

Outlooks on IPv6 Deployment: An European View

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The European IPv6 Task Force

- The European Commission created the IPv6 TF (2001)
- Goal: Prepare the roadmap for the IPv6 adoption and large scale deployment in 2005



- "Our objective is to ensure that Europe's competitiveness in wireless technology is not jeopardised by the lack of a clear road map towards IPv6," European Enterprise Commissioner Erkki Liikanen said in his opening speech to the IPv6 Task Force.

The move to IPv6 is Global

- January 2002: The TF concluded
- February, March and June 2002:
 - The EC and the Council publish different documents adopting the TF conclusions.
- e-Europe 2005: IPv6, Broadband and 3G
- Continuation of the TF, in a 2nd phase, with the support of the Steering Committee project
- Several European countries (Spain, France, UK, Germany, Switzerland, ...), initiated local activities
- Several TF-like groups across the world, cooperating together

R&D “Arena”: Past & Present

- A few research projects 2-3 years ago (FP5 - IST program)
- Now several Research projects representing investments over **180 MEuros** (90 from the EC)
- Major platforms and networks:
 - 6NET, Euro6IX
 - Available NOW, and interconnected
 - With international peering to Japan, Korea, Abilene, ...
 - Also to provide native connectivity for other projects
- Over 40 projects:
 - With IPv6 as the main focus (6POWER, 6QM, 6WINIT, ...), or
 - Using IPv6 for new applications and services (Android, Crumpet, ...)
- 6LINK to support the collaboration in the IPv6 Cluster
- Eurov6 to provide permanent and nomadic showrooms for the industrial and R&D achievements



R&D “Arena”: The Future

- Next IST Program, FP6, clearly supports IPv6, Broadband and 3G as key technologies
 - Over 900 MEuros in the 1st call (4-5 calls)
 - International cooperation expected and highly encouraged
- The IPv6 Cluster facilitated the creation of the “ALL-IPv6-World” WG
 - 20 Activity areas suggested
 - Towards new applications and services
- IPv6 as a key enabler of “ambient intelligence”



IPv6 Cluster

www.ist-ipv6.org



www.6link.org

Deployment Status

- European industry is supporting IPv6
 - In a short term
 - Manufacturers of devices, routers
 - Appliance manufacturers
 - Application developers
- Several Telcos and ISPs seriously considering commercial deployment
 - A few already providing services
 - GEANT moving to IPv6 next March
- Education programs still needed

A Killer Application ?

- 3G and Beyond are delayed ... and they aren't the killer application for v6
- What then ?
 - May be Home automation, Industrial automation
 - Surveillance
 - Gaming
- New application and services
 - End-to-end connectivity
 - Autoconfiguration
 - Mobility
 - Security
 - Ubiquity
- New technologies for broadband:
 - WLAN
 - Power Line

When, Why and Where ?

- Can we talk about massive deployment ?
 - End of 2003 will start the competition
 - Industry starting to recover?
 - In 2005 will be very significant, may be only in some countries (national take-up actions)
 - Coexistence is a must
 - Killer “applications” probably, will make the “big-bang”
- Because IPv6 can be cheaper
 - Specially for new services, new ISPs
 - Make our life easier
- Home, Automation, Hot spots
 - Finally Everywhere, but it will take time (2007-2010)

Everywhere ...

- Yes ... we want to be always-on connected
 - Anytime
 - “Any-media”
 - Seamless
 - Keep Moving
- IP(v6) must be transparent to the user
 - This is the KILLER APPLICATION
- IPv6 will help, definitively to break the digital divide
 - Some governments and organizations still NEED to take this in consideration
- We **MUST** do it together !

Thanks !

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Next Madrid 2003 IPv6 Summit (12-14th May 2003),
pre-register at:

www.ipv6-es.com

