DNSSEC in .SE

RIPE'50

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.SE

- NIC-SE is the registry for .SE

- Approximately 320 000 domains

- Swedish government pushes for DNSSEC
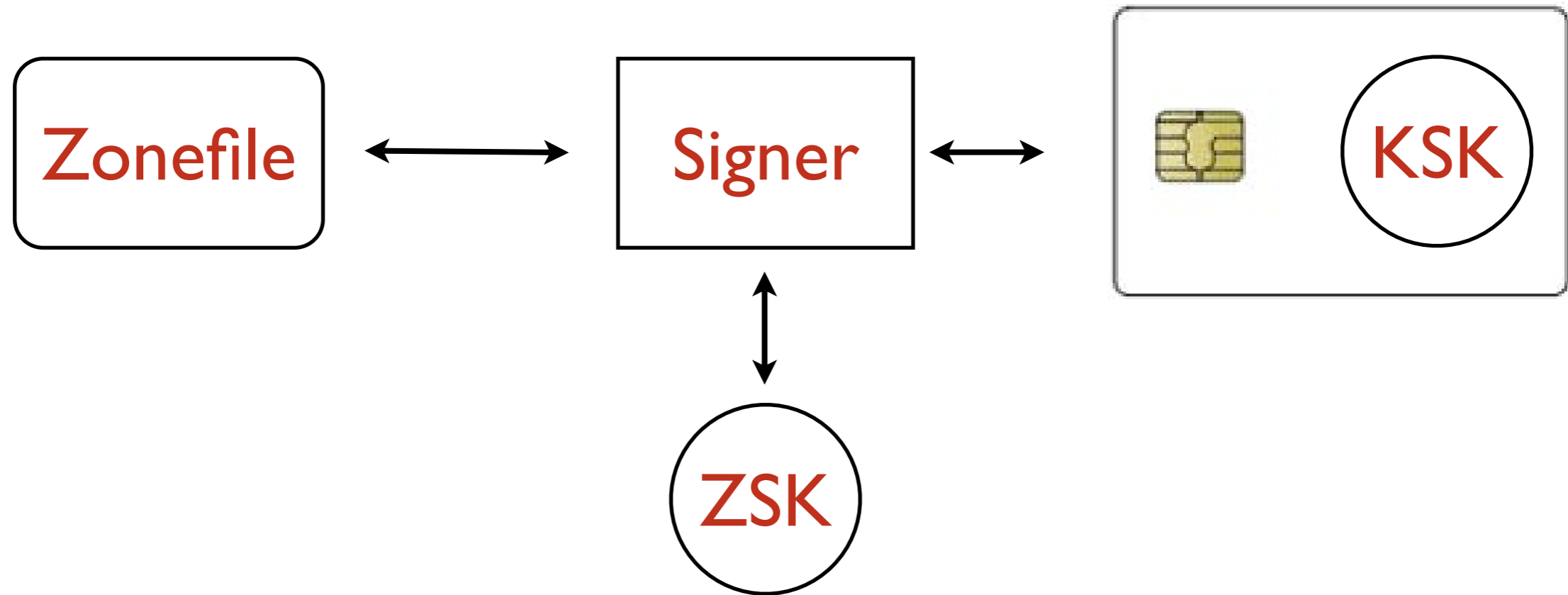
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So far...

- Signed .SE zone in test operation since January 2003

- Key management system development
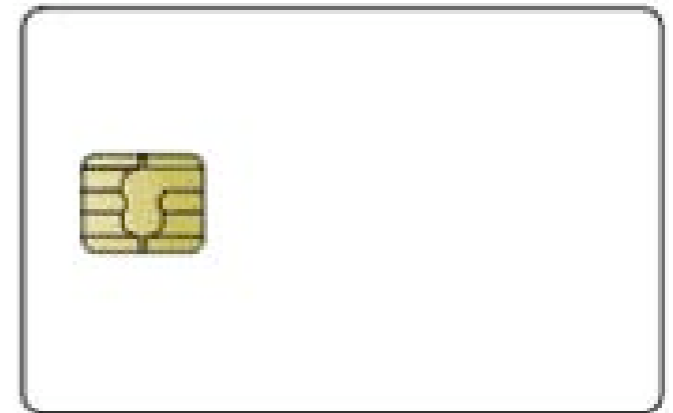
- Smartcard-based DNSSEC key signer

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Smartcard Signing

What is a Smartcard?

- Small HSM on a plastic card

- Very slow

- Same API as large HSMs

- approx €12 per card

Smartcard Key Signer

- Signs a keyset using a key stored on a PKCS#15 smartcard

- Open source software available at http://dnssec.nic.se/sc/

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What's next?

- Server software upgrade at slaves

  - Beginning of summer 2005

- Signed zone in production environment

  - End of summer 2005

- Key management for domain administrators

  - Late autumn 2005

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Within one year

- Sign important DNS infrastructure

  - Government, mass media, banks...

- Enable DNSSEC validation at Swedish ISPs

- Implement DNSSEC for ENUM

- Launch EPP with DNSSEC for registrars

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Questions?

http://dnssec.nic.se/