

DNSSEC.CZ

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

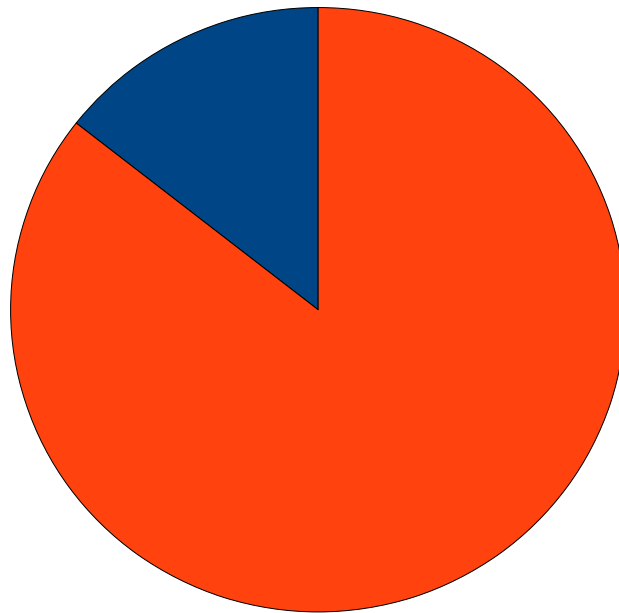
Ondrej Filip / ondrej.filip@nic.cz

May 3 2010, Prague, RIPE-60

DNSSEC penetration



- About 15% domains is signed
- That means ~ **98.000** domains !



Common complaints

- There is no business case
- Registrars do not want it
- Registrants do not want it
- It is too expensive
- It is too complicated
- Chicken and egg



Our philosophy

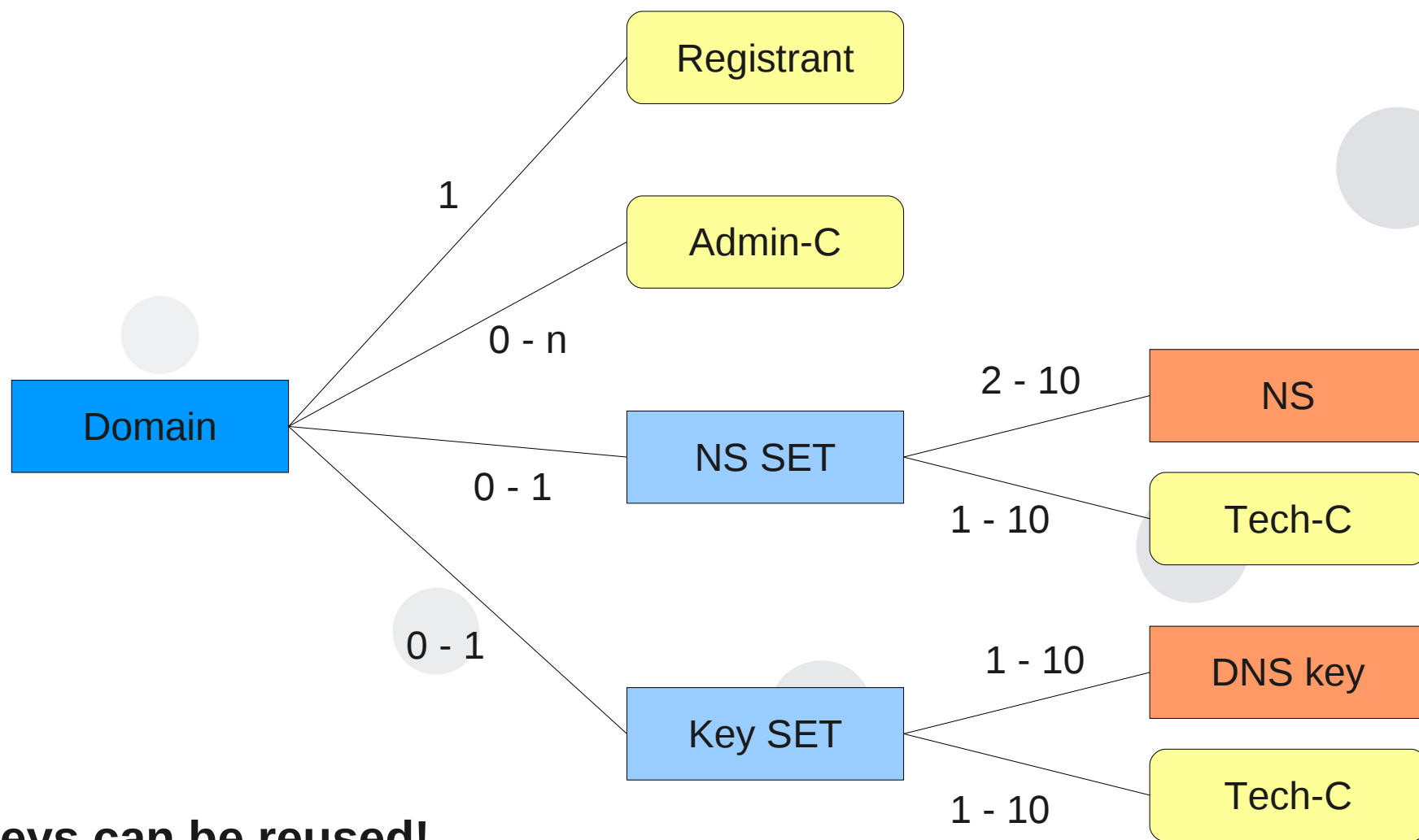
- Somebody must start it up
- Security is not a special service
- Security is a feature, natural part of domains
- Registry responsibility
- We need to find allies - ISPs, registrars, content providers, endusers



