

DE-CIX Update

SwiNOG 29

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Awesome for 20 years

- » 2015 special year: DE-CIX Frankfurt was founded in 1995 – 20th anniversary
- » In its 20th year: Peak traffic at Frankfurt close to 5 Terabit/s, connected customer capacity exceeds 18 Terabit
- » DE-CIX operates nine exchanges now



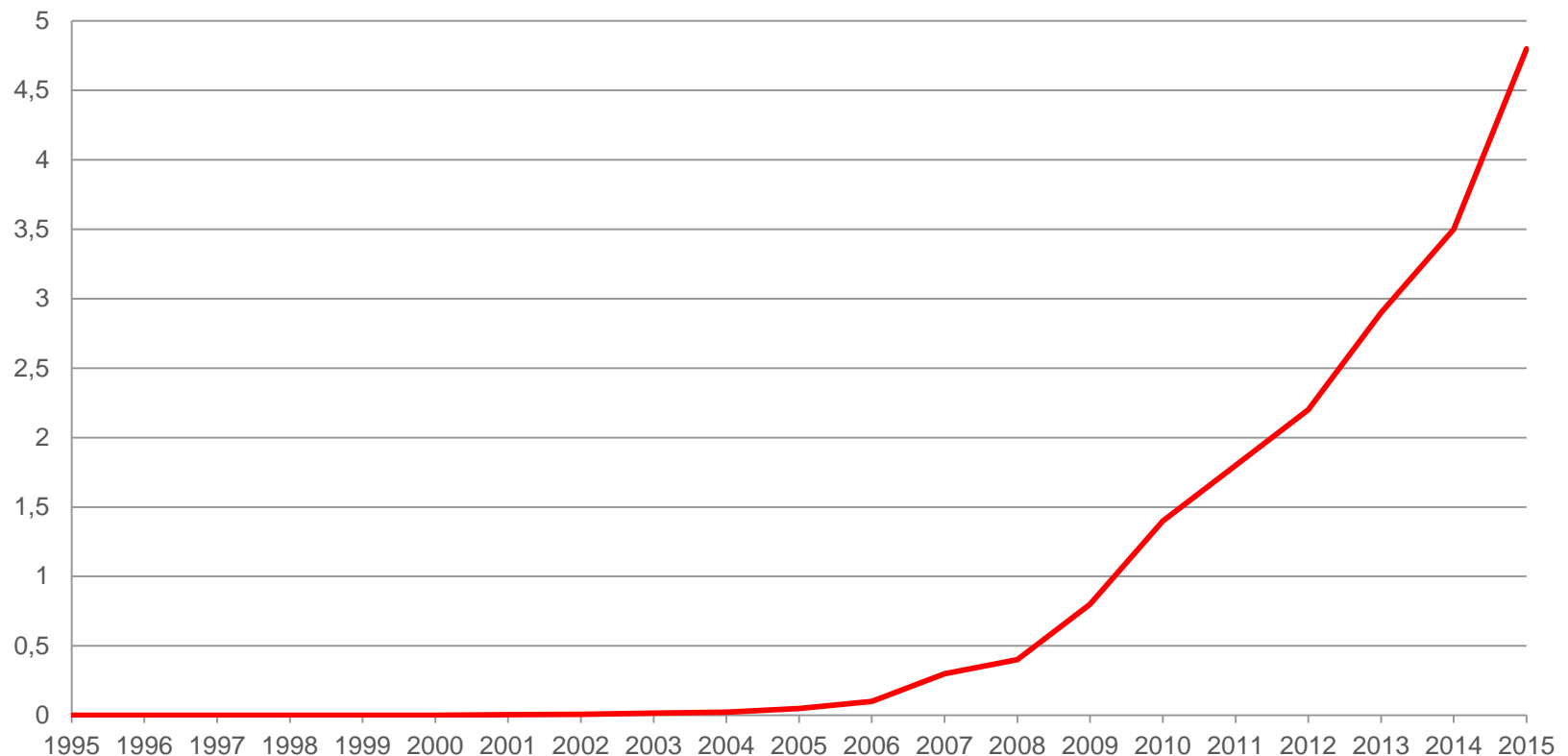
**20 years anniversary
dinner in Frankfurt**

As time goes by...

