**Bugzilla ID:** 527056 **Bugzilla Summary:** Add Go Daddy CA Certs to root store

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 <a href="http://wiki.mozilla.org/CA:Information\_checklist">http://wiki.mozilla.org/CA:Information\_checklist</a>.

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

<b>General Information</b>	Data
CA Name	Go Daddy Group, Inc.
Website URL	http://www.godaddy.com/
Organizational type	Commercial CA
Primary market /	The Go Daddy Group is an ICANN-accredited domain registrar. They also provide hosting solutions, Web site creation tools,
customer base	Secure SSL certificates, personalized email with spam and anti-phishing filtering, and e-commerce tools.
	The Go Daddy Group of companies also includes Wild West Domains, Inc., a reseller of domains and domain-related products and
	services; Domains By Proxy, a private registration service; Starfield Technologies, a research and development affiliate; and Blue
	Razor Domains, a membership-based discount registrar.
	Note: Starfield acquired the ValiCert Class 2 Policy Validation Authority from ValiCert, Inc. in June 2003.
CA Contact	CA Email Alias: practices@starfieldtech.com
Information	CA Phone Number: 480-505-8800
	Title / Department: PKI operations

For Each Root CA whose certificate is to be included in Mozilla (or whose metadata is to be modified)

Info Needed	Data	Data	Data
Certificate Name	Go Daddy Root Certificate Authority -	Starfield Root Certificate Authority - G2	Starfield Services Root Certificate
	G2		Authority - G2
Cert summary /	This SHA256 root will eventually replace	This SHA256 root will eventually replace	CPS: Reserved for future use.
comments	the "Go Daddy Class 2 CA" root cert that	the "Starfield Class 2 CA" root cert that is	
	is currently included in NSS.	currently included in NSS.	Comment #21: our current plans are
			considering this as an anchor for new
	This root will sign internally-operated	This root will sign internally-operated	services such as S/MIME or services
	intermediate CAs for issuing subscriber	intermediate CAs for issuing subscriber	that are required by laws or standards to
	SSL and Code Signing certificates, and	SSL and Code Signing certificates, and	under a distinct trust anchor.
	possibly other types of certificates in the	possibly other types of certificates in the	
	future.	future.	

	CPS: Second Generation (G2) Go Daddy Root CA. Serves as the "trust anchor" for the future Starfield PKI hierarchy for any certificates sold under the Go Daddy brand. Issues any future CAs for different types of PKI services sold under the Go Daddy brand.	CPS: Second Generation (G2) Starfield Root CA. Serves as the "trust anchor" for the future Starfield PKI hierarchy for any certificates other than those sold under the Go Daddy brand. Issues any future CAs for different types of PKI services except those used with the Go Daddy brand. Serves as a trusted root for time stamping certificates.		
Root Cert URL	https://certificates.godaddy.com/repositor y/gdroot-g2.crt	https://certificates.starfieldtech.com/repos itory/sfroot-g2.crt	https://certificates.starfieldtech.com/repos itory/sfsroot-g2.crt	
SHA-1 fingerprint	47:BE:AB:C9:22:EA:E8:0E:78:78:34:62: A7:9F:45:C2:54:FD:E6:8B	B5:1C:06:7C:EE:2B:0C:3D:F8:55:AB:2 D:92:F4:FE:39:D4:E7:0F:0E	92:5A:8F:8D:2C:6D:04:E0:66:5F:59:6A: FF:22:D8:63:E8:25:6F:3F	
Valid from	2009-08-31	2009-08-31	2009-08-31	
Valid to	2037-12-31	2037-12-31	2007-00-51	
Cert Version	3	3	3	
Modulus length	2048	2048	2048	
Test Website	https://gdg2roottest.godaddy.com/	https://sfg2roottest.starfieldtech.com/	https://sfsg2roottest.starfieldtech.com/	
		r these roots, so the test certs are signed direct		
CRL URL	http://crl.godaddy.com/gdroot-g2.crl	http://crl.starfieldtech.com/sfroot-g2.crl	http://crl.starfieldtech.com/sfsroot-g2.crl	
CRL Issuance	CRLs for end-entity certs haven't been created yet because no sub-CA has been created.			
Frequency	CPS section 4.4.9 CRL Issuance Frequency: Issuing CAs Every 7 days or less Comment #14: CRLs issued by subCAs that will generally contain entries for end-entity certificates are typically issued every 24 hours. This is the case with all of our currently operating subCAs. However we reserve the right to extend that up to a maximum			
		be required or desired in specific circumstance		
OCSP Responder	http://ocsp.godaddy.com	http://ocsp.starfieldtech.com	http://ocsp.starfieldtech.com	
OCSP Max Time		us Checking Availability: Issuing CAs Eve	ery 4 days or less	
CA Hierarchy	Each root will sign at least one subordinate	CA for issuing end-entity certificates. hierarchy under the new roots> will be very s	similar to the hierarchy of the current roots	
		oss-certificates for the new roots. However,		
	<ul> <li>the newer root certificates before they have achieved a sufficient level of distribution amongst the installed base of various software products, we may elect to issue cross-certificates to the new roots from the existing Go Daddy and Starfield root CAs (but not the from the Valicert root).</li> <li>CA Hierarchy diagram of the roots currently included in NSS: <u>https://bugzilla.mozilla.org/attachment.cgi?id=417535</u> (this diagram does NOT show the G2 roots; it shows the current CA hierarchy in operation today)</li> </ul>			
3 <sup>rd</sup> – Party Sub-CAs	None, and none planned.			