Communication with registrars

- Seminars before, after DNSSEC launch
- Nice conditions – no fee
- DNSSEC training
- Positive discrimination in co-marketing programme
- Technical support for bulk DS record registration – no DS record, but keyset

.cz registry data structure



Keys can be reused!

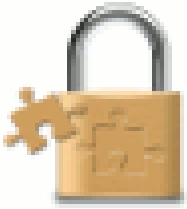
Co-marketing

- Registrar & CZ.NIC together
- Cost split 50:50
- Maximum limit is based on registrar performance
- DNSSEC bonus
- 10% of price given back
- One DNSSEC campaign already during 2009

End user education



- Increase the awareness ... always good
- Presenting and explaining attacks against DNS
- Communication with important players
- Marketing communication – Dobra domena
- <http://www.dobradomena.cz/#/en/security/>
- DNSSEC tools @ beta stage
- Research Labs <http://labs.nic.cz>
- Open source



DNSSEC HARDWARE TESTER

- Test DNSSEC compatibility – device (and network)
- Online database - EN/CZ/HU

ZYXEL – LIST OF DEVICES

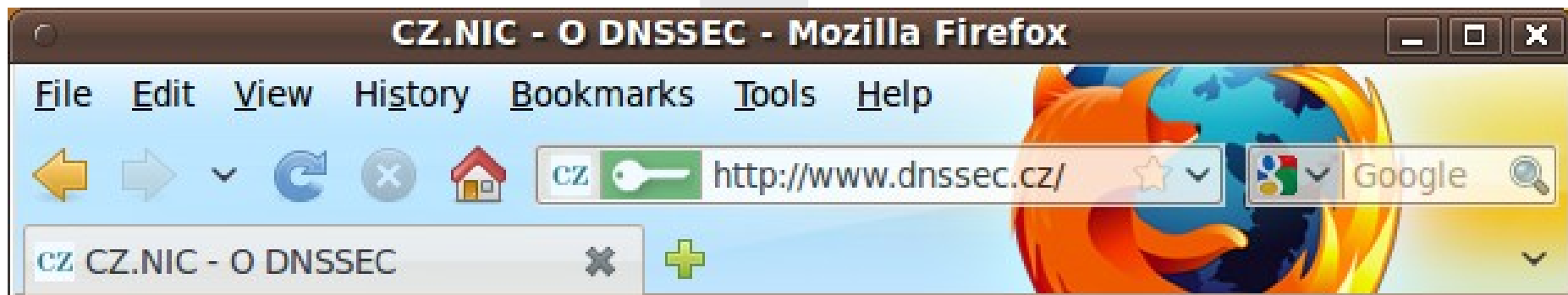
Device	Reports	Score	CZ.NIC score	DNSSEC compatibility	Last test
ZyXEL P-320W	1	102	0	☁ 52%	06-12-2009
ZyXEL P-660HW	4	574	0	☀☁ 72%	08-12-2009
ZyXEL P-660RU	1	182	0	☀ 92%	08-12-2009
ZyXEL P-660R-63	1	182	0	☀ 92%	02-01-2010
ZyXEL P-661HW	0	0	0	–	–
ZyXEL USG 200	0	0	0	–	–

