

Bugzilla ID: 562763

Bugzilla Summary: Add SafeScript root certificate

CAs wishing to have their certificates included in Mozilla products must comply with the requirements of the Mozilla CA certificate policy (<http://www.mozilla.org/projects/security/certs/policy/>) and must supply the information necessary to determine whether or not the policy's requirements have been satisfied, as per http://wiki.mozilla.org/CA:Information_checklist.

CA's are also encouraged to review the Recommended Practices at https://wiki.mozilla.org/CA:Recommended_Practices.

General Information	Data
CA Name	SafeScript (Sify)
Website URL	http://www.safescrypt.com/
Organizational type	Private
Primary market / customer base	Sify Communications Data Security Solutions primary focus is on providing Digital Trust Services and high-end solutions – that help businesses migrate to an environment that is secure and enables compliance with Legal and Regulatory requirements for true, end-to-end electronic transactions and overall E-Business. Sify Communications is also India's first intermediate CA under the IT Act 2000 and a VeriSign Affiliate for the Indian Subcontinent offering Managed PKI services to enterprises and Digital Certificates to end-users as well Sify primarily serves Government, Semi-Government, and Private organizations in India.
CA Contact Information	CA Email Alias: practices@safescrypt.com CA Phone Number: 91-044-22540770 Title / Department: Certificate Practices

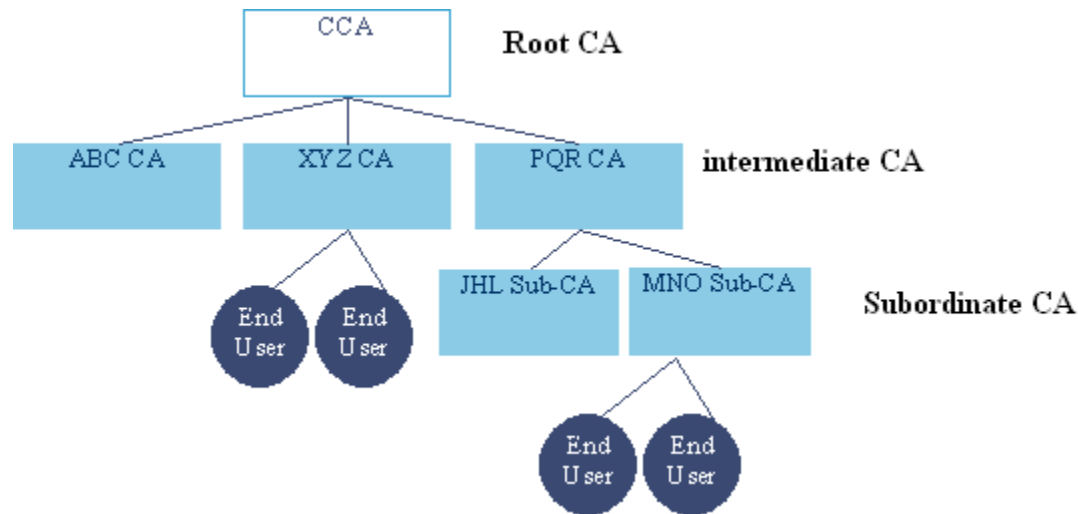
SafeScript has 3 sub-CAs that are signed by the “CCA India 2007” root certificate. CCA submitted a request for inclusion of the root certificate in bug #557167. Upon reviewing the request it was determined that the size and complexity of the hierarchy was such that each sub-CA would need to be separately evaluated. https://bugzilla.mozilla.org/show_bug.cgi?id=557167#c16

CPS Section 1.0.2.2: The SafeScript India-RCAI Public Hierarchy refers to that CA hierarchy from SafeScript that is cross certified with the Root CA Authority of India (RCAI). This root is envisaged to serve as the basis for cross-certification amongst various licensed CA's in India for consumer applications. Under this hierarchy, the following Classes of Certificates are available:

- India-RCAI Class 1
 - This Class 1 CA root certificate is not activated, and it has not signed any sub-CAs or end-entity certificates. SafeScript is not requesting inclusion of this root at this time.
- India-RCAI Class 2
- India-RCAI Class 3