Cross-Signing	None, and none planned, unless needed for backwards compatibility.			
Requested Trust Bits	Websites (SSL/TLS)	Websites (SSL/TLS)	Websites (SSL/TLS)	
	Code Signing	Code Signing	Code Signing	
	Ideally we would request all trust bits. How	wever, they make the point in the Email Add	ress Ownership/Control section that we need	
	to show documentation about our verification practices for email addresses. We do not currently have any such thing, as we have			
	not been in the personal identity cert business(yet).			
SSL Validation Type	Medium assurance certs: DV	Medium assurance certs: DV	Medium assurance certs: DV	
DV, OV, and/or EV	High assurance certs: OV	High assurance certs: OV	High assurance certs: OV	
	Extended Validation certs: EV	Extended Validation certs: EV		
EV policy OID(s)	2.16.840.1.114413.1.7.23.3	2.16.840.1.114414.1.7.23.3	Not EV	
CP/CPS		nd policies: https://certificates.godaddy.com/	repository	
	CP and CPS: https://certs.starfieldtech.com			
		fieldtech.com/repository/StarfieldRelyingPar		
		dtech.com/repository/StarfieldSubscriberAg		
	Premium EV Subscriber Agreement: https://certs.starfieldtech.com/repository/StarfieldEVSubscriberAgreement.pdf			
	Code Signing Subscriber Agreement:			
	https://certs.starfieldtech.com/repository/St	arfieldCodeSigningCertificateSubscriberAgentation and the second state of the second	reement_1.0.pdf	
	Extended Validation (EV) Certificate Documents			
	Certified Public Account Letter: https://certs.starfieldtech.com/repository/AccountantLetterTemplate.pdf			
	Verified Legal Opinion: https://certs.starfieldtech.com/repository/LegalOpinionTemplate.pdf			
	Business Entity Attestation: https://certs.starfieldtech.com/repository/EV_Principal_Attestation_Starfield.pdf			
AUDIT	Audit Type: WebTrust CA and WebTrust EV			
	Auditor: KPMG			
	Auditor Website: www.kpmg.com			
	Audit Report and Management's Assertions: <u>https://cert.webtrust.org/SealFile?seal=355&amp;file=pdf</u> (2009.06.30)			
	Both of these audit reports cover: Go Daddy Class 2 CA, Starfield Class 2 CA, and Starfield Services Root CA.			
	The new, G2, version of these roots are included in the current audit that is in progress.			
	Comment #21: These 3 new roots are included in the scope of our July 2009 / June 2010 audit period.			
	Comment #12: WebTrust auditors were on site and present for the entirety of the root creation ceremony.         tity       Comment #14: Medium (DV), High (OV) and EV assurance levels are all applicable			
Organization Identity	Comment #14: Medium (DV), High (OV) a	and EV assurance levels are all applicable		
Verification	CD/CDS spation 2.1.8 Authentication of Organization Identity			
	CP/CPS section 3.1.8 Authentication of Organization Identity			
	For High Assurance organizational Subscribers, Starfield verifies the following: • the organization name represents an organization currently registered with a government authority			
	<ul> <li>the organization name represents an organization currently registered with a government authority</li> <li>the individual requesting the certificate has access to the domain name(s) that are specified in the certificate application</li> </ul>			
	• the individual requesting the certificate is authorized to do so by the organization named in the certificate			

