



Euro-IX Update

SEE2– Skopje, April 2013

Euro-IX - Bijal Sanghani

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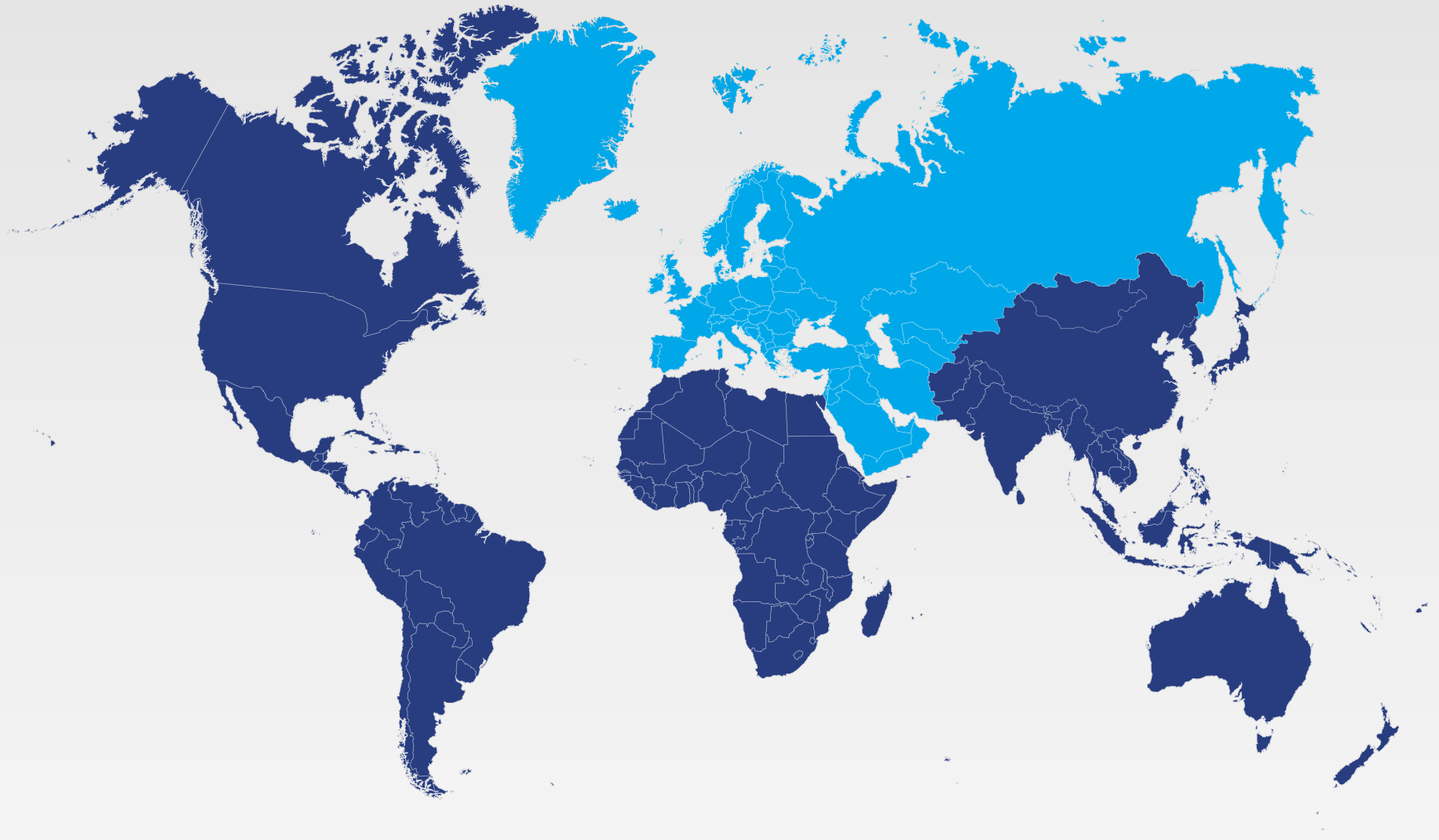
