



# .SE-DNSSEC

## ORDERING .SE-DNSSEC

.SE-DNSSEC is a supplemental service that can be ordered from select .SE registrars. You'll find an up-to-date list of registrars offering this service on .SE's website.

The fee for the first year is charged by the .SE registrar when the service is ordered and varies between different .SE registrars. After the first year, the domain name holder is charged a running annual fee of SEK 250 for each domain name with .SE-DNSSEC (in addition to the annual domain name fee, presently SEK 120 per domain name, excluding VAT).

## TECHNICAL SPECIFICATIONS

.SE-DNSSEC is offered as a service and does not place any specific demands of a technical nature on IT infrastructure, neither for the domain name holder nor for the Internet user.

Your DNS operator must be able to manage DNSSEC for you to benefit from the service. In most cases, the DNS operator is a .SE registrar or an Internet service provider.

If you manage the DNS for your own domain, it is important that you have DNSSEC competence in-house, not least because mistakes when managing DNSSEC can lead to the website and e-mail disappearing from the Internet. If such competence is lacking, you should turn to a professional DNS operator.

The person that will manage your domain's DNSSEC keys needs a certificate from a certificate authority (CA) approved by .SE. .SE-DNSSEC meets the technical specifications set up in the IETF standards RFC 4033, 4034, 4035 and 4509. Support for NSEC3 is planned as soon as there is a set standard for this.

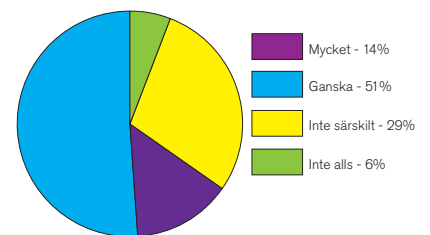
DNSSEC, DNS Security Extensions, is a more secure way of doing look-ups of Internet addresses for e.g. the web and e-mail. In contrast to the usual domain name system (DNS), look-ups with DNSSEC are signed cryptographically, which makes it possible to ensure both that they come from the right sender and that the content has not been altered during transmission. For a layman, this means a reduced risk of being tricked, for example when making banking transactions or shopping on the Net, because it becomes easier for the user to confirm that he/she is really communicating with the right bank or shop, rather than with an impostor.

However, it is important to note that DNSSEC does not stop all kinds of fraud. It is only designed to prevent attacks where the attacker manipulates responses to DNS requests in order to achieve his/her goal. .SE-DNSSEC is a service supplementing .SE's domain name service. Its objective is for the domain name holder to be able to secure his/her domains with DNSSEC. The service consists of .SE providing the customers with the possibility of managing and publishing their DNSSEC keys in the .SE zone, while .SE verifies them in accordance with .SE's policy for its handling of DNSSEC, DNSSEC Policy and Practice Statement.

Just like .SE's regular domain name service, the domain name holder, or a party engaged by the holder, is required to manage his/her own domain. With DNSSEC, the customer's work is expanded to also include managing his/her DNSSEC keys and signing his/her own DNS data with them.

A target group for .SE-DNSSEC is everyone who operates popular websites and wherever there may be a commercial or ideological interest for an attacker to reroute the visitors to the attacker's own website. For this category of users, .SE-DNSSEC is an important part of the puzzle in the work to offer visitors a safe and secure Internet environment.

How interesting is SE-DNSSEC for you?



Two companies out of three are interested in taking advantage of .SE-DNSSEC.  
Source: Mistat

- 1 Surfaren skriver in [computersweden.se](http://computersweden.se) i sin webbläsare. Webbläsaren skickar en fråga till resolvern (som sköter kommunikationen med dns) efter rätt ip-adress.
- 2 Resolvern skickar vidare adressfrågan till dns.



3 I vanliga fall skulle resolvern bara få tillbaka ett meddelande med en ip-adress – i CS fall 213.132.120.115 – men med dnssec följer det också med en signatur. Genom att kontrollera den kan resolvern avgöra om meddelandet kommer från rätt källa och att det inte ändrats.

- 4 Resolvern måste också kontrollera att signaturen skapats med rätt nyckel. Det sker genom att följa vad som kallas "chain of trust" till i det här fallet se-domänets rotserver.
- 5 Till sist skickas den godkända ip-adressen till surfaren.

SVENSKA GRAFIKBYRÅN

Om .SE

.SE (The Internet Infrastructure Foundation) is an independent public utility working to promote the positive development of the Internet in Sweden. .SE is responsible for the top-level Swedish Internet domain, .se, with the registration of domain names and the administration and technical operation of the national domain name registry. Through .SE's R&D activities, the foundation annually provides funding for projects that contribute in differing ways to the development and use of the Internet. Find out more at <http://www.iis.se>.

# .se