

DNSSEC.CZ

CZ.NIC - <http://www.nic.cz>

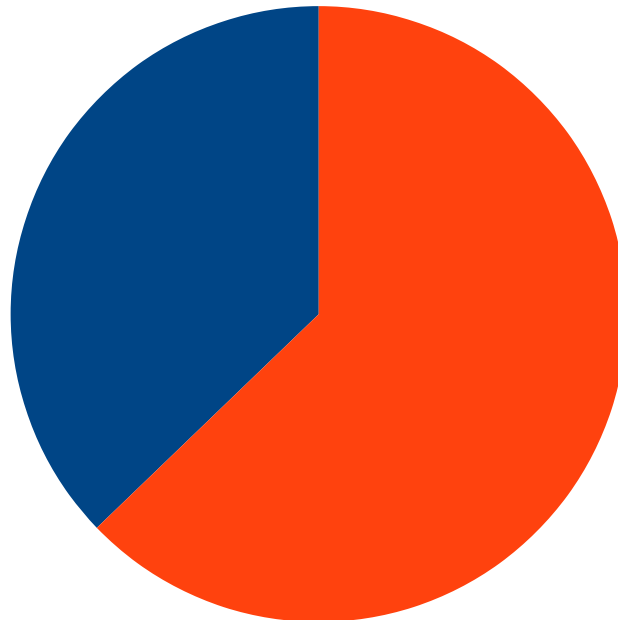
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Oct 16 2012, Toronto, ICANN, ccNSO meeting

DNSSEC penetration



- About 37,2% domains is signed
- That means ~ **368.000** domains! (of ~ 988.000)
- Check numbers at <http://www.nic.cz>






Key points

- Incentives for registrars
- Direct communication with major stakeholders
 - registrars, ISPs, and Government, major websites
- Open source supporting tools
- Long term PR
- Technical conferences
- DANE (?) - SSL certificates in DNS

Incentives for registrars



- **Technical** – DNSKEY object shared by multiple domains – bulk key root over etc.
- **Marketing** – Registrar certification – hard to get 5 stars without DNSSEC support
- **Financial** – Co-marketing – 50% expenses coverer if campaign related to .cz – DNSSEC penetration means higher caps

Registrar	Website	Technologies	Certification
KRAXNET s.r.o.	http://www.xnet.cz	  	
IGNUM, s.r.o.	http://www.domena.cz	 	
ZONER software, a. s.	http://www.reqZone.cz	 	
Web4U s.r.o.	http://www.spravadomen.cz	  	
ACTIVE 24, s.r.o.	http://www.active24.cz	 	

Direct Communication

- **Government** – eu2009.cz – Czech EU presidency – signed
- **Important web sites** – news papers, e-shops, portals
- **ISPs** – special request - “unsign” broken domains – periodic checks, hot line
- Technical conferences



Tools



- Browser DNSSEC addon – Firefox, Chrome, IE
- Open validating resolvers
- DNSSEC hardware tester
- DNSSEC HTML widget
- Check <http://labs.nic.cz>
- Open source

A dark grey semi-transparent overlay showing network status. It has a title "Your Internet connection" and lists several items with green status indicators: "DNSSEC protection", "IPv6 protocol", "IPv4" with a downward arrow and "4.9 Mbps", "IPv4" with an upward arrow and "306.7 kbps", "IPv6" with a downward arrow and "4.9 Mbps", and "IPv6" with an upward arrow and "302.6 kbps".

Your Internet connection	
●	DNSSEC protection
●	IPv6 protocol
●	IPv4 ▼ : 4.9 Mbps
●	IPv4 ▲ : 306.7 kbps
●	IPv6 ▼ : 4.9 Mbps
●	IPv6 ▲ : 302.6 kbps

A screenshot of a Mozilla Firefox browser window. The title bar reads "CZ.NIC - O DNSSEC - Mozilla Firefox". The address bar shows "http://www.dnssec.cz/" with a green key icon on the left and a search icon on the right. The browser interface includes a menu bar (File, Edit, View, History, Bookmarks, Tools, Help) and a toolbar with navigation buttons. A single tab is open with the title "CZ.NIC - O DNSSEC".

