which this root certificate has issued cross-signing certificates. - List all other root certificates that have issued crosssigning certificates for this root certificate. - If any such cross-signing relationships exist, it is important to note whether the cross-signing CAs' certificates are already included in the Mozilla root store or not. | <p>There are not any other root certificates for witch this root certificate has issued cross-signing certificates.</p> <p>There are not any other root certificates that have issued crosssigning certificates for this root certificate.</p> <p>There are not any crosssigning relationships.</p> |
| Technical Constraint on 3 rd party Issuer | NEED: CP/CPS documentation describing the technical and contractual controls over any 3rd party who may issue certs in this CA Hierarchy. This includes external RAs as well as External subCAs. References: - section 7.1.5 of the CA/Browser Forum's Baseline Requirements - Mozilla's Root Store Policy | Section 1.3.3 of the CP/CPS describes the technical and contractual controls over any 3rd party « Delegated Registration Authority (DRA) Delegated RAs have to abide by all the requirements of the TN PKI CP/CPS. DRAs may, however implement more restrictive practices based on their internal requirements. Any DRA operating under this CP/CPS must adhere to the following rules: • The DRA must have a contractual agreement with the National Digital Certification Agency which indicates the authorization for their role as RA and clearly details the minimum requirements, processes and liabilities. • The registration process of any DRA must be provided by the National Digital Certification Agency. The latter has to audit and approve the process as meeting the quality requirements of this |

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| | | CP/CPS and therefore being equivalent to the registration process of the TN PKI RA. • The DRA must have an annual audit. All costs related to this audit are to be paid by the operator of the RA. Failure to pass the annual audit leads to the revocation of DRA privileges. » For the moment, the Tunisia National Root CA does not use external RAs. We have prepared a template of contract between NDCA and delegated RA. |
| Verification Policies and Practices | | |
| Policy Documentation | NEED: Languages that the CP/CPS and other documents are provided in. | The CP/CPS is provided in English language. |
| CA Document Repository | | http://www.certification.tn/pub/CPCPS-TunisianNationalPKI.pdf |
| CP Doc Language | | English |
| CPS Doc Language | | English |
| Other Relevant Documents | | The relying parties agreement are made in French language. |
| Auditor Name | | Mr. Philippe Bouchet from the certification body LSTI |
| Auditor Website | | http://lsti-certification.fr |
| Auditor Qualifications | | LSTI has been accredited pursuant to the accreditation certificate of French Accreditation Body COFRAC with registration number 5-0546 in accordance with NF EN ISO/IEC 17065:2013 as a certification body for products, processes, and services in accordance with the Annex of the accreditation certificate and the ETSI EN 319 403. |
| Standard Audit | NEED: Audit statements meeting the requirements of Mozilla's Root Store Policy. | |
| Standard Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| Standard Audit Statement Date | | 21 march 2017 |
| BR Audit | NEED: If requesting Websites trust bit, then also need a BR audit as per Mozilla's Root Store Policy. | |
| BR Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| BR Audit Statement Date | | 21 march 2017 |
| EV SSL Audit | NEED: If requesting EV treatment, then also need an EV audit as per Mozilla's Root Store Policy. | |
| EV SSL Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| EV SSL Audit Statement Date | | 21 march 2017 |
| BR Commitment to Comply | NEED: If requesting Websites trust bit, need section in the CP/CPS that has the commitment to comply with the BRs as described in section 2.2 of the CA/Browser Forum's Baseline Requirements. | Tunisian National Root CA conform to the current version of the CA/Browser Forum (CABF) requirements including: <ul style="list-style-type: none"> • Guidelines for the Issuance and Management of Extended Validation (EV) Certificates, • Guidelines for the Issuance and Management of Extended Validation (EV) Code-Signing Certificates, and, • Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, |

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| | | Published at www.cabforum.org . In the event of any inconsistency between this document and those Requirement, those Requirements take precedence over this document |
| BR Self Assessment | NEED: If requesting Websites trust bit, attach BR Self Assessment (https://wiki.mozilla.org/CA/BR_SelfAssessment) to the Bugzilla Bug. | I have attached the BR Self Assessment two months ago. |
| SSL verification Procedures | NEED: if Websites trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the domain name to be included in the SSL/TLS cert. CP/CPS must clearly specify the procedures that the CA employs. Each documented procedure should state which subsection of BR section 3.2.2.4 it is complying with. | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. |

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| | | <ul style="list-style-type: none"> • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>EV SSL Verification Procedures</p> | <p>NEED: If EV verification is performed, then provide URLs and section/page number information pointing directly to the sections of the CP/CPS documents that pertain to EV and describe the procedures for verifying the ownership/control of the domain name, and the verification of identity, existence, and authority of the organization to request the EV certificate. The EV verification documentation must meet the requirements of the CA/Browser Forum's EV Guidelines, and must also provide information specific to the CA's operations.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |

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| <p>Organization Verification Procedures</p> | <p>NEED: CP/CPS sections that describe identity and organization verification procedures for cert issuance.</p> | <p>Section 3.2.2 of the CP/CPS 3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>Email Address Verification Procedures</p> | <p>NEED if Email trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the</p> | <p>Section 3.2.2 of the CP/CPS 3.2.2 Authentication of organization identity The DN of a certificate issued by one of the</p> |

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| | <p>ownership/control of the email address to be included in the cert.</p> | <p>issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or " postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| Code Signing Subscriber Verification Pro | Mozilla is no longer accepting requests to enable the Code Signing trust bit. | Yes. We need to activate Code Signing trust bit. |
| Multi-factor Authentication | NEED section number of the CP/CPS that states that multifactor authentication is enforced for all accounts capable of directly causing | Section 5.2.2 of the CP/CPS 5.2.2 Number of persons required per task |

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| | certificate issuance. (reference section 6.5 of the BRs) | <p>Two or more persons are required for TN PKI CAs for the following tasks:</p> <p>(a) CA key generation = Three (3) persons (b) CA signing key activation = Three (3) persons (c) CA private key backup = Three (3) persons</p> <p>Where multiparty control for logical access is required, at least one of the participants is an administrator. All participants must serve in a trusted role as defined in Section 5.2.1 (Trusted Roles).</p> <p>Multiparty control for logical access are not achieved using personnel that serve in the Auditor Trusted Role.</p> <p>HSM Administrators uses HSM Smartcards for authentication. The HSM itself enforces dual control based on the HSM smartcards for the different functions.</p> <p>The number of needed HSMsmartcards (m) of the total number of produced HSM-smartcards (n) will be:</p> <p>(a) Key generation = 3 of 6 (b) Signing key activation = 3 of 8 (c) Private key backup and restore = 3 of 6</p> <p>End-user certificate issuance requires the approval of at least two persons. End-user Certificate revocation requires the approval of at least two persons. Registration and Customer Services : Responsible Employees responsible for routine certification services such as customer services, document control, processes relating to certificate registration, generation and revocation. These employees are trusted roles. They access the RA system using a smart card and a PIN code.</p> |
| Network Security | NEED section number(s) of the CP/CPS dealing with Network Security. | <p>Section 6.8 of the CP/CPS:</p> <p>6.8 Network security controls TN PKI's CA system is connected to one internal network and is protected by firewalls, a Demilitarized Zone (DMZ) and Network Address Translation for all internal IP addresses. TN PKI's customer support and vetting workstations are also protected by firewall(s) and only use internal IP addresses. Root and intermediate CAs Keys are kept offline and brought online only when necessary to sign certificate-issuing subordinate CAs or periodic CRLs. Firewalls and boundary control devices are configured to allow access only by the addresses, ports, protocols and commands required for the trustworthy provision of PKI services by such systems. It is TN PKI's security policy to block all ports and protocols and open only necessary ports to enable CA functions. All CA equipment is configured with a minimum number of services and all unused network ports and services are disabled. All firewall configurations and changes thereto are documented, authorized, tested and implemented in accordance with change management procedures. TN PKI's network configuration is available for review on-site by its auditors and consultants under an appropriate non-disclosure agreement.</p> |

