

Mozilla - CA Program

Case Information

Case Number	00000045	Case Record Type	CA Owner/Root Inclusion Request
CA Owner/Certificate Name	Symantec / VeriSign	Request Status	Ready for Public Discussion

Additional Case Information

Subject	Enable EV for VeriSign ECC root	Case Reason	New Owner/Root inclusion requested
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Bugzilla Information

Link to Bugzilla Bug	https://bugzilla.mozilla.org/show_bug.cgi?id=833974
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General information about CA's associated organization

CA Email Alias 1	dl-eng-root-certificate-management@symantec.com		
CA Email Alias 2			
Company Website	http://www.symantec.com/	Verified?	Verified
Organizational Type	Public Corporation	Verified?	Verified
Organizational Type (Others)		Verified?	Not Applicable
Geographic Focus	USA, Global	Verified?	Verified
Primary Market / Customer Base	Symantec is a major commercial CA with worldwide operations and customer base.	Verified?	Verified
Impact to Mozilla Users	Firefox users are asking why certs chaining to this root do not get EV treatment, when other browsers show EV treatment.	Verified?	Verified

Response to Mozilla's list of Recommended Practices

Recommended Practices	https://wiki.mozilla.org/CA:Recommended_Practices#CA_Recommended_Practices	Recommended Practices Statement	I have reviewed Mozilla's list of Recommended Practices, and confirm that we follow those practices, with exceptions and clarifications noted in the text box below.
CA's Response to Recommended Practices	<p>* CA Hierarchy: See https://www.symantec.com/about/profile/policies/repository.jsp Roots tab</p> <p>* CPS section 3.2.2.2: For requests for internationalized domain names (IDNs) in Certificates, Symantec performs domain name owner verification to detect cases of homographic spoofing of IDNs. Symantec employs an automated process that searches various 'whois' services to find the owner of a particular domain. A search failure result is flagged for manual review and the RA manually rejects the Certificate Request. Additionally, the RA rejects any domain</p>	Verified?	Verified

name that visually appears to be made up of multiple scripts within one hostname label.
Symantec actively participates in the CA/Browser Forum providing input to the standards for IDN Certificates and fully commits to conforming with standards drafted by that body.

* Revocation of Compromised Certificates -- CPS section 4.9

* DNS names go in SAN -- CPS section 7.1.2.3

* Domain owned by a Natural Person -- SSL certs are only issued to organizations.

Response to Mozilla's list of Potentially Problematic Practices

Potentially Problematic Practices	https://wiki.mozilla.org/CA:Problematic_Practices#Potentially_problematic_CA_practices	Problematic Practices Statement	
CA's Response to Problematic Practices	<p>* Delegation of Domain / Email validation to third parties - CPS section 1.3.2: Third parties, who enter into a contractual relationship with Symantec, may operate their own RA and authorize the issuance of certificates by a STN CA. Third party RAs must abide by all the requirements of the STN CP, the STN CPS and the terms of their enterprise services agreement with Symantec. RAs may, however implement more restrictive practices based on their internal requirements. RAs who perform domain validation functions are covered as part of our WebTrust audits.</p> <p>* Allowing external entities to operate subordinate CAs -- CPS section 1.3.1: Symantec enterprise customers may operate their own CAs as subordinate CAs to a public STN PCA. Such a customer enters into a contractual relationship with Symantec to abide by all the requirements of the STN CP and the STN CPS. These subordinate CAs may, however implement a more restrictive practices based on their internal requirements.</p> <p>* Distributing generated private keys in PKCS#12 files -- We do not generate key pairs for signer or SSL certificates. We do provide a utility for some of our customers so they can generate their own key pairs. In any case, we do not have visibility to their private keys and do not distribute them in a PKCS#12 file.</p> <p>* Certificates referencing hostnames or private IP addresses -- Symantec fully complies with the CAB Forum Baseline Requirements concerning certificates with non-FQDN or private IP addresses.</p> <p>* Issuing SSL Certificates for Internal Domains -- Symantec's Authentication Team is aware that .int is a valid TLD. Symantec has issued certificates to .int, and we have verified that the subscriber owns the domain name. Symantec correctly identifies internal and external domain names and verifies that subscribers own/control the domain name to be included in their certificate.</p>	Verified?	I have reviewed Mozilla's list of Potentially Problematic Practices, and confirm that we do not do those practices, with exceptions and clarifications noted in the text box below. Verified

Root Case Record # 1

Root Case Information

Root Certificate Name	VeriSign Class 3 Public Primary Certification Authority - G4	Root Case No	R00000060
Request Status	Ready for Public Discussion	Case Number	00000045

