DE-CIX Internet Exchange

Update

Frank.Orlowski@de-cix.net

02 October 2007

About DE-CIX

- – Founded 12 years ago
- – Owned by a not-for-profit Internet Industry association
- – Today 2nd largest Internet Exchange in the World
- – Frankfurt based company plus office in Cologne
- – Each staff member has at 10+ yrs Internet experience
- – Portfolio includes full range of interconnect products
- – Products for small-medium and large ISPs

DE-CIX

		09/2006	**09/2007**	**12/2007** (Plan)
–	# Customers	180	216	230
–	# Colos served	5	9	10
–	# switches	3 C6509	4 E1200	5 E1200
–	# Ports (total)	260	333	345
–	# 10GE ports	~ 25	115	140
–	Peak Traffic	90Gbps	200+Gbps	250Gbps

Traffic
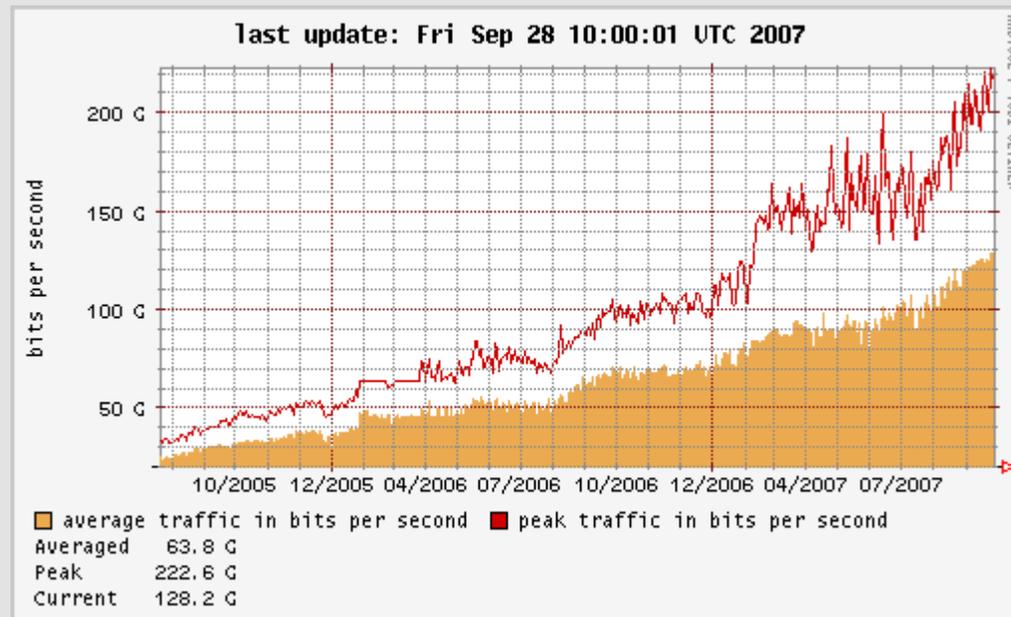
Locations

| DE-CIX enabled sites in Frankfurt/Germany:	Public Peering	Private VLAN	Private IC	Router Colo
ancotel, Kleyerstr. 90 (MMR T2)	X	X		
Avaya/Tenovis, Kleyerstr. 79 (Building K)	X	X		
Global Crossing, Kleyerstr. 90 (Building A)	X	X		
Interxion, FRA1, Hanauer Landstr. 302	X	X	X	X
Interxion, FRA2, Hanauer Landstr. 304A	X	X	X	
Interxion, FRA3, Weissmüller Str. 21	X	X	X	
Interxion, FRA4, Weissmüller Str. 19	X	X	X	X
I.T.E.N.O.S., Rebstöckerstr. 25-31 (MMR B2.06)	X	X		
Telecity Redbus, Gutleutstr. 310	X	X	X	X