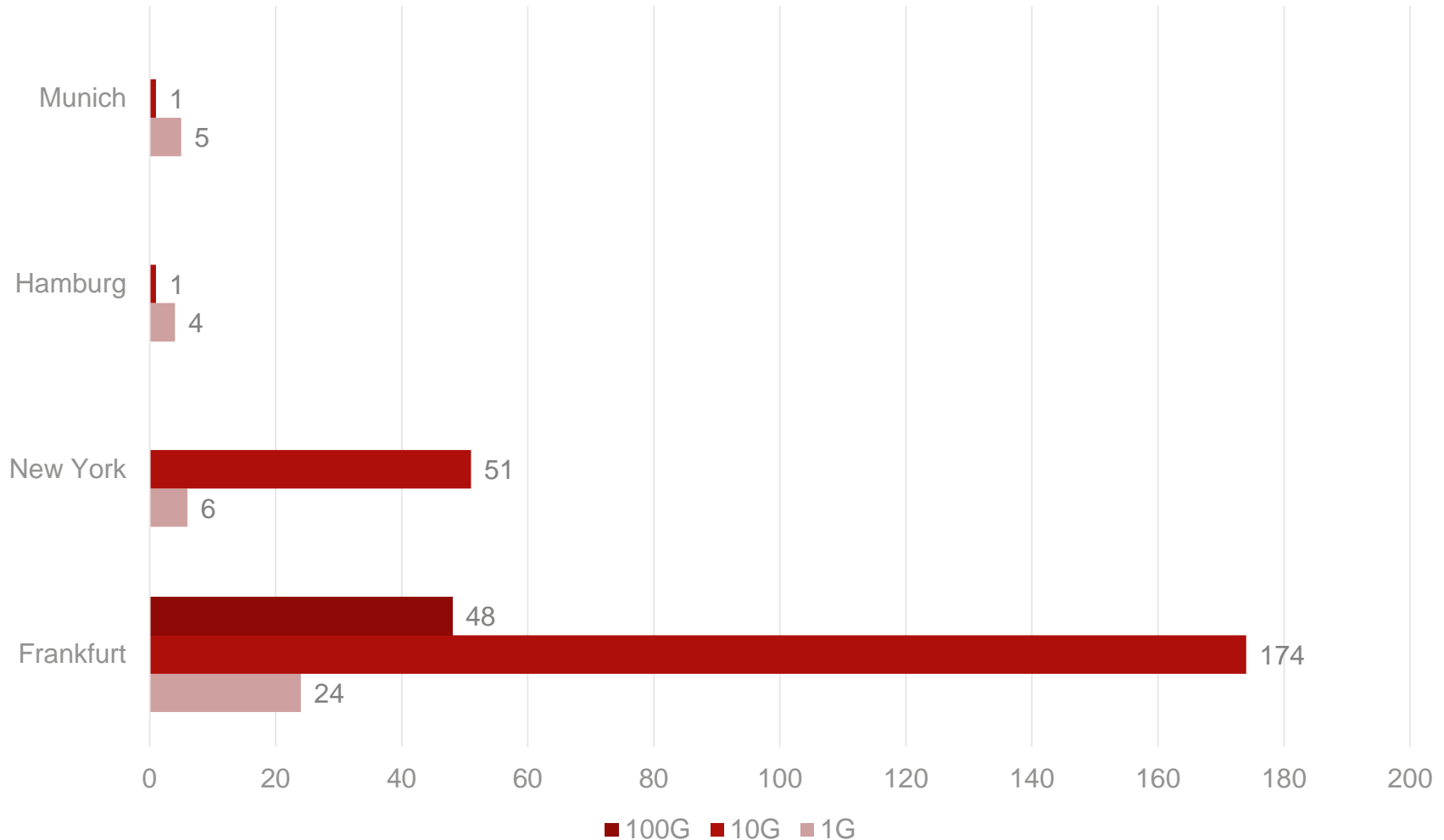


Frankfurt 1995-2015

Peak traffic at DE-CIX Frankfurt 1995 - 2015
(in terabits per second)



