Enum in Czech Republic

CZ.NIC z.s.p.o.

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http://enum.nic.cz/





About CZ.NIC

- Special interest association of legal entities
- Founded in 1998 by group of 16 ISPs
- Open membership
- 53 members growing
- Registry-Registrar model (17 registrars)
- Liberal registration model no restrictions
- 320.000 registered domains
- Member of EURid (.EU)

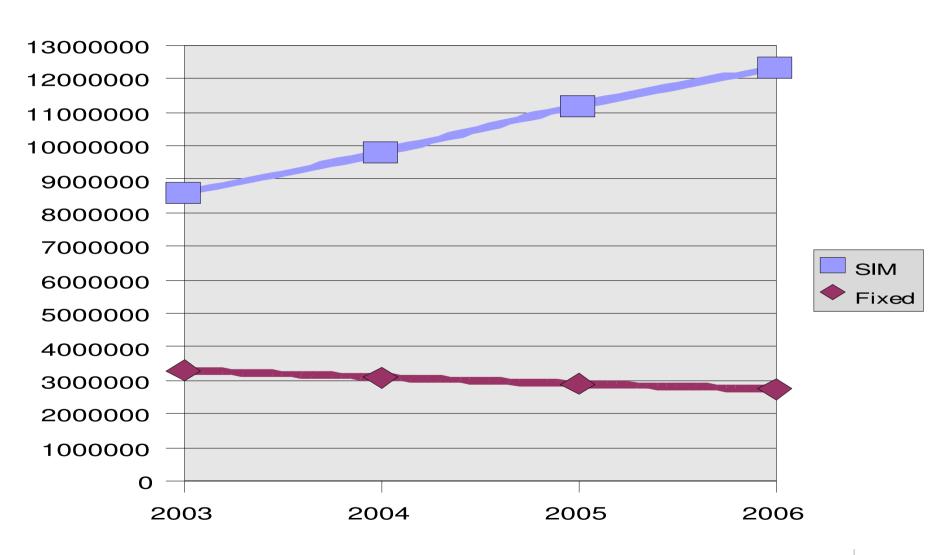
Situation in Czech Republic

- Prefix +420
- Closed numbering plan 3+9 digits
- http://www.ctu.cz/main.php?pageid=212
- Strong incumbent operator Telefonica O2 CR
- High mobile phone penetration (over 120%)
- Interconnection costs
- Slow unbundling
- Number portability fixed, mobile

Situation in Czech Republic

- VoIP operators small but many
- Using VoIP own infrastructure stronger UPC
- Using common Internet many (Asterisk)
- Open SIP URLs ENUM numbers registration
- Geographical and non-geographical numbers
- Usually free intra-provider calls
- About 70,000 users

Fixed vs Mobile



0.2.4.e164.arpa history

2003 0.2.4.e164.arpa delegated to CZ.NIC

2003-2006 pre-trial (manually, >100 EUR fee)

75 domains - academic

Ministry
of Informatics
Czech Republic

4/2006 Agreement with Ministry of Informatics

4/2006 new registry software development started

20.9.2006 trial launched

2000 domains

6

22.1.2007

full commercial operation launched

Vision

- Help ENUM/VoIP grow
 - Cheap
 - Simple
- Fast to commercial phase

Reasons for trial

- No technical testing ENUM just works
- Validation method tuning different in each country
- Processes tuning
- Many thanks to AT and DE

- Keep it short
- Don't delete database

0.2.4.e164.arpa conditions

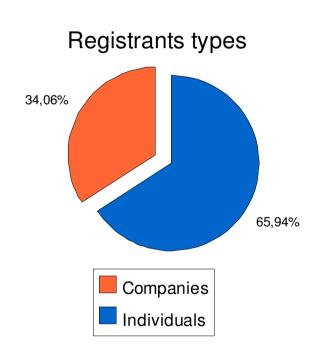
- Allowed numbers:
 - Geographical numbers
 - Non-geographical numbers (VoIP range)
 - Cellular numbers
 - Toll-free / split costs lines numbers
 - Premium services numbers
- × 1 to 10 years registration
 - Validation once per 6 months : (SMS, call, invoice

0.2.4.e164.arpa conditions

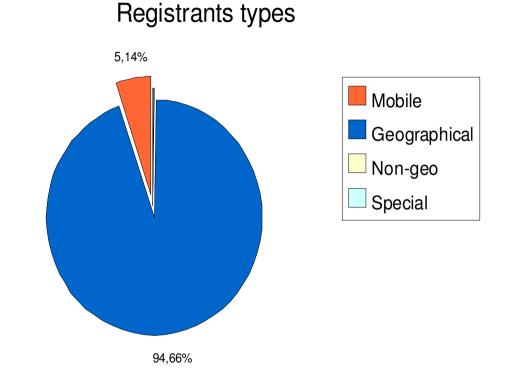
- Single numbers or blocks
 - End user only!
 - Semi automatic process of block break-ups
- Promo price 1 CZK (0,04 EUR)
 - 2007 and 2008
 - later expected at about 150 CZK (5 EUR) BUT

- 11 registrars
- 4 telco operators supporting ENUM
 - VoIP operators no big player yet
 - ENUM lookup on outgoing calls (covering about 23 500 users)
 - One operator doing registration for the customers (more on the way)
 - Others support unofficially

