DE-CIX –

German Internet Exchange

Update Q2/ 2010

Andreas Sturm, DE-CIX

RIPE60
May2010

DE-CIX

German Internet Exchange

Joined on April 1st, 2010

Back Office Manager

taking care of …
upgrades, current service
changes, contracts and
implementations.

**New Team Member Business
Development: Frank Wegerich**

frank.wegerich@de-cix.net

NUMBERS_1:

900 Gbps peak throughput
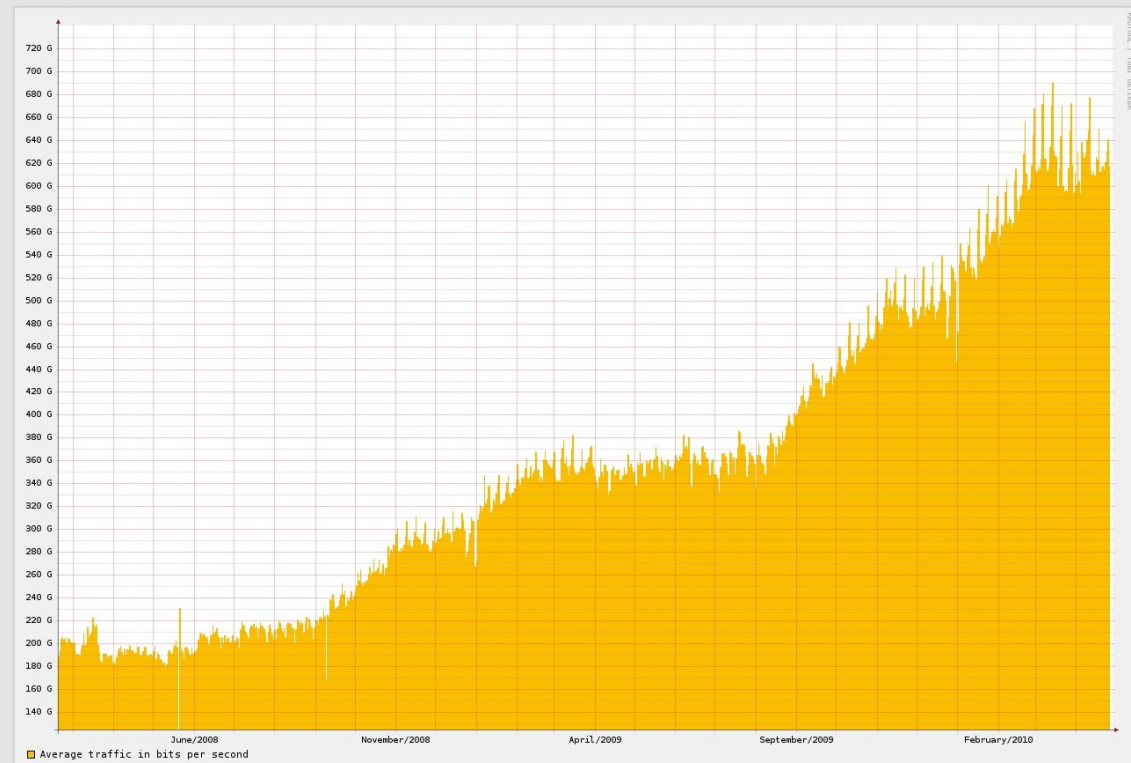
D o u b l e d Traffic last 12 months

340+ members from 40+ countries

281 x 10GE ports

189 x 1GE ports

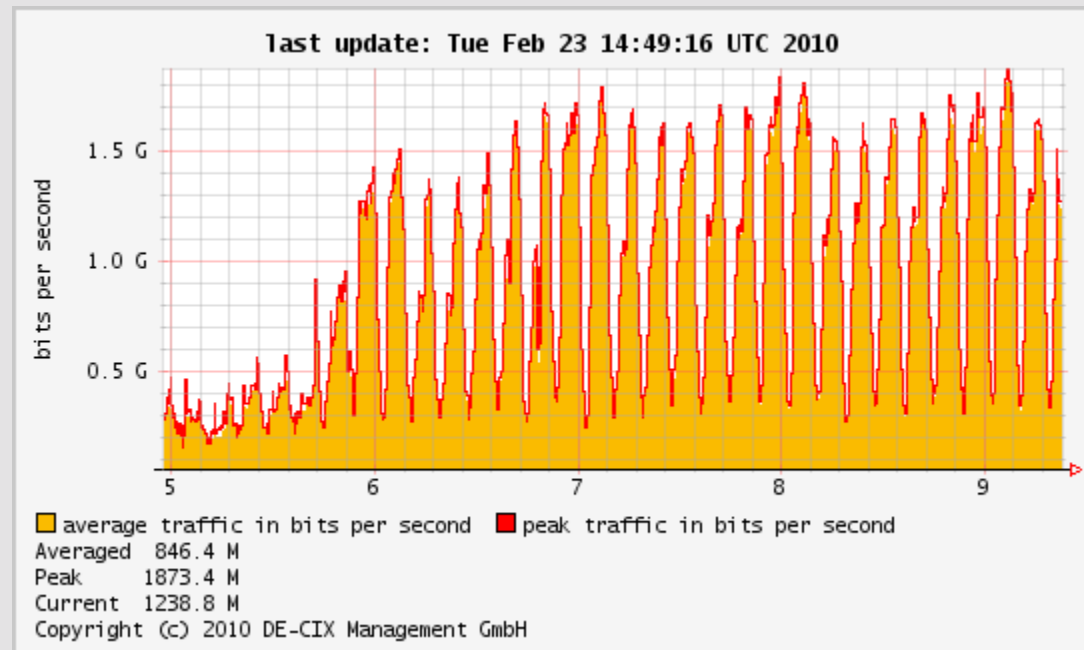still 48 x FE* ports

*no longer on sale

NUMBERS_2:

IPv6 monthly graph
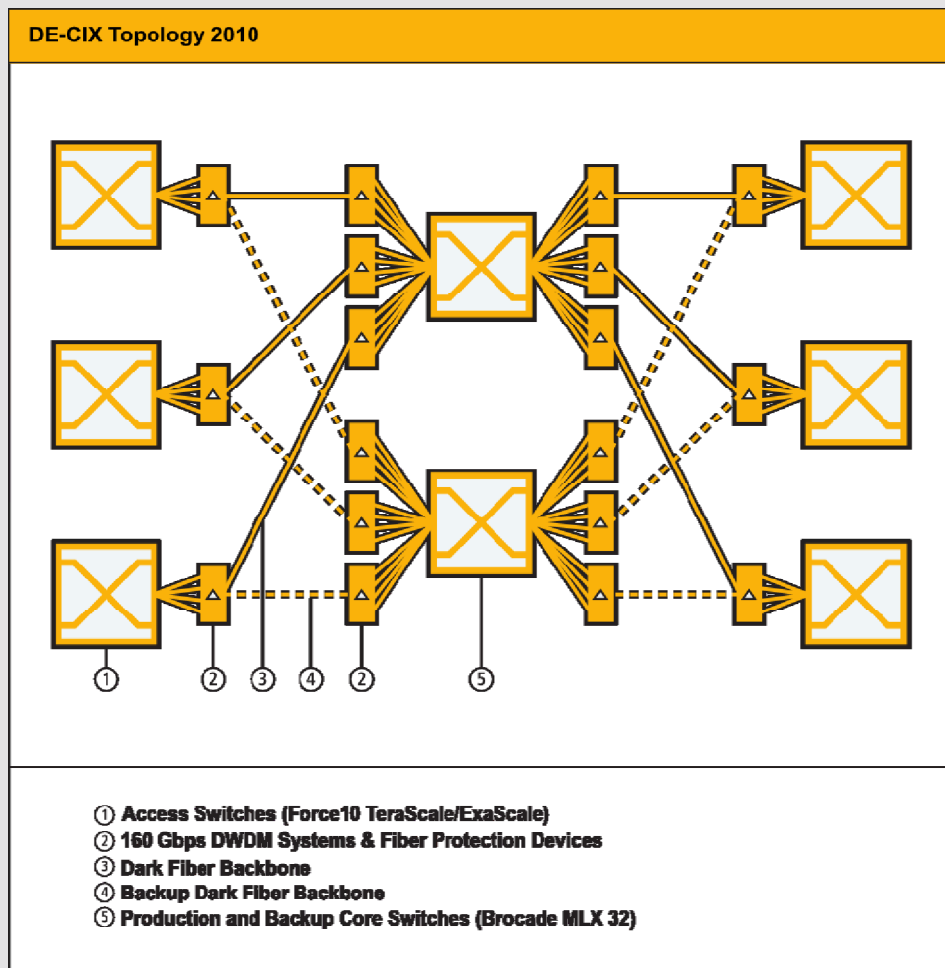
increased traffic since
Feb 2010

Nearly 200 IPv6
customers

4

PLATFORM NEWS:

2 new MLX-32

Additional 2x128 line rate 10GE ports

Replace some 16-channel DWDM systems with new 32-channel DWDM systems (Cube optics).

„These upgrades are vital to support our rapid growth." (A. Nipper, CTO)

DE-CIX Topology 2010

① Access Switches (Force10 TeraScale/ExaScale)
② 160 Gbps DWDM Systems & Fiber Protection Devices
③ Dark Fiber Backbone
④ Backup Dark Fiber Backbone
⑤ Production and Backup Core Switches (Brocade MLX 32)

DE-CIX Routeserver evolution

-- Quagga: not stable
Takes 20 minutes to load configuration
Looses connections under heavy load

+- OpenBGPd: extra BGP session
handling thread.
Bad news: filter performance isn't fast
enough to handle prefix filtering in
acceptable time interval in the DE-CIX
environment.

