

IPv6 Infrastructure Framework

ToR (existing ones)

- Some of the ToR's from EC are referring to (over)ambitious time-tables such as 2005
 - Suggestion: ToR's should be more conservative on their road-maps (and use very rarely strict time-lines). **IPv6 will be successful only if vendors and operators see real business opportunity.**
 - For example: "IPv6 connectivity in **all** new consumer-electronic devices by 2005" **does not sound realistic**
 - ToR should give justification and good logistics why and how to make transition towards IPv6, and should not stipulate anything that is better done by markets.
 - **Do not talk about conversion but smooth and gradual transition**

ToR

- ToR should include a clear to understand and 'urgent' reasons why it is good for Europe (and the World) to move to IPv6
 - This means that we have to give socio-economic and commercial reasons...not just state that we have more address space
 - In the case of infrastructure one should select two/three most important and best understood technical reasons for IPv6 and use them (address space,...).
 - We should say something about IPSec, as the keyexchange etc. are starting to raise some controversy

ToR and R&D

- We need better understanding on
 - Market demand
 - Equipment (IPv6) situation
 - Cost-of-deployment etc., i.e. business scenarios
- There are lots of trials going on in Europe, Japan and the the U.S.A.
 - There is no need for new 'minor' trials
 - If something is required it is a global, extremely large, near production-quality network trial with realistic numbers
- The situation with next generation networking and IPv6 might be a bit fragmented (in R&D front)
 - Need for program director or czar imminent ?

IPv6 knowledge

- We need to increase EU knowledge on IPv6
 - Educate engineers and students on IPv6
 - How to initiate this in the continent
- The traditional way to get some large networks running has been to use research and university networks
 - Research networks are moving (e.g. 6NET)
 - Universities are currently quite poor all over the network...without some incentives single universities are unlikely to move quickly towards IPv6

IPv6 infrastructure (technology)

- EU ToR should not (preferably) say anything on technology aspects, which are in the domain of IETF, ETSI, ... [we can simply refer that this technical bodies are doing their job.]
- Maybe the only issue ToR can say on technology is to give guidance how quickly we believe that standards should be ready.
- Should we also emphasis that it is better to err being too simple than producing too complex architectures.
- One issue which is required is the roadmap for IPv6 technologies (hw/sw availability) and IPv6&related standards.