- 2510 domains registered
- 554 768 numbers
- Mainly individuals
- Most registrations from telco
 - 2196 domains
- Active / passive registrars

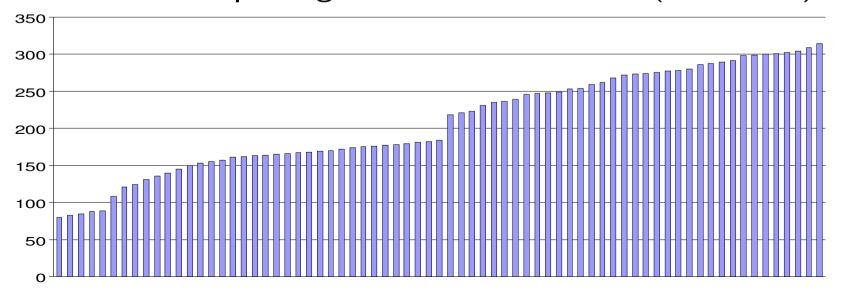


- Majority geographical
- 2 free number (800)
- 3 non-geographical
- 129 mobiles

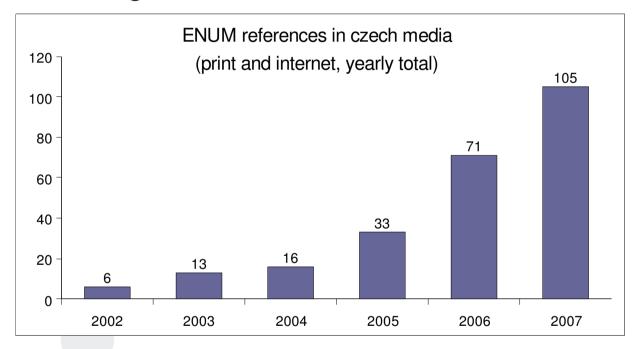


- Growth since trial (w/o telco registrations)
- 33 domains per month average
- Depends on communication
- Faster after commercial launch

0.2.4.e164.arpa registered subdomains (w/o telco)



High media coverage



- Internet and print regularly, 65:35 % ratio
- Radio and TV!

Registry software

Free software for registration - FRED

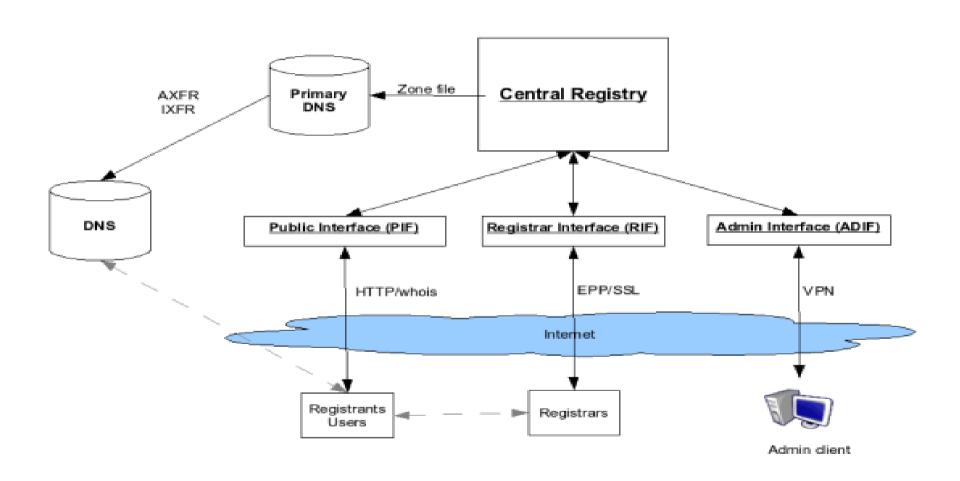
FREE REGISTRY FOR ENUM AND DOMAINS

Opensource – GPL



- EPP/SSL based
- Usable for regular domain and ENUM
- Able to manage more domains/zones
- Will be used for .cz as well (contact sharing) 10/07
- http://fred.nic.cz
- PHP, GUI, CLI client Live CD!

Registry software

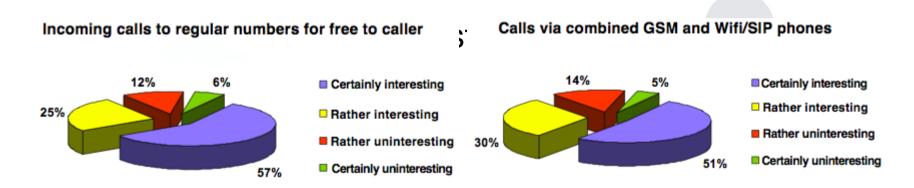


Current issues

- ENUM too complicated for End Users
- Validation not for telco BUT
- Snowball
- Mobile phone operators
- VoIP operators
- Enterprises

Future plans

- Continue discussion with telco operators
 - HOWTOs
- Target end users (both companies and individuals)
 - Market research January 2007



Future plans

- Keep media spin
- ATL communication
 - In cooperation with telco operators
- BTL communication
 - Selected target groups
 - Central European initiative as CZ, DE, AT and PL have
 ENUM ? SK ?
- Czech ENUM day September 2007

Thank you!

Questions?

http://enum.nic.cz

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