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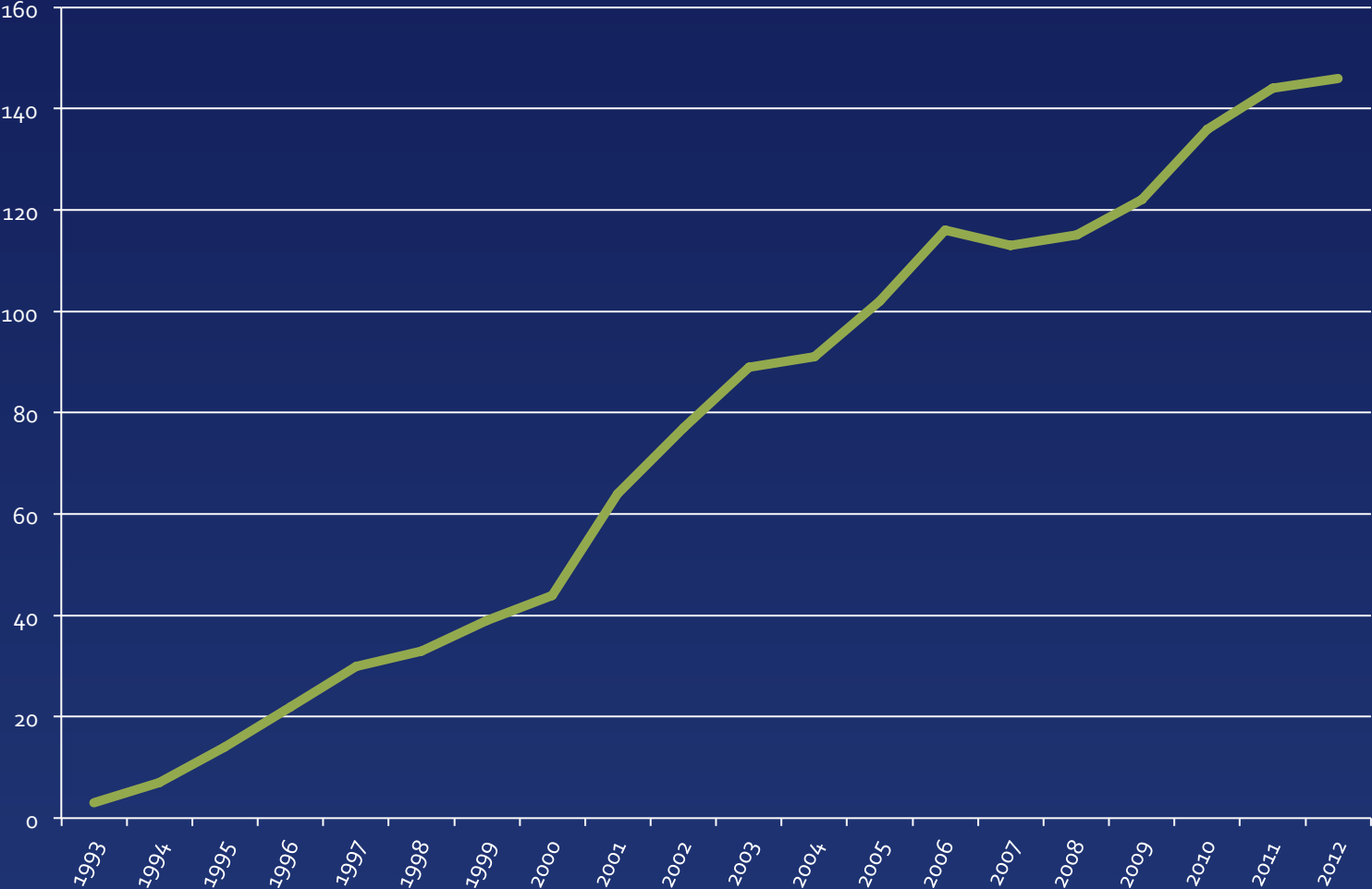
An Association for Internet Exchanges