Additional Root Case Information

Subject Enable EV Treatment for VeriSign Class 3
G4 ECC root

Technical Information about Root Certificate

O From Issuer Field	VeriSign, Inc."	Verified?	Verified
OU From Issuer Field	VeriSign Trust Network	Verified?	Verified
Certificate Summary	This request is to enable EV treatment for the "VeriSign Class 3 Public Primary Certification Authority - G4" root certificate that was included via bug #409235. Root is offline. Used only to issue internally-operated SubCAs, CRLs, OCSP certs.	Verified?	Verified
Root Certificate Download URL	Already Included	Verified?	Verified
Valid From	2007 Nov 05	Verified?	Verified
Valid To	2038 Jan 18	Verified?	Verified
Certificate Version	3	Verified?	Verified
Certificate Signature Algorithm	ECC	Verified?	Verified
Signing Key Parameters	ECC P-384	Verified?	Verified
Test Website URL (SSL) or Example Cert	https://ssltest35.ssl.symclab.com/	Verified?	Verified
CRL URL(s)	http://crl.ws.symantec.com/pca3-g4.crl http://EV256SecureECC-crl.ws.symantec.com/EV256SecureECC.crl	Verified?	Verified
OCSP URL(s)	http://ocsp.ws.symantec.com http://EV256SecureECC-ocsp.ws.symantec.com	Verified?	Verified
Trust Bits	Code; Email; Websites	Verified?	Verified
SSL Validation Type	OV; EV	Verified?	Verified
EV Policy OID(s)	2.16.840.1.113733.1.7.23.6 2.23.140.1.1	Verified?	Verified
Root Stores Included In	Microsoft; Mozilla	Verified?	Verified
Mozilla Applied Constraints	None	Verified?	Verified

Test Results (When Requesting the SSL/TLS Trust Bit)

Revocation Tested	https://certificate.revocationcheck.com/ssltest35.ssl.symclab.com No errors	Verified?	Verified
CA/Browser Forum Lint Test	Tested. No errors.	Verified?	Verified
Test Website Lint Test	Tested. No errors.	Verified?	Verified

EV Tested	// CN=VeriSign Class 3 Public Primary Certification Authority - G4,OU="(c) 2007 VeriSign, Inc. - For authorized use only",OU=VeriSign Trust Network,O="VeriSign, Inc.",C=US "2.16.840.1.113733.1.7.23.6", "VeriSign EV OID", SEC_OID_UNKNOWN, { 0x69, 0xDD, 0xD7, 0xEA, 0x90, 0xBB, 0x57, 0xC9, 0x3E, 0x13, 0x5D, 0xC8, 0x5E, 0xA6, 0xFC, 0xD5, 0x48, 0x0B, 0x60, 0x32, 0x39, 0xBD, 0xC4, 0x54, 0xFC, 0x75, 0x8B, 0x2A, 0x26, 0xCF, 0x7F, 0x79 }, "MIHKMQswCQYDVQQGEwJVUzEXMBUGA1UEChMOVmVyaVNpZ24sIEluYy4xHzAdBgNV" "BAstFIZlcmITaWduIFRydXN0IE5ldHdvcmxOjA4BgNVBAsTMShjKSAYMDA3IFZI" "cmITaWduLCBjbmluLC0gRm9yIGF1dGhvcml6ZWQgdXNlIG9ubHkxRTBDBgNVBAMT" "PFZlcmITaWduIENsYXNzIDMgUHVibGljIFByaW1hcncgQ2VydGImaWNhdGlvbiBB" "dXR0b3JpdHkgLzSBHNA==", "L4D+l4wOl9lZxlokYessw==", Success!	Verified?	Verified
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Digital Fingerprint Information

SHA-1 Fingerprint	22:D5:D8:DF:8F:02:31:D1:8D:F7:9D:B7:CF:8A:2D:64:C9:3F:6C:3A	Verified?	Verified
SHA-256 Fingerprint	69:DD:D7:EA:90:BB:57:C9:3E:13:5D:C8:5E:A6:FC:D5:48:0B:60:32:39:BD:C4:54:FC:75:8B:2A:26:CF:7F:79	Verified?	Verified

CA Hierarchy Information

CA Hierarchy	This root signs internally-operated SubCAs which issue OV and EV SSL certificates, as well as Code Signing certificates. S/MIME certs may also be issued in this CA hierarchy.	Verified?	Verified
Externally Operated SubCAs	None. None planned.	Verified?	Verified
Cross Signing	None. None planned.	Verified?	Verified
Technical Constraint on 3rd party Issuer	Comment #30: Some of our Registration Authorities (RA) do perform domain validation functions. They are covered as part of our WebTrust audits.	Verified?	Verified

Verification Policies and Practices

Policy Documentation	The CPS defines the policies for all 4 classes of Certs.	Verified?	Verified
CA Document Repository	https://www.symantec.com/about/profile/policies/repository.jsp	Verified?	Verified
CP Doc Language	English		
CP	https://www.symantec.com/content/en/us/about/media/repository/stn-cp.pdf	Verified?	Verified
CP Doc Language	English		
CPS	https://www.symantec.com/content/en/us/about/media/repository/stn-cps.pdf	Verified?	Verified
Other Relevant Documents		Verified?	Not Applicable
Auditor Name	KPMG	Verified?	Verified
Auditor Website	http://www.us.kpmg.com/	Verified?	Verified