	Safescript India-RCAI Class 2 CA-G2	Safescript India-RCAI Class 3 CA-G2
Cert summary	This Class 2 CA has signed 10 subCAs, which sign end-entity certs. Certificates signed by this CA are issued to individuals, including members of the general public.	This Class 3 CA and has signed one subCA, which signs end-entity certs. Certificates signed by this CA are issued to: <ul style="list-style-type: none"> • Individuals, including members of the general public. • Individuals serving in the role of Administrator (Trusted Persons who perform Certificate or certification service management functions on behalf of SafeScript, Managed PKI Customers, or trusted fourth parties). • Organizations that control a device include, but are not limited to: Web servers or web traffic management devices (Secure Server IDs and Global Server IDs), Electronic Data Interchange servers, OFX servers, Devices digitally signing code or other content. • Organizations that control multiple web servers, for which Managed PKI Administrator of such organization approve the issuance of Secure Server IDs and/or Global Server IDs.
Root Cert URL	http://cca.gov.in/rw/pages/download_certificate.en.do?id=Safescript%20India-RCAI%20Class%20%20CA-G2&year=2007	http://cca.gov.in/rw/pages/download_certificate.en.do?id=Safescript%20India-RCAI%20Class%203%20CA-G2&year=2007
SHA-1 fingerprint	5D:04:0E:E7:FB:6D:C0:BC:01:58:B6:F2:9E:4B:C0:45:D4:18:A6:87	D3:79:BB:52:95:6D:6E:51:38:D2:25:4D:92:5E:48:2A:1C:4B:8E:C F
Valid from	2007-07-09	2007-07-09
Valid to	2015-07-03	2015-07-03
Cert Version	3	3
Modulus length	2048	2048
Test Cert	Safescript RCAI Class 2 Consumer Individual Subscriber CA: https://bugzilla.mozilla.org/attachment.cgi?id=452773 RCAI Class 2 End-Entity test cert: https://bugzilla.mozilla.org/attachment.cgi?id=452774	Safescript India-RCAI Class 3 Consumer CA https://bugzilla.mozilla.org/attachment.cgi?id=452780 RCAI Class 3 End-Entity Test Cert: https://bugzilla.mozilla.org/attachment.cgi?id=452781
CRL URL	ARL: http://crl.safescript.com/RCAIClass2.crl CRL Distribution Point in test cert: http://onsitecrl.safescript.com/SafeScriptLimitedRCAIClass2RetailCertificateServices/LatestCRL.crl (NextUpdate: 24 hours)	ARL: http://crl.safescript.com/RCAIClass3.crl CRL Distribution Point in test cert: http://onsitecrl.safescript.com/SafeScriptLimitedIndiaRCAIClass3/LatestCRL.crl (NextUpdate: 24 hours)
OCSP Responder	http://ocsp.safescript.com	http://ocsp.safescript.com
SafeScript CA Hierarchy	“Safescript India-RCAI Class 2 CA-G2” has the following internally operated sub-CAs, which sign end-entity certificates for signing and encryption.	“Safescript India-RCAI Class 3 CA-G2” has the following internally operated sub-CA which signs end-entity certificates for signing and encryption:

	<ol style="list-style-type: none"> 1. BarclaysBankPLCCA validity: 15/05/2008 to 14/05/2013 2. CIIndiaCA validity: 29/09/2007 to 28/09/2012 3. ColumbiaAsiaHospitalsPvtLtdRCAIC2CA validity: 15/05/2008 to 14/05/2013 4. NSE.ITRCAIClass2CA validity: 31/03/2006 to 02/07/2014 5. tendertimes.comCA validity: 06/03/2007 to 02/07/2014 6. SafescryptEngineeringCA validity: 09/07/2007 to 08/08/2012 7. DGFTOnlineCA validity: 21/02/2003 to 04/07/2014 8. Safescrypt RCAI Class2 Consumer Individual Subscriber CA validity: 16/09/2005 to 19/05/2012 9. Safescrypt RCAI Class2 OnSite Individual Subscriber CA validity: 20/05/2005 to 19/05/2012 10. ContainerCorporationofIndiaLimitedCA validity: 01/03/2007 to 02/07/2014 	<ol style="list-style-type: none"> 1. Safescrypt India-RCAI Class 3 Consumer CA validity: 21/02/2003 to 03/07/2014
External subCAs	All the Sub-CAs are operated by Safescrypt.	All the Sub-CAs are operated by Safescrypt.
Cross-signing	None	None
Trust Bits	Email (S/MIME)	Email (S/MIME)
SSL Validation Type	N/A. Not requesting websites trust bit.	N/A. Not requesting websites trust bit.
EV policy OID	Not requesting EV enablement for this root.	Not requesting EV enablement for this root.
CCA CA Hierarchy	<p>In order to facilitate greater flexibility to Certifying Authorities, the CCA allowed the creation of subordinate-CAs. As per this model, an intermediate Certifying Authority can create a subordinate-CA to meet his business-branding requirement. However the subordinate-CA will be part of the same legal entity as the CA. It is also necessary that the subordinate-CA will be in the same infrastructure of intermediate CA.</p> <p>The CA model will be based on the following principles (effective from Jan 2011)</p> <ul style="list-style-type: none"> • The intermediate CAs MUST NOT have more than ONE level of subordinate -CAs • The subordinate-CA MUST use a subordinate-CA certificate issued by the intermediate CA for issuing end entity certificates • The subordinate-CA must necessarily use the intermediate-CAs infrastructure for issuing certificate • The subordinate-CAs operations shall be subject to same audit procedures as the intermediate CA • The certificate policies of the subordinate-CA must be same as of the intermediate CA's certificate policies 	



