



Magyar Telekom experiences in IPv6 developments

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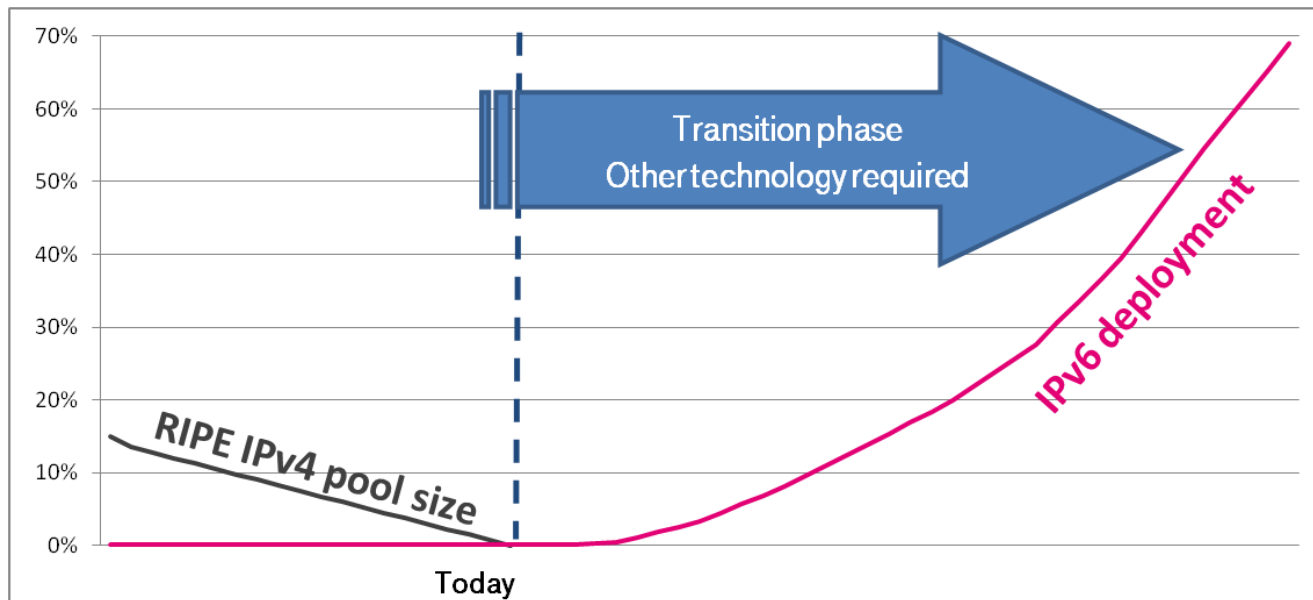
Introduction

