



.se health-check 2009

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Survey

- In all, 663 domains and 867 unique name servers were tested.
 - Public authorities at the central level (231)
 - Public authorities at the local level (290)
 - County councils (21)
 - Public utilities and state-owned companies (40)
 - Internet service providers (15)
 - Companies within media (24)
 - Banks and insurance companies (21)
 - Largest listed companies (30)
 - Universities and university colleges (33)
 - Comparison with a control group of 10,000 randomly selected .se domains.

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Check up

- Quality and reachability in the domain name system (DNS).
 - Compliance to Best Common Practice.
 - Open recursive name servers, Kaminsky vulnerability.
 - Deployment of DNSSEC.
- Deployment of IPv6.
- Important details relating to e-mail and web.
- Comparison of test results from 2007-2009.

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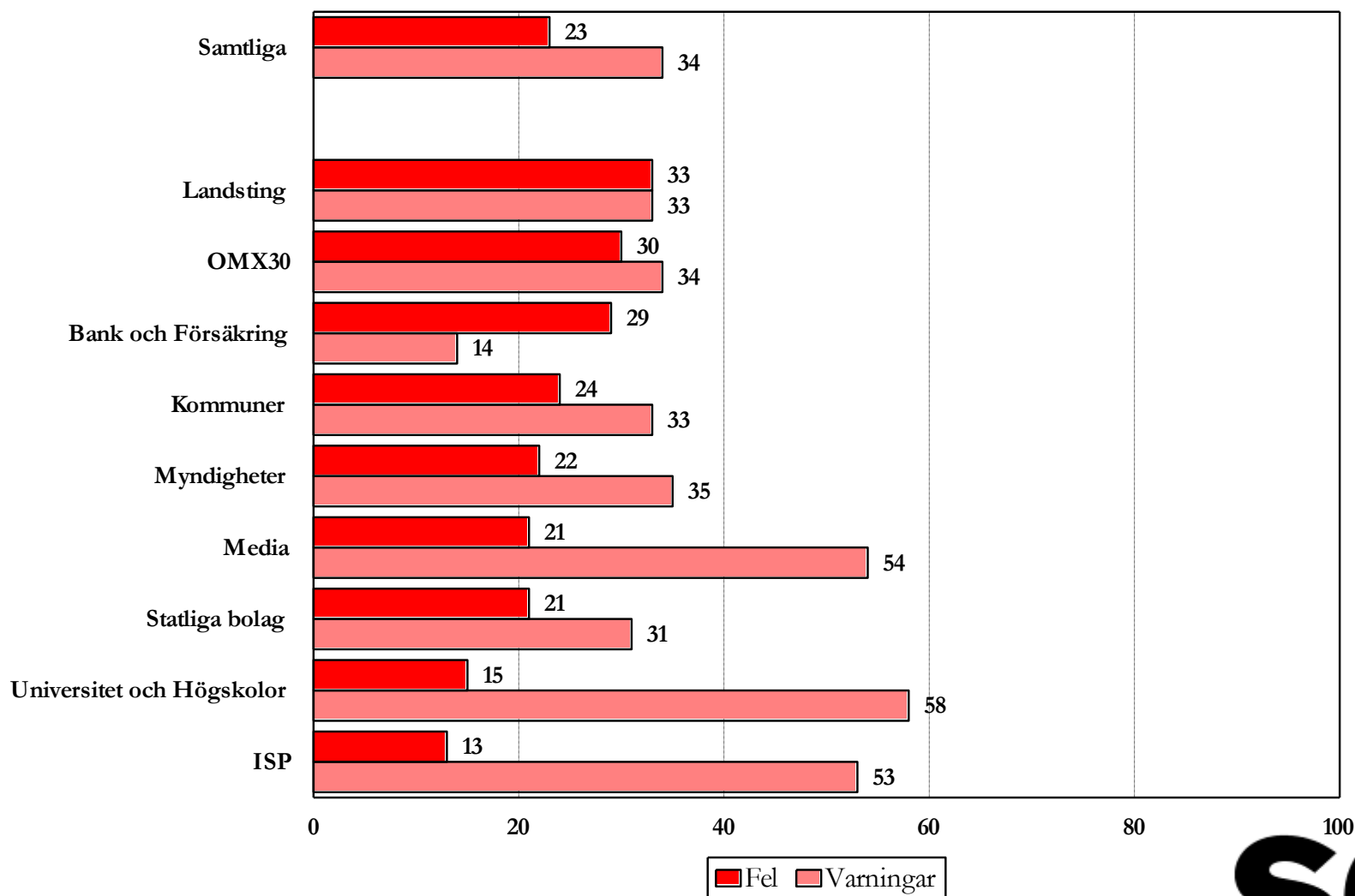


Definition - quality in DNS

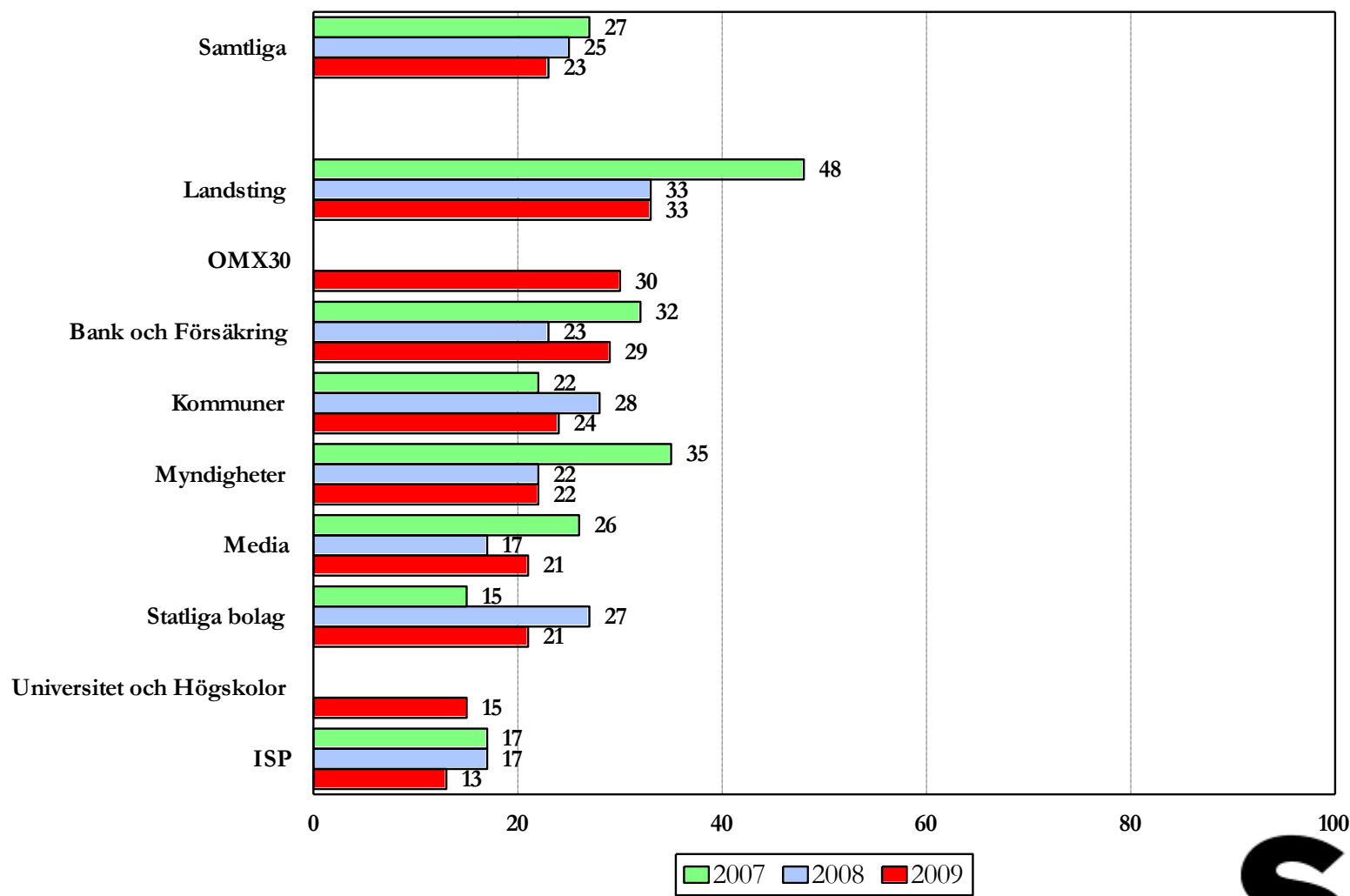
- A robust DNS infrastructure with high reachability
- All name servers involved answers all queries correctly.
- Domains and name servers are correctly implemented.
- DNS data in DNS about certain domains is valid and updated.
- The organisations DNS is compliant to standard.

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Findings 2009 – Errors and warnings

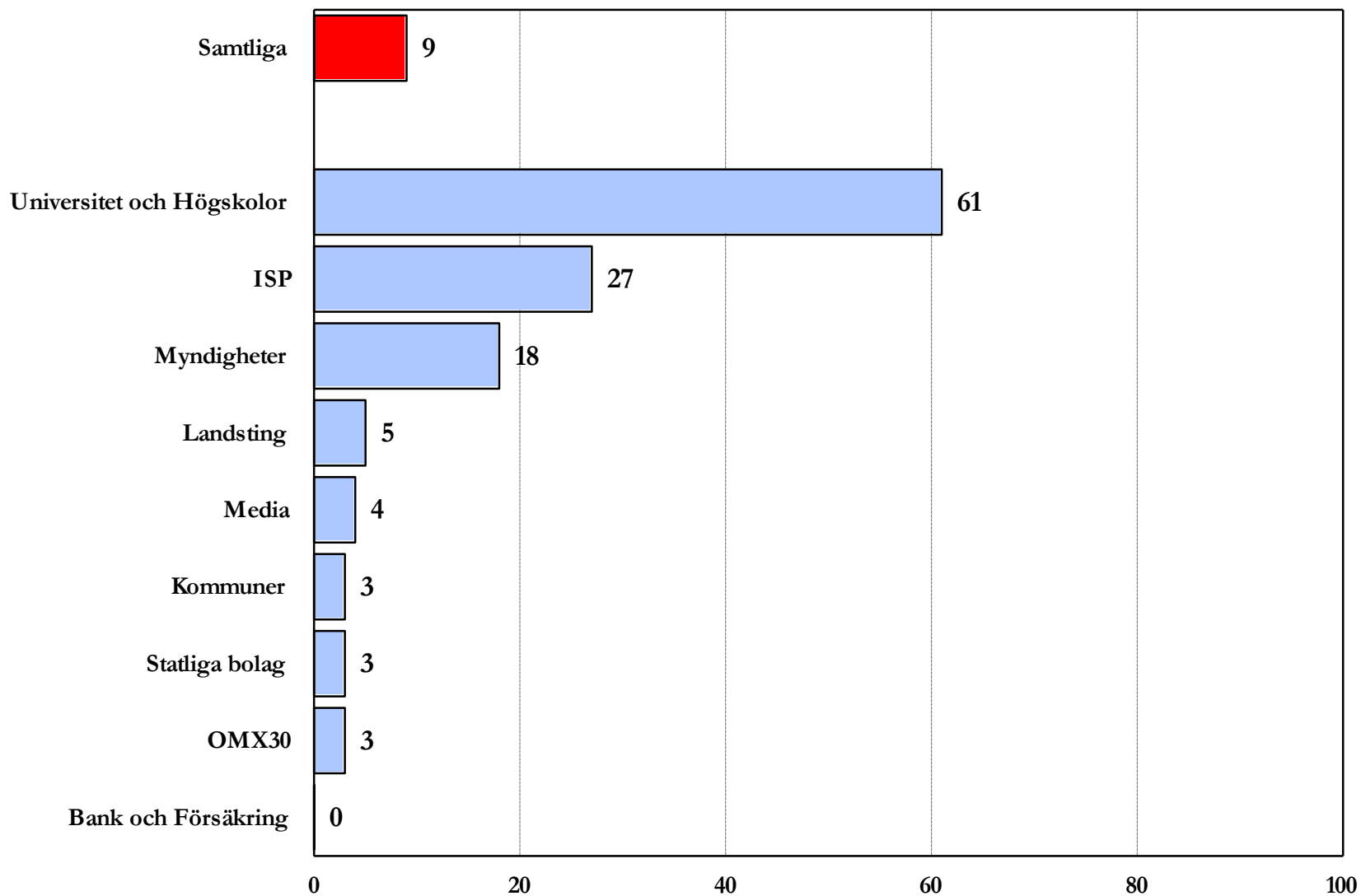


Errors and warnings 2007-2009

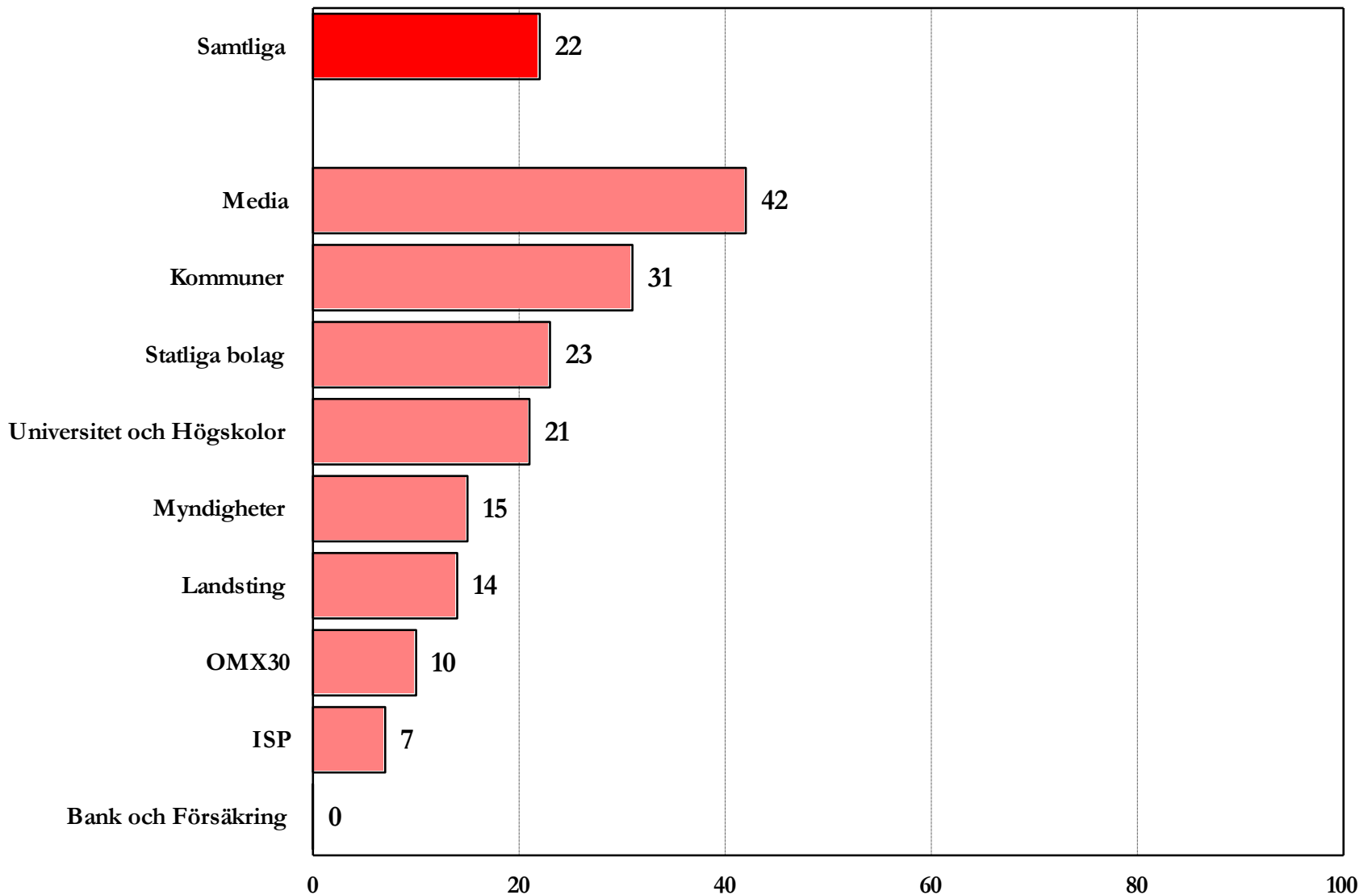


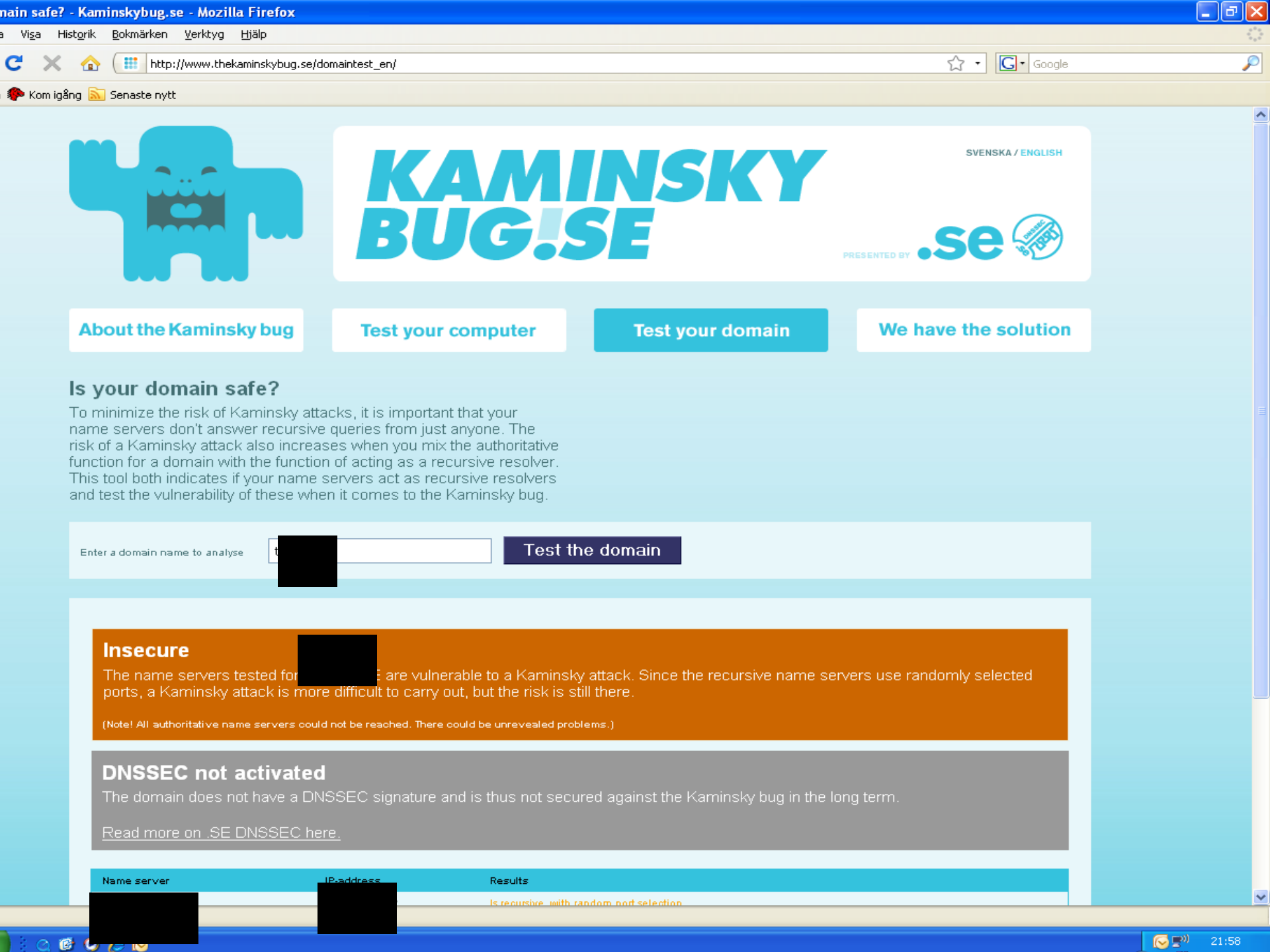
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IPv6 on name servers



Open recursive name servers





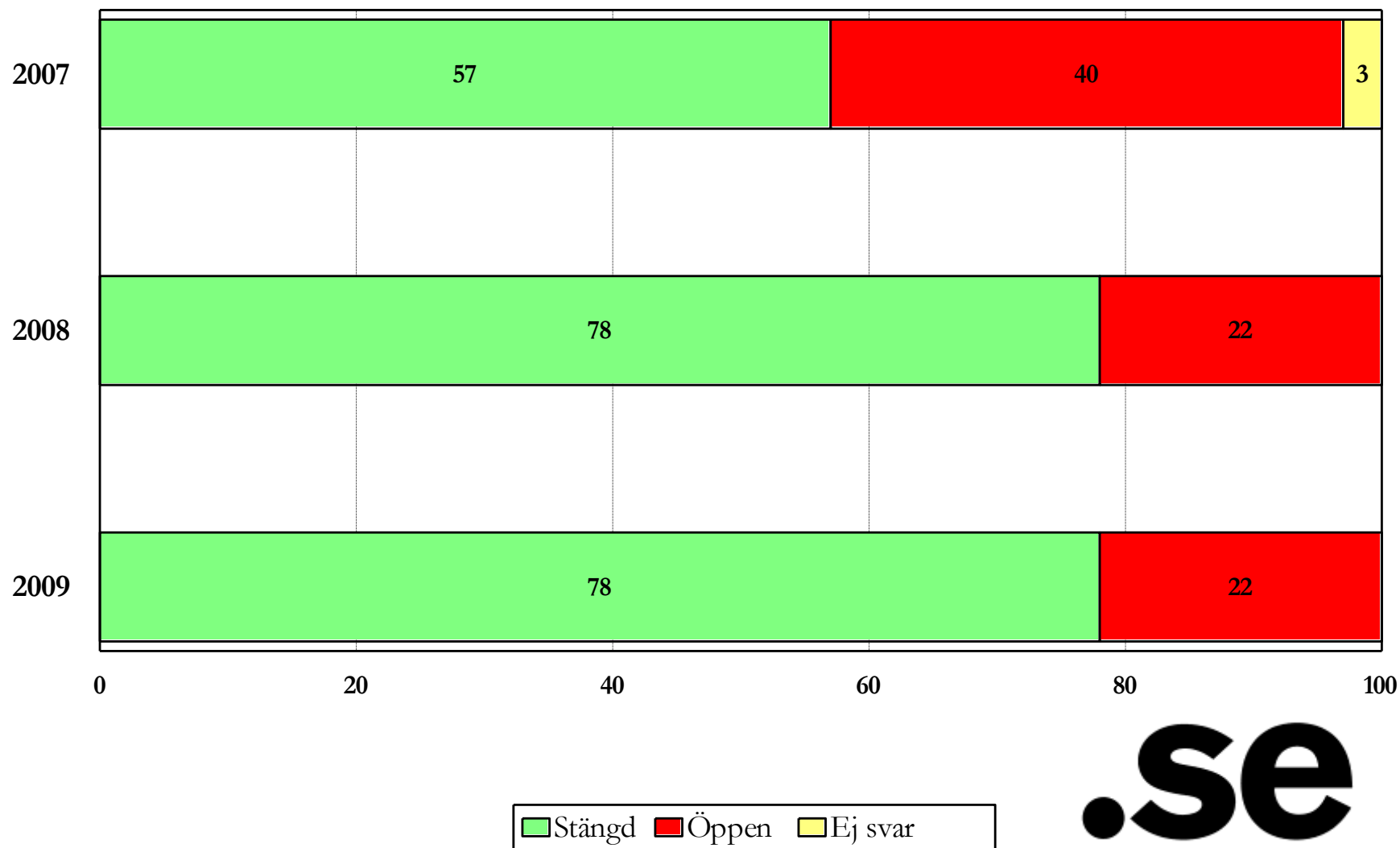


One domain– three name servers – three different responses

- DNS1- Is recursive, with random port selection.
- DNS2 – Not recursive.
- DNS3 - Is recursive, but doesn't seem to have random port selection.
- Note to self 1: tell the operator of DNS1 and DNS3 that they are supposed to deliver an authoritative name service.
- Note to self 2: Resolving and authoritative name servers should be separated.

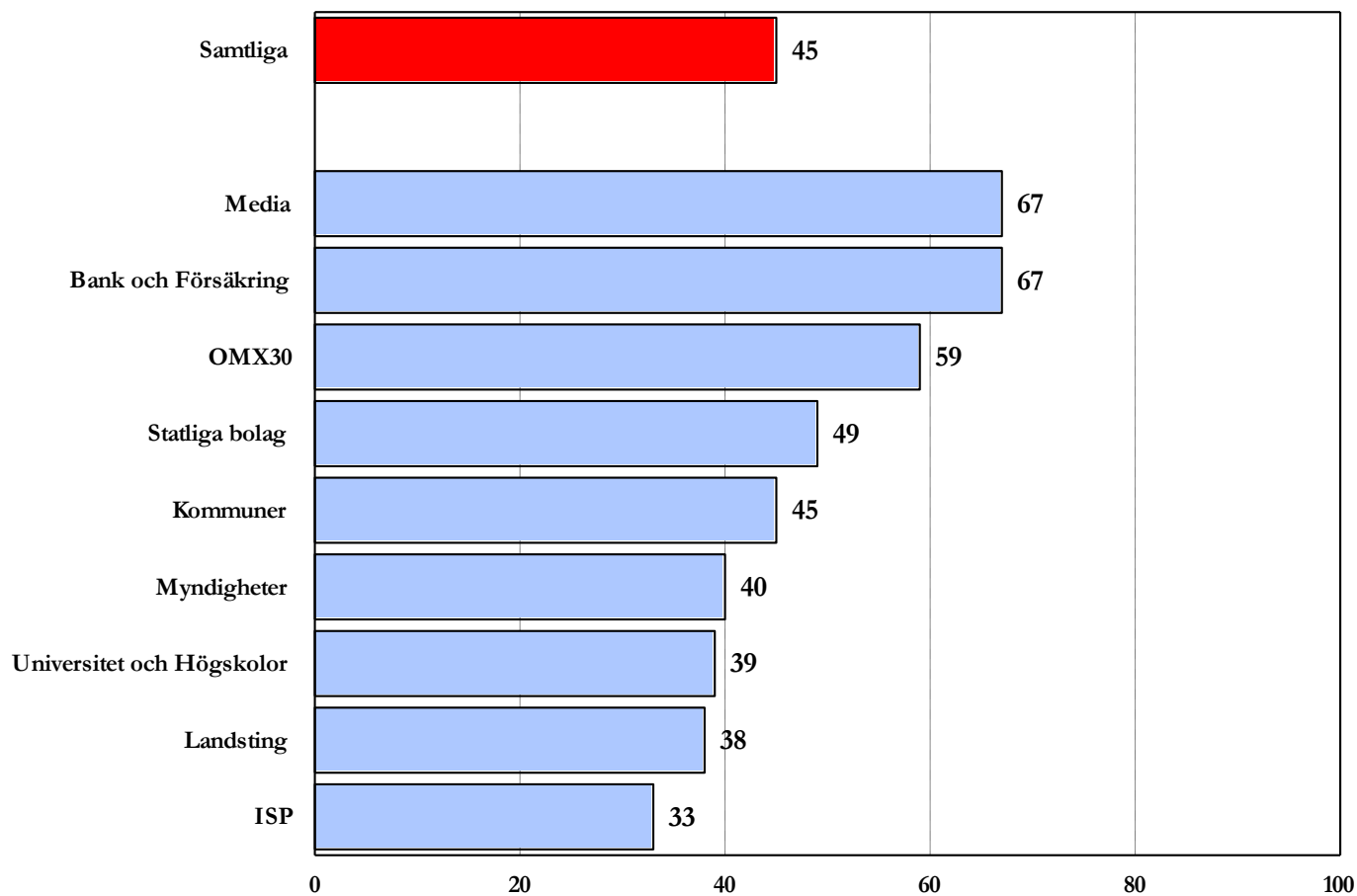
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Open recursive name servers 2007-2009