There are currently seven intermediate CAs under the Root CA of India. Though intermediate CAs have subordinate CA under that, they are all physically located in the same physical infrastructure of intermediate CAs. The subordinated CAs are allowed mainly for operational management. The intermediate CAs and its subordinate CAs have single CPS. The Audit is as per security guidelines mentioned in the Information Technology ACT. Strict measures are taken by Root CA to monitor the compliance of CPS, and recommendations specified in the Information Technology Act

Framework Diagram: <https://bugzilla.mozilla.org/attachment.cgi?id=436978>

CCA CP/CPS	Root CA CPS: http://cca.gov.in/rw/pages/rcai_cps.en.do Steps to become CA: http://cca.gov.in/rw/pages/becoming_ca_suppdoc.en.do FAQ : http://cca.gov.in/rw/pages/faqs.en.do CCA sub-CAs: http://cca.gov.in/rw/pages/ca_certificates_2007.en.do
SafeScrip CP/CPS	CPS (English): http://www.safescript.com/pdf/cps.pdf The CPS covers practices and procedures concerning the issuance and management of all Certificate Classes within each hierarchy of SafeScrip. Additional information provided by SafeScrip: https://bugzilla.mozilla.org/attachment.cgi?id=436984 CPS Section 1.9.3.2: The SafeScrip India-RCAI Public Hierarchy is based on the RCAI Certificate Policy (“RCAI CP”). More information concerning the RCAI CP is available at http://www.safescript.com/cp .

AUDIT	<p>Audit Type: WebTrust CA Equivalent Auditor: Qadit Systems Auditor Website: http://www.qadit.com Audit Equivalency Certificate: http://www.qadit.com/sify_safescrypt_certificate_2010.pdf (2010.03.15) Audit Equivalency Certificate also attached to bug: https://bugzilla.mozilla.org/attachment.cgi?id=450077</p> <p>CCA Approved Auditors List: http://cca.gov.in/rw/pages/auditors.en.do (Qadit Systems is included in this list.) CCA Audit Criteria: http://cca.gov.in/rw/pages/auditors_auditcriteria.en.do Information Technology Act: http://cca.gov.in/rw/pages/it_act.en.do Rules: http://cca.gov.in/rw/pages/rules.en.do Act Modification: http://cca.gov.in/rw/resource/actmod_nov02.pdf IT Act Regulations: http://cca.gov.in/rw/pages/regulations.en.do</p>
Organization Identity Verification	<p>See CPS sections 3.1.8 and 3.1.9 for procedures for authentication of the Organization Identity and Individual Identity.</p> <p>India-RCAI Class 1 Certificates: The Class 1 CA root certificate is not activated, it's inclusion in NSS is not being requested, and it has not signed any sub-CAs or end-entity certificates. SafeScript is not requesting inclusion of this root at this time.</p> <p>India-RCAI Class2 Certificates: They offer a medium level of assurances in comparison with the other two Classes in this hierarchy. Again, they are individual Certificates. In addition to the India-RCAI Class 1 validation procedures, India--RCAI Class 2 validation procedures add procedures based on a comparison of information submitted by the Certificate applicant against information in business records or databases or the database of a SafeScript-approved identity proofing service. SafeScript reserves the sole right to approve the database or record being used for this validation. They can be used for digital signatures, encryption, and access control, including as proof of identity in transactions. This class is suitable for most business-grade transactions</p> <p>India-RCAI Class 3 Certificates: This class of certificates provides the highest level of assurances within the India-RCAI hierarchy. India-RCAI Class 3 Certificates are issued to individuals, organizations, and Administrators for CAs and RAs. India-RCAI Class 3 individual Certificates may be used for digital signatures, encryption, and access control, including as proof of identity, in high-value transactions. India-RCAI Class 3 individual Certificates provide assurances of the identity of the Subscriber based on the personal (physical) presence of the Subscriber before a person (approved by SafeScript) that confirms the identity of the Subscriber using, at a minimum, a well-recognized form of government-issued identification and one other identification credential. SafeScript reserves the right to decide which specific forms of identification would be acceptable for validation. In the absence of a government-issued identification, SafeScript may prescribe alternate methods of validation.</p> <p>Other India-RCAI Class 3 organizational Certificates are issued to devices to provide authentication; message, software, and content integrity; and confidentiality encryption.</p> <p>India-RCAI Class 3 organizational Certificates provide assurances of the identity of the Subscriber based on a confirmation that the Subscriber organization does in fact exist, that the organization has authorized the Certificate Application, and that the person submitting the Certificate Application on behalf of the Subscriber was authorized to do so.</p>