- 74 affiliated IXPs :
 - 52 IXPs in Europe (30 Countries)
Operating over 70 Internet exchanges
 - 22 IXPs from the rest of the world
 - Newest Members, ALB-IX (Albania), TunIXP (Tunisia), KINIX (Congo), UAE-IX (United Arab Emirates), ZIXP (Zambia), CyrusOne (USA) and OttIX (Canada)
- 11 affiliated patrons:
 - ADVA Optical Networking
 - Brocade
 - Cisco
 - Extreme Networks
 - Interxion
 - Juniper Networks
 - MRV
 - Telecity
 - Telehouse
 - Alcatel-Lucent
 - Huawei

Euro-IX Region



Growth of IXPs in the Euro-IX Region since 1993



Why does Euro-IX do this?

For the good of the IXP community

- 2 Forums a year
- Maintains the Website, database and tools
- Mailing Lists
- Working Groups and Task Forces
- Euro-IX BMC - Benchmarking Club
- Annual European IXP Report
- Twinning Program
- Other project, e.g., Euro 2012 CL with RIPE NCC

Internet Exchange Federation

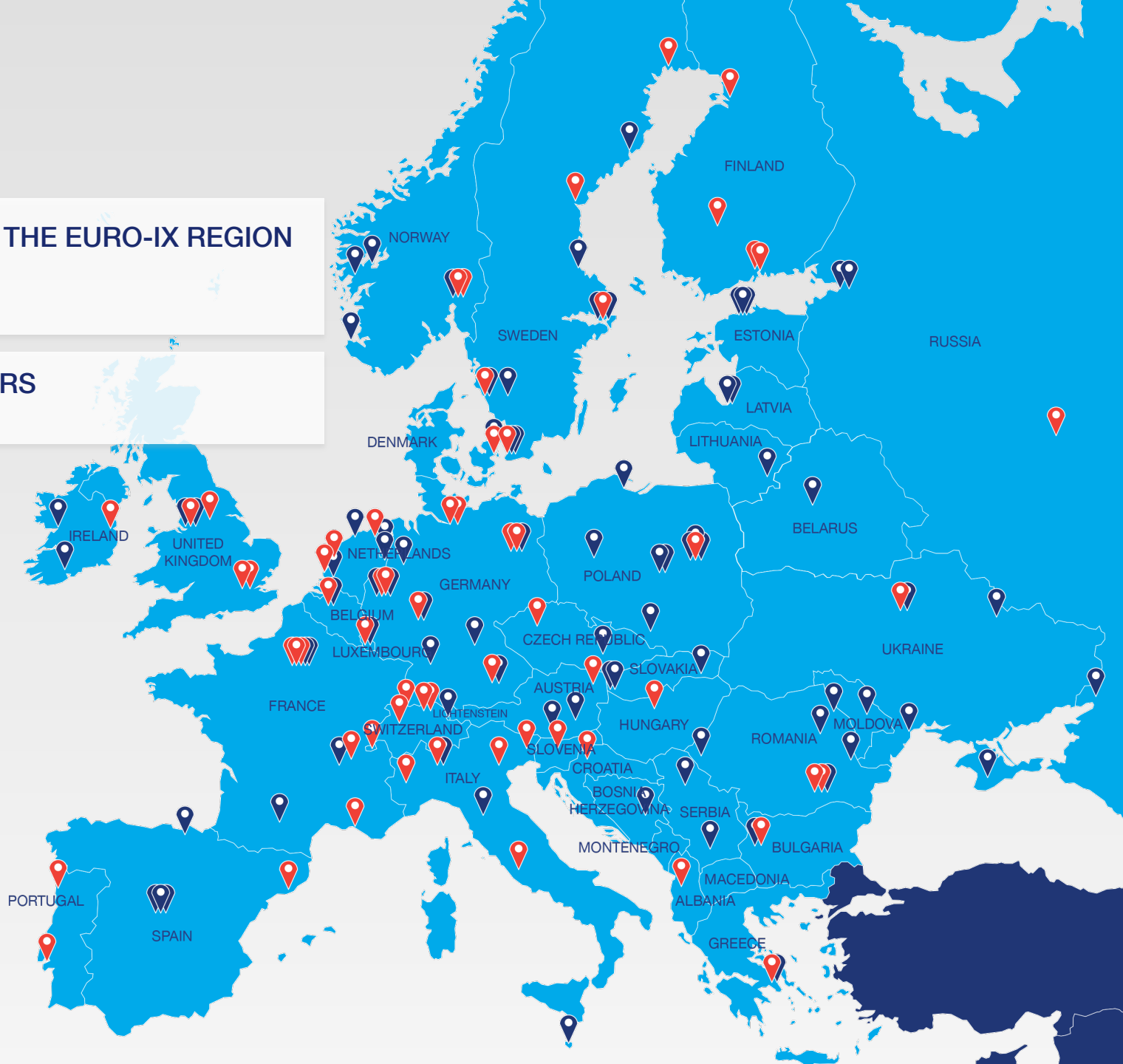
- Since 2005 non EU IXPs were invited to Euro-IX
- Formation APIX, LAC-IX and Af-IX (August 2012)
- MoU signed to form the IX-F in November 2012
- Idea to have a Global IXP DB
- Automate Data Collection from all IXPs
- Set standards