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| Root Case Record # 3 | |
| Root Case Information | |
| Root Certificate Name | TnTrust Gov CA |
| Request Status | Initial Request Received |
| Certificate Data | |
| Certificate Issuer Commun Name | TnTrust Gov CA |
| O From Issuer Field | National Digital Certification Agency |
| OU From Issuer Field | |
| Valid From | 2016 Nov 29 |
| Valid To | 2026 Nov 29 |
| Certificate Serial Number | 36716fa436ecc2d2 |
| Subject | CN = TnTrust Gov CA, O = National Digital Certification Agency, L = Tunis, C = TN |
| Signature Hash Algorithm | Sha256WithRSAEncryption |
| Public Key Algorithm | RSA 3072 bits |
| SHA1 Fingerprint | A1:6B:C7:76:BE:65:1E:5E:1A:A1:09:D7:E1:42:6E:F0:42:59:B2:C4 |

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| SHA-256 Fingerprint | 55:17:5F:1C:24:C2:58:0E:0C:29:4B:9B:BE:86:D0:AE:C0:9B:43:B8:62:AF:B3:EC:81:27:06:1A:CC:E7:FB:06 | |
| Certificate Fingerprint | a16bc776be651e5e1aa109d7e1426ef04259b2c4 | |
| Certificate Version | 3 | |
| Technical Information about Root Certificate | | |
| Certificate Summary | Need Response From CA | The TnTrust Gov CA is an issuing CA. This CA issue these profiles fo certificates: <ul style="list-style-type: none"> • OV SSL • EV SSL • OV Code Signing • EV Code Signing • VPN • Timestamping |
| Root Certificate Download URL | Need Response From CA | http://crl.certification.tn/tunisiagovca.crl |
| CRL URL(s) | Need Response From CA | http://crl.certification.tn/titrustgovca.crl |
| OCSP URL(s) | Need Response From CA | http://va.certification.tn |
| Mozilla Trust Bits | Need Response From CA | Email, websites |
| SSL Validation Type | Need Response From CA | OV; EV |
| Mozilla EV Policy OID(s) | Need Response From CA | 2.16.788.1.2.6.1.9.1.2 |
| Root Stores Included In | Need Response From CA | The Tunisian National Root CA is not yet included in Microsoft root store. An application has been submitted and the CA is waiting for the response. |
| Mozilla Applied Constraints | Need Response From CA | No constraints |
| Test Websites or Example Cert | | |
| Test Website - valid | Need Response From CA | <ul style="list-style-type: none"> • OV certificate: https://valid-gov-ov.certification.tn • EV certificate: https://valid-gov-ev.certification.tn |
| Test website Expired | Need Response From CA | <ul style="list-style-type: none"> • OV certificate: https://expired-gov-ov.certification.tn • EV certificate: https://expired-gov-ev.certification.tn |
| Test website - revoked | Need Response From CA | <ul style="list-style-type: none"> • OV certificate: https://revoked-gov-ov.certification.tn • EV certificate: https://revoked-gov-ev.certification.tn |
| Test notes | NEED: - If requesting Websites trust bit provide 3 URLs to 3 test websites (valid, expired, revoked) whose TLS/SSL cert chains up to this root. - If only requesting the Email trust bit, then attach an example S/MIME cert to the bug. | |
| Test results (When Requesting the SSL/TLS Trust Bit) | | |
| Revocation Tested | NEED: Test with http://certificate.revocationcheck.com/ make sure there aren't any errors. | <p>I have checked with the http://certificate.revocationcheck.com/ the URL of this web site : https://valid-gov-ev.certification.tn and there are two inexplicable errors :</p> <p>http://crl.certification.tn/tunrootca.crl</p> <p>CRL information Source: CRL Distribution Point listed in Certificate Location: http://crl.certification.tn/tunrootca.crl Size: 750 bytes (DER data) Response time: 370.602217ms This update: Nov 8, 2017 11:37:03 AM Next update: Nov 8, 2018 11:37:03 AM Revoked: No Revoked certificates in CRL: 0</p> <p>Relevant server response headers Date: Nov 20, 2017 2:32:35 PM Last Modified: Nov 8, 2017 1:47:02 PM Expires: Jan 1, 1 1:00:00 AM</p> |

Server and network information

Server Software: Apache

- Content-Type in response is set to 'application/pkix-crl (RFC 5280, section 4.2.1.13)
- This CRL file is DER encoded
- Response is already valid
- Response is not expired
- ThisUpdate is more than seven days old, CRLs must be updated and reissued at least every seven days (Mozilla Maintenance Policy section 3)

⇒ This is a root CA CRL which have a validity of 365 days

<http://crl.certification.tn/tunisiagovca.crl>

CRL information

Source: CRL Distribution Point listed in Certificate

Location: <http://crl.certification.tn/tunisiagovca.crl>

Size: 740 bytes (DER data)

Response time: 391.794843ms

This update: Nov 8, 2017 11:38:33 AM

Next update: Nov 8, 2018 11:38:33 AM

Revoked: No

Revoked certificates in CRL: 0

Relevant server response headers

Date: Nov 20, 2017 2:48:01 PM

Last Modified: Nov 8, 2017 1:47:00 PM

Expires: Jan 1, 1 1:00:00 AM

Server and network information

Server Software: Apache

- Content-Type in response is set to 'application/pkix-crl (RFC 5280, section 4.2.1.13)
- This CRL file is DER encoded
- Response is already valid
- Response is not expired
- ThisUpdate is more than seven days old, CRLs must be updated and reissued at least every seven days (Mozilla Maintenance Policy section 3)

⇒ This is an intermediate CA CRL which have a validity of 365 days as mentioned in the CABForum Base line requirements section 4.9.7 CRL Issuance Frequency : « For the status of Subordinate CA Certificates:

The CA SHALL update and reissue CRLs at least (i) once every twelve months and (ii) within 24 hours after revoking a Subordinate CA Certificate, and the value of the nextUpdate field MUST NOT be more than twelve months beyond the value of the