Locations
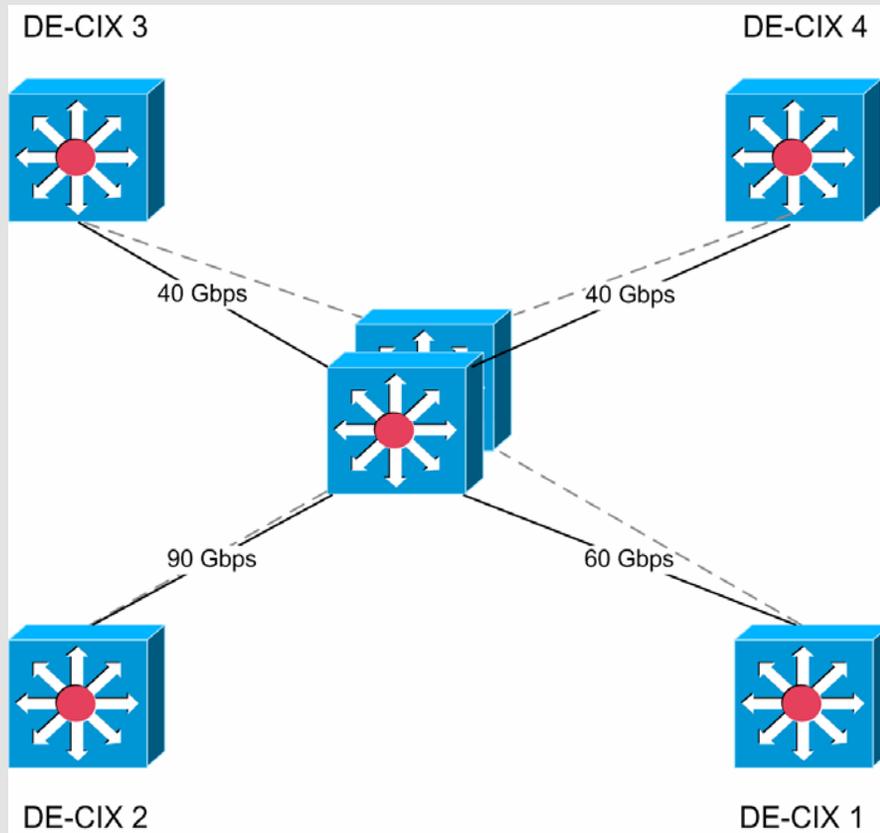
DE-CIX Ports
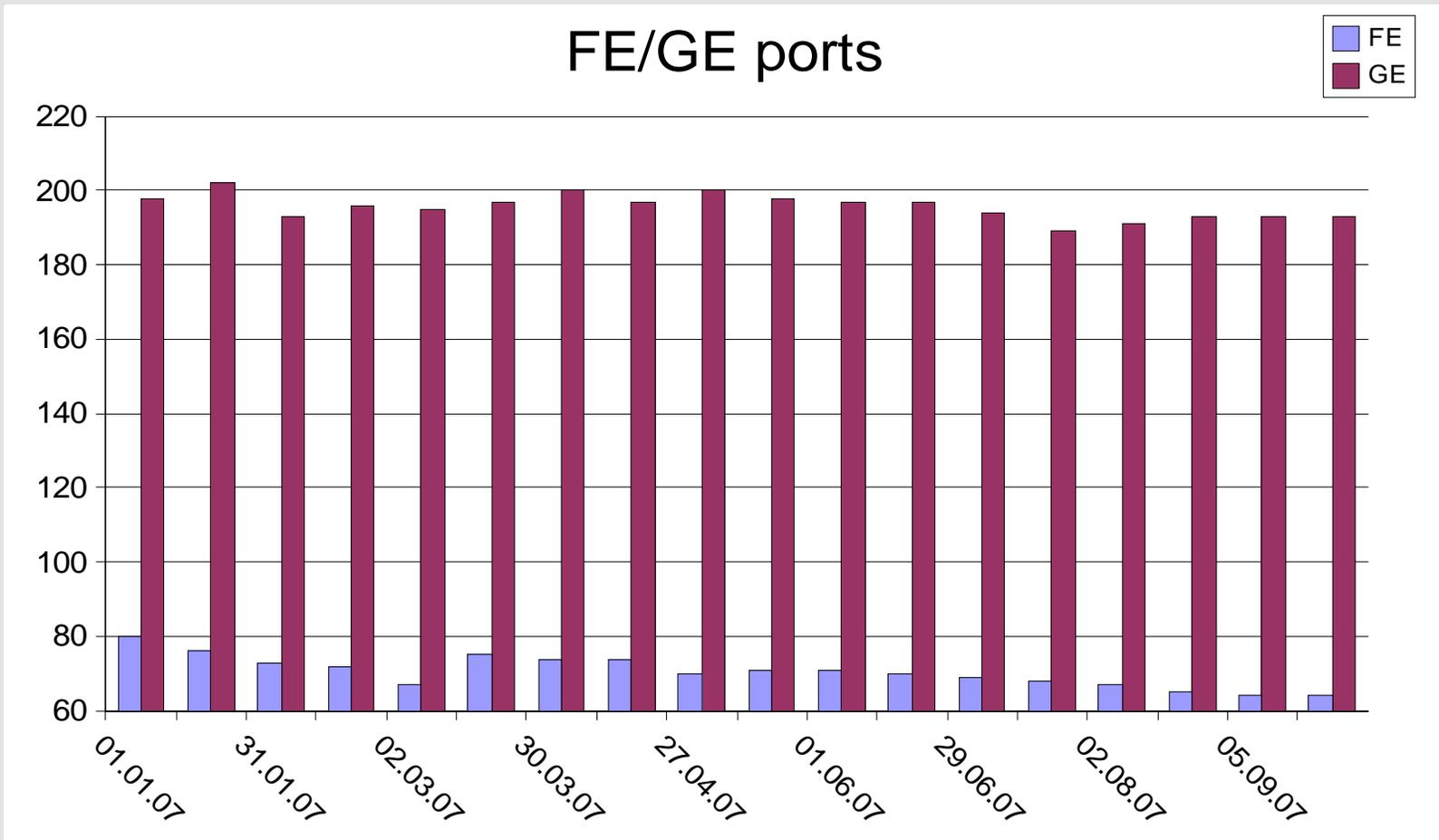