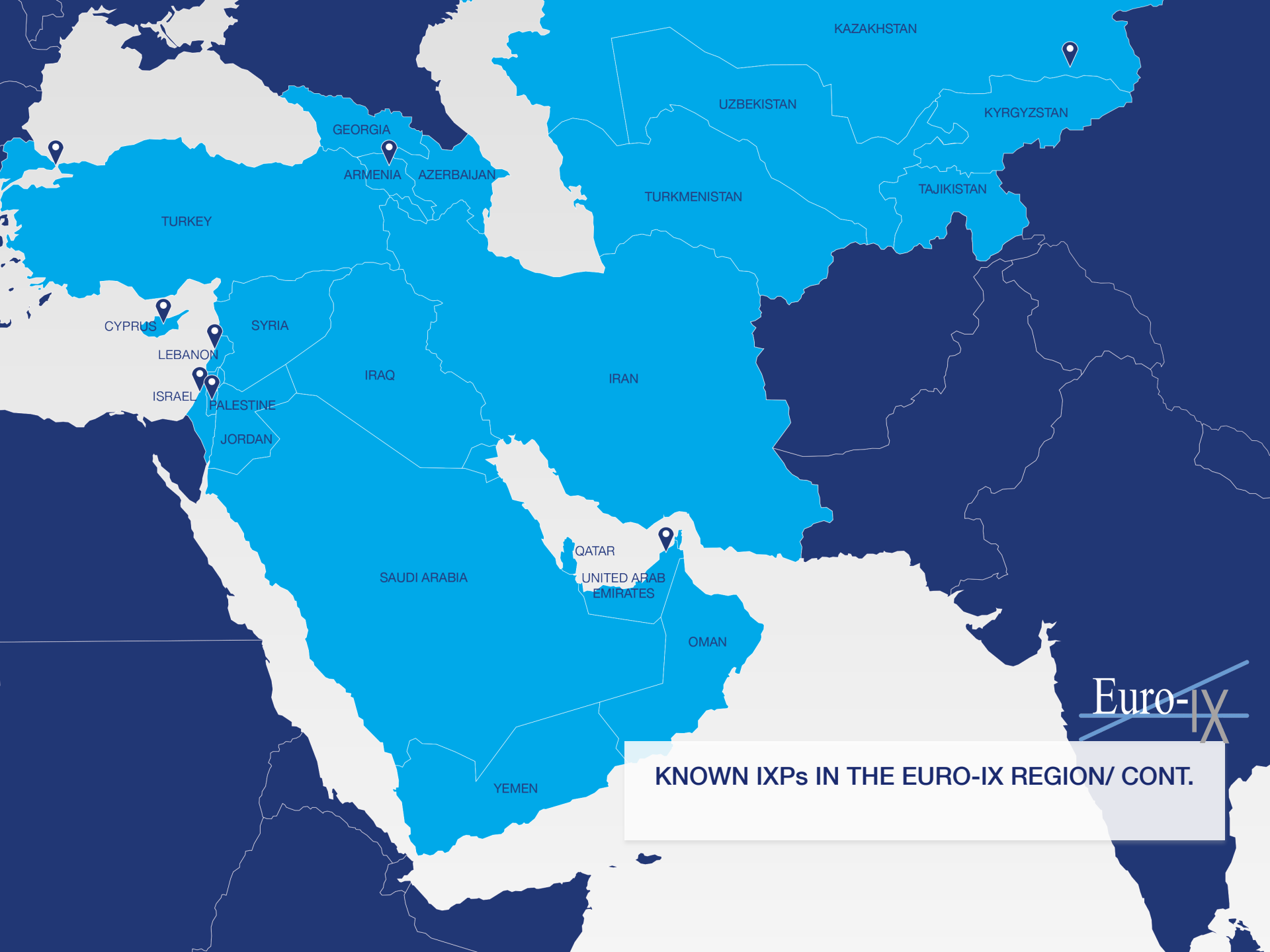


ICELAND

161 KNOWN IXP^s IN THE EURO-IX REGION
48 COUNTRIES
123 CITIES

 EURO-IX MEMBERS
 OTHER IXP^s



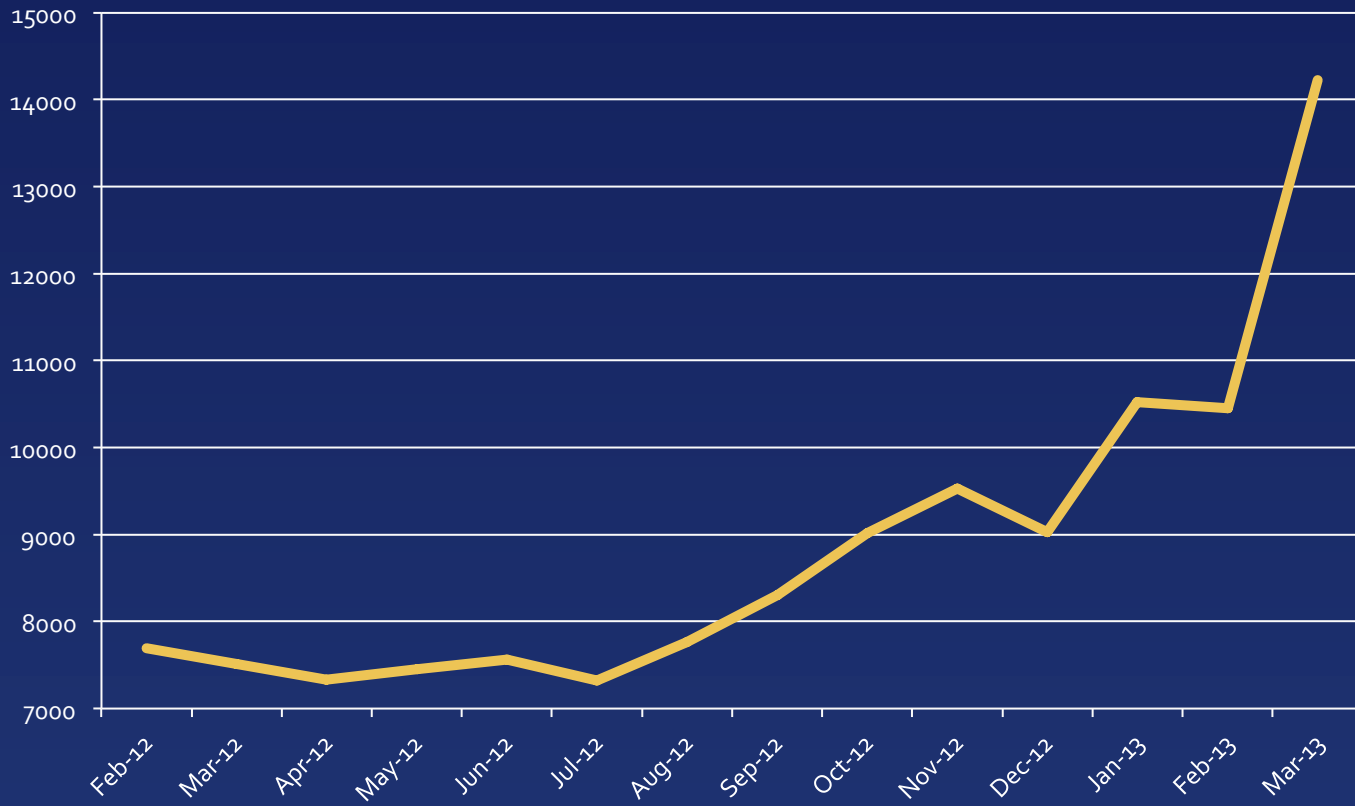


Euro-IX

KNOWN IXPs IN THE EURO-IX REGION/ CONT.