Continuous modernization of our network

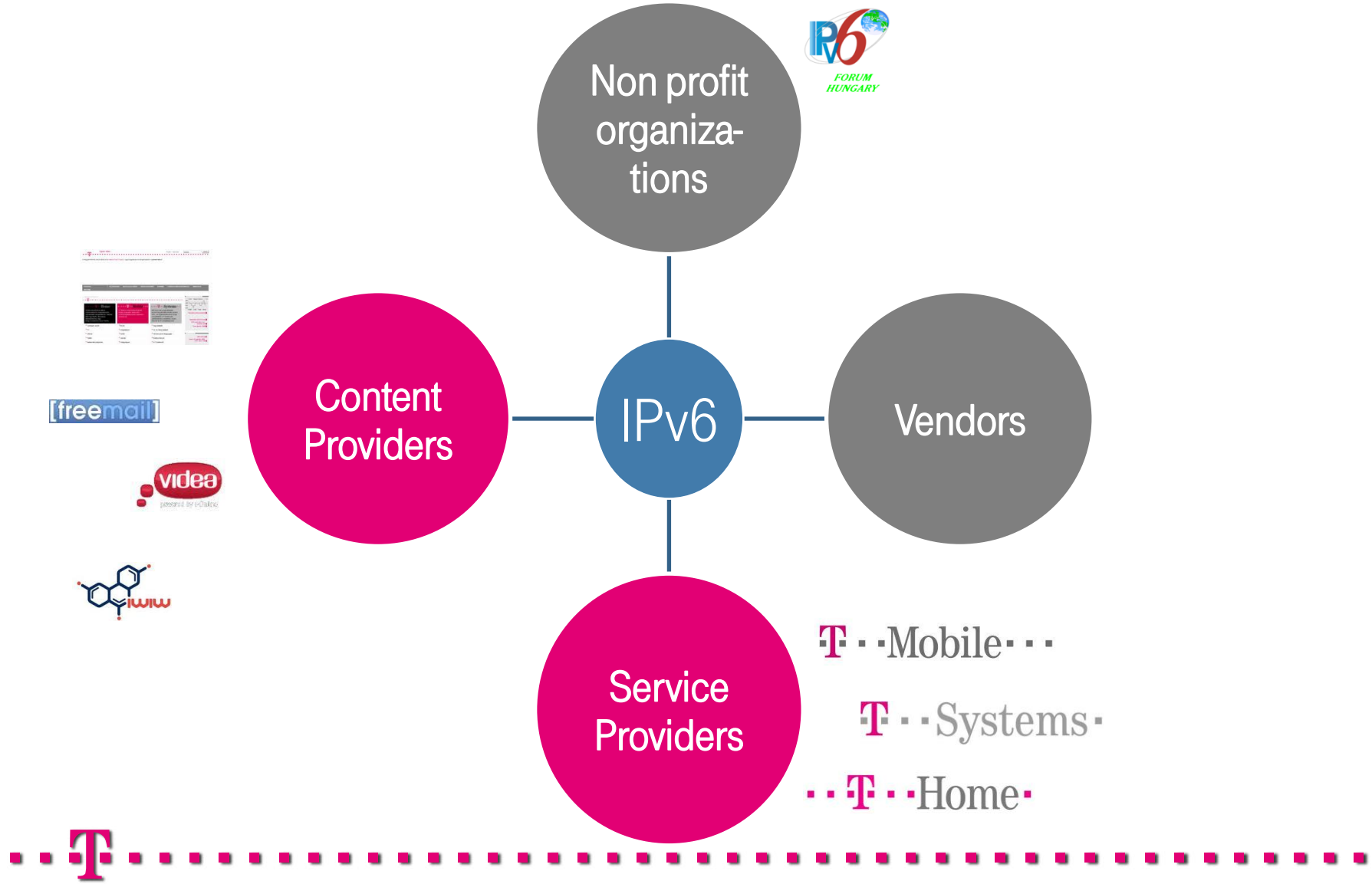
- IPv6 is part of our investments

Satisfying the customers

- Service improvement – IPv6 can be requested from an innovative service provider
- Service continuity – IPv6 is the long term solution for IPv4 address exhaustion