	<ul> <li>3.1.9 Authentication of Individual Identity</li> <li>For High Assurance individual Subscribers, Starfield verifies the following:</li> <li>the identity of the individual named in the certificate application</li> <li>the individual requesting the certificate has access to the domain name(s) that are specified in the certificate application</li> <li>In the case of a small business/sole proprietorship that is not registered with a government authority, Starfield will optionally include the entity's "doing business as" (DBA) name in an informational, unauthenticated "organizational unit" (OU) field.</li> <li>3.1.10 Unified Communications Certificate Authentication</li> </ul>
	The individual requesting the certificate is confirmed to have access to every fully qualified domain name included in the Subject Common Name or Subject Alternative Name fields of a UCC certificate. Only one Organization (as described in §3.1.8) or Individual (as described in §3.1.9) is authenticated for each High Assurance UCC certificate.
	<ul> <li>3.1.11 Medium Assurance Authentication</li> <li>For Medium Assurance Subscribers, Starfield verifies the following:</li> <li>the individual requesting the certificate has access to the domain name(s) that are specified in the certificate application</li> </ul>
	<ul> <li>3.1.12 Authentication of Organization Identity for Extended Validation Certificates</li> <li>For Extended Validation Subscribers, Starfield verifies the following in accordance with the CA/Browser Forum Guidelines for the Issuance and Management of Extended Validation Certificates:</li> <li>Legal Existence and Identity</li> <li>Assumed Name (optional)</li> </ul>
	<ul> <li>Physical Existence</li> <li>Operational Existence (if records indicate that the organization is less than three years old)</li> <li>Domain ownership or exclusive right to use</li> <li>Name, title, and authority of contract signer, and certificate approver</li> </ul>
	3.1.14 Custom Certificate Authentication Starfield may issue certificates designed for use in a specific peer-to-peer application. These certificates are designed for use only in that application and steps are taken to ensure that they will not function for standard uses such as SSL or code signing.
Domain Name Ownership / Control	According to CPS sections 3.1.8, 3.1.9, and 3.1.11, for both Medium and High Assurance SSL certificates, Starfield verifies that the subscriber requesting the certificate has access to the domain name(s) that are specified in the certificate application.
	According to CPS section 3.1.12, for Extended Validation certificates, Starfield verifies "Domain ownership or exclusive right to use" in accordance with the CA/Browser Forum Guidelines for the Issuance and Management of Extended Validation Certificates.
Email Address	Not requesting the email trust bit at this time.