Euro-IX Region Traffic growth past 12 months in Gbps

(known IXPs in Europe, public peering LANs)

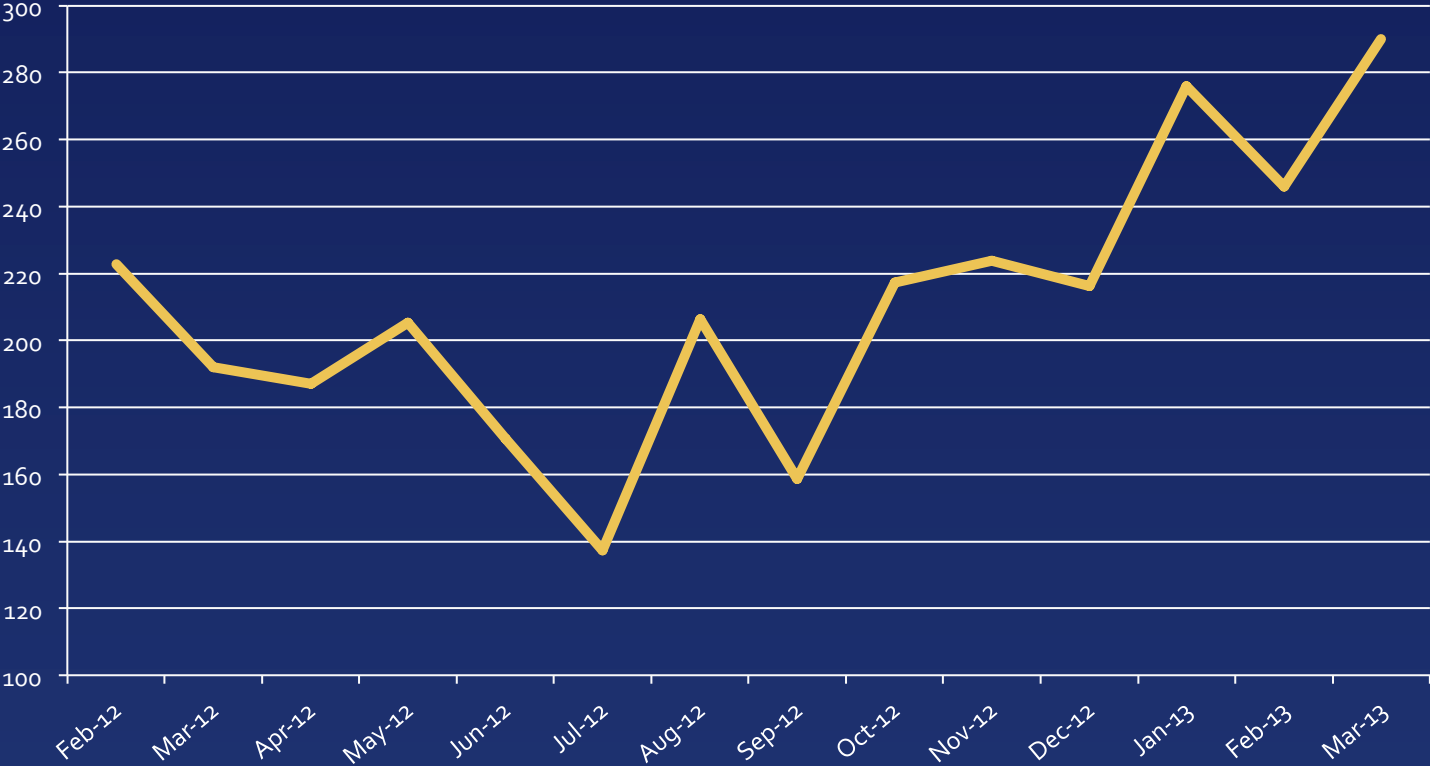


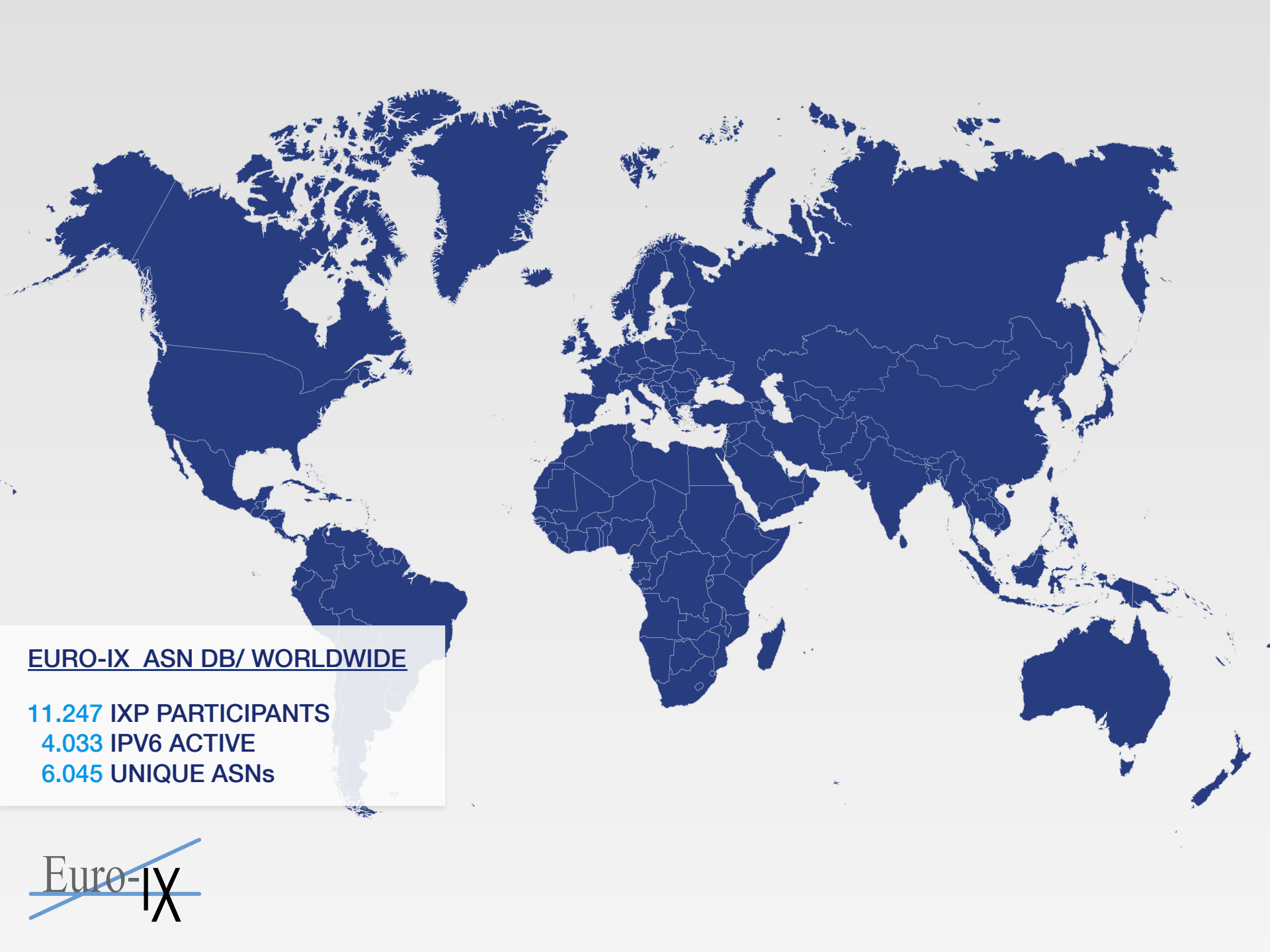


23 KNOWN IXPs IN SOUTH EAST EUROPE
13 COUNTRIES
18 CITIES
📍 EURO-IX MEMBERS
📍 OTHER IXPs

SEE Region Traffic growth past 12 months in Gbps

(known IXPs in SEE, public peering LANs)