++ Bird: best in class currently. Is active on
rs1.de-cix.net since 2010-02-24. Filter
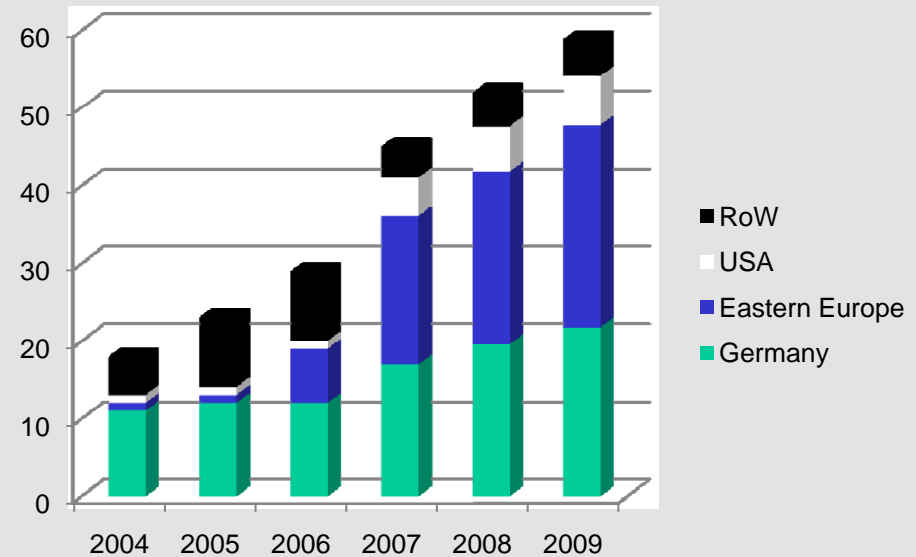performance is very good. Currently
scaling looks very promising.

FOCUS:

Bring in „unique" Peers especially from emerging markets in Eastern Europe.

Promote the role of Frankfurt as a Telecommunications hub.

FOCUS regional:

CEE – Central Eastern Europe

Balkans

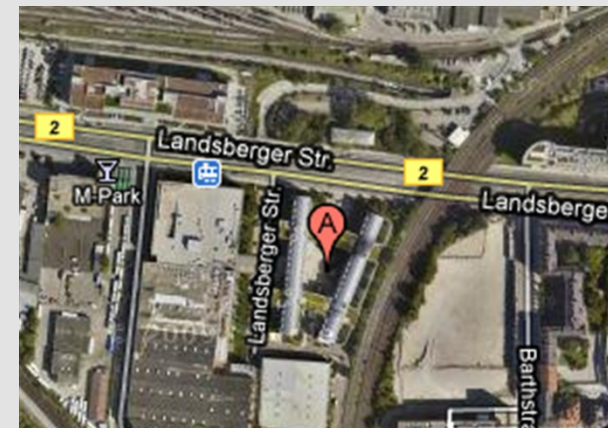New: Asia (EU PoP)

Still: Germany, US, RoE

VALUE:

Latest pricing makes DE-CIX

more attractive for Small & Medium networks

Product	Access speed Gbps	MRC eco-members EUR	MRC non-eco EUR
1GE Fractional *	0,2	200	350
1GE line rate	1,0	500	750
10GE Fractional	2,5	1200	1450
10GE line rate	10,0	2300	2650

Extension:

Latest regional DE-CIX extension

in Munich, ALP-IX2 @ Landsbergerstr. 155

ports <u>free of charge</u> for 6 months
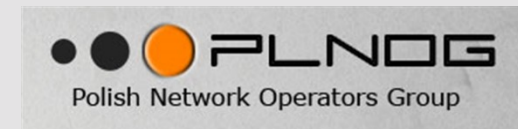
German Internet Exchange

Events hosted by DE-CIX, 1st half 2010

- 2 March: Executive Carrier Breakfast, FFM
- 3 March: Roundtable Warsaw, PL
- 25 March: Roundtable ALP-IX, MUC
- 12-17 April: GPF5, Miami
- 20-21 May: IPv6 Congress, FFM

Events to meet DE-CIX – Staff, 1st half 2010

- 4-5 March: PLNOG 4, Warsaw
- 12-13 April: CAP Balkans, Bucarest
- 23 April: SWINOG, Bern
- 28-29 April: Caspian Telecoms, Istanbul
- 3-7 May: RIPE 60, Prag
- 13-16 June: NANOG49, San Francisco

German Internet Exchange

Or just visit us in Frankfurt.
We will buy you Lunch ☺

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