Auditor Qualifications	http://www.webtrust.org/licensed-webtrust-practitions-international/item64419.aspx	Verified?	Verified
Standard Audit	https://cert.webtrust.org/SealFile?seal=1565&file=pdf	Verified?	Verified
Standard Audit Type	WebTrust	Verified?	Verified
Standard Audit Statement Date	5/5/2015	Verified?	Verified
BR Audit	https://cert.webtrust.org/SealFile?seal=1565&file=pdf	Verified?	Verified
BR Audit Type	WebTrust	Verified?	Verified
BR Audit Statement Date	5/5/2015	Verified?	Verified
EV Audit	https://cert.webtrust.org/SealFile?seal=1565&file=pdf	Verified?	Verified
EV Audit Type	WebTrust	Verified?	Verified
EV Audit Statement Date	5/5/2015	Verified?	Verified
BR Commitment to Comply	STN-CP and STN-CPS section 1	Verified?	Verified
SSL Verification Procedures	<p>CPS section 3.2.2.3: Symantec uses the following methods of vetting a domain name, with option 1 being the primary method:</p> <ol style="list-style-type: none"> 1. Confirm the Applicant as the Domain Name Registrant directly with the Domain Name Registrar by performing a whois look up. 2. Communicate directly with the Domain Name Registrant using an address, email, or telephone number provided by the Domain Name Registrar; 3. Rely upon a Domain Authorization Document; 4. Communicate directly with the Domain Name Registrant using the contact information listed in the WHOIS record's "registrant", "technical", or "administrative" field; 5. Communicate with the Domain's administrator using an email address created by pre-pending 'admin', 'administrator', 'webmaster', 'hostmaster', or 'postmaster' in the local part, followed by the at-sign ("@"), followed by the Domain Name, which may be formed by pruning zero or more components from the requested FQDN; 6. Having the Applicant demonstrate practical control over the FQDN by making an agreed-upon change to information found on an online Web page identified by a uniform resource identifier containing the FQDN. 	Verified?	Verified
EV SSL Verification Procedures	CPS sections 3.1.1.1, 3.2.2.1, 4.1.2.2, 4.3.3, 4.9.1.1, 4.9.3.2: EV SSL Certificates, EV Code Signing, and domain-validated and organization-validated SSL Certificates conform to the CA / Browser Forum requirements as set forth in the STN Supplemental Procedures, Appendix B1, Appendix C and Appendix D, respectively.	Verified?	Verified

CPS section 3.2.2: Where a domain name or e-mail address is included in the certificate Symantec authenticates the Organization's right to use that domain name either as a fully qualified Domain name or an e-mail domain. For Organization Validated (OV) and Extended Validation (EV) Certificates domain validation is completed in all cases along with Organizational validation.

Symantec's procedures for issuing EV SSL Certificates are described in Appendix B1 to this CPS.

Appendix B1, and Appendix D all just say: The current version of the CA/Browser Forum Baseline Requirements for the Issuance and Management of Publicly-Trusted Certificates can be accessed at <https://cabforum.org/baseline-requirements-documents/>

EV SSL certificate content and profile requirements are discussed in Section 6 of Appendix B3 to this CPS.

Organization Verification Procedures	<p>CPS Section 1.4.1: According to tables 1 and 2, only Class 3 certificates issued to organizations can be used for SSL and Code Signing. Therefore all SSL certs are of OV or EV verification type.</p> <p>CPS Section 3.2.2: Authentication of Organization Identity</p> <p>CPS section 3.2.3: Authentication of Individual Identity</p> <p>CPS section 3.2.5: Validation of Authority</p>	Verified?	Verified
Email Address Verification Procedures	<p>Email certs can be issued for Class 1, 2, and 3 verification levels, for both individuals and organizations. The absolute minimum verification is for Class 1 individual.</p> <p>STN-CPS section 3.2.3</p> <p>Class 1: No identity authentication. There is a limited confirmation of the Subscriber's e-mail address by requiring the Subscriber to be able to answer an e-mail to that address.</p> <p>Class 2 individual: Authenticate identity by matching the identity provided by the Subscriber to:</p> <ul style="list-style-type: none"> - information residing in the database of a Symantec-approved identity proofing service, such as a major credit bureau or other reliable source of information providing, or - 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 <p>Class 3: See above.</p>	Verified?	Verified
Code Signing Subscriber Verification Pro	<p>According to CPS section 1.4.1.2 Table 2, Code Signing certificates are of Class 3 only.</p>	Verified?	Verified

See CPS sections 3.2.2, 3.2.3, and 3.2.5.

**Multi-Factor
Authentication**

STN-CPS section 5.2.2

Verified?

Verified

Network Security

STN-CPS section 6.7

Verified?

Verified

Link to Publicly Disclosed and Audited subordinate CA Certificates

**Publicly Disclosed &
Audited subCAs**

[https://bugzilla.mozilla.org
/show_bug.cgi?id=1019864](https://bugzilla.mozilla.org/show_bug.cgi?id=1019864)

Verified?

Verified