EURO-IX ASN DB/ WORLDWIDE

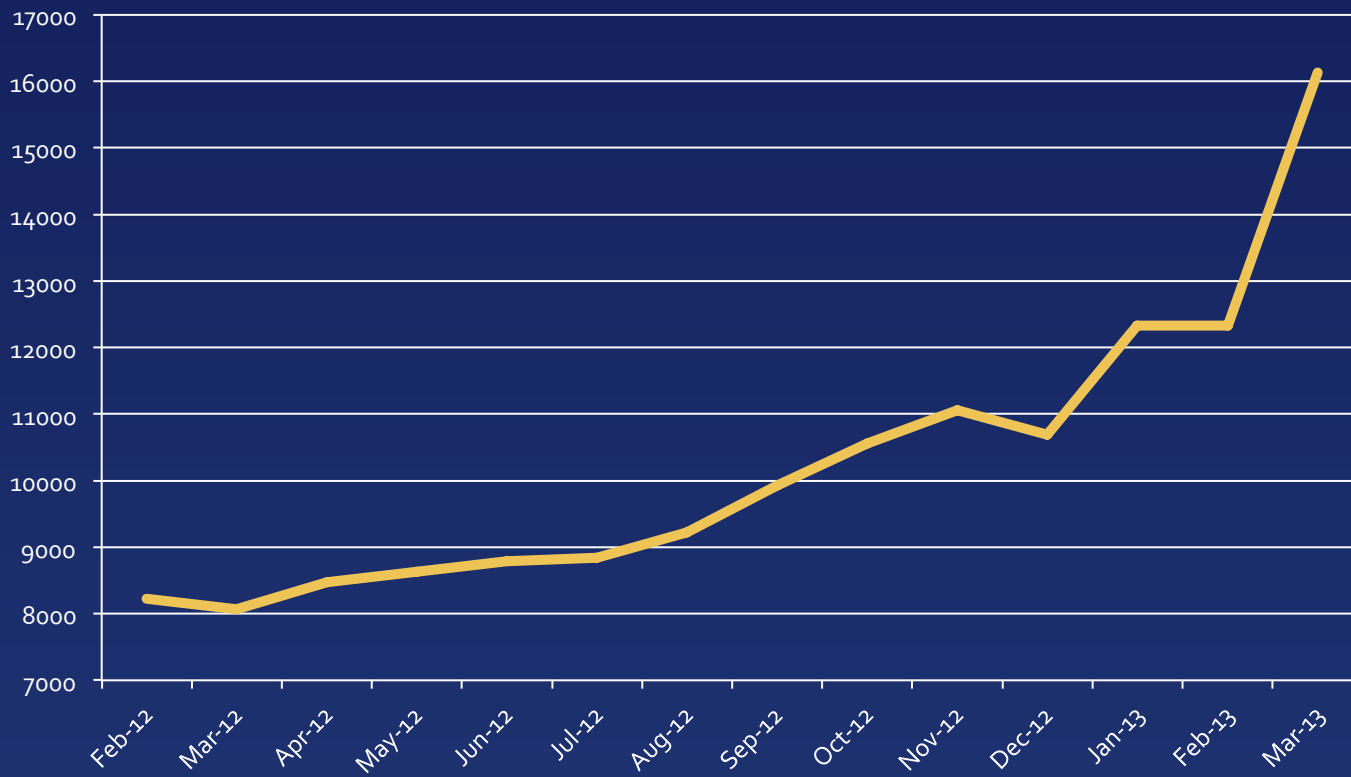
11.247 IXP PARTICIPANTS

4.033 IPV6 ACTIVE

6.045 UNIQUE ASNs

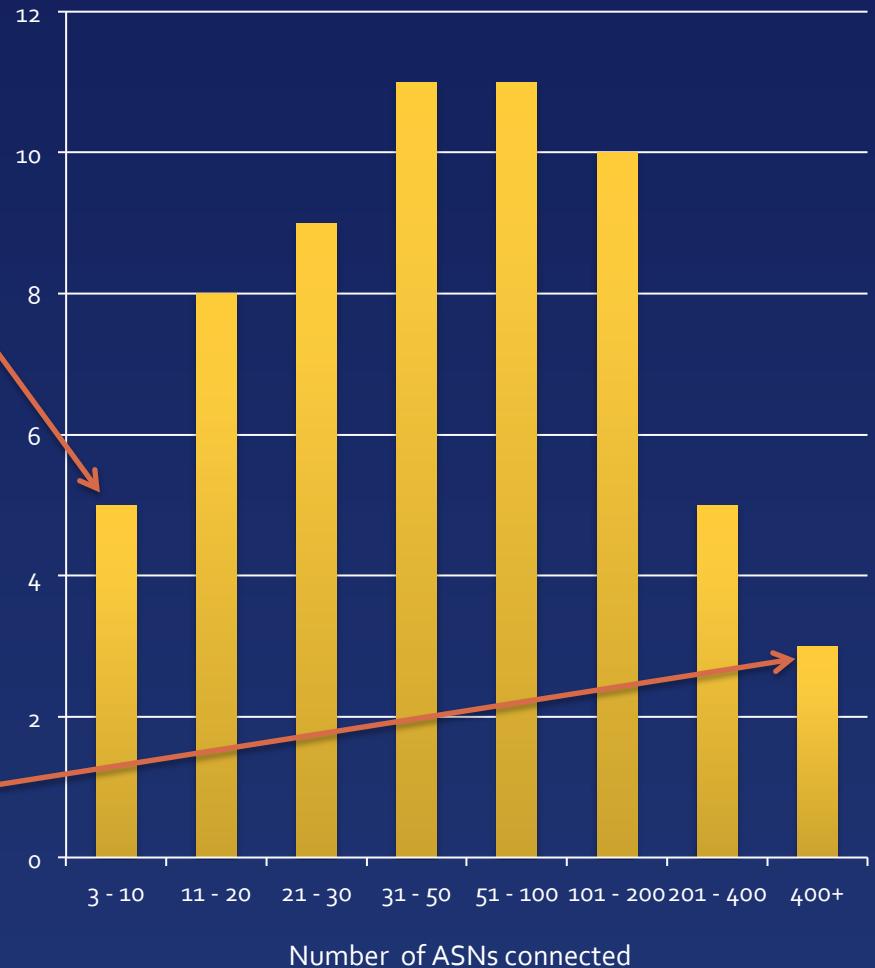