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| | Mozilla's Root Store Policy | National Digital Certification Agency which indicates the authorization for their role as RA and clearly details the minimum requirements, processes and liabilities. • The registration process of any DRA must be provided by the National Digital Certification Agency. The latter has to audit and approve the process as meeting the quality requirements of this CP/CPS and therefore being equivalent to the registration process of the TN PKI RA. • The DRA must have an annual audit. All costs related to this audit are to be paid by the operator of the RA. Failure to pass the annual audit leads to the revocation of DRA privileges. » For the moment, the Tunisia National Root CA does not use external RAs. We have prepared a template of contract between NDCA and delegated RA. |
| Verification Policies and Pratices | | |
| Policy Documentation | NEED: Languages that the CP/CPS and other documents are provided in. | The CP/CPS is provided in English language. |
| CA Document Repository | | http://www.certification.tn/pub/CPCPS-TunisianNationalPKI.pdf |
| CP Doc Language | | English |
| CPS Doc Language | | English |
| Other Relevant Documents | | The relying parties agreement are made in French language. |
| Auditor Name | | Mr. Philippe Bouchet from the certification body LSTI |
| Auditor Website | | http://lsti-certification.fr |
| Auditor Qualifications | | LSTI has been accredited pursuant to the accreditation certificate of French Accreditation Body COFRAC with registration number 5-0546 in accordance with NF EN ISO/IEC 17065:2013 as a certification body for products, processes, and services in accordance with the Annex of the accreditation certificate and the ETSI EN 319 403. |
| Standard Audit | NEED: Audit statements meeting the requirements of Mozilla's Root Store Policy. | |
| Standard Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| Standard Audit Statement Date | | 21 march 2017 |
| BR Audit | NEED: If requesting Websites trust bit, then also need a BR audit as per Mozilla's Root Store Policy. | |
| BR Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| BR Audit Statement Date | | 21 march 2017 |
| EV SSL Audit | NEED: If requesting EV treatment, then also need an EV audit as per Mozilla's Root Store Policy. | |
| EV SSL Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| EV SSL Audit Statement Date | | 21 march 2017 |
| BR Commitment to Comply | NEED: If requesting Websites trust bit, need section in the CP/CPS that has the commitment to comply with the BRs as described in section 2.2 of the CA/Browser Forum's Baseline Requirements. | Tunisian National Root CA conform to the current version of the CA/Browser Forum (CABF) requirements including: • Guidelines for the Issuance and Management of Extended Validation (EV) Certificates, |

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| | | <ul style="list-style-type: none"> • Guidelines for the Issuance and Management of Extended Validation (EV) Code-Signing Certificates, and, • Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, Published at www.cabforum.org. In the event of any inconsistency between this document and those Requirement, those Requirements take precedence over this document |
| BR Self Assessment | NEED: If requesting Websites trust bit, attach BR Self Assessment (https://wiki.mozilla.org/CA/BR_SelfAssessment) to the Bugzilla Bug. | I have attached the BR Self Assessment two months ago. |
| SSL verification Procedures | NEED: if Websites trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the domain name to be included in the SSL/TLS cert. CP/CPS must clearly specify the procedures that the CA employs. Each documented procedure should state which subsection of BR section 3.2.2.4 it is complying with. | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; |

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| | | <ul style="list-style-type: none"> • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>EV SSL Verification Procedures</p> | <p>NEED: If EV verification is performed, then provide URLs and section/page number information pointing directly to the sections of the CP/CPS documents that pertain to EV and describe the procedures for verifying the ownership/control of the domain name, and the verification of identity, existence, and authority of the organization to request the EV certificate. The EV verification documentation must meet the requirements of the CA/Browser Forum's EV Guidelines, and must also provide information specific to the CA's operations.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three |

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| | | <p>months;</p> <ul style="list-style-type: none"> • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>Organization Verification Procedures</p> | <p>NEED: CP/CPS sections that describe identity and organization verification procedures for cert issuance.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or " postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. |

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| | | <ul style="list-style-type: none"> • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>Email Address Verification Procedures</p> | <p>NEED if Email trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the email address to be included in the cert.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |

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| Code Signing Subscriber Verification Pro | Mozilla is no longer accepting requests to enable the Code Signing trust bit. | Yes. We need to activate Code Signing trust bit. |
| Multi-factor Authentication | NEED section number of the CP/CPS that states that multifactor authentication is enforced for all accounts capable of directly causing certificate issuance. (reference section 6.5 of the BRs) | <p>Section 5.2.2 of the CP/CPS</p> <p>5.2.2 Number of persons required per task</p> <p>Two or more persons are required for TN PKI CAs for the following tasks:</p> <p>(a) CA key generation = Three (3) persons</p> <p>(b) CA signing key activation = Three (3) persons</p> <p>(c) CA private key backup = Three (3) persons</p> <p>Where multiparty control for logical access is required, at least one of the participants is an administrator. All participants must serve in a trusted role as defined in Section 5.2.1 (Trusted Roles).</p> <p>Multiparty control for logical access are not achieved using personnel that serve in the Auditor Trusted Role.</p> <p>HSM Administrators uses HSM Smartcards for authentication. The HSM itself enforces dual control based on the HSM smartcards for the different functions.</p> <p>The number of needed HSMsmartcards (m) of the total number of produced HSM-smartcards (n) will be:</p> <p>(a) Key generation = 3 of 6</p> <p>(b) Signing key activation = 3 of 8</p> <p>(c) Private key backup and restore = 3 of 6</p> <p>End-user certificate issuance requires the approval of at least two persons.</p> <p>End-user Certificate revocation requires the approval of at least two persons.</p> <p>Registration and Customer Services : Responsible Employees responsible for routine certification services such as customer services, document control, processes relating to certificate registration, generation and revocation. These employees are trusted roles. They access the RA system using a smart card and a PIN code .</p> |
| Network Security | NEED section number(s) of the CP/CPS dealing with Network Security. | <p>Section 6.8 of the CP/CPS:</p> <p>6.8 Network security controls TN PKI's CA system is connected to one internal network and is protected by firewalls, a Demilitarized Zone (DMZ) and Network Address Translation for all internal IP addresses. TN PKI's customer support and vetting workstations are also protected by firewall(s) and only use internal IP addresses. Root and intermediate CAs Keys are kept offline and brought online only when necessary to sign certificate-issuing subordinate CAs or periodic CRLs. Firewalls and boundary control devices are configured to allow access only by the addresses, ports, protocols and commands required for the trustworthy provision of PKI services by such systems. It is TN PKI's security policy to block all ports and protocols and open only necessary ports to enable CA functions. All CA equipment is configured with a minimum number of services and all unused network ports and services are disabled. All firewall configurations and changes thereto are documented, authorized, tested and implemented in accordance with change management procedures. TN PKI's network configuration is available for review on-site by its auditors and consultants under an appropriate non-disclosure agreement.</p> |

