



Governmental Support of IPv6 Deployment in the Czech Republic



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Introduction

- Internet organizations, ISPs, infrastructure vendors, content and service providers, vendors of applications and end-users

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- the most important stakeholders in the deployment of IPv6

but

- we all know there is a strong need for action to be taken by public authorities
- important role of the government can not be ignored

Support at National Level



- **Ministry of Industry and Trade (MIT), Electronic Communications Department**
- **strong motivation**
- **Czech Republic welcomed European Commission's initiatives on IPv6**
- **according to COM(2008)313, MIT prepared a document with draft resolution for the government**

result:

- **Czech government adopted resolution in support of IPv6 Transition**

Government Resolution in Support of IPv6 Transition



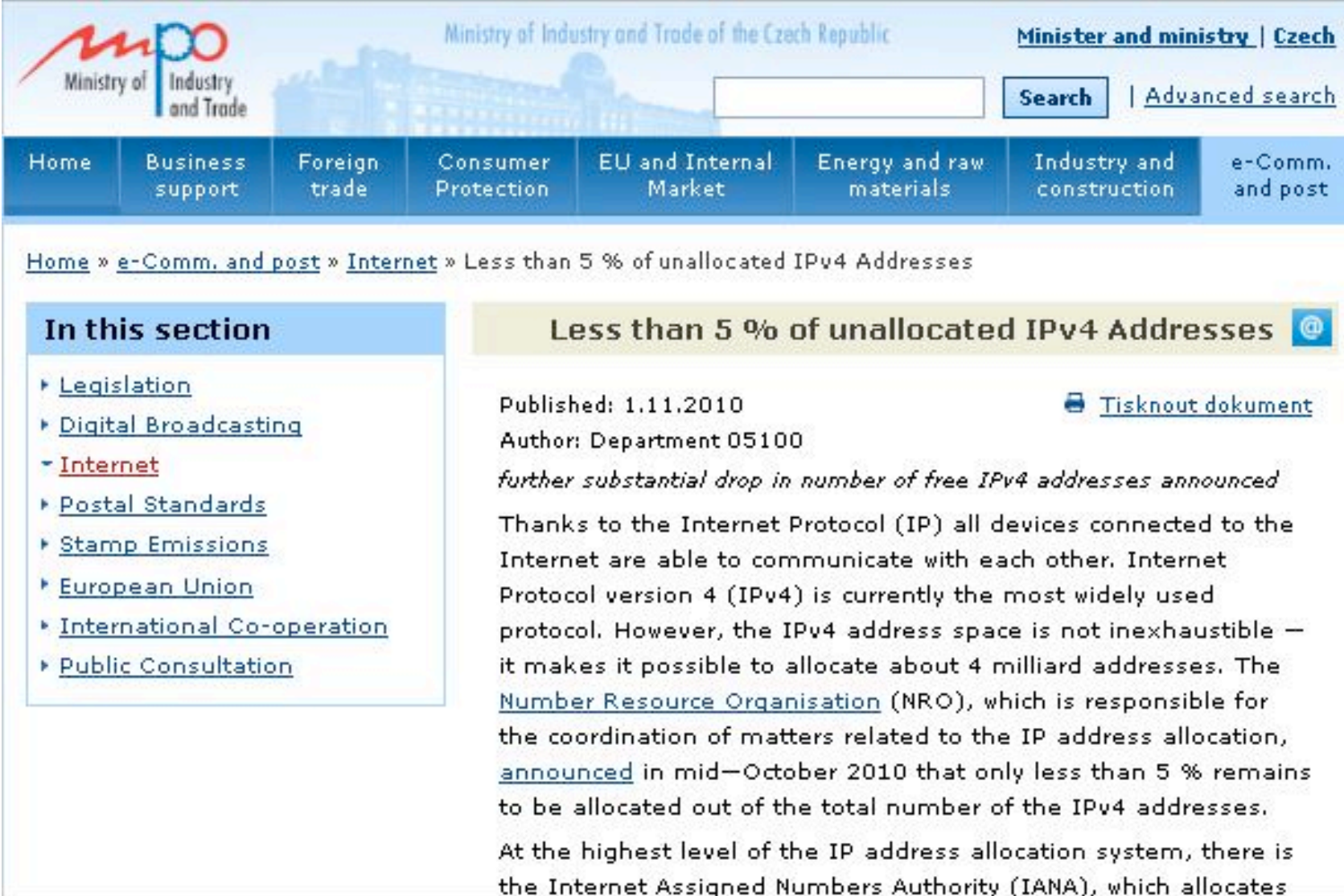
- **adopted on 8 May 2009**
- **requirement for all ministers and heads of other central government administration bodies to ensure**
 - starting from 30 June 2009, integration of IPv6 in regular network components replacement
 - By 31 December 2010, accessibility to Internet sites and publicly accessible services of e-Government via both IPv4 and IPv6
- **resolution recommends also the governors/ mayors of the regions to follow these measures**

Fulfillment of the Resolution Requirements



- **survey carried out by MIT in August 2010**
- **100 % fulfillment of the 1st requirement**
- **Steps undertaken to fulfill the 2nd requirement**

Information about the need of IPv6



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Less than 5 % of unallocated IPv4 Addresses

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further substantial drop in number of free IPv4 addresses announced

Thanks to the Internet Protocol (IP) all devices connected to the Internet are able to communicate with each other. Internet Protocol version 4 (IPv4) is currently the most widely used protocol. However, the IPv4 address space is not inexhaustible – it makes it possible to allocate about 4 milliard addresses. The [Number Resource Organisation](#) (NRO), which is responsible for the coordination of matters related to the IP address allocation, [announced](#) in mid–October 2010 that only less than 5 % remains to be allocated out of the total number of the IPv4 addresses.

At the highest level of the IP address allocation system, there is the Internet Assigned Numbers Authority (IANA), which allocates

Follow-up actions to be taken



Continuous support to IPv6 deployment:

- **National strategy for e-communications
“Digital Czech Republic”**
- **raising awareness**
- **cooperation with ccTLD operator CZ.NIC**

Digital Czech Republic I



- Czech national strategy for electronic communications
- prepared by MIT, proposal is now in interministerial consultation and will be submitted to the Government in December 2010
 - *measures for IPv6 deployment:*
- keep on surveying the fulfillment of the resolution
- concentrate on other public administration authorities not directly covered by the resolution

Digital Czech Republic II

- Concentrates on security issues
DNSSEC deployment

- Raising awareness

Official web page www.digitalnicesko.cz

- tool in support of the transition to IPv6
- information for visitors of the webpage whether they are connected via IPv4 or IPv6



Cooperation with CZ.NIC



- operator of the Czech ccTLD
- memorandum with the Ministry
- important activities in support of the transition to IPv6
 - nation-wide cooperation with relevant stakeholders
 - organize conferences
 - technical trainings
 - collect and publish IPv6 statistics

Thank you for your attention

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