RIPE 59 - EIX WG LISBON

EURO-IX UPDATE

BY SERGE RADOVCIC EURO-IX

RIPE 59 - LISBON, PORTUGAL - OCTOBER 2009

What is Euro-IX?

• European Internet Exchange Association

• Formed in May 2001

 The association's aim is to further develop, strengthen and improve the Internet
 Exchange Point (IXP) community

 Since January 2005 Euro-IX has invited IXPs outside of Europe to join the association

Euro-IX affiliates (1)

• 48 affiliated IXPs:

Europe: 39 (25 different countries)
Africa: 1 in Egypt
Asia: 5 (India, Japan & Nepal)
United States: 3
8 affiliated patrons:

Brocade Force10 Networks Juniper Networks Cisco Glimmerglass Extreme Networks Interxion TelecityGroup

Euro-IX affiliates (2)

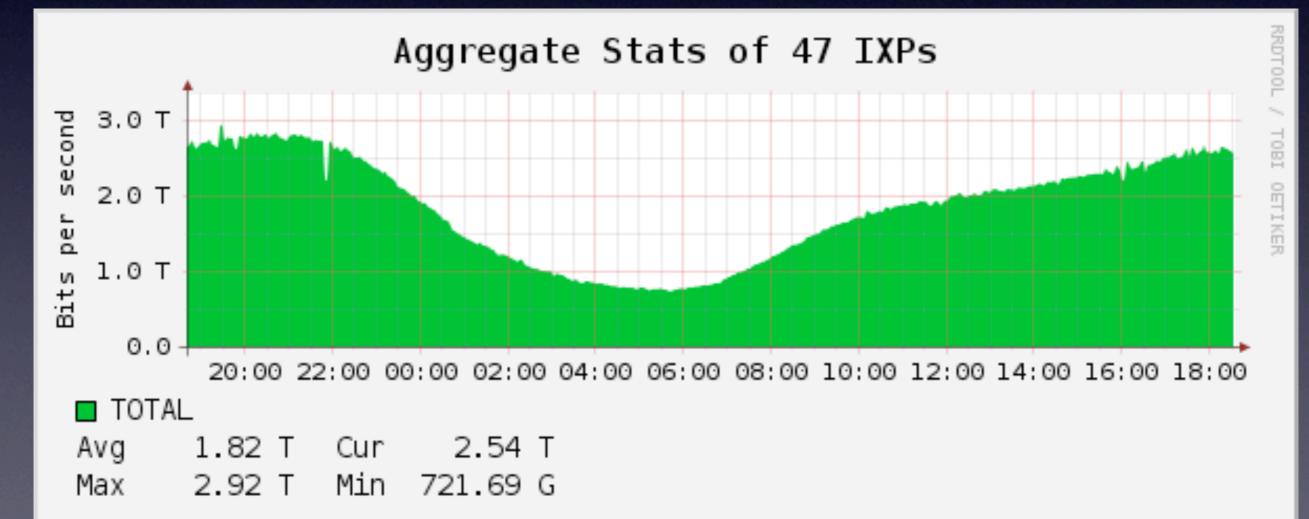
Newest Euro-IX member IXPs

FVG-IX of Udine, Italy
NL-ix of the Netherlands
LU-CIX of Luxembourg
VSIX of Padova, Italy
Euro-IX now has 6 member IXPs in Italy!

Euro-IX IXP traffic

Real time European member statistics

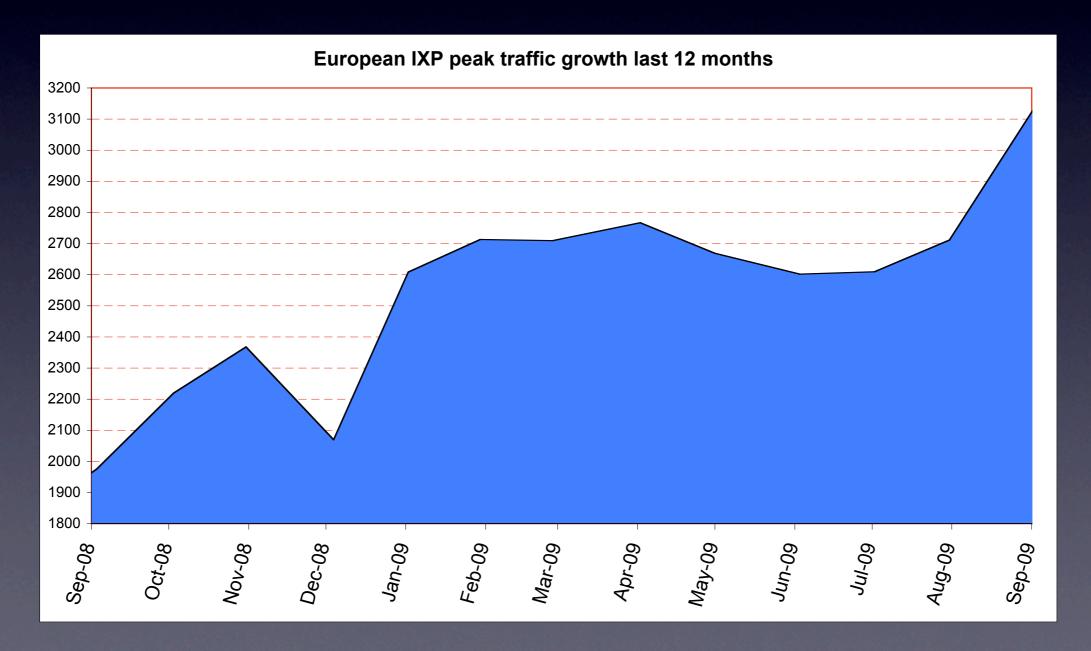
- Makes up over 90% of all European IXP traffic
- Weekday: Peak at 21:00 CