DNSSEC in .si

Where we are

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Agenda

• Past actions
• Current status
• Future plans
• Conclusion
Past actions

• Recursive DNS servers
  - Turned on validation in 2010
  - Monitoring traffic, anomalies, increase of TCP...

• Authoritative zone(s)
  • Prepare for signing .si
    - A lot of testing
      - HSM modules
      - Different rollover scenarios
    - Traffic
    - A lot of documentation
Current status

• At the end of 2011
  - .si was signed
  - DS records were published in root zone

• No problems with signing procedures

• DNSSEC provisioning in the registry sistem is not ready yet

• DS records for .si domains
  - cca 20 .si domains have DS records in .si
  - No real interest
Current status

• Resolver operators
  - On 7th place according to a RIPE report

• Government shows some interest in DNSSEC
  - Validation on their recursive resolvers
  - Signing of their domains later
Current status

- Knowledge about DNSSEC is quite low
- Afraid of technology
- No more zero time administration
  - Regular key rollovers
  - Difficult debugging
  - No immediate benefit from DNSSEC
- Chicken and egg problem
Future plans

• Adapt our registry software to support DNSSEC
• Offer an optional DNSSEC signing service for our customers (as NREN)
• Convince resolver operators to turn on validation
• DNSSEC workshops for all interested parties
• Marketing of DNSSEC
• Discounts for DNSSEC signed domains?
Conclusion

• Although we have signed .si, we are still far from a full deployment

• Some new problems
  - Transfer of DNSSEC signed domains
  - DDoS amplification attacks

• For a real spin off we need
  - Good DNSSEC awareness among internet users
  - Critical mass
  - A good application/service which uses benefits of DNSSEC (maybe DANE)