- Windows / Linux / Mac OS supported
- Download at www.dnssectester.cz



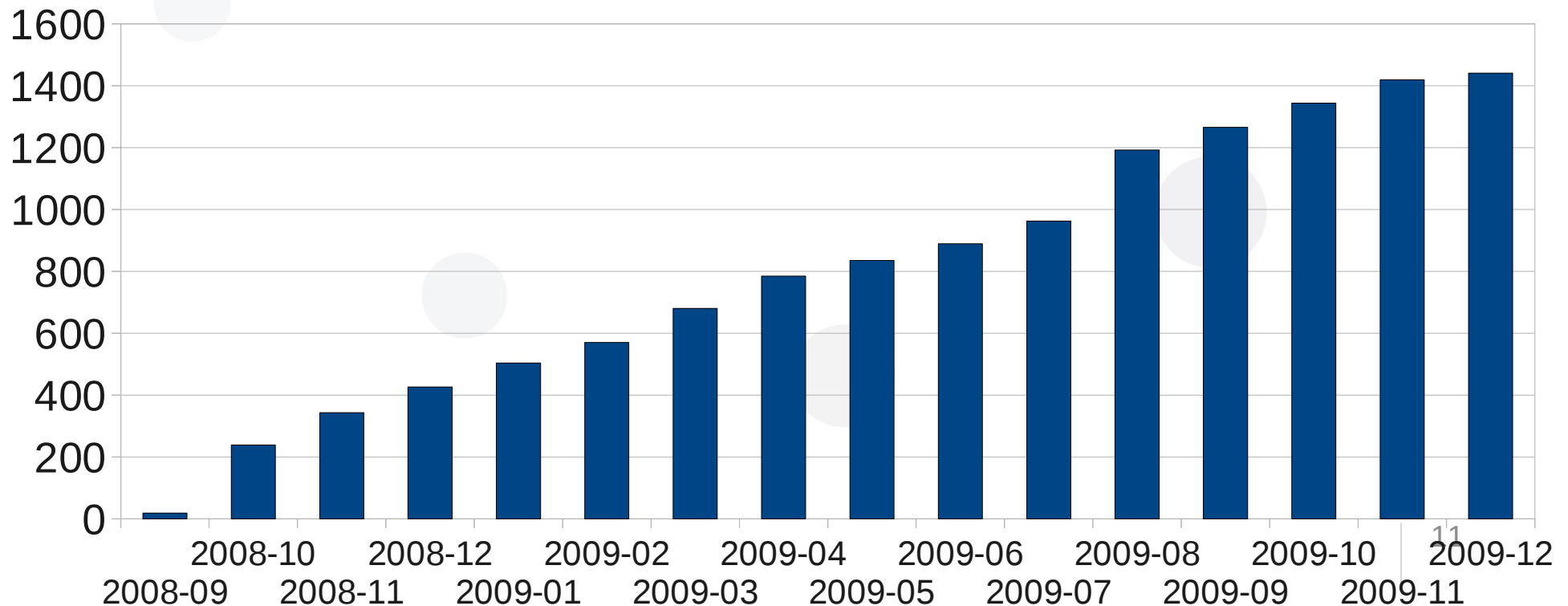
DNSSEC Validator

- Firefox add-ons - Shows icon similar to 'https'
- Validates domain name in the address bar
- No DNSSEC, broken DNSSEC, functional DNSSEC
- Download at: <http://www.dnssec-validator.cz/>
- More by Ondrej Sury during DNS WG on Thursday

