Bugzilla ID: 926029

Bugzilla Summary:

CFCA (China Financial Certification Authority) root CA

CAs wishing to have their certificates included in Mozilla products must

1) Comply with the requirements of the Mozilla CA certificate policy (http://www.mozilla.org/projects/security/certs/policy/)

2) Supply all of the information listed in https://wiki.mozilla.org/CA:Information-checklist.

a.Review the Recommended Practices at https://wiki.mozilla.org/CA:Recommended_Practices

b.Review the Potentially Problematic Practices at https://wiki.mozilla.org/CA:Problematic_Practices

General information about the CA's associated organization

	General information about the CA's associated organization
Column1	Column2
CA Company Name	China Financial Certification Authority (CFCA)
Website URL	http://www.cfca.com.cn/
Organizational type	Established on June 29, 2000, China Financial Certification Authority (CFCA) is a national authority of security authentication approved by the People's Bank of China and state information security administration. CFCA is a critical national infrastructure of financial information security and one of the first certification service suppliers granted a certification service license after the release of the Electronic Signature Law of the People's Republic of China.
Primark Market / Customer Base	SSL Certificates can be used in the areas such as online banking, ecommence, epolitic, enterprise informatization and public services and so on. CFCA's customers are throughout People's Republic of China, and it's in the leading position in Chinese CA industry for years in terms of business size, security and technology. There are more than 200 Chinese banks that are using CFCA's certificates to ensure the security of online banking trade.
Impact to Mozilla Users	CFCA is the top one of China's CAs, certificates issued by CFCA has accumulated over 50,000,000 for now, which accounts for more than 50% of the total amount of certificates issued in China. Certificate users of which using firefox requires CFCA's root certificate to be included in Mozilla's products. Furthermore, CFCA has passed Webtrust audit, it meets Mozilla's requirements of root certificate inclusion.
Inclusion in other major browsers	Internet Explorer
CA Contact Information	CA Email Alias: gxzhao@cfca.com.cn CA Phone Number: 8610-83528031 Title / Department: Risk management supervisor/ Business management department

Technical information about each root certificate (GT)

Certificate Name	CFCA GT CA
	CN = CFCA GT CA
	O = China Financial Certification Authority
Certificate Issuer Field	C = CN
Certificate Summary	This root certificate issues Individual Certificate, Organization Certificate, Web Server Certificate and Code Signing Certificate.
Root Cert URL	https://bugzilla.mozilla.org/attachment.cgi?id=816416
SHA1 Fingerprint	A8:F2:DF:E3:6A:E0:CC:2D:B9:DD:38:34:7D:30:AE:D9:55:1D:D2:5A
Valid From	20120821
Valid To	20420821
Test Website URL	https://www.56zhifu.com
CRL URL	http://crl.cfca.com.cn/gtoca/RSA/crl1.crl
OCSP URL	http://ocsp.cfca.com.cn/ocsp/
	http://gtc.cfca.com.cn/gtoca/gtoca2.cer
	Maximum expiration time of OCSP responses : 7 days
Requested Trust Bits	websites, email, code signing
SSL Validation Type	ov
Policy OID(s	2.16.156.112554.2.1
Nonsequential serial numbers	CFCA's end-entity certificates have 8 bits of unpredictable random data in serial number.
and entropy in cert	New end-entity certificates after 2014-2-15 will have 20 bits of unpredictable random data in serial number .
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Technical information about each root certificate (EV)

Certificate Name	CFCA EV ROOT
Certificate Issuer Field	CN = CFCA EV ROOT
	O = China Financial Certification Authority
	C = CN
Certificate Summary	This Root and CA hierarchy only issue EV certificates.
Root Cert URL	https://bugzilla.mozilla.org/attachment.cgi?id=8356494
SHA1 Fingerprint	E2:B8:29:48:55:84:AB:6B:58:C2:90:46:6C:AC:3F:B8:39:8F:84:83
Valid From	20120808
Valid To	20291231
Test Website URL	https://pub.cebnet.com.cn
CRL URL	http://crl.cfca.com.cn/evoca/RSA/crl1.crl
OCSP URL	http://ocsp.cfca.com.cn/ocsp/
	http://gtc.cfca.com.cn/evoca/evoca.cer
	Maximum expiration time of OCSP responses : 7 days
Requested Trust Bits	websites
SSL Validation Type	EV
EV Policy OID(s	2.16.156.112554.3
Nonsequential serial numbers	
and entropy in cert	20 bits of unpredictable random data will be include in serial number of new end-entity certificates.®

