Promotion of DNSSEC deployment for governmental organizations in Sweden

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National Post and Telecom Agency in brief

- Monitors the electronic communications
- Approximately 250 employees
- Turnover: € 67 million for 2006
- Financial model:
  - By direct charges, approximately € 25 million/y
  - Appropriations from the national budget for security measures + services for people with disability, approximately € 42 million/y
Objectives

PTS has four overall objectives:

- Consumer interests in focus
- Efficient competition
- Efficient utilisation of resources
- Secure communications
Secure communications

- Everyone shall have access to secure communications
- Privacy protection shall be high
- Sweden shall have a robust infrastructure for communications services and an attractive exchange of information in IT security issues
Threatening picture

- Cable disruption by excavators
- Physical attacks
- Logical attacks
- Crime
- Terrorism
- Sabotage
- New technology
- Electrical power supply
- Accidents/mistakes
- Insider
- Profit interest
- Public economy
Assignment from the Government

- Strategy to improve Internet security in Sweden,
- Delivery July 30, 2006, approved by Government in Dec -06

The strategy in English may be downloaded from:

- An action plan is included:
  One of the 23 actions in the plan is: DNSSEC promotion
DNS for organizations in the public sector
….some work to be done

Observations

Inaccuracy:

- Too few nameservers  5
- No TCP  55
- Wrong glue  2
- cname as ns  1
- incorrect delegation  19
- Just one operator  120
- No EDNS  21
- Recursion activated  84
Used software:

- NSD 4
- TinyDNS 3
- PowerDNS 2
- MyDNS 5
- ISC BIND 4 2
- ISC BIND 8 16
- ISC BIND 9 218 (out of which 50 with 9.2.2-P3)
- Windows DNS NT 2
- Windows DNS 2000 19
- Windows DNS 2003 2
So – what have we done so far...

- Test of deployment and use of DNSSEC during 2006 – see documentation http://www(pts.se/Archive/Documents/SE/sakerhet_domannamnssystem_2006_36_okt.pdf
- Presentation of the tests at a local big Internet event in Stockholm Oct. -06
- Seminar together with the .se registry on DNSSEC for end-user deployment in Stockholm in Feb. -07
- We have met all the major operators in Sweden to try to convince them to deploy DNSSEC in resolvers
Plan to do stocktaking of the DNS in public sector as a basis for DNSSEC deployment

To serve as a good example, PTS intends to be the first public organization in Sweden to sign its zone (pts.se)

As a stimulating step PTS offer 100 h expert support to the first DNS-operator deploying DNSSEC in name servers (authoritative and/or resolvers)

Now, we are waiting for our nameserver operator to sign our zone – they are just working out how to do …
Thanks!