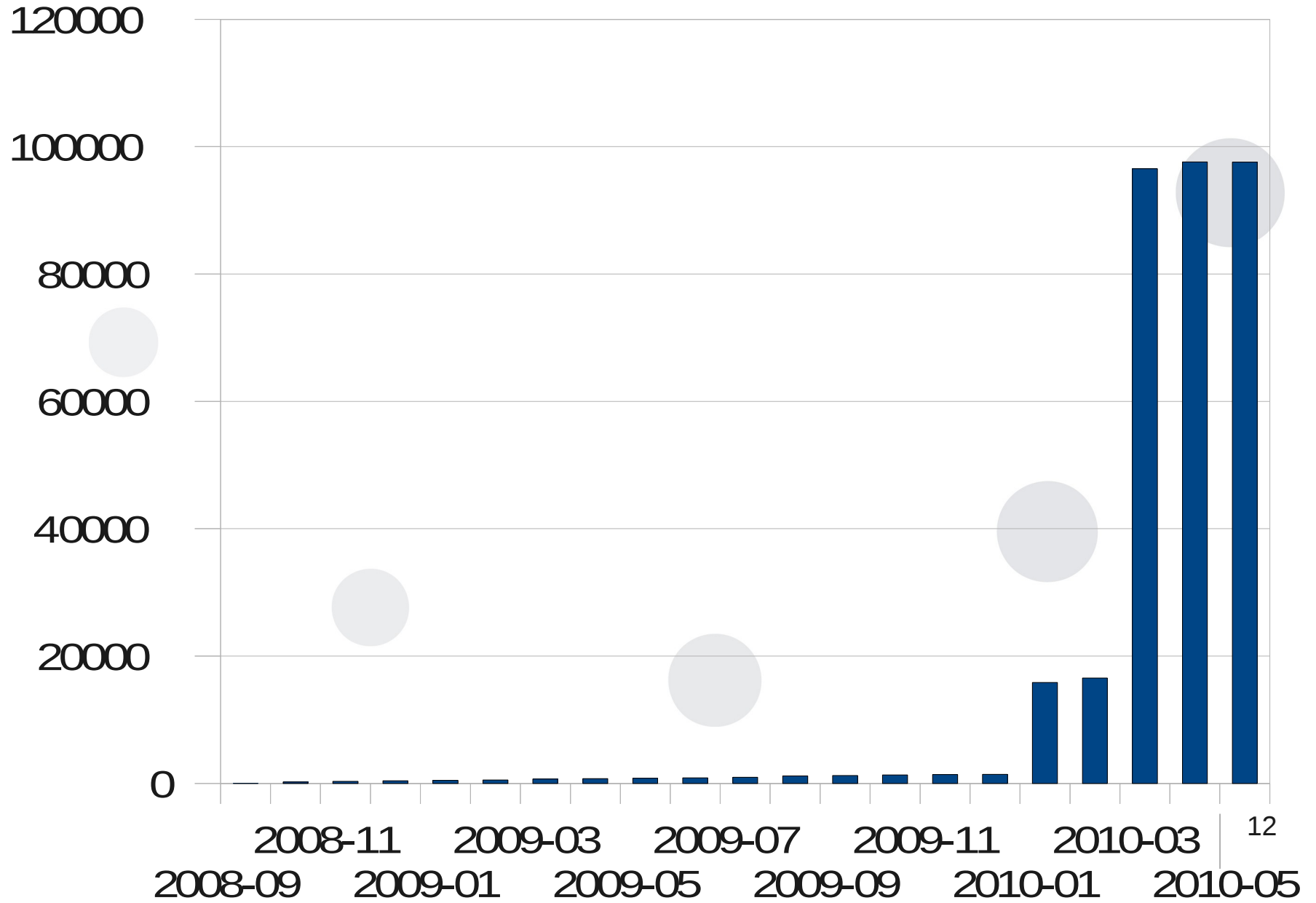


After launch

- Some registrars started to offer DNSSEC
- But as a bundle in 'secure domain' product
- For small additional fee



But later



DNSSEC

web4u



- Two registrars enabled DNSSEC by default
- For domains on their DNS
- No additional fee
- Marketing advantage
- Well communicated – very good media coverage
- Competitive advantage

Conclusion

- DNSSEC matters in CZ
- As pioneers we (all involved parties) face some small problems in implementation
- It is not so complicated
- Welcome to country with the most secured DNS in the world :-)
- Thanks to RIPE NCC for enabling DNSSEC validation on local meeting resolvers



Thank you

Questions?

Ondrej Filip
ondrej.filip@nic.cz
<http://www.dnssec.cz>