Global Traffic growth past 12 months in Gbps (known IXPs, public peering LANs)



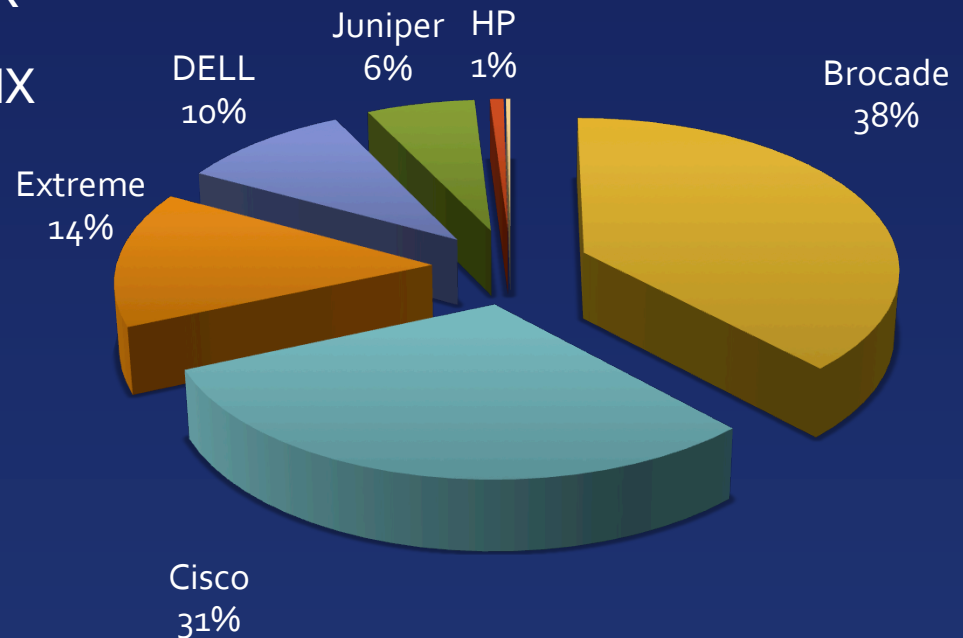
Range of Euro-IX IXP's with a given range of ASNs connected