CZ.NIC - O DNSSEC - Mozilla Firefox

File Edit View History Bookmarks Tools Help

← → ↻ × 🏠 CZ http://www.dnssec.cz/ ☆ 🔍 Google

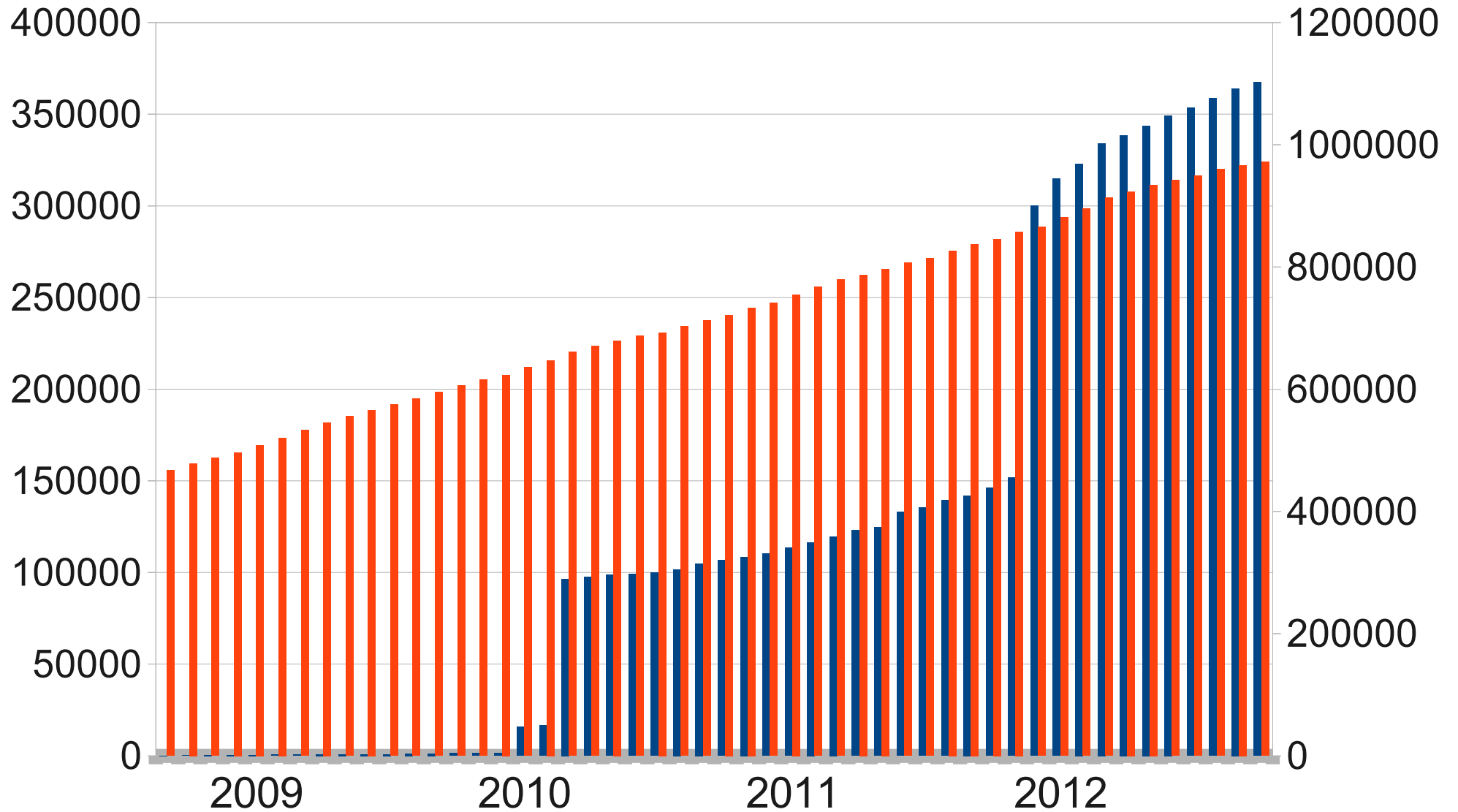
CZ CZ.NIC - O DNSSEC

Campaigns

- Good domain – IT Crowd style guy explaining why is important to have a domain
- Twins – strange video played by people looking like some celebrities – secure domains
- How to use Internet – 2 minutes educational spots – prime time – major Czech TV, DNSSEC and IPv6



Statistics



Current situation



- 37,2% of all Czech domains - growing
- All major registrars (with 90% of market share) support DNSSEC – many of them by sign default
- Many major ISPs validate (2 of 3 cell phone operators – Telefonica and Vodafone; majority of B2B; major xDSL provider
- Many important sites signed
- DNSSEC in government strategy draft – Digital Czech 2.0

Thank you!



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<http://www.dnssec.cz>