Domain Name Ownership / Control	Not Applicable. Not requesting enablement of websites trust bit at this time.	
Email Address Ownership / Control	<p>Comment #13: We have some public facing document validation guide for our digital certificate to our end user. Here it is documented that the client will receive the Pin number and instructions to pick up the certificate.</p> <p>http://mcacert.safescrypt.com/pdf/Enrolment_Guide.pdf http://www.safescrypt.com/solutions_and_services/digital_certificate_services/individual_certificates/rcai_class_3_certificates_with_org_name_enroll_guide.html</p> <p>Please find the mail flow for digital certificate issuance.</p> <ul style="list-style-type: none"> ** Certificate applicant chooses to enroll for a particular certificate ** Completes the enrolment page with all mandatory details along with the Valid Email address of the applicant ** Once the enrollment is successful the client will receive a confirmation mail on successful enrollment ** Validation team will validate and issue/reject the enrollment. This information will be sent to the Applicant email id ** Once the request is approved client will get a mail with a Pin Number and the instructions on how to pickup the digital certificate <p>CPS Table 2 Application Verification:</p> <p>India-RCAI Class 1: Name and e-mail address search to ensure that the distinguished name is unique and unambiguous within the CA's Subdomain. (Note: Class 1 root is not being considered for inclusion)</p> <p>India-RCAI Class 2: Same as India-RCAI Class 1 Retail, plus automated or Administrator-initiated enrolment information check with one or more third-party databases or comparable sources.</p> <p>Same as India-RCAI Class 1 Managed PKI plus checking internal documentation or databases to confirm identity of the Certificate Applicant (e.g., human resources documentation).</p> <p>India-RCAI Class 3: Same as India-RCAI Class 1 Retail, plus personal presence and check of two or more ID credentials. Check of third-party database or other documentation showing proof of right to use the organizational name. Validation check by telephone (or comparable procedure) to confirm information in, and authorization of, the Certificate Application</p>	
Identity of Code Signing Subscriber	Not Applicable.	Not Applicable.
Potentially Problematic Practices	<p>http://wiki.mozilla.org/CA:Problematic_Practices</p> <ul style="list-style-type: none"> • Long-lived DV certificates <ul style="list-style-type: none"> ○ Not enabling websites trust bit. • Wildcard DV SSL certificates <ul style="list-style-type: none"> ○ Not enabling websites trust bit. • Delegation of Domain / Email validation to third parties <ul style="list-style-type: none"> ○ See email validation information above. • Issuing end entity certificates directly from roots <ul style="list-style-type: none"> ○ No. 	

- [Allowing external entities to operate unconstrained subordinate CAs](#)
 - No.
- [Distributing generated private keys in PKCS#12 files](#)
 - Comment #13: We are not generating any private key on behalf of customer. The key pair is generated at customer system.
- [Certificates referencing hostnames or private IP addresses](#)
 - Not enabling websites trust bit.
- [Issuing SSL Certificates for Internal Domains](#)
 - Not enabling websites trust bit.
- [OCSP Responses signed by a certificate under a different root](#)
 - Comment #13: We are not issuing digital certificate with OCSP url
- [CRL with critical CIDP Extension](#)
 - CRLs import into a Firefox browser without error.
- [Generic names for CAs](#)
 - Name includes Safescrypt.