DENOG6 – Peering Challenges Today

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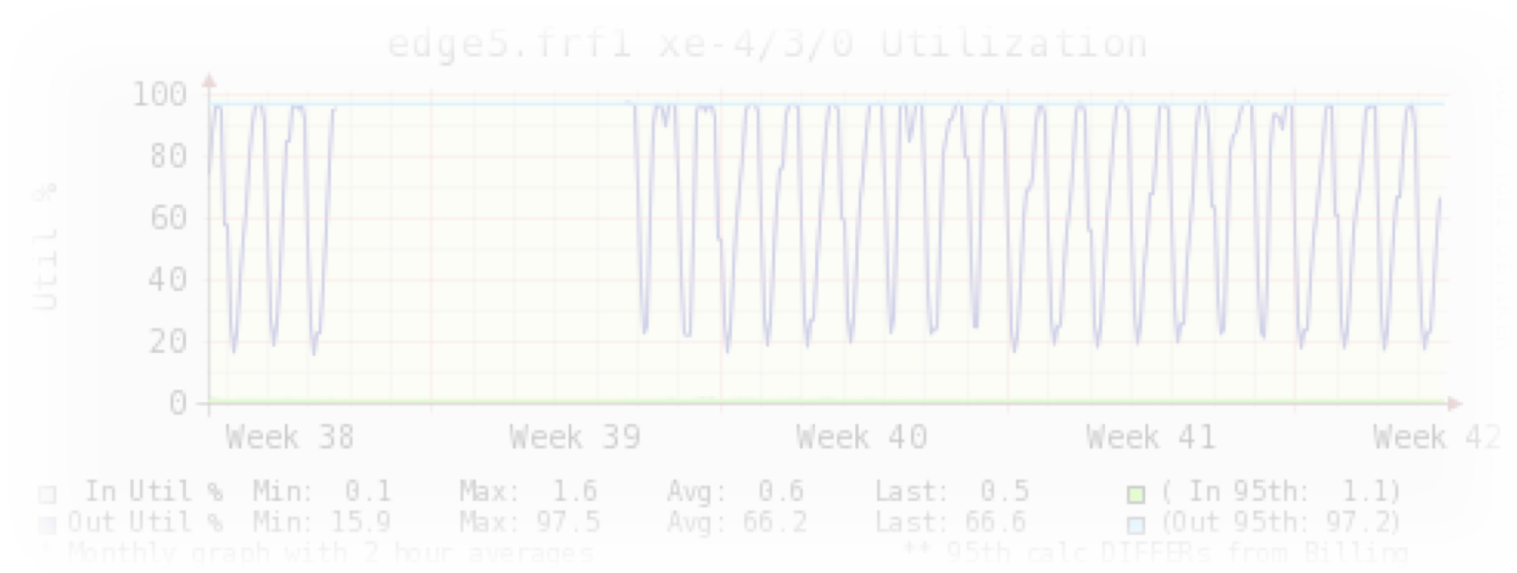**Director of Interconnection Strategy, EMEA**

Darmstadt, 20th November 2014
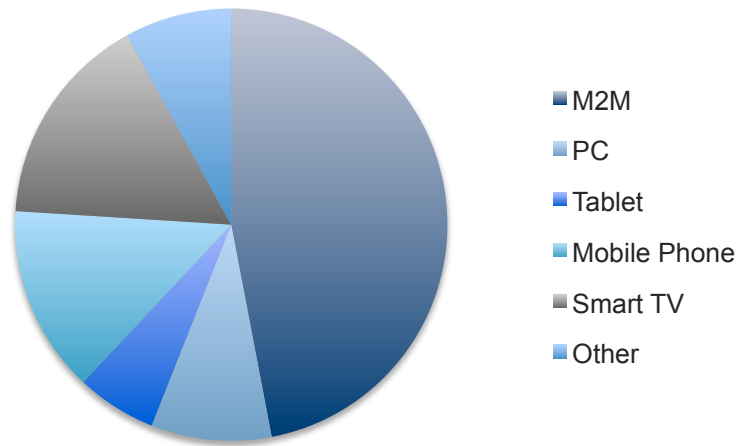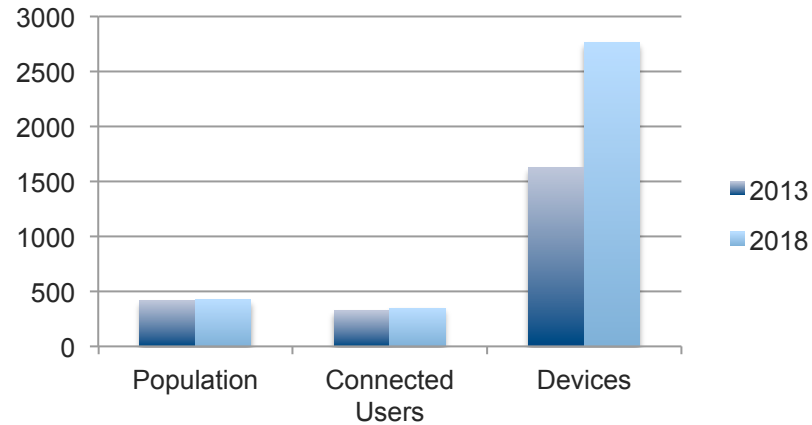
If it's a joke, it's not funny…

"… a football match, a streaming video service
and a software release walk into a bar…"

Polarisation of the Internet

- 1.2bn networked devices to come on line within next 60 months

- Almost 4bn Internet end-users by 2018

- Average broadband speed to reach 42 Mbps by 2018

- IP video will represent 79% of all traffic by 2018

Time to re-evaluate our peering prejudices?

Value contribution vs. dogma
- "This is how we always did it"

Data vs. instinct
- "You know, I *know* this stuff"

Pragmatism vs. passion
- "This thing from ten years ago"

http://www.level3.com/en/legal/ip-traffic-exchange-policy/

Localise, localise, localise and localise

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Since last time we spoke…

- Delivered Internet Localisation
  - IP Transit + cache
- Delivered DEC
  - Cache
- Delivered edge connect
  - L2/3 connection direct to Level 3 CDN
- Peering in more new locations
- We're back on the road to meet our peers
  - NANOG, EFP, AMSIX, LINX, RIPE, SWINOG, DENOG
- Moved to a forward-looking proactive mode for peering forecasts
- Learning to demonstrate **Transparency** because we want to build **Trust**

Do we need regulatory intervention?

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Changes observed

- Polarisation of network purpose, breaking traditional interconnect model

- Leveling off of fixed-line broadband growth

- Continued explosion of content growth

- Consolidation of access providers

- Walled gardens by some access providers

Activities of Level 3

- Discussions of markets at local regulator level
  - Participation in mandatory activity
  - Participation in knowledge sharing

- Discussions of market at EU Commission level
  - Contribution to market surveys

- Change in own peering policy
  - Increased transparency
  - Move to bit-mile model
  - Hybrid IP/CDN peering model

Keeping the pioneering spirit alive…

- Be part of the peering community

- Be more open where we can

- Be more predictable

- Be seen and have conversations

- Becoming more proactive

- Increase **Transparency**

- Build **Trust**

- Keep talking, keep learning

Thank you !

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