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| Root Case Record # 4 | | |
| Root Case Information | | |
| Root Certificate Name | Tunisia Corporate CA | |
| Request Status | Initial Request Received | |
| Certificate Data | | |
| Certificate Issuer Commun Name | Tunisia National Root CA | |
| O From Issuer Field | National Digital Certification Agency | |
| OU From Issuer Field | | |
| Valid From | 2016 Nov 29 | |
| Valid To | 2032 Feb 29 | |

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| Certificate Serial Number | 35d821ddca93b331 | |
| Subject | CN=Tunisia Corporate CA, OU=null, O=National Digital Certification Agency, C=TN | |
| Signature Hash Algorithm | Sha256WithRSAEncryption | |
| Public Key Algorithm | RSA 4096 bits | |
| SHA1 Fingerprint | EC:3C:48:68:3A:65:A9:A1:B3:64:2C:F3:D1:B1:1A:17:BC:52:D5:D6 | |
| SHA-256 Fingerprint | BB:79:2E:A9:FD:06:48:56:97:0A:F9:A7:25:8A:EE:A6:0D:7E:3A:22:44:7D:EE:EB:6A:EB:F3:E9:14:F2:FD:1A | |
| Certificate Fingerprint | ec3c48683a65a9a1b3642cf3d1b11a17bc52d5d6 | |
| Certificate Version | 3 | |
| Technical Information about Root Certificate | | |
| Certificate Summary | Need response from CA | <p>The Tunisia Corporate CA issue :</p> <ul style="list-style-type: none"> • CRL • OCSP Certificate • Certificate of issuing Authority. <p>There are two issuing authorities under this CA which are:</p> <ul style="list-style-type: none"> • TnTrust Corporate CA • TnTrust Qualified Corporate CA |
| Root Certificate Download URL | Need response from CA | http://crl.certification.tn/tunrootca.crl |
| CRL URL(s) | Need response from CA | http://crl.certification.tn/tunisiacorporateca.crl |
| OCSP URL(s) | Need response from CA | http://va.verification.tn |
| Mozilla Trust Bits | Need response from CA | Email, website |
| SSL Validation Type | Need response from CA | OV, EV |
| Mozilla EV Policy OID(s) | Need response from CA | 2.16.788.1.2.6.1.9.2.2 |
| Root Stores Included in | Need response from CA | The Tunisian National Root CA is not yet included in Microsoft root store. An application has been submitted and the CA is waiting for the response. |
| Mozilla Applied Constraints | Need response from CA | No constraints |
| Test Websites or Example Cert | | |
| Test Website - valid | | <p>The Tunisia Corporate CA is an intermediate CA which issue only :</p> <ul style="list-style-type: none"> • CRL • OCSP certificate • Issuing CAs certificates. |
| Test website Expired | | |
| Test website - revoked | | |
| Test notes | <p>NEED: - If requesting Websites trust bit provide 3 URLs to 3 test websites (valid, expired, revoked) whose TLS/SSL cert chains up to this root. - If only requesting the Email trust bit, then attach an example S/MIME cert to the bug.</p> | |
| Test Results (When Requesting the SSL/TLS trust Bit) | | |
| Revocation Tested | NEED: Test with http://certificate.revocationcheck.com/ make sure there aren't any errors. | <p>The Tunisia Corporate CA is an intermediate CA which issue only :</p> <ul style="list-style-type: none"> • CRL • OCSP certificate • Issuing CAs certificates. |
| CA/Browser Forum Lint Test | NEED: The CA MUST check that they are not issuing certificates that violate any of the CA/Browser Forum Baseline Requirements (BRs). BR Lint Test: https://github.com/awslabs/certlint | |
| Test Website Lint Test | NEED: The CA MUST check that they are not issuing certificates that violate any of the X.509 rules. X.509 Lint Test: https://github.com/kroeckx/x509lint | |
| EV Tested | NEED: If EV treatment is being requested, then provide successful output from EV Testing as described here https://wiki.mozilla.org/PSM:EV_Testing_Easy_Version | |
| CA Hierarchy Information | | |

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| CA Hierarchy | NEED: A description of the PKI hierarchy rooted at or otherwise associated with this root CA certificate. - List and/or describe all of the subordinate CAs that are signed by this root. - Identify which of the subordinate CAs are internally operated; e.g. list the subordinate CAs that operated by the CA organization associated with the root CA. For example, this might include subordinate CAs created to issue different classes or types of end entity certificates to the general public: Class 1 vs. class 2 certificates, qualified vs. non-qualified certificates, EV certificates vs. non-EV certificates, SSL certificates vs. email certificates, and so on. - It might also include subordinate CAs operated for the benefit of specific third parties. In this case note that we do not require that the CA submit a complete customer list; rather we are interested in the general type and nature of the third-party arrangements | The Tunisia Corporate CA is an intermediate CA. This CA issue two issuing CA: TnTrust Corporate CA: which issue these certificate profiles: <ul style="list-style-type: none"> • OV SSL • EV SSL • OV Code Signing • EV Code Signing • VPN • Timestamping TnTrust Qualified Corporate CA: <ul style="list-style-type: none"> • Qualified signature • Qualified Seal |
| Externally Operated SubCAs | NEED: - If this root has any subordinate CA certificates that are operated by external third parties, then provide the information listed in the Subordinate CA Checklist, https://wiki.mozilla.org/CA/Subordinate_CA_Checklist - If the CA functions as a super CA such their CA policies and auditing don't apply to the subordinate CAs, then those subordinate CAs must apply for inclusion themselves as separate trust anchors. | This CA has no subordinate CA certificates that are operated by external third parties. |
| Cross Signing | NEED: - List all other root certificates for which this root certificate has issued cross-signing certificates. - List all other root certificates that have issued crosssigning certificates for this root certificate. - If any such cross-signing relationships exist, it is important to note whether the cross-signing CAs' certificates are already included in the Mozilla root store or not. | There are not any other root certificates for witch this root certificate has issued cross-signing certificates. There are not any other root certificates that have issued crosssigning certificates for this root certificate. There are not any crosssigning relationships. |
| Technical Constraint on 3 rd party Issuer | NEED: CP/CPS documentation describing the technical and contractual controls over any 3rd party who may issue certs in this CA Hierarchy. This includes external RAs as well as External subCAs. References: - section 7.1.5 of the CA/Browser Forum's Baseline Requirements - Mozilla's Root Store Policy | Section 1.3.3 of the CP/CPS describes the technical and contractual controls over any 3rd party « Delegated Registration Authority (DRA) Delegated RAs have to abide by all the requirements of the TN PKI CP/CPS. DRAs may, however implement more restrictive practices based on their internal requirements. Any DRA operating under this CP/CPS must adhere to the following rules: <ul style="list-style-type: none"> • The DRA must have a contractual agreement with the National Digital Certification Agency which indicates the authorization for their role as RA and clearly details the minimum requirements, processes and liabilities. • The registration process of any DRA must be provided by the National Digital Certification Agency. The latter has to audit and approve the process as meeting the quality requirements of this CP/CPS and therefore being equivalent to the registration process of the TN PKI RA. • The DRA must have an annual audit. All costs related to this audit are to be paid by the operator of the RA. Failure to pass the annual audit leads to the revocation of DRA privileges. » For the moment, the Tunisia National Root CA does not use external RAs. We have prepared a template of contract between NDCA and delegated RA. |
| Verification Policies and Practices | | |
| Policy Documentation | NEED: Languages that the CP/CPS and other documents are provided in. | The CP/CPS is provided in English language. |
| CA Document Repository | | http://www.certification.tn/pub/CPCPS-TunisianNationalPKI.pdf |
| CP Doc Language | | English |
| CPS Doc Language | | English |
| Other Relevant Documents | | The relying parties agreement are made in French language. |
| Auditor Name | | Mr. Philippe Bouchet from the certification body LSTI |
| Auditor Website | | http://lsti-certification.fr |
| Auditor Qualifications | | LSTI has been accredited pursuant to the accreditation certificate of French Accreditation Body COFRAC with registration number 5-0546 in accordance with NF EN ISO/IEC 17065:2013 as a certification body for products, processes, and services in accordance with the Annex of the accreditation certificate and the ETSI EN 319 403. |
| Standard Audit | NEED: Audit statements meeting the requirements of Mozilla's Root Store | |

