



AKOS workshop: European views on Net Neutrality

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Cisco Visual Networking Index 2015-2020

By 2020:

Global IP traffic almost 3x increase

Busy hour traffic increase by factor of 4.6

IP video 82% of all traffic by 2020

devices 3x global population in 2020,
M2M 46% all devices



Topline global
VNI 2015-20



Connected Home

- Home automation
- Building security
- Network equipment – printers +
- Network infrastructure – routers +
- White goods
- Tracking applications
- Household information devices



Connected Work

- Office building automation
- Building security
- Office equipment – printers +
- Routers +
- Commercial appliances



Utilities

- Electric vehicle charging
- Smart metering



Connected Car

- Fleet management
- In-vehicle entertainment systems, emergency calling, Internet
- Vehicle diagnostics, navigation
- Stolen vehicle recovery
- Lease, rental, insurance management



Connected Health

- Health monitors
- Assisted living – medicine dispensers +
- Clinical trials
- First responder connectivity
- Telemedicine



Connected Cities

- Environment and public safety – closed-circuit TV, street lighting, waste removal, information +
- Public space advertising
- Public transport
- Road traffic management



Retail

- Retail goods monitoring and payment
- Retail venue access and control
- Slot machines, vending machines



Manufacturing & Supply Chain

- Mining and extraction
- Manufacturing and processing
- Supply chain
- Warehousing and storage



Energy

- New energy sources – monitoring and power generation support apps
- Smart grid and distribution
- Micro-generation– generation of power, by residential, commercial and community users on their own property



Other

- Agriculture – livestock, soil monitoring, water and resource conservation, temperature control for milk tanks +
- Construction: Site and equipment monitoring
- Emergency services and national security

Cisco views net neutrality

- Ban on bad behaviour: no blocking, no throttling
- Traffic management inherent part of best effort internet
- Room for innovation alongside internet access services
- Avoid EU fragmentation



A young woman with long, light brown hair and braces is smiling and looking towards the right. She is wearing a white shirt. The background is a blurred classroom with a window and a television mounted on the wall.

Europe at forefront of innovation thanks to

- IPTV: fast channel change, more channels
- VoIP: managed, reduce consumer price drastically
- Telco/OTT partnerships

IoT, Industry 4.0, telemedicine etc. etc.

Logically separate & strict admission control

- Different ways of delivering services which specific QoS
- Technology mandates limit room for new tech innovations
- Technology mandates not necessary to protect IAS users




Optimisation where necessary: only services which “cannot function” over IAS?

- Verification that cannot be delivered at quality over IAS
- No “one level” of quality
- Necessity = end-user demand + contractual obligations on QoS assurance
- Business/high-end video conferencing, VoLTE/managed VoIP, in-car entertainment?



No permanent or recurring traffic management

- Reasonable traffic management not to be maintained longer than necessary = proportionality, not in a way that maintains effect longer than necessary
- Adds permanent and recurring 
- But no condition re length, duration in Regulation
- Configurations are “permanent” – no switch on, switch off

Conclusion

- Regulation balanced outcome: reasonable traffic management & new services alongside Internet access services allowed
- Draft guidelines key consistent application across EU
- Focus on maintaining innovation-proof approach