New ports at DE-CIX in 2015



2015: Four new exchanges have been announced



Technical update

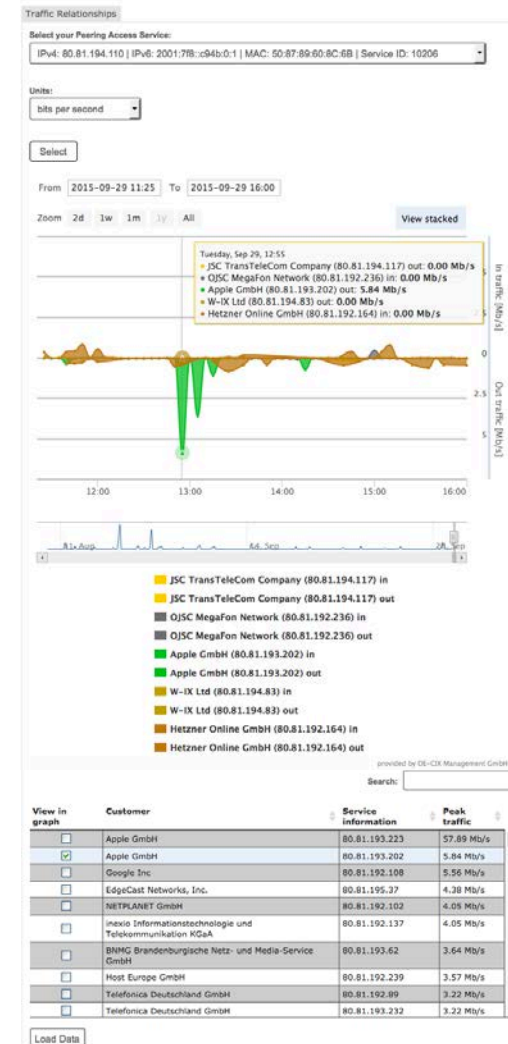
- » Continued strong growth in Frankfurt
 - » Total connected customer bandwidth exceeds 18 Tbit
 - » 50+ 100G-Ports have been added to the fabric
 - » Third Alcatel-Lucent XRS-40 has been added
 - » Core bandwidth expanded to 8 Tbit
 - » Peaktraffic 4.9 Tbit/s
- » Three new IXs in service
 - » Palermo (live!)
 - » Marseille (live!)
 - » Istanbul (will be live till end of November)
- » Three new sites for DE-CIX New York
 - » 2 Emerson Lane, Secaucus
 - » 275 Hartz Way, Secaucus
 - » 5851 Westside Ave, North Bergen

