# DNSSEC deployment in .cz & 0.2.4.e164.arpa

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# About CZ.NIC

- Founded in 1998 by group of 16 ISPs
- Special interest association of legal entities
- 57 members growing (open membership)
- Registry-Registrar model (28 registrars)
- Liberal registration model no restrictions
- Domains currently
  - -.cz 480 000
  - 0.2.4.e164.arpa 4 700
- Fast growth 36%
- Securing DNS

# Conditions

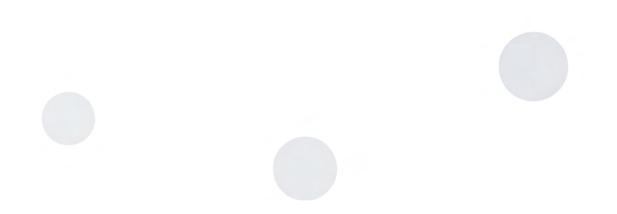
- Available for .cz and 0.2.4.e164.arpa
- Key sharing
  - same keys for multiple domains
  - reduces overhead
- Free of charge
  - not service, but feature
  - within domain registration fee
- Using registrars no model change
- Fully integrated into FRED http://fred.nic.cz

# Conditions

- Operations and security
  - Based on RFCs
  - Keys RSA-SHA1 2048/1024bit
  - High security
- Zone walking problem
  - no personal data disclosed
  - approved by Personal Data Protection Office
  - NSEC3 later
- ISC DLV



#### How it begun?





### Timeline

- 29.2.2008 Public announcement WP issued
- 28.4.2008 ENUM zone signed
- 28.4.2008 Final version of WP issued development started
- 15.8.2008 Testing for registrars
  - 1.9.2008 .CZ zone signed
- 30.9.2008 End user registration start

#### **Current status**

- 250 signed .cz domain
- 6 signed ENUM domains
- Supported by largest registrars special product – "secure domain"
- Large newspaper support http://www.lidovky.cz
- Some ISP joined
- http://www.nic.cz/dnssec information and simple test



### **Future work**

- Communication
  - Largest ISPs
  - Portals and search engines
  - Large companies banks, newspapers
  - Government
- Laboratory dnssec compatibility
- Education
- Other registries
- Sign the root!

#### **Questions?**

## Thank you!

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