- 3-10 ASNs connected - KINIX (Congo), CAR-IX (Caribbean)
- 11-30 ASNs connected - TREX (Finland), NPIX (Nepal), Gigapix (Portugal), GNIX (Netherlands)
- 50-100 ASNs connected - NAMEX (Italy), INEX (Ireland), Netnod (Sweden), JPNAP (Japan)
- 100-300 ASNs connected - UA-IX (Ukraine), SWISS-IX (Switzerland), PLIX (Poland)
- 300+ ASNs connected - AMS-IX (Netherlands), DE-CIX (Germany), LINX (UK) & PTT.br (Brazil)



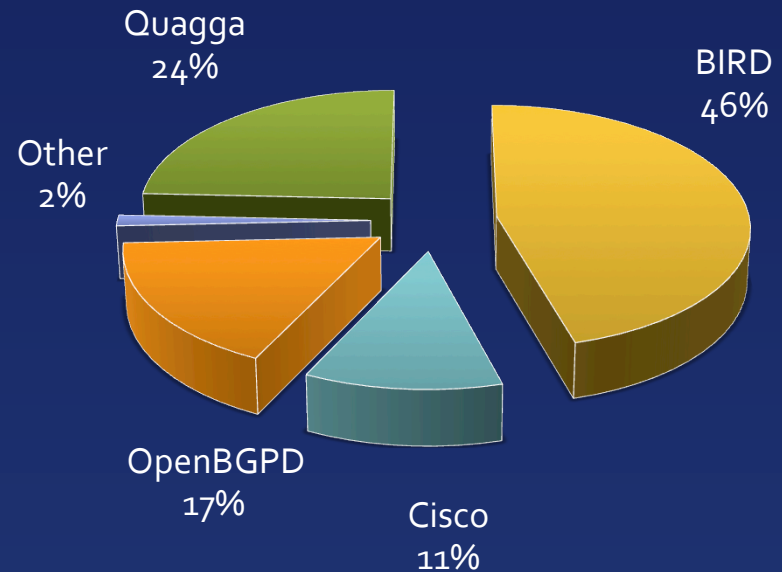
Market share of vendors among EU IXPs within the Euro-IX Membership (%)

- Brocade – AMS-IX, MIX (IT), JPIX
- CISCO – LONAP, TOP-IX, MSK-IX
- Extreme – PLIX, MSK-IX, LINX
- DELL (Force10) – DE-CIX, BCIX
- Juniper – LINX, VSIX



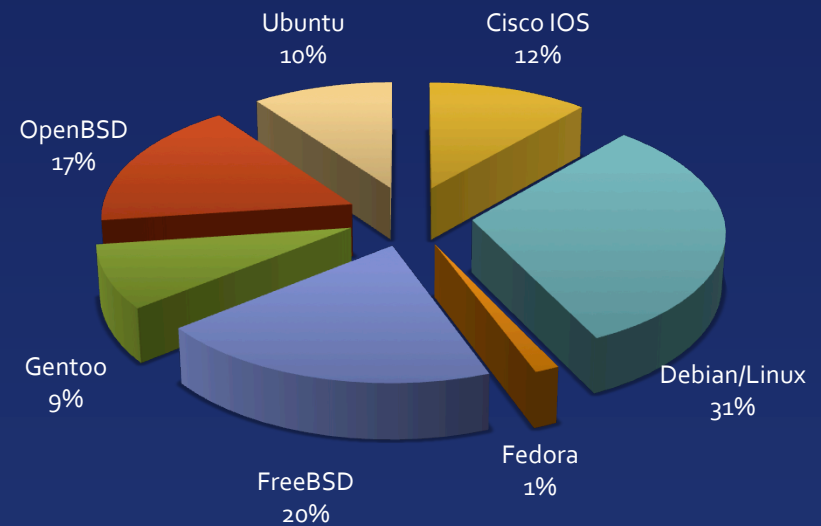
Route server daemons in use within the Euro-IX Membership (%)

- BIRD – LINX, France-IX, CIXP
- CISCO - AMS-IX, MSK-IX, UA-IX
- OpenBGPD - BCIX, SWISS-IX, NL-ix
- Quagga – PTT.br, JPNAP, ECIX



Route server operating systems in use within the Euro-IX Membership (%)

- Debian/LINUX – AMS-IX, TeIX, DE-CIX
- CISCO IOS – BIX, UA-IX
- FreeBSD – NIZ.CZ, PLIX, LyonIX
- Ubuntu – PTT.br, ECIX



Summary

- Euro-IX is an Association for Internet Exchange Point
- Euro-IX and it's Members are here to help, support, share experience and give advice.
- Come and talk to us 😊



Thank You!

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