

✔ All certificates from the RapidSSL or QuickSSL family issued before September 15th, 2014 and expiring after January 31<sup>st</sup>, 2016 (They are

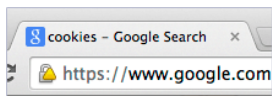
signed by a SHA-1 Intermediate).

- ✓ If they are signed with SHA-1 and expire after January 1<sup>st</sup>, 2016.
- ✓ They have an Intermediate Certificate Chain that are SHA-1 signed certificates.

To understand the exact certificates affected, please see the below section which gives explicit detail.

## The Nitty Gritty<sup>1</sup>

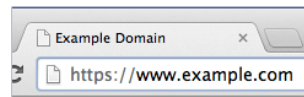
On September 26<sup>th</sup>, 2014:



SHA-1 signed certificates expiring on or after January 1<sup>st</sup>, 2017 will be treated as "secure, but with minor errors" and will receive the yellow triangle padlock.

On November 7<sup>th</sup>, 2014:

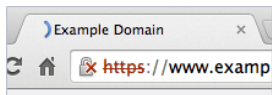
SHA-1 signed certificates expiring on or after June 1<sup>st</sup>, 2016 to December 31<sup>st</sup>, 2016 are treated as above. Certificates expiring after January 1<sup>st</sup>, 2017 are treated as "neutral, lacking security." These certificates will receive a blank page icon, as seen with HTTP sessions.



<sup>1</sup> The majority of this section comes from Google's official announcement:

<http://googleonlinesecurity.blogspot.com/2014/09/gradually-sunset-sha-1.html> (<http://googleonlinesecurity.blogspot.com/2014/09/gradually-sunset-sha-1.html>)

In Q1 2015:



SHA-1 signed certificates expiring on or after January 1<sup>st</sup>, 2016 to December 31<sup>st</sup>, 2016 will continue to be treated as "secure, but with minor errors."

SHA-1 signed certificates that expire on or after January 1<sup>st</sup>, 2017 are treated as "affirmatively insecure." This will be identified by the red "X".

## How is the problem solved?

Affected certificates can be fixed by reissuing (There are no situations where anything other than a reissue is needed). Our partner CAs have sped up their implementation of SHA-2 compatible infrastructure due to Google's new policy.

Symantec has confirmed Officially That Their full product line will have a fully SHA -2 compatible chain" on September 15 , 2014. " 2 Comodo 's full product line is already ready for the SHA -2 transition and by default are now being 'issued as SHA -2 . Certum's product line is having fully SHA-2 compatible chain since November 2014.

## What do I need to do?

If your certificate is SHA-1, you need to perform the following:

- A reissue of your certificate to SHA-2

In addition to the step above, you probably also need to:

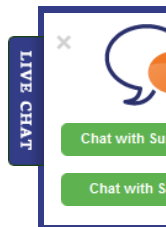
- Install newly available SHA-2 Intermediate Certificates.

Please see below to determine what is necessary for your situation.

It will be necessary for you to perform a) if you have a SHA-1 certificate (as determined by your selection during the enrollment process). This can affect certificates from any of our providers, and is more likely to affect older certificates.

If your certificate was SHA-1, most likely it was also signed by a SHA-1 Intermediate. When you reissue the certificate it will be signed by the SHA-2 Intermediate, which must also be installed to your server. These will either be provided or linked to you when you receive your new certificate.

<sup>2</sup> Symantec's full statement: "Google has announced that it plans to phase out SHA-1 support via degraded visual indicators. The plan is for that to happen in the upcoming Chrome 39 release on September 26, 2014. Google's plan is still subject to change. To help partners respond to this change, Symantec has accelerated its plan to offer SHA-2 end-entity certs chaining to SHA-2 intermediates. We expect these to be available for testing (by API-integrated partners) in our pre-production environment on September 12, 2014, and generally available on September 15, 2014."



# How can I tell if my certificates are effected?

You can use [this SHA checker tool to test if your certificates are affected \(https://shachecker.com\)](https://shachecker.com). You can also come to our 24/7 support to make sure, but please do use the checking tool first.

## Q & A

- [+] What products have compatibility issues with this switch?
- [+] What platforms have compatibility issues with this switch?
- [+] What browsers have compatibility issues with this switch?
- [+] What if I had a SHA-2 subscriber certificate issued before the SHA-2 roots were available (The certificate is signed with a SHA-1 Intermediate and has a "mixed-chain"?)
- [+] What if the customer has a SHA-1 subscriber certificate?
- [+] Does the customer need to generate a new "SHA-2" CSR?
- [+] Should I use something more secure than SHA-2?

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