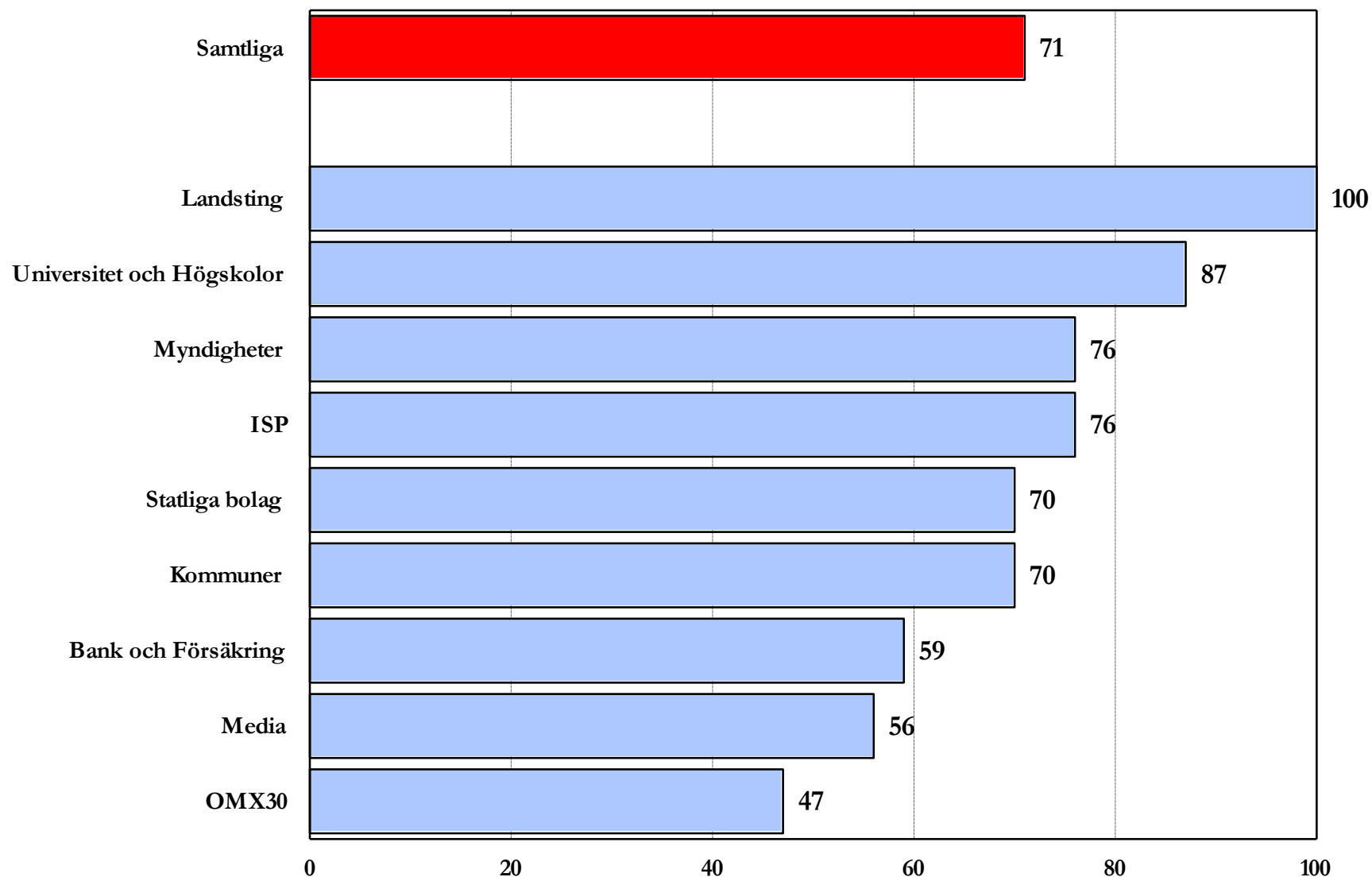
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E-mail servers supporting TLS



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Mail servers placed in Sweden





Web servers supporting TLS/SSL using web certificates

- No more than 25 per cent has support for TLS/SSL.
- 78 per cent out of the 25 have certificates issued by a well known and accepted CA (in the Mozilla Firefox browser).
- More than 20 certificates had expired, one 2004 in July.
- Many uses a weak hash algorithm (MD5) and/or short RSA keys.
- Few uses Extended Validation certificates.
- About 40 uses wild card certificates or certificates not related to the domain.

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Logga in

e-kod

e-legitimation

Förenklad inloggning

Personnummer:

Kontrollkod:

978 128

(Anges i kortläsaren)

Svarskod:

(Visas i kortläsaren)

[Logga in](#)

Instruktioner för inloggning

1. Starta kortläsaren genom att sätta in ditt kort utan att använda sladden. Chippet ska vara vänt nedåt och mot dig.
2. Texten "Välj Funktion" visas i kortläsarens fönster. Tryck på knappen LOGIN.
3. Knappa in ovanstående kontrollkod i kortläsaren. Tryck OK.
4. Texten "KortPIN" visas i kortläsarens fönster. Knappa in den PIN-kod du använder till ditt kort (MasterCard-, Visa- eller Inloggningskort) och tryck OK på kortläsaren.
5. Ange den niosiffriga svarskoden som kortläsaren skapat i fältet märkt "Svarskod" ovan.
6. Klicka på "Logga in" ovan.



Viktiga meddelanden

Viruskontroll

Är du orolig för att din dator kan vara smittad med virus? Gör en viruskontroll med [Virusverket](#) [Norman Malware Cleaner](#)



Den här anslutningen är inte tillförlitlig

Du har instruerat Firefox att ansluta till **www.nb.se** på ett säkert sätt, men det går inte att bekräfta att anslutningen verkligen är säker.

När du i normala fall försöker ansluta på ett säkert sätt kommer webbplatser att presentera tillförlitlig identifikation som bevisar att du kommit till rätt plats. Den här webbplatsens identitet kan däremot inte verifieras.

Vad bör jag göra?

Om du vanligtvis utan problem ansluter till den här webbplatsen kan det här felet tyda på att någon annan försöker utge sig för att vara rätt webbplats och du bör därför inte fortsätta.

Ta mig härifrån!

▼ Tekniska detaljer

www.nb.se använder ett ogiltigt säkerhetscertifikat.