New Service Insights System is live in Frankfurt

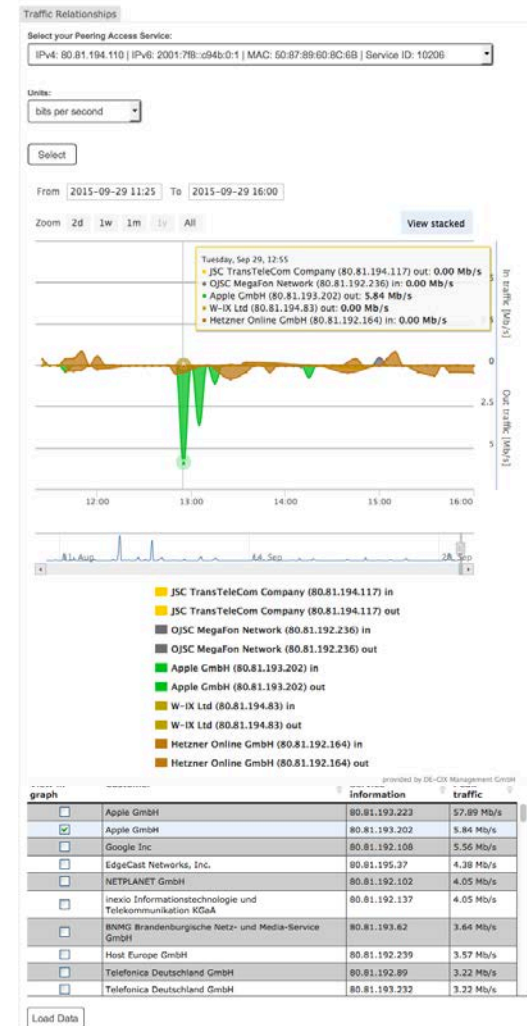
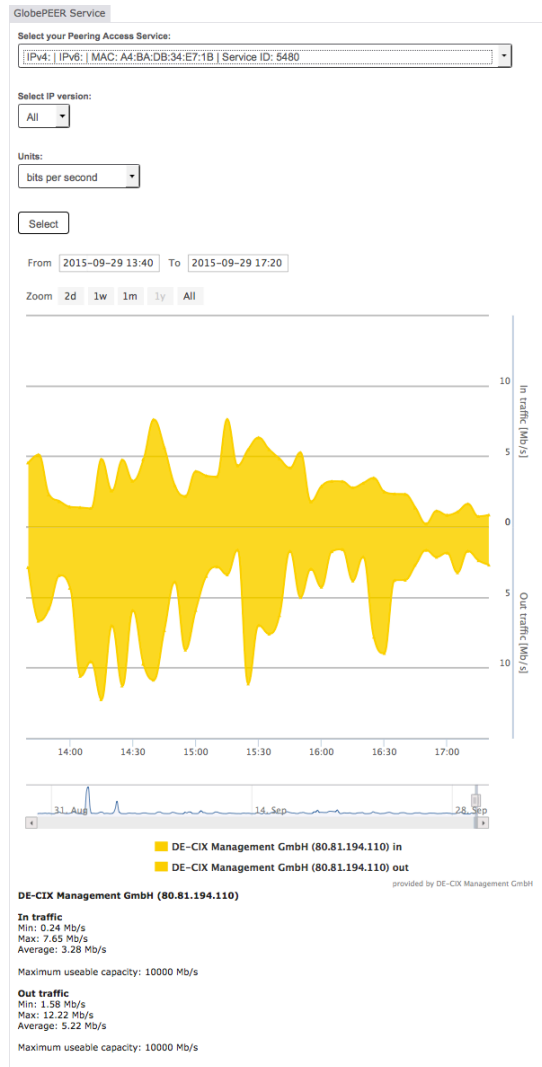
- » Customers are able to check the overall utilization of their GlobePEER services and detailed peering traffic relationships
- » NoSQL document based database
- » Easy initial setup
- » Data aging and timeline resolution
- » Installation:
 - » 11 Nodes:
 - » Cluster with nine nodes storing data on SSDs
 - » Indexing performance: about 50k/sec data records (current demand: 6k/sec (peak))
 - » Two nodes serving queries and data aggregations
 - » Nodes distributed over three locations in Frankfurt
 - » One location can go offline without data loss
 - » Data: 14 TByte (capacity: 40 Tbyte)
 - » Documents: 8 billion

Data Presentation

- » Integration into DE-CIX website
- » Different time-based resolutions
 - » 5 minutes for 7 days
 - » 1 hour for 1 month
 - » 1 day up to several years
- » Statistics available today
 - » GlobePEER Service
 - » IPv4, IPv6, Packets/s, Bits/s
 - » Traffic Relationships
 - » Packets/s, Bits/s
 - » Compare up to 5 peers



Demo





Awesome for
20
years

By joining DE-CIX, you become
part of a universe of networks.
Everywhere.

DE-CIX. Where networks meet.



**Where
networks
meet**

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Thank you.