Parties in IPv6 developments - Role of Magyar Telekom



IPv6 launch timeline

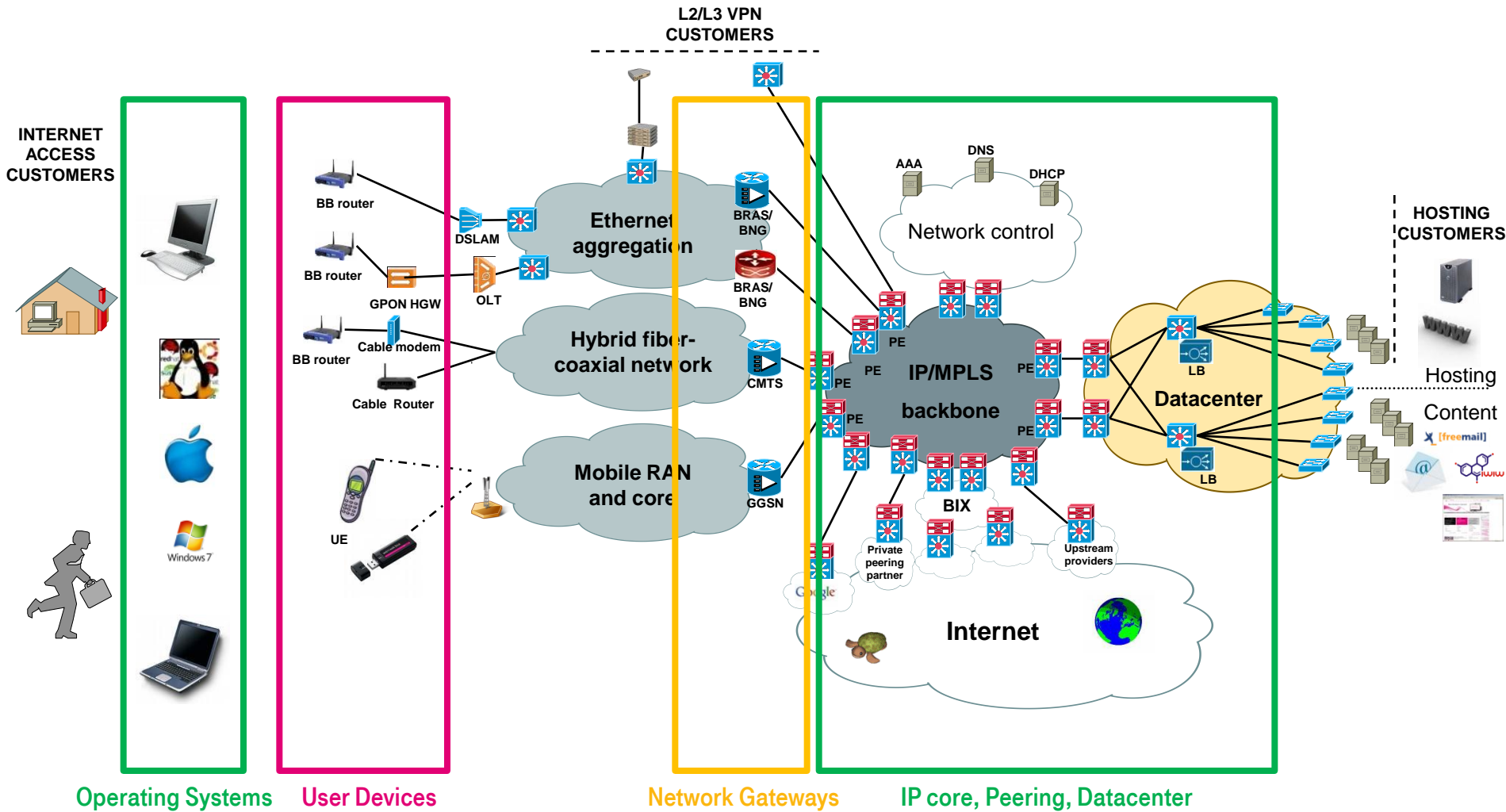


- IPv6 prefix allocation from RIPE NCC (2005)
- IP peering and transit (2009)
- DSL/GPON public service trial (2009)
- Mobile trial service in co-operation with Mobile Innovation Center (since 2009)
- Cable Internet non-public trial service (2010)
- World IPv6 Day 2011
- Own company sites (e.g. telekom.hu)
- Other Portals (e.g. freemail, iwiw, videa)
- Hosting service is available for our customers (2011)
- Dual-stack business Internet access
- IP-VPN based services
- Step-by-step approach (2013-2014)
- DSL/GPON Net
- Cable Net
- Mobile Net

IPv6 - Part of Magyar Telekom Technical Strategy



Network structure



Continous investment for improving IPv6 capabilities

IPv6 experiences

Network development

IP core network is ready (6PE, MP-BGP)

Network Gateways

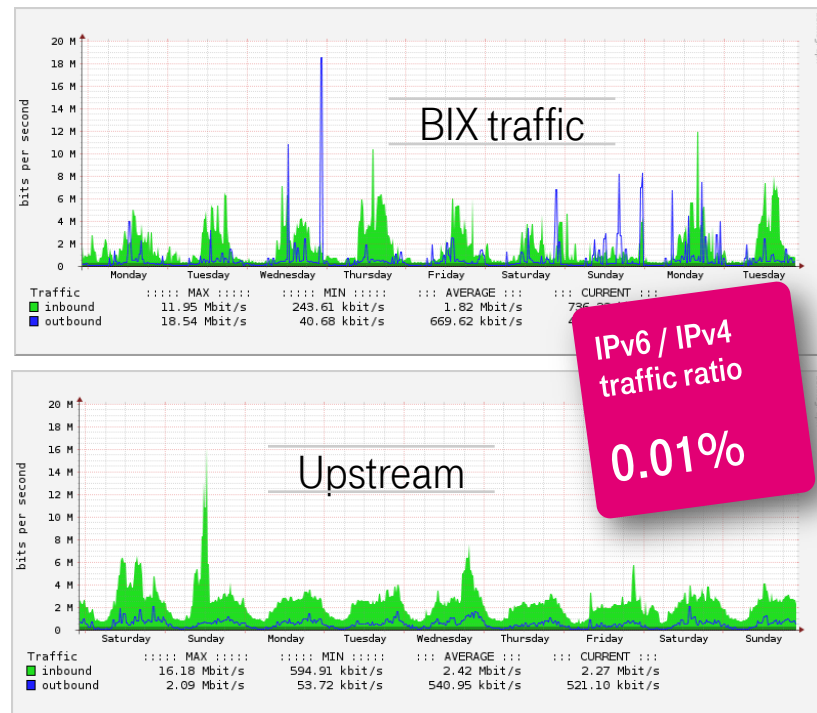
- key devices with complex functions
- need sw/hw upgrade for full IPv6 capabilities

Home Network devices

- MT owned – ready from 2012
- Customer owned – critical issue

Present Drivers

- 👍 IPv4 address exhaustion
- 👎 Customer demand
- 👎 Business perspective



Consequences

- Transient solution required (e.g. NAT)
- Longer time for IPv6 deployment
- 'Killer' application needed



Summary

Magyar Telekom

- Ready for IPv6
 - IP network
 - MT owned HGWs
- IPv6 is mandatory in future

Real IPv6 drivers needed

- Content developments
- Home Network Device developments
 - Mobile devices
- Internet of things

Future

- Network
 - Optimization needed as traffic grows
 - New features require continuous development
- Services
 - Commercial mass market product developments (existing services)
 - Other aspects to be solved (legal obligations, OSS developments, customer care)
- IPv6 – part of our natural life

No revolution – rather a slow transition



Thank you for your attention.