DE-CIX Ports ctd.
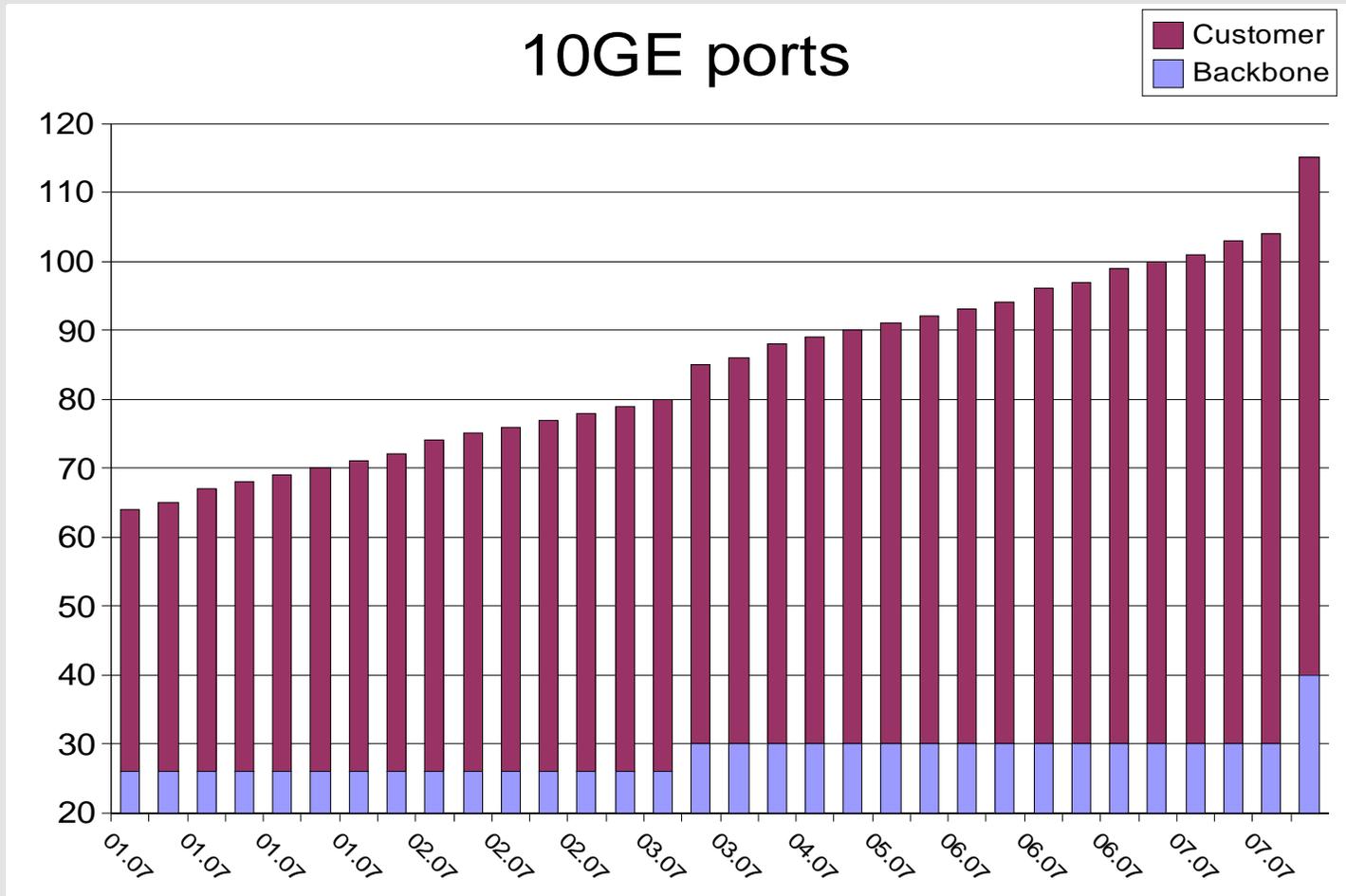
Topology today
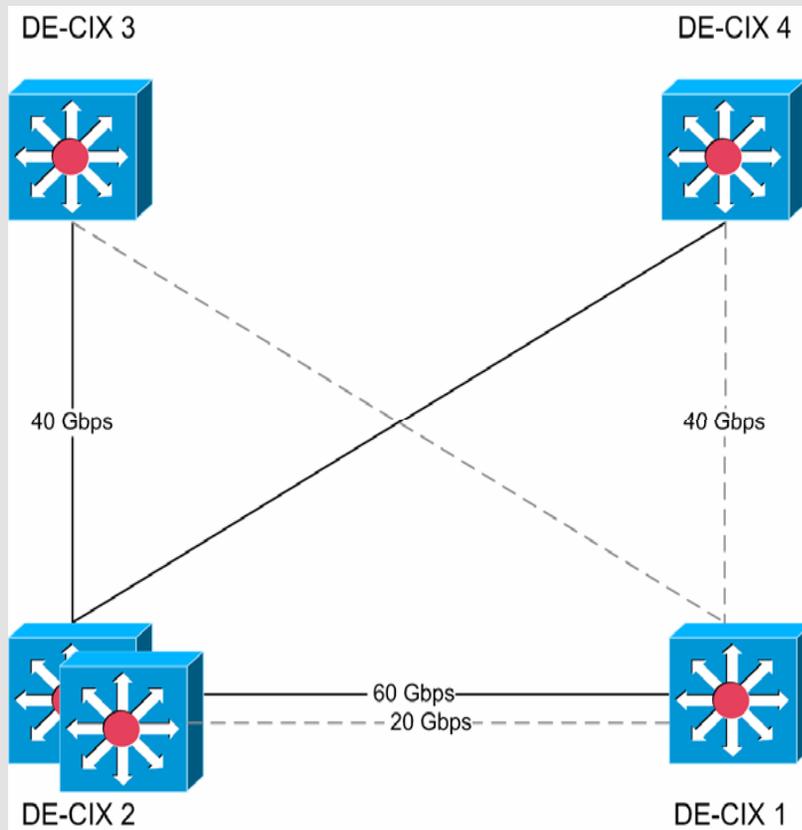