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| | Policy. | |
| Standard Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| Standard Audit Statement Date | | 21 march 2017 |
| BR Audit | NEED: If requesting Websites trust bit, then also need a BR audit as per Mozilla's Root Store Policy. | |
| BR Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| BR Audit Statement Date | | 21 march 2017 |
| EV SSL Audit | NEED: If requesting EV treatment, then also need an EV audit as per Mozilla's Root Store Policy. | |
| EV SSL Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| EV SSL Audit Statement Date | | 21 march 2017 |
| BR Commitment to Comply | NEED: If requesting Websites trust bit, need section in the CP/CPS that has the commitment to comply with the BRs as described in section 2.2 of the CA/Browser Forum's Baseline Requirements. | Tunisian National Root CA conform to the current version of the CA/Browser Forum (CABF) requirements including: <ul style="list-style-type: none"> • Guidelines for the Issuance and Management of Extended Validation (EV) Certificates, • Guidelines for the Issuance and Management of Extended Validation (EV) Code-Signing Certificates, and, • Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, Published at www.cabforum.org . In the event of any inconsistency between this document and those Requirement, those Requirements take precedence over this document |
| BR Self Assessment | NEED: If requesting Websites trust bit, attach BR Self Assessment (https://wiki.mozilla.org/CA/BR_SelfAssessment) to the Bugzilla Bug. | I have attached the BR Self Assessment two months ago. |
| SSL verification Procedures | NEED: if Websites trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the domain name to be included in the SSL/TLS cert. CP/CPS must clearly specify the procedures that the CA employs. Each documented procedure should state which subsection of BR section 3.2.2.4 it is complying with. | Section 3.2.2 of the CP/CPS 3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to: <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information |

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| | | <p>provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form.</p> <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or " postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| EV SSL Verification Procedures | NEED: If EV verification is performed, then provide URLs and section/page number information pointing directly to the sections of the CP/CPS documents that pertain to EV and describe the procedures for verifying the ownership/control of the domain name, and the verification of identity, existence, and authority of the organization to request the EV certificate. The EV verification documentation must meet the requirements of the CA/Browser Forum's EV Guidelines, and must also provide information specific to the CA's operations. | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with |

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| | | <p>handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form.</p> <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>Organization Verification Procedures</p> | <p>NEED: CP/CPS sections that describe identity and organization verification procedures for cert issuance.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy |

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| | | <p>of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form.</p> <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or " postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>Email Address Verification Procedures</p> | <p>NEED if Email trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the email address to be included in the cert.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to |

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| | | <p>obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form.</p> <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| Code Signing Subscriber Verification Pro | Mozilla is no longer accepting requests to enable the Code Signing trust bit. | Yes. We need to activate Code Signing trust bit. |
| Multi-factor Authentication | NEED section number of the CP/CPS that states that multifactor authentication is enforced for all accounts capable of directly causing certificate issuance. (reference section 6.5 of the BRs) | <p>Section 5.2.2 of the CP/CPS</p> <p>5.2.2 Number of persons required per task</p> <p>Two or more persons are required for TN PKI CAs for the following tasks:</p> <p>(a) CA key generation = Three (3) persons</p> <p>(b) CA signing key activation = Three (3) persons</p> <p>(c) CA private key backup = Three (3) persons</p> <p>Where multiparty control for logical access is required, at least one of the participants is an administrator. All participants must serve in a trusted role as defined in Section 5.2.1 (Trusted Roles).</p> <p>Multiparty control for logical access are not achieved using personnel that serve in the Auditor Trusted Role.</p> <p>HSM Administrators uses HSM Smartcards for authentication. The HSM itself enforces dual control based on the HSM smartcards for the different functions.</p> <p>The number of needed HSMsmartcards (m) of the total number of produced HSM-smartcards (n) will be:</p> <p>(a) Key generation = 3 of 6</p> <p>(b) Signing key activation = 3 of 8</p> <p>(c) Private key backup and restore = 3 of 6</p> <p>End-user certificate issuance requires the approval of at least two persons.</p> <p>End-user Certificate revocation requires the approval of at least two persons.</p> <p>Registration and Customer Services : Responsible Employees responsible for routine</p> |

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| | | certification services such as customer services, document control, processes relating to certificate registration, generation and revocation. These employees are trusted roles. They access the RA system using a smart card and a PIN code . |
| Network Security | NEED section number(s) of the CP/CPS dealing with Network Security. | Section 6.8 of the CP/CPS: 6.8 Network security controls TN PKI's CA system is connected to one internal network and is protected by firewalls, a Demilitarized Zone (DMZ) and Network Address Translation for all internal IP addresses. TN PKI's customer support and vetting workstations are also protected by firewall(s) and only use internal IP addresses. Root and intermediate CAs Keys are kept offline and brought online only when necessary to sign certificate-issuing subordinate CAs or periodic CRLs. Firewalls and boundary control devices are configured to allow access only by the addresses, ports, protocols and commands required for the trustworthy provision of PKI services by such systems. It is TN PKI's security policy to block all ports and protocols and open only necessary ports to enable CA functions. All CA equipment is configured with a minimum number of services and all unused network ports and services are disabled. All firewall configurations and changes thereto are documented, authorized, tested and implemented in accordance with change management procedures. TN PKI's network configuration is available for review on-site by its auditors and consultants under an appropriate non-disclosure agreement. |

Root Case Record # 5

Root Case Information

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| Root Certificate Name | TnTrust Corporate CA |
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| Request Status | Initial Request Received |
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Certificate Data