Ownership / Control				
Identity of Code	CPS Section 9: Code Signing Certificate – a certificate issued to an organization for the purpose of digitally signing software			
Signing Subscriber				
	CPS Section 3.1.13 Code Signing Certificate Authentication: For High Assurance Code Signing Subscribers, Starfield verifies the			
	following:			
	• the organization name represents an organization currently registered with a government Authority			
	• the individual requesting the certificate is authorized to do so by the organization named in the certificate			
Potentially	http://wiki.mozilla.org/CA:Problematic Practices			
Problematic	Long-lived DV certificates			
Practices	• Yes. CPS section 7.1.4: One to ten years after Certificate issuance (depending on SSL certificate type).			
	• Comment #12: Our CPS permits up to 10 years. Indeed, we did issue 10 year DV certificates in the past. The			
	CPS remains that way in order to cover those still-valid certificates. We no longer issue 10-year			
	certificates; the maximum lifetime we currently offer is 5 years.			
	<u>Wildcard DV SSL certificates</u>			
	• Yes for Medium assurance certs – Medium assurance certs are DV.			
	• CPS section 7.1.4, medium assurance: CN = domain name of Subscriber's web site (may be fully qualified,			
	wildcard, contain no periods, or IP address reserved for internal use)			
	<ul> <li>Comment #12: GoDaddy/Starfield do issue wildcard DV certificates.</li> </ul>			
	• Comment #14: At present, there are no extra steps taken in the validation process of a wildcard DV			
	certificate beyond that of a non-wildcard DV certificate. The debate over what level of risk actually exists			
	from wildcard certificates is ongoing and certainly not decided. We believe that there are good measures that			
	browsers can take, such as highlighting the actual domain portion in the address bar (highlighting			
	"example.com" in the case of "paypal.example.com") that are very beneficial in helping end users determine			
	which site they are actually visiting. We also do not believe that this is an issue unique to DV certificates.			
	Delegation of Domain / Email validation to third parties			
	<ul> <li>GoDaddy/Starfield does not delegate any validation duties. All vetting/verification/validation is performed</li> </ul>			
	by GoDaddy/Starfield.			
	<u>Issuing end entity certificates directly from roots</u>			
	o GoDaddy/Starfield does not issue subscriber certificates directly from root CAs. However, we do issue			
	certificates directly from the roots for infrastructure purposes (OCSP responder certificates, timestamp			
	authority certificates, and test certificates, such as the SSL test certificates used at the test URLs listed in this			
	application).			
	<u>Allowing external entities to operate unconstrained subordinate CAs</u>			
	<ul> <li>GoDaddy/Starfield have not, and have no plans to, issue subordinate CA certificates to third parties.</li> </ul>			
	Distributing generated private keys in PKCS#12 files			
	• As a policy, GoDaddy/Starfield do not ever generate or come into contact with subscriber private keys.			

٠	Certificates referencing hostnames or private IP addresses	
	• Yes for Medium and High assurance certs	
	<ul> <li>Comment #12: GoDaddy/Starfield currently do issue certificates to private IP addresses and non-fully-</li> </ul>	
	qualified hostnames if a subscriber so requests. All such requests are reviewed by a human RA prior to	
	issuance.	
	<ul> <li>Comment #14: First, all requests (regardless of the name(s) being requested) are automatically screened</li> </ul>	
	through an extensive list of strings intended to flag any name that may be used in fraud, phishing, etc. In the	
	case of non-TLD names, a human RA will further evaluate the name looking for any signs of homoglyph	
	attacks or other visual issues with the name. For both non-TLD names and IP addresses, our process: 1)	
	Verifies that the name or IP cannot be resolved/routed on the public Internet, and 2) Verifies that there are	
	no signs of attempted fraud using both automated and manual methods.	
	• CPS section 7.1.4, medium assurance: CN = domain name of Subscriber's web site (may be fully qualified,	
	wildcard, contain no periods, or IP address reserved for internal use)	
	• CPS section 7.1.4, high assurance: CN = domain name of Subscriber's web site (may be fully qualified,	
	wildcard, contains no periods, or IP address reserved for internal use)	
	<ul> <li>CPS section 7.1.4, EV: Certificates: CN = domain name of Subscriber's web site</li> </ul>	
•	OCSP Responses signed by a certificate under a different root	
	<ul> <li>Test websites loaded without error into Firefox browser when OCSP enforced. AIA extension has OCSP.</li> </ul>	
	<ul> <li>Comment #12: All GoDaddy/Starfield CAs generate OCSP responses using a certificate that is issued</li> </ul>	
	directly by the CA for which responses are being generated. In other words, the "Go Daddy Root Certificate	
	Authority - G2" directly issues an OCSP Response signing certificate, and that certificate is used in the	
	OCSP responses for the "Go Daddy Root Certificate Authority - G2" (and likewise for our other CAs).	
•	CRL with critical CIDP Extension	
	<ul> <li>CRLs import into Firefox browser without error.</li> </ul>	
٠	Generic names for CAs	
	• The root cert names are not generic.	