DENOG14 **IXP Update**

IXP Update

- We'd like give all IXPs in DE the chance to provide a brief update
- Spontaneous idea last year, updated this year
- We asked 18 IXPs, 12 responded (+5 to last year)
- Answers are directly from the IXPs

- Staff of most of the IXPs is here at DENOG, feel free to talk to them

- We indicated which values changes to more, less or stayed equal
- We didn't for the locale ASNs, as we don't think this is an KPI to compare just by numbers

NL-IX

- **Highlight of last year**: 400G and 800G ports in Amsterdam, shortly in Frankfurt, being more active in Germany

- **Most significant change last year**: BGP communities at the route-server :-)

- **The Next Big Thing**: Connection to Dublin, upgrading Paris, investigation additional sites in Germany

	Sites	Local ASNs	Local capacity	Peak Traffic
DE	7 (100+) →	487	n/a	6.5T ↗

Equinix IX

- **Highlight of last year**: 40% new members over the last 18 months in Frankfurt

- **Most significant change last year**: Added Jeddah as new IX with now 30 participating counties and 17 IX metros in EMEA (including Frankfurt)

- **The Next Big Thing**: IX reselling program (to be announced)

	Sites	Local ASNs	Local capacity	Peak Traffic
Frankfurt	1 (Campus)	100+		150G

BREM-IX

- **Highlight of last year**: successful switch to ixpmanager

- **Most significant change last year**: successful switch to ixpmanager

- **The Next Big Thing**: connect the remaining asns in bremen :-)

	Sites	Local ASNs	Local capacity	Peak Traffic
Bremen	4 →	6	52G ↗	2G ↗

ECIX

- **Highlight of last year:** The outcomes in current times are no big change as during last year
- **Most significant change last year:** Consolidations and suspected upgrades across metros
- **The Next Big Thing:** Deployment of bigger than 100G ports

	Sites	Local ASNs	Local capacity	Peak Traffic
Frankfurt	28 ↗	101	4.0T ↗	565G ↗
Dusseldorf	5 →	115	4.0T ↗	827G ↗
Hamburg	4 →	60	1.2T ↗	105G ↗
Berlin	5 →	49	0.9T ↘	149G ↗
Munich	3 ↗	42	1.1T ↗	128G ↘

Community-IX

- **Highlight of last year**: doubled peak traffic to about 100-128Gbit/s

- **Most significant change last year**: n/a

- **The Next Big Thing**:
  new PoPs Hamburg and Duesseldorf

	Sites	Local ASNs	Local capacity	Peak Traffic
Berlin	3	34	n/a	128G
Frankfurt	2	21	n/a	10G

KA-NIX

- **Highlight of last year**: n/a

- **Most significant change last year**: n/a

- **The Next Big Thing**:
  Migrating all members to a new own dedicated hardware platform

	Sites	Local ASNs	Local capacity	Peak Traffic
Karlsruhe	3	6	72G	17,2G

- **Highlight of last year**: 20th anniversary party

- **Most significant change last year**: New managing directors

- **The Next Big Thing**: 400G (customer ports, transport system)

	Sites	Local ASNs	Local capacity	Peak Traffic
Berlin	11 ↗	101	5.1T ↗	775G ↗
#2 - #5	We like to keep peering local - so there is only one metro.			

Rheintal-IX

- **Highlight of last year**: We've got MPLS capable switches sponsored.

- **Most significant change last year**:
  Moving all the servers to the new virtualisation platform.

- **The Next Big Thing**:
  Getting the ring around the Lake of Constance done - just the Bavarian part around Lindau is missing any more.

	Sites	Local ASNs	Local capacity	Peak Traffic
Konstanz	5 ↗	33	96G ↗	3G ↗

N-IX

- **Highlight of last year**: n/a

- **Most significant change last year**: n/a

- **The Next Big Thing**: n/a

	Sites	Local ASNs	Local capacity	Peak Traffic
Nuremberg	6 →	26 ↗	n/a	20G

DE-CIX

- **Highlight of last year:**
  13 Tbps caused by hosting-, messenger provider and longtail. Very strong growth, especially at DE-CIX Munich from local access networks (new + upgrades) and CDN re-joining.

- **Most significant change last year:**
  1) Transition to EVPN / Peering LAN 2.0 for DE-CIX at all locations (32x)
  2) Increasing number of global enterprises joined DE-CIX for cloud and peering services.

- **The Next Big Thing:** Operating DE-CIX Leipzig starting in Oct. 2022 will significantly support the development of Central Germany in the near future - first in cloudification followed by localizing traffic.

DE-CIX (cont.)

	Sites	Local ASNs	Local capacity	Peak Traffic
Frankfurt	25+ ↗	(1092)	n/a	13.65T ↗
Munich	6 →	(230)	n/a	170G ↗
Hamburg	3 →	(221)	n/a	264G ↗
Dusseldorf	5 →	(274)	n/a	285G ↘
Leipzig	2 ↗	TBD	TBD	TBD

Stuttgart-IX

- **Highlight of last year:**
  Joined EURO-IX

- **Most significant change last year**:
  Prepared for possible black outs with additional UPS

- **The Next Big Thing**:
  A new large CDN is joining us

	Sites	Local ASNs	Local capacity	Peak Traffic
Stuttgart	5 →	33	665G ↗	52G ↗

DO-IX

- **Highlight of last year**:
Unfortunately not much happened this year due to time-constraints

- **Most significant change last year**:
Routeserver / RPKI Implementation

- **The Next Big Thing**:
Get more Members, build an active community in 2023, maybe 2 more sites in Dortmund

	Sites	Local ASNs	Local capacity	Peak Traffic
Konstanz	1	8	540G	90G

Next year: Same, same or different?

- What do you want to see next year?
  Please write us in the survey or to ixp-update@denog.de

  Thank you!