- – All connections are n x dark fiber
- – fiber protection devices are used to build backbone redundancy
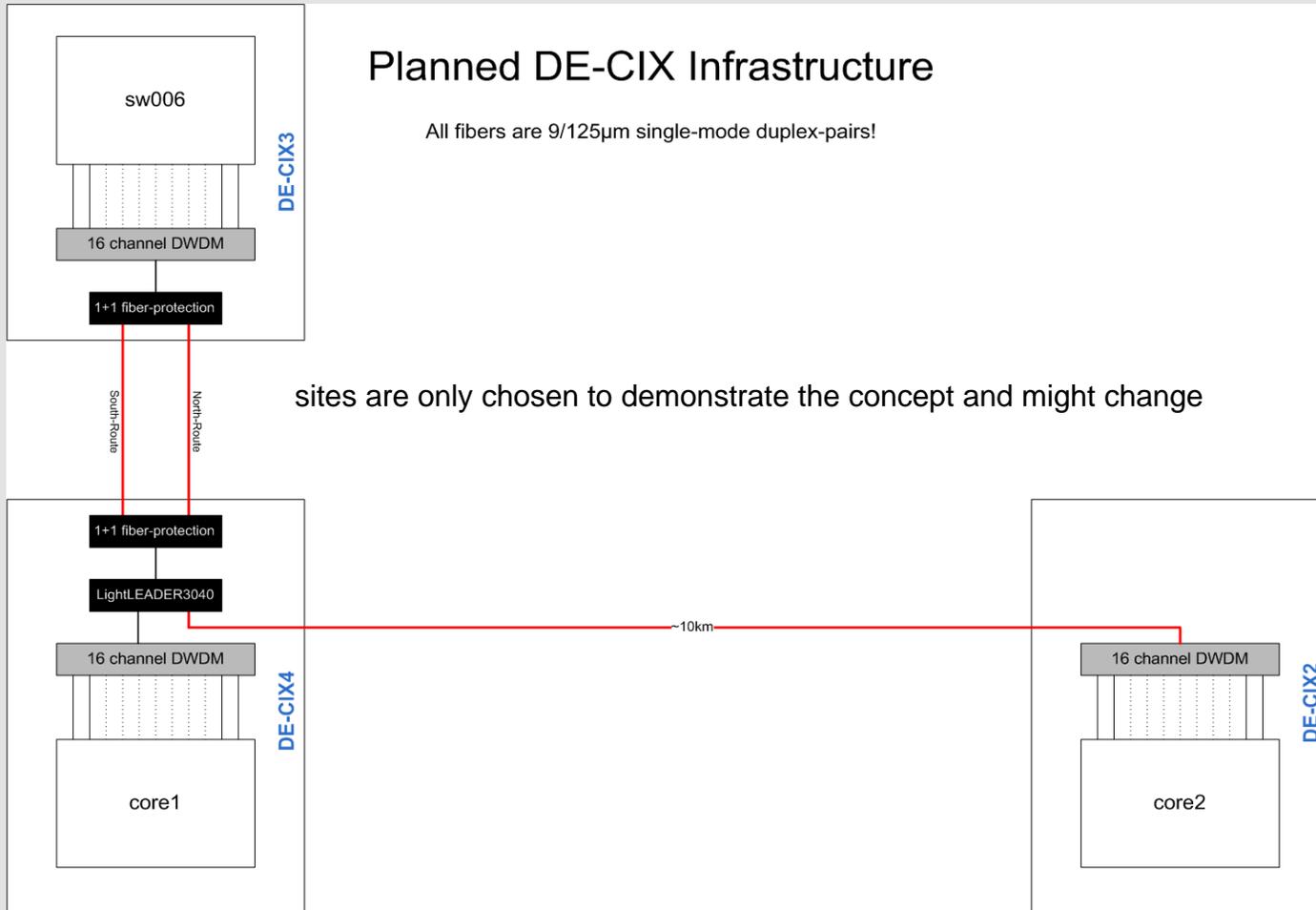- – Robust design, has its limitations

