



Policies and IPv6: Lessons learnt from the Czech Republic

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CZ.NIC Association

CZ.NIC: Who we are?

Non-profit organisation established by leading ISPs in 1998

Main task: management of .CZ domain

Long-term vision: increasing user-friendliness of internet

Other activities:

- Improving internet infrastructure and environment
- Supporting information security (national CSIRT)
- Education and awareness raising International activities: FRED, MAG, EU projects...

IPv6 activities:

- Annually IPv6 Conference
- Training for IT professionals, IPv6 book

IPv6: European policies

- Council Conclusions on the transition to IPv6
- Digital Agenda for Europe
- European e-Government Action Plan (2011 – 2015)
- Competitiveness and Innovation Programme (CIP)



GEN6 Project

- Governments **EN**abled with IPv6

Pilot projects

- IPv6 upgrade of eGovernment Network Infrastructures, e-Identification, Services and Applications;
- IPv6 upgrade of Secure Cloud Services in Luxembourg;
- IPv6 upgrade of Energy Efficiency in School Networks implemented in Greece;
- IPv6 upgrade of Emergency Response Environments in Slovenia.

Benchmarking and government's motivation

Czech Republic in figures

Internet Infrastructure

- Households with Internet: 61,7 %
- Public bodies with their own website: 91,7 %
- Municipalities with their own website: 96,8 %

IPv6 Policies

- **Government Resolution** Nr. 727 of 8th June 2009
 - Support IPv6 by replacing infrastructure (e.g. routers)
 - Ensure access to eServices via IPv4 and IPv6 by 31st December 2010.
- „**Digital Czech Republic**“ Strategy

IPv6 Readiness Study

	WWW		DNS		E-mail	
	CZ	SR	CZ	SR	CZ	SR
Ministries	42,9 %	7,6 %	57,1 %	7,6 %	35,7 %	7,6 %
Other Central Government Bodies	45,6 %	0 %	63,6 %	9,1 %	36,7 %	0 %
Regional Governments	7,7 %	12,5 %	53,8 %	12,5 %	15,4 %	0 %
Cities	9,8 %	30,1 %	46,3 %	15,0 %	2,9 %	0 %
Average in domain	14,7 %	N/A	50,7%	N/A	15,1 %	N/A

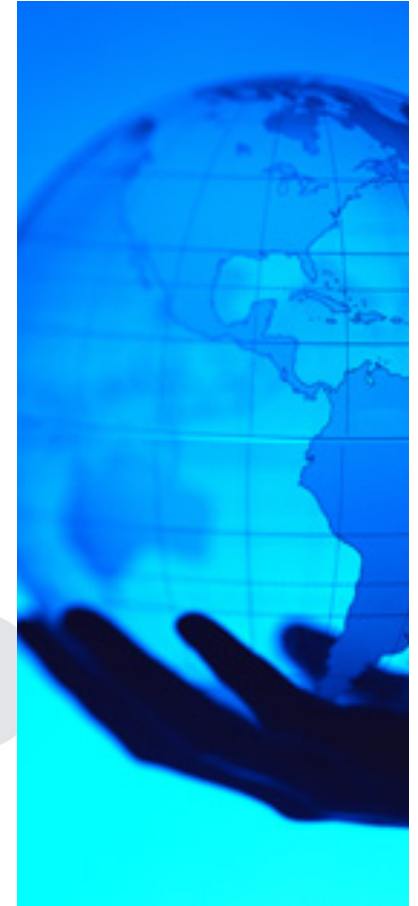
In the **Czech Republic**: 245 public websites involved, in **Slovakia**: 119 websites involved

Key results

- Institution affected by the government resolution is more than 3x higher IPv6 support by their web-service, then the national average is.
- Domain name registry could play a positive role in IPv6 support by DNS servers.

Recommendations for policy makers

- involve **support** for improvement of electronic services and IPv6 **in strategic documents and policies**
- require **IPv6 support in the RFP documentation** when renewing infrastructure and electronic services
- **communicate** on regular base with **national domain registry**
- provide **IT experts practical workshops** in order to learn to work with IPv6 and prevent possible mistakes
- follow **awareness-raising** and marketing events
- maintain **dialogue among all stakeholders** (IT experts, politicians and civil servants to exert pressure on implementation of new technologies)



Thanks for your attention!

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