CA Hierarchy information for each root certificate (GT)

CA Hierarchy	CFCA GT CA has two internallyoperated subordinate CAs:
	CFCA OCA2 – issues SSL, Code Signing, Email, VPN, and Device certificates.
	CFCA GT OCA21 – issues pregenerated certificates, individual certificates.
Externally Operated SubCAs	CFCA GT CA has no Externally Operated subCA.
CrossSigning	N/A
Technical Constraints on	N/A
Thirdparty Issuers	

CA Hierarchy	CFCA EV ROOT has one internallyoperated subordinate CA
	CFCA EV OCA
Externally Operated SubCAs	CFCA EV root has no Externally Operated subCA.
CrossSigning	N/A
Technical Constraints on	N/A
Thirdparty Issuers	

	Verification Policies and Practices (GT)
Policy Documentation	http://www.cfca.com.cn/file/CFCA-1403-CPS-en.rar
Audit	Audit Type: WebTrust for CA
	Auditor: PricewaterhouseCoopers
	Audit Report: https://cert.webtrust.org/ViewSeal?id=1606
Baseline Requirements (SSL)	CPS section 9.17
Organization Verification	CPS section 3.2.2.2
SSL Verification Procedures	LPS Section 3.2.2 and 3.2.2 a
Email Address Verification	LP5 SECTION 3.2.2.2 amu 3.2.2.3
	CPS section 3.2.2.5 and 3.2.2.3
Procedures	LPS SECTION 3.2.2.3
Code Signing Subscriber Verification Procedures	
Procedures	CPS section 3.2.2.5 and 3.2.2.3
Multifactor Authentication	For each account that can access the certificate issuance system, we use usbkey model SJK1232 in the procedure of authorization, this measure is apply
Multilactor Authentication	to all accounts that can cause the approval and/or issuance of end-entity certificates
Network Security	to an accounts that can cause the approvar analyon issuance or end-entity certificates
Network Security	CFCA maintain network security controls that meet the Network and Certificate System Security Requirements published at http://www.cabforum.org
	Verification Policies and Practices (EV)
Policy Documentation	http://www.cfca.com.cn/file/CFCA-1403-CPS-en.rar
Audit	Audit Type: WebTrust EV for CA
Addit	Auditor: PricewaterhouseCoopers
	Audit Report: https://cert.webtrust.org/ViewSeal?id=1607
Baseline Requirements (SSL)	CPS section 9.17
Organization Verification	CPS section 3.2.2.4
Organization vermeation	of 3 dection 3.2.2.4
SSL Verification Procedures	CPS section 3.2.2.4
Email Address Verification	N/A
Procedures	
Code Signing Subscriber Verification	N/A
Procedures	
Multifactor Authentication	For each account that can access the certificate issuance system, we use usbkey model SJK1232 in the procedure of authorization this measure is apply to
	all accounts that can cause the approval and/or issuance of end-entity certificates
Network Security	CFCA maintain network security controls that meet the Network and Certificate System Security Requirements published at http://www.cabforum.org

