DNSSEC status in CZ.NIC

CZ.NIC Ondřej Surý / *ondrej.sury@nic.cz* 8. 5. 2008

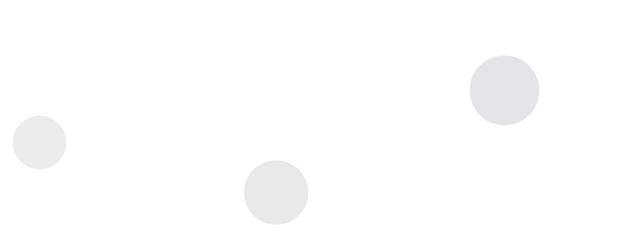


0.2.4.e164.arpa DNSSEC status

- First ENUM zone with DS records in e164.arpa :)
- Zone signed and DS records uploaded on Apr 28 2008
- Sign on every generation or weekly (what comes first)
- Using DISI tools
- Plan to switch to HSM signing after we make it work

.cz DNSSEC status

- Nothing done yet
- Waiting for HSM



HSM – two cards in testing now

- Sun SCA6000 PCI card
 - ZSK storage and zone signing
- nCipher nShield F3-500
 - KSK storage and keys signing





Sun Crypto Accelerator 6000 PCIe

• Pros

- Fast (13.000 RSA per sec)
- Cheap (€ 1 150,00 list price)
- FIPS 140-2 Level 3
- Cons
 - Solaris, RHEL 4 and SLES 9.x support only
 - Protected only by password
 - Few ciphers available (SHA1, RSA, ...)
- Status
 - dnssec-keygen can generate key
 - dnssec-signzone stuck on C_SignInit (CKR_OBJECT_HANDLE_INVALID)

nCipher nShield F3-500 PCI card

• Pros

- Secure Card certificate storage, 4+-eye principle
- FIPS 140-2 Level 3
- More ciphers (SHA-1, SHA-2, RSA, DSA, ...)
- More platforms supported (AIX, HP-UX, Linux, Windows)
- Cons
 - Slower
 - More expensive (€ 12 700,- list price)
- Status
 - We can use PKCS#11
 - dnssec-keygen and dnssec-signzone doesn't work yet

Future

- Near future make HSM work
- Not-so-near future .cz signed
- August 2008 EPP interface testing
- September 2008 production

Questions?

