



# IPv6

## IPv6 Deployment Monitoring



**A user centered approach**



**RIPE 58, Amsterdam, 5 May 2009**

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# Background Information



In May 2008 the European Commission adopted an Action Plan to support the deployment of the IPv6

- The objective of this Action Plan is **to support the widespread introduction of IPv6 in Europe** because:
  - Timely implementation of IPv6 is required as the pool of IPv4 addresses is being depleted;
  - IPv6 with its huge address space provides a platform for innovation in IP based services and applications
- The Action Plan sets out a number of **measures** that should have a measurable effect on the adoption of IPv6 in the market.
- The Action Plan aims to achieve widespread availability and use of IPv6 by 2010. This objective is quantified to mean that **at least 25% of users can do their essential Internet activities without noticing whether they are using IPv4 or IPv6**



# Objectives of the study



**To measure the deployment of IPv6 in the EU in 2009 and 2010.** It includes availability, quality and the usage of IPv6 products & services. The study should determine as to whether 'the 25% target' as set out has been achieved.

## Key points

1. **Prevention of wrong timing**
2. **EC needs stimulating IPv6 policies**
3. **More information is needed for focus**
4. **Your assistance is essential for gathering that information**



## Extra information

- **Your assistance has a positive effect**
- **Your assistance is high-level (no privacy issues)**
- **Our measuring methods**



**We need your help**  
in gathering information on IPv6 deployment,  
for the purpose of policy-making



## EC needs stimulating IPv6 policies



The EC wants to create stimulating policy and measures for IPv6.

- Policy makers in Europe and its countries are looking for the right stimulating measures for IPv6 deployment.
- Policy can range from
  - Stimulating R&D on IPv6 in Europe (FP7 projects)
  - Inform and create fora for users about IPv6 possibilities

## We aim to develop and use new methods in cooperation with RIPE community



- **Measure deployment in EU countries (% end users)**  
These are source address based on passive measurements
- **Measure availability (% IPv6 web-based services)**
- **Measure differences between IPv4 and IPv6 performance**  
These are measurements on quality of service
- **Perform an IPv6 Survey**  
The 2008 ARIN/CAIDA IPv6 questionnaire will be used as a starting point. Short and simple Internet-questionnaire ( $\pm 20$  questions) in cooperation with RIPE and EC.

## More information from you is needed for focus



More information is needed for focussed policy-making.

- Current measurements focus on volumes
- Additional information is needed on (amongst others):
  - Number of used addresses
  - Companies migration plans
  - Considerations whether to migrate
- This information can be gathered from:
  - Interviews
  - Surveys
  - (high-level) measurements

## Your assistance is essential

- With the assistance of the RIPE community, we can
  - find the right experts
  - reach the relevant stakeholders with the survey
- With the assistance of AMSIX and its members, we can
  - gather relevant (high-level) data

### Your assistance to the policy makers will have a positive effect!

- Know what data is used by policy makers
- Gain insight into IPv6 *user* volumes, in an anonymous way



## IPv6 Deployment Survey

- Details of the survey and measurements will be presented during the RIPE IPv6 WG and AMSIX meeting on resp. 5 and 8 May.
- We are calling on the RIPE community to help us shape this survey to yield the best results

Thank you!



We would appreciate your participation in the questionnaire and the facilitation of the measurements.

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