Symantec SSL Certification with the ECC Algorithm

Overview

The security environment is constantly changing as hackers become more sophisticated even as your customers increasingly reach for mobile or tablet devices to carry out transactions online. Staying ahead of cybercriminals and continuing to provide a secure and trustworthy experience for your customers is vital.

As a leader in SSL security, Symantec is always working on new solutions that help your business to anticipate and meet increasing security demands, and provide a safe environment for your customers.

Harnessing the latest technology, Symantec SSL certification with ECC is an easy way for your business to address the need for strong encryption and benefit from the explosion in mobile device and tablet use. ECC encryption offers your business enhanced security and better performance than prevailing widely adopted encryption.

Better Performance, Stronger Security with the ECC Algorithm

Elliptic Curve Cryptography (ECC) creates encryption keys based on the idea of using points on a curve to define the public/private key pair. It is difficult to break using the brute force methods often employed by hackers and offers a faster solution with less computing power than pure RSA chain encryption.

Key Benefits

• **Better security** — ECC provides stronger protection against attacks than current encryption methods. The ECC algorithm relies on a mathematical problem that is more difficult for hackers to attack than the current encryption, making your websites and infrastructure more secure than with traditional methods.

• **Better performance** — ECC requires a shorter key length to provide a superior level of security, For instance, a 256-bit ECC key provides the same level of protection as a 3072-bit RSA key. The result? You get the security you need without sacrificing performance.

• **Investment protection** — ECC helps protect your infrastructure investment by providing increased security that can handle the explosion in mobile device connections. ECC key lengths increase at a slower rate than other encryption method keys, potentially extending the life of your existing hardware and giving you a greater return on your investment.

• **Mobile advantage** — ECC's smaller key length means smaller certificates that consume less bandwidth. As more of your customers move to smaller devices for their online transactions, ECC offers a better customer experience.

Compatibility

We know that keeping up with security requirements, compliance and threats can be difficult, and that's why Symantec creates solutions that will make protecting your business easier.

Symantec's ECC roots have been available in the top three browsers since 2007, so Symantec's ECC certificates will work in your existing infrastructure as long as modern browsers are used.

Why Symantec?

Our certificates include certificate management, vulnerability assessment, malware scanning, and 24/7 support. You also get the Norton Secured Seal and Symantec Seal-in-Search to assure customers that they are safe when they search, browse or buy on your websites.

Rest easy knowing your website is protected by the #1 choice for SSL security. Symantec SSL Certificates secure more than one million web servers worldwide[1] — more than any other Certification Authority. In fact, 94 of the world's 100 largest SSL-using banks[2] and 81% of the 500 biggest e-commerce sites in North America use SSL Certificates from Symantec[3].

How to get SSL Certificates with ECC

Symantec Premium SSL Certificates, Secure Site Pro and Secure Site Pro with EV, now give you the option of using the high security ECC algorithm (included free) to deliver stronger security than standard encryption methods while improving performance.

Visit Symantec Secure Site Pro to sign up online for an ECC certificate or renew your current subscription.

More Information

Visit our website
North America: http://go.symantec.com/managed-pki-for-ssl
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APAC: http://www.symantec.com/en/aa/ssl-certificates/managed-pki-ssl

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About Symantec
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