Future Topology

- – „Double star" topology
- – Core and access switches use DWDM to interconnect and fiber protection devices to fail over
- – Changes will be done in several steps to achieve smooth migration

Future Topology

Planned DE-CIX Infrastructure

All fibers are 9/125µm single-mode duplex-pairs!

sites are only chosen to demonstrate the concept and might change

sw006

DE-CIX3

16 channel DWDM

1+1 fiber-protection

South-Route

North-Route

1+1 fiber-protection

LightLEADER3040

16 channel DWDM

DE-CIX4

core1

~10km

16 channel DWDM

DE-CIX2

core2

DE-CIX Targets

– Eastern European players
– CDN's

– Everyone else ;-)

Recent News

- – Takeover of Hamburg based WORK-IX (30 customers)
- – Expanded Frankfurt office (free conference facilities for customers; Force10 Germany Office)

Whats next ?

- Hire additional support & business development staff
- add switch #5 first
- then re-design the whole IX
- to further stipulate traffic exchange we would like to introduce 802.1q tagging (aka vlans) also on "peering" ports

  - will be commercially attractive
  - may be used for closed user groups, Transit...
  - anything else for the wishlist?

- Promotional offer Oct-Dec, save 3000 EUR

# Upcoming Events hosted by DE-CIX

– 16 October: Global Peering Forum 2.5, Albuquerque, New Mexico, www.peeringforum.com

– 17 October: CNX1 „Networking for Carriers" & Peering Workshop, Frankfurt, www.cnx-frankfurt.com

– 17 October: DE-CIX & Force10 Housewarming Party Frankfurt, http://www.de-cix.net/info/housewarming-party.html

– 28-29 November: Euro Peering Forum 2, Barcelona, http://www.peering-forum.eu

Upcoming Events hosted by DE-CIX
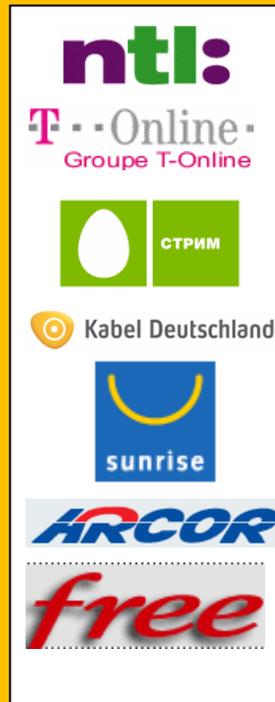
Thanks !

Join DE-CIX now.

DE-CIX Competence Center
Lindleystrasse 12
60314 Frankfurt/Germany

Phone +49 1730 902 - 0
Info@de-cix.net

DE-CIX Competence Center @ Kontorhaus Building
Frankfurt Osthafen (Docklands)