

IPv6, the way forward

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Why an EU initiative? Background

- IPv4 address problem
- Basically two options:
 - Continue IPv4, manage scarcity
 - And introduce IPv6 only when IPv4 becomes truly unsustainable or we may have found something else
 - Introduce IPv6 proactively
- There are arguments in favour and against for both options
- ICANN and RIRs have stressed the need to adopt IPv6 as a matter of urgency
- European Commission shares this view and adopted Action Plan in May 2008



IPv6 the way forward... Why?



IPv6 the way forward... Why?

- Preparing for growth, increase of networked devices to be connected, Internet of things Web 3.0
- 4 billion IPv4 addresses, IPv6 almost indefinite
- Easier to implement P2P applications big potential for many sectors:
home market, building management, mobile communication, defense and security and car industry.



Why an EU initiative? Approach

- Adoption of IPv6 still very low
- Adoption is a largely decentralised and global market process ...
- ... in which the public sector and public policy play a role
- Incentives for individual actors to adopt IPv6 depend on the adoption of others (collective action problem)
- In such a situation public policy can make a difference



What are we proposing?

Action Plan Overview

- Strategic objective: **EU should have made a significant step by 2010**
- Stimulation of IPv6 reachable content, services, and business applications
- Timely preparation of the introduction of IPv6
- Public sector procurement
- Monitoring security and privacy implications



Communication to the EU Member States (Parliament and Council)

ADVANCING THE INTERNET

Action Plan for the deployment of Internet Protocol version 6 (IPv6) in Europe

May 2008



ACTION PLAN TARGETS

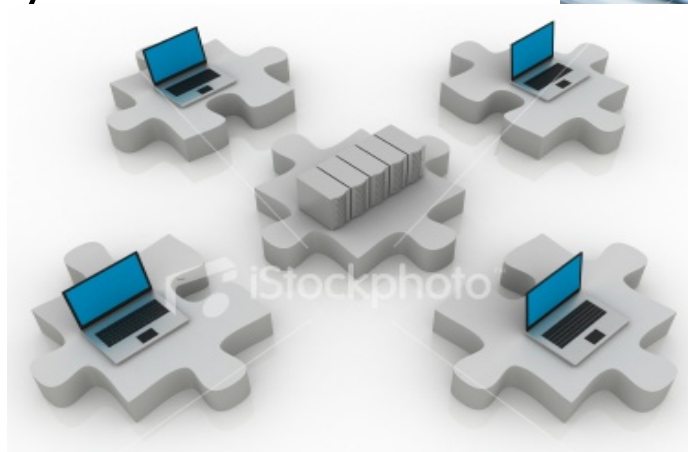
- Europe should set itself a target: at least 25% of users should be able to connect to IPv6 2010.



- Cooperate with content and service providers – encourage ISP to provide IPv6 connectivity.



- We will work with the Member States through i2010, IDABC, eGovernment



ACTION PLAN TARGETS

- IPv6 to be used by Research Projects under FP 7 whenever possible
- “Europa” and “CORDIS” IPv6 accessible 2010.
- Encourage Member States to use Public Procurement
- Awareness campaigns intended for different users groups.
- Stimulate co-operation thematic network CIP



ACTION PLAN TARGETS

- Support of the inclusion of IPv6 on education curricula through a separate study.



- Security and Privacy (S&P) issues.
- Support from ENISA



- Progress Review 2010 to assess the progress through separate study.



IPv6 the way forward to sum up

- Launch of studies (Monitoring, Curriculum, Security)
- Measurement of IPv6 deployment, and survey in the frame of the monitoring study by TNO/GNKS
- Stock taking in 2010



The European IPv6 Web Site



http://ec.europa.eu/information_society/policy/ipv6

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