	December to Marillele CA Decembered Direction (CT)
	Response to Mozilla's CA Recommended Practices (GT)
Publicly Available CP and CPS	http://www.cfca.com.cn/file/CFCA-1403-CPS-en.rar
CA Hierarchy	CFCA GT CA has two internallyoperated subordinate CAs:
	CFCA OCA2 – issues SSL, Code Signing, Email, VPN, and Device certificates.
	CFCA GT OCA21 – issues pregenerated certificates, individual certificates.
Audit Criteria	WebTrust Principles and Criteria for Certification Authorities 2.0 From http://www.webtrust.org/
	https://cert.webtrust.org/ViewSeal?id=1606
Document Handling of IDNs in	
CP/CPS	N/A
Revocation of Compromised	CPS section 4.8, CFCA will revoke certificates with private keys that are known to be compromised, or for which verification of subscriber information is
•	known to be invalid.
Verifying Domain Name Ownership	
	CPS section 3.2.2.3
Verifying Email Address Control	CPS section 3.2.2.5 and 3.2.2.3
Verifying Identity of Code Signing	
Certificate	
Subscriber	
	CPS section 3.2.2.5 and 3.2.2.3
DNS names go in SAN	For Multi-domain certificate each domain will containing the Fully-Qualified Domain Name or an iPAddress containing the IP address of a
_	server, meet the CA/Browser Forum Baseline Requirements.
Domain owned by a Natural	CFCA's follow this pattern
Person	0 = name of the person in the form as displayed in its ID
. 6.36.1	OU = the string "natural person"
OCSP	http://ocsp.cfca.com.cn/ocsp/
	http://gtc.cfca.com.cn/gtoca/gtoca/.cer
Network Security Controls	CFCA maintain network security controls that meet the Network and Certificate System Security Requirements published
nethon security controls	at http://www.cabforum.org
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	Response to Mozilla's CA Recommended Practices (EV)
Publicly Available CP and CPS	http://www.cfca.com.cn/file/CFCA-1403-CPS-en.rar
CA Hierarchy	CFCA EV ROOT has one internallyoperated subordinate CA CFCA EV OCA
Audit Criteria	WebTrust for Certification Authorities - Extended Validation Audit Criteria Version 1.4 From http://www.webtrust.org/https://cert.webtrust.org/ViewSeal?id=1607
Document Handling of IDNs in CP/CPS	N/A
Revocation of Compromised	CPS section 4.8, CFCA will revoke certificates with private keys that are known to be compromised, or for which verification of subscriber information is known to be invalid.
Verifying Domain Name Ownership	CPS section 3.2.2.4
Verifying Email Address Control	N/A

Verifying Identity of Code Signing	N/A
Certificate	
Subscriber	
DNS names go in SAN	For Multi-domain certificate each domain will containing the Fully-Qualified Domain Name or an iPAddress containing the IP address of a
	server, meet the CA/Browser Forum Baseline Requirements.
Domain owned by a Natural	EV can be bought only by organisation
Person	
OCSP	http://ocsp.cfca.com.cn/ocsp/
	http://gtc.cfca.com.cn/gtoca/gtoca/2.cer
Network Security Controls	CFCA maintain network security controls that meet the Network and Certificate System Security Requirements published
,	at http://www.cabforum.org
	Response to Mozilla's list of Potentially Problematic Practices
Longlived DV certificates	CFCA doesn't issue DV certs., issues OV and EV certs.
Wildcard DV SSL certificates	CFCA doesn't issue DV certs, issues OV and EV certs.
	CFCA doesn't issue DV certs., issues OV and EV certs.
Delegation of Domain / Email	Domain and Email validation will be incorporated into the issuing CAs procedures . Delegation of domain/email validation to third parties can't be done
validation to	without CFCA
third parties	
tillia parties	
Issuing end entity certificates	CFCA issuing certificates using internallyoperated subordinate Cas
directly from	a di saang erimetes ang merimi, operate saasi ande es
roots	
1000	
Allowing external entities to operate	CFCA do not allow external entities to operate subordinate CAs
subordinate CAs	
Distributing generated private keys	CFCA will not generate key pairs for their subscriber in signer or SSL certificates. If our client don't know how to so, CFCA will guide them
in	but will not generate key pairs for them.
PKCS#12 files	
Certificates referencing hostnames or	See CPS section 3.2.2.3, 3.2.2.4, certificate hostname not resolvable through the public DNS will not pass our verification.
private IP addresses	And CFCA will not accept private IP addresses. (OV accept public IP, EV don't accept IP)
Issuing SSL Certificates for Internal	See CPS section 3.2.2.3 , 3.2.2.4 , CFCA will not issue SSL Certificates for Internal Domains.
OCSP Responses signed by a	CFCA's OCSP responses conform to RFC 2560, And passed BVT test using Firefox 26
certificate	CFCA's OSCP sign cert is under same root .
under a different root	
CRL with critical CIDP Extension	CFCA issues full CRLs, but not partitioned CRLs, and never put critical CIDP extensions into full CRLs.
Generic names for CAs	Our CA name include "CFCA"
Lack of Communication With End	CFCA has 7*24 hour hotline(8610-4008809888) for end users.
Users	