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| Certificate Issuer Commun Name | TnTrust Corporate CA |
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| O From Issuer Field | National Digital Certification Agency |
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| OU From Issuer Field | |
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| Valid From | 2016 Nov 29 |
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| Valid To | 2026 Nov 29 |
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| Certificate Serial Number | 1aecc618f3d38cd1 |
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| Subject | CN = TnTrust Corporate CA, O = National Digital Certification Agency, L = Tunis, C = TN |
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| Signature Hash Algorithm | Sha256WithRSAEncryption |
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| Public Key Algorithm | RSA 3072 bits |
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| SHA1 Fingerprint | 20:7E:3A:5E:F4:39:A2:99:AD:28:D2:C3:5A:F2:AD:4B:46:A5:9E:12 |
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| SHA-256 Fingerprint | E7:4C:45:28:58:B8:AD:40:E3:6E:EF:17:B1:9E:E7:1E:65:55:B3:1D:47:76:58:E4:08:42:5C:D6:C8:E7:31:AF |
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| Certificate Fingerprint | 207e3a5ef439a299ad28d2c35af2ad4b46a59e12 |
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| Certificate Version | 3 |
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Technical Information about Root Certificate

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| Certificate Summary | Need Response From CA | The TnTrust Corporate CA is an issuing CA. This CA issue these profiles fo certificates: <ul style="list-style-type: none"> • OV SSL • EV SSL • OV Code Signing • EV Code Signing • VPN • Timestamping |
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| Root Certificate Download URL | Need Response From CA | http://crl.certification.tn/tunisiacorporateca.crl |
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| CRL URL(s) | Need Response From CA | http://crl.certification.tn/tntruscorporateca.crl |
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| OCSP URL(s) | Need Response From CA | http://va.certification.tn |
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| Mozilla Trust Bits | Need Response From CA | Emai, websites |
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| SSL Validation Type | Need Response From CA | OV; EV |
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| Mozilla EV Policy OID(s) | Need Response From CA | 2.16.788.1.2.6.1.9.2.2 |
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| Root Stores Included In | Need Response From CA | The Tunisian National Root CA is not yet included in Microsoft root store. An application has been submitted and the CA is waiting for the response. |
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| Mozilla Applied Constraints | Need Response From CA | No constraints |
| Test Websites or Example Cert | | |
| Test Website - valid | Need Response From CA | <ul style="list-style-type: none"> • OV certificate: https://valid-corp-ov.certification.tn • EV certificate: https://valid-corp-ev.certification.tn |
| Test website Expired | Need Response From CA | <ul style="list-style-type: none"> • OV certificate: https://expired-corp-ov.certification.tn • EV certificate: https://expired-corp-ev.certification.tn |
| Test website - revoked | Need Response From CA | <ul style="list-style-type: none"> • OV certificate: https://revoked-corp-ov.certification.tn • EV certificate: https://revoked-corp-ev.certification.tn |
| Test notes | NEED: - If requesting Websites trust bit provide 3 URLs to 3 test websites (valid, expired, revoked) whose TLS/SSL cert chains up to this root. - If only requesting the Email trust bit, then attach an example S/MIME cert to the bug. | |
| Test results (When Requesting the SSL/TLS Trust Bit) | | |
| Revocation Tested | NEED: Test with http://certificate.revocationcheck.com/ make sure there aren't any errors. | <p>I have checked with the http://certificate.revocationcheck.com/ the URL of this web site : https://valid-corp-ev.certification.tn and there two inexplicable errors :</p> <p>http://crl.certification.tn/tunrootca.crl</p> <p><i>CRL information</i> Source: CRL Distribution Point listed in Certificate Location: http://crl.certification.tn/tunrootca.crl Size: 750 bytes (DER data) Response time: 342.854827ms This update: Nov 8, 2017 11:37:03 AM Next update: Nov 8, 2018 11:37:03 AM Revoked: No Revoked certificates in CRL: 0</p> <p><i>Relevant server response headers</i> Date: Nov 20, 2017 2:32:35 PM Last Modified: Nov 8, 2017 1:47:02 PM Expires: Jan 1, 1 1:00:00 AM</p> <p><i>Server and network information</i> Server Software: Apache</p> <ul style="list-style-type: none"> • Content-Type in response is set to 'application/pkix-crl (RFC 5280, section 4.2.1.13)' • This CRL file is DER encoded • Response is already valid • Response is not expired • ThisUpdate is more than seven days old, CRLs must be updated and reissued at least every seven days (Mozilla Maintenance Policy section 3) <p>⇒ → This is a root CA CRL which have a validity of 365 days as mentioned in the CABForum Base line requirements section 4.9.7 CRL Issuance Frequency : « For the status of Subordinate CA Certificates:</p> <p>The CA SHALL update and reissue CRLs at least (i) once every twelve months and (ii) within 24 hours after revoking a Subordinate CA Certificate, and the value of the nextUpdate field MUST NOT be more than twelve months beyond the value of</p> |

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| | | <p>the thisUpdate field. »</p> <p>-----</p> <p>http://crl.certification.tn/tunisiacorporateca.crl</p> <p>CRL information Source: CRL Distribution Point listed in Certificate Location: http://crl.certification.tn/tunisiacorporateca.crl Size: 746 bytes (DER data) Response time: 325.925883ms This update: Nov 8, 2017 11:39:57 AM Next update: Nov 8, 2018 11:39:57 AM Revoked: No Revoked certificates in CRL: 0</p> <p>Relevant server response headers Date: Nov 20, 2017 2:32:35 PM Last Modified: Nov 8, 2017 1:46:59 PM Expires: Jan 1, 1 1:00:00 AM</p> <p>Server and network information Server Software: Apache</p> <ul style="list-style-type: none"> • Content-Type in response is set to 'application/pkix-crl (RFC 5280, section 4.2.1.13)' • This CRL file is DER encoded • Response is already valid • Response is not expired • ThisUpdate is more than seven days old, CRLs must be updated and reissued at least every seven days (Mozilla Maintenance Policy section 3) <p>⇒ This is an intermediate CA CRL which have a validity of 365 days as mentioned in the CABForum Base line requirements section 4.9.7 CRL Issuance Frequency : « For the status of Subordinate CA Certificates:</p> <p>The CA SHALL update and reissue CRLs at least (i) once every twelve months and (ii) within 24 hours after revoking a Subordinate CA Certificate, and the value of the nextUpdate field MUST NOT be more than twelve months beyond the value of the thisUpdate field. »</p> <p>-----</p> |
| CA/Browser Forum Lint Test | NEED: The CA MUST check that they are not issuing certificates that violate any of the CA/Browser Forum Baseline Requirements (BRs). BR Lint Test: https://github.com/awslabs/certlint | I checked that the TnTrust Corporate CA does not issue certificates that violate any of the CA/Browser Forum. |
| Test Website Lint Test | NEED: The CA MUST check that they are not issuing certificates that violate any of the X.509 rules. X.509 Lint Test: https://github.com/kroeckx/x509lint | I checked that TnTrust Corporate CA does not issue certificates that violate any of the X.509 rules. |
| EV Tested | NEED: If EV treatment is being requested, then provide successful output from EV Testing as described here https://wiki.mozilla.org/PSM:EV_Testing_Easy_Version | I checked the URL https://tls-observatory.services.mozilla.com/static/ev-checker.html with these parameters: TLS Server : https://valid-corp-ev.certification.tn |

