IPv6 Deployment

IPv6 Task Force
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Worldwide Internet/ISP Trends

- Always On
- Number of devices
- Number of addresses
- Need for **globally** routable addresses
- Security
- Mobility
- End user Cost
- Operating Cost

www.nua.com
580M people on line
predict 1B by 2005

To stop the Internet fragmenting and to ensure transparency IPv6 is needed
European Internet/ISP Trends

- Various EU/Government initiatives
  - e-commerce
  - Internet access for everyone
  - Electronic government services
  - Health
- Access trends - ADSL, SDSL, VDSL, Satellite, FTTH, GigE, WLAN, 3G …

- Trends:
  Always On, more users, more devices, more addresses, more P2P applications – IPv6
So how do we make this happen

- ISP’s will only deploy IPv6 when its commercially viable!
  - Make money by:
    - Additional revenues
    - More efficient to deploy
So how do we make this happen

- Not - DNS, Securing, AAA …
- Core – probably OK, MPLS 6PE, tunnels …
- Access – slow as no revenue streams so no deployment
- Applications – starting to become available but more needed especially entertainment, home automations, P2P (VoIP, gaming …) etc
- What is the Home Network!
- Automotive, Military, Health
- KEY - Multi-homing
- User/network Interface
- EU projects not coordinated ie cannot say what will be in FP6 – research not directed to commercial requirements
- IPv6 in GPRS?
- WLAN – Mobile IP – road warrior/business user
- ???

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