Certifikatet är endast giltigt för www.nordea.com.

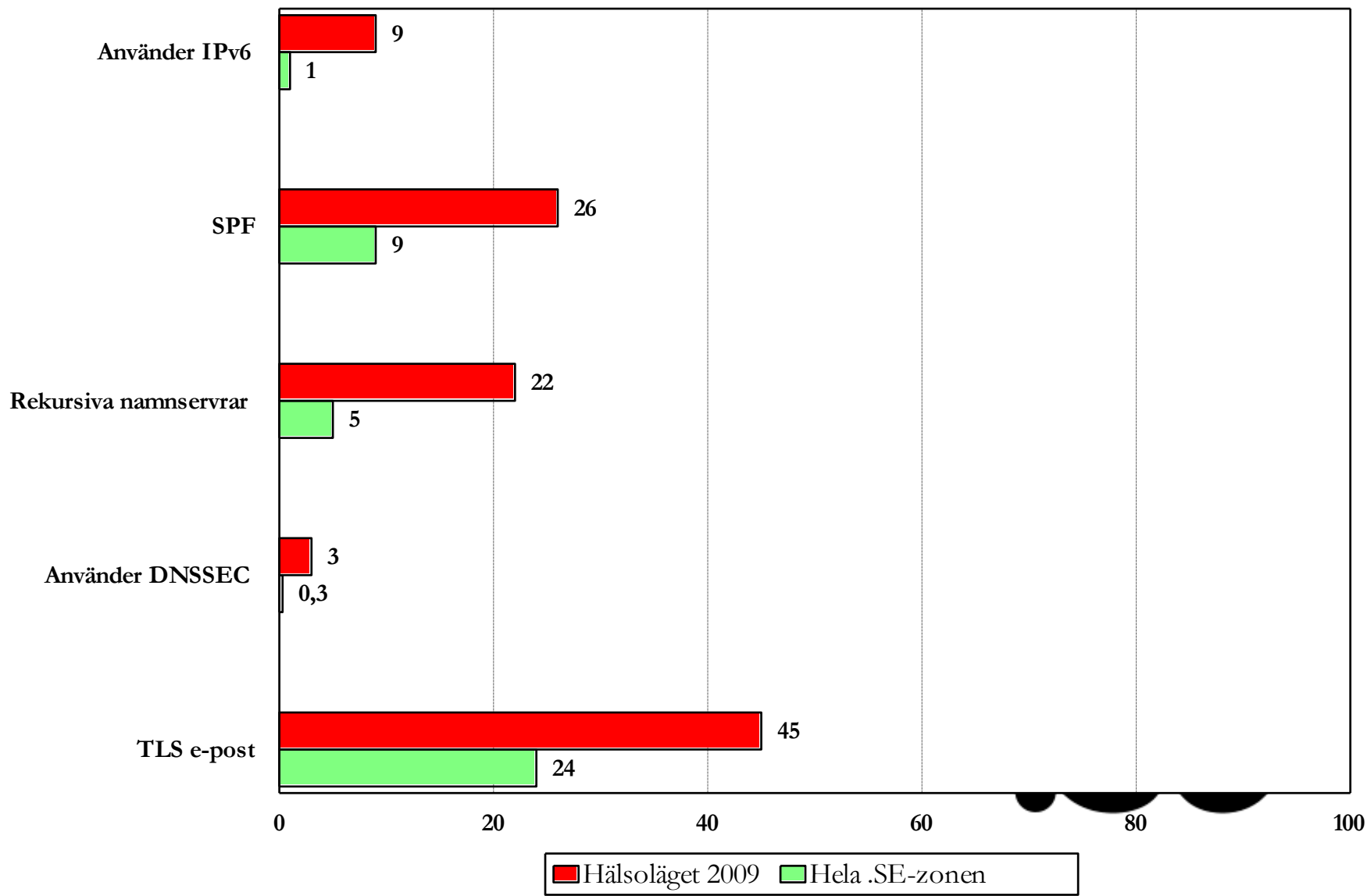
(Felkod: ssl_error_bad_cert_domain)

► Jag förstår riskerna

The SSL Certificate we found on this site is not meant for nb.se/, probably this is another site on the same server.

We advise you not to submit any confidential or personal data to this web site because a secure connection could not be established with this web site.

Comparing with the .se-zone





Good example 1- local authorities

- Local authorities – recommendation for improvement of the information security:
 - Analyze the DNS with DNSCheck.
 - Check DNS-servers behind firewalls.
 - Check that SOA Expire is at least one week.
 - Check for Kaminsky vulnerability.
 - Deploy DNSSEC,

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Good example 2 - Banks

- Agreed upon a common e-mail policy.
- #1: "Valid sender of e-mail".
 - Case 1: Bank sends e-mail to customers.
 - Case 2: Bank uses external distribution service for e-mail to customers.
 - Case 3: Bank uses external distribution to send e-mail to the banks own staff (surveys).
- #2: "Secure e-mail communication between banks".
- Written generally on a high level. Mentions that banks should introduce techniques to secure e-mail.

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Thank you.
Questions?

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