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| | | <p>EV Policy OID : 2.16.788.1.2.6.1.9.2.2</p> <p>I have this error message : « ev-checker reported failure: ev-checker did not exit successfully. exit status 1, Stderr: GetFirstEVPolicyForCert failed: SEC_ERROR_EXTENSION_NOT_FOUND This may mean that the specified EV Policy OID was not found in the end-entity certificate.»</p> <p>But the certificate of https://valid-corp-ev.certification.tn contains the policy OID 2.16.788.1.2.6.1.9.2.2 and is issued by an issuing CA.</p> |
| CA Hierarchy Information | | |
| CA Hierarchy | <p>NEED: A description of the PKI hierarchy rooted at or otherwise associated with this root CA certificate.</p> <p>- List and/or describe all of the subordinate CAs that are signed by this root. - Identify which of the subordinate CAs are internally operated; e.g. list the subordinate CAs that operated by the CA organization associated with the root CA. For example, this might include subordinate CAs created to issue different classes or types of end entity certificates to the general public: Class 1 vs. class 2 certificates, qualified vs. non-qualified certificates, EV certificates vs. non-EV certificates, SSL certificates vs. email certificates, and so on. - It might also include subordinate CAs operated for the benefit of specific third parties. In this case note that we do not require that the CA submit a complete customer list; rather we are interested in the general type and nature of the third-party arrangements</p> | <p>The TnTrust Corporate CA is an issuing CA. this CA issue these types of certificate profiles:</p> <ul style="list-style-type: none"> • OV SSL • EV SSL • OV Code Signing • EV Code Signing • VPN • Timestamping |
| Externally Operated SubCAs | <p>NEED: - If this root has any subordinate CA certificates that are operated by external third parties, then provide the information listed in the Subordinate CA Checklist, https://wiki.mozilla.org/CA/Subordinate_CA_Checklist - If the CA functions as a super CA such their CA policies and auditing don't apply to the subordinate CAs, then those subordinate CAs must apply for inclusion themselves as separate trust anchors.</p> | <p>This CA has no subordinate CA certificates that are operated by external third parties.</p> |
| Cross Signing | <p>NEED: List all other root certificates for which this root certificate has issued crosssigning certificates. - List all other root certificates that have issued crosssigning certificates for this root certificate. If any such crosssigning relationships exist, it is important to note whether the crosssigning CAs' certificates are already included in the Mozilla root store or not.</p> | <p>There are not any other root certificates for witch this root certificate has issued crosssigning certificates.</p> <p>There are not any other root certificates that have issued crosssigning certificates for this root certificate.</p> <p>There are not any crosssigning relationships.</p> |
| Technical Constraint on 3 rd party Issuer | <p>NEED: CP/CPS documentation describing the technical and contractual controls over any 3rd party who may issue certs in this CA Hierarchy. This includes external RAs as well as External subCAs. References: - section 7.1.5 of the CA/Browser Forum's Baseline Requirements - Mozilla's Root Store Policy</p> | <p>Section 1.3.3 of the CP/CPS describes the technical and contractual controls over any 3rd party « Delegated Registration Authority (DRA) Delegated RAs have to abide by all the requirements of the TN PKI CP/CPS. DRAs may, however implement more restrictive practices based on their internal requirements. Any DRA operating under this CP/CPS must adhere to the following rules:</p> <ul style="list-style-type: none"> • The DRA must have a contractual agreement with the National Digital Certification Agency which indicates the authorization for their role as RA and clearly details the minimum requirements, processes and liabilities. • The registration process of any DRA must be provided by the National Digital Certification Agency. The latter has to audit and approve the process as meeting the quality requirements of this CP/CPS and therefore being equivalent to the registration process of the TN PKI RA. • The DRA must have an annual audit. All costs related to this audit are to be paid by the operator of the RA. Failure to pass the annual audit leads to the revocation of DRA privileges. » <p>For the moment, the Tunisia National Root CA does not use external RAs. We have prepared a template of contract between NDCA and delegated RA.</p> |
| Verification Policies and Pratiques | | |
| Policy Documentation | <p>NEED: Languages that the CP/CPS and other documents are provided in.</p> | <p>The CP/CPS is provided in English language.</p> |

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| CA Document Repository | | http://www.certification.tn/pub/CPCPS-TunisianNationalPKI.pdf |
| CP Doc Language | | English |
| CPS Doc Language | | English |
| Other Relevant Documents | | The relying parties agreement are made in French language. |
| Auditor Name | | Mr. Philippe Bouchet from the certification body LSTI |
| Auditor Website | | http://lsti-certification.fr |
| Auditor Qualifications | | LSTI has been accredited pursuant to the accreditation certificate of French Accreditation Body COFRAC with registration number 5-0546 in accordance with NF EN ISO/IEC 17065:2013 as a certification body for products, processes, and services in accordance with the Annex of the accreditation certificate and the ETSI EN 319 403. |
| Standard Audit | NEED: Audit statements meeting the requirements of Mozilla's Root Store Policy. | |
| Standard Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| Standard Audit Statement Date | | 21 march 2017 |
| BR Audit | NEED: If requesting Websites trust bit, then also need a BR audit as per Mozilla's Root Store Policy. | |
| BR Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| BR Audit Statement Date | | 21 march 2017 |
| EV SSL Audit | NEED: If requesting EV treatment, then also need an EV audit as per Mozilla's Root Store Policy. | |
| EV SSL Audit Type | | EN 319 411 -1 V1.1.1: Electronic signatures and infrastructures (ESI) - Policy and security requirements applicable to trust service providers issuing certificates - Part 1: General requirements EN 319 411-2 V2.1.1: Electronic Signatures and Infrastructures (ESI); Policy and security requirements for Trust Service Providers issuing certificates ; Part 2: Requirements for trust service providers issuing EU qualified certificate |
| EV SSL Audit Statement Date | | 21 march 2017 |
| BR Commitment to Comply | NEED: If requesting Websites trust bit, need section in the CP/CPS that has the commitment to comply with the BRs as described in section 2.2 of the CA/Browser Forum's Baseline Requirements. | Tunisian National Root CA conform to the current version of the CA/Browser Forum (CABF) requirements including: <ul style="list-style-type: none"> • Guidelines for the Issuance and Management of Extended Validation (EV) Certificates, • Guidelines for the Issuance and Management of Extended Validation (EV) Code-Signing Certificates, and, • Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates, Published at www.cabforum.org . In the event of any inconsistency between this document and those Requirement, those Requirements take precedence over this document |
| BR Self Assessment | NEED: If requesting Websites trust bit, attach BR Self Assessment (https://wiki.mozilla.org/CA/BR_SelfAssessment) to the Bugzilla Bug. | I have attached the BR Self Assessment two months ago. |
| SSL verification Procedures | NEED: if Websites trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the domain name to be included in the SSL/TLS cert. CP/CPS must clearly specify the procedures that the CA employs. | Section 3.2.2 of the CP/CPS 3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are |

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| | <p>Each documented procedure should state which subsection of BR section 3.2.2.4 it is complying with.</p> | <p>adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", "Hostmaster", or "postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>EV SSL Verification Procedures</p> | <p>NEED: If EV verification is performed, then provide URLs and section/page number information pointing directly to the sections of the CP/CPS documents that pertain to EV and describe the procedures for verifying the ownership/control of the domain name, and the verification of identity, existence, and authority of the organization to request the EV certificate. The EV verification documentation</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. |

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| | <p>must meet the requirements of the CA/Browser Forum's EV Guidelines, and must also provide information specific to the CA's operations.</p> | <ul style="list-style-type: none"> • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or " postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| <p>Organization Verification Procedures</p> | <p>NEED: CP/CPS sections that describe identity and organization verification procedures for cert issuance.</p> | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of |

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| | | <p>its name.</p> <ul style="list-style-type: none"> • To validate the name of the organization, the requester provides official documentation about the organization. • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or " postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| Email Address Verification Procedures | NEED if Email trust bit requested... Sections of CP/CPS that sufficiently describe the verification steps that are taken to confirm the ownership/control of the email address to be included in the cert. | <p>Section 3.2.2 of the CP/CPS</p> <p>3.2.2 Authentication of organization identity The DN of a certificate issued by one of the issuing CAs of TN PKI may contain one instance of the organization field. Should the requester decide to make the organization field part of the DN, the following rules are adhered to:</p> <ul style="list-style-type: none"> • The use of the organization field means that the use of the country field is mandatory. • The registration process of any registration authority operating under this CP/CPS contains provisions to determine the identity of an organization and to authorize the use of its name. • To validate the name of the organization, the requester provides official documentation |

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| | | <p>about the organization.</p> <ul style="list-style-type: none"> • The use of the organization's name is authorized by one or more legal representatives of the organization, and handwritten personal signatures is included on the registration form. • The use of a domain name in a FQDN is authorized by the domain owner or its representatives. The domain owner may be determined through the WHOIS information provided by the domain registrar. Should an organization be listed as the domain owner, authorization is given by one or more legal representatives of the organization with handwritten personal signatures on the registration form. Should an individual be listed as the owner, this individual personally signs the registration form. The RA will create a copy of all required supporting documentation. Alternatively and only if an organization name is present in the certificate subject, domain validation according to section 3.1 may be used to obtain authorization of the use of the domain name in a FQDN. In this case the handwritten signatures of the authorization of the organizational name are the only authorization signatures required on the registration form. <p>In addition, the TN PKI RA:</p> <ul style="list-style-type: none"> • Determines that the Organization exists by using at least one third party identity proofing service or database, or alternatively, organizational documentation issued by or filed with the applicable government that confirms the existence of the organization, and • Uses information contained in the business records or databases of business information (employee or customer directories) of an RA approving certificates to its own affiliated individuals or confirms by telephone, confirmatory postal mail, or comparable procedure to the organization, the employment with the Organization of the individual submitting the Certificate Application and, when appropriate, his/her authority to act on behalf of the Organization. <p>NDCA have also internal procedures that are guidelines for the operators to for validating the Applicant's ownership or control of the domain:</p> <ul style="list-style-type: none"> • The FQDN of the server to be used in the certificate; • The name and surname of the CHN; • The personal identification data of the RCS as well as the legal representative including a valid official document of identity, including a photograph of identity; • Information enabling the RA to contact the RCS (telephone number, e-mail, etc.). At a minimum, an e-mail address as contained in the WHOIS must be used. If this is not the case, then the e-mail address must be confirmed from the e-mail address in the WHOIS or in the form "admin", "administrator", "webmaster", " Hostmaster ", or" postmaster "@ the name of the requested domain; • The General Conditions of Use (GTC) signed by the legal representative; • An official extract from the trade register of the organization dating no longer than three months; • A certificate of non-bankruptcy for private organizations. • The CSR for the public key to be signed. • A power of attorney for requests of certificates filed by an agent. |
| Code Signing Subscriber Verification Pro | Mozilla is no longer accepting requests to enable the Code Signing trust bit. | Yes. We need to activate Code Signing trust bit. |
| Multi-factor Authentication | NEED section number of the CP/CPS that states that multifactor authentication is enforced for all accounts capable of directly causing certificate issuance. (reference section 6.5 of the BRs) | <p>Section 5.2.2 of the CP/CPS</p> <p>5.2.2 Number of persons required per task</p> <p>Two or more persons are required for TN PKI CAs for the following tasks:</p> <p>(a) CA key generation = Three (3) persons</p> <p>(b) CA signing key activation = Three (3) persons</p> <p>(c) CA private key backup = Three (3) persons</p> <p>Where multiparty control for logical access is required, at least one of the participants is an administrator. All participants must serve in a trusted role as defined in Section 5.2.1 (Trusted Roles).</p> <p>Multiparty control for logical access are not achieved using personnel that serve in the</p> |

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| | | <p>Auditor Trusted Role. HSM Administrators uses HSM Smartcards for authentication. The HSM itself enforces dual control based on the HSM smartcards for the different functions. The number of needed HSMsmartcards (m) of the total number of produced HSM-smartcards (n) will be: (a) Key generation = 3 of 6 (b) Signing key activation = 3 of 8 (c) Private key backup and restore = 3 of 6 End-user certificate issuance requires the approval of at least two persons. End-user Certificate revocation requires the approval of at least two persons. Registration and Customer Services : Responsible Employees responsible for routine certification services such as customer services, document control, processes relating to certificate registration, generation and revocation. These employees are trusted roles. They access the RA system using a smart card and a PIN code.</p> |
| Network Security | NEED section number(s) of the CP/CPS dealing with Network Security. | <p>Section 6.8 of the CP/CPS: 6.8 Network security controls TN PKI's CA system is connected to one internal network and is protected by firewalls, a Demilitarized Zone (DMZ) and Network Address Translation for all internal IP addresses. TN PKI's customer support and vetting workstations are also protected by firewall(s) and only use internal IP addresses. Root and intermediate CAs Keys are kept offline and brought online only when necessary to sign certificate-issuing subordinate CAs or periodic CRLs. Firewalls and boundary control devices are configured to allow access only by the addresses, ports, protocols and commands required for the trustworthy provision of PKI services by such systems. It is TN PKI's security policy to block all ports and protocols and open only necessary ports to enable CA functions. All CA equipment is configured with a minimum number of services and all unused network ports and services are disabled. All firewall configurations and changes thereto are documented, authorized, tested and implemented in accordance with change management procedures. TN PKI's network configuration is available for review on-site by its auditors and consultants under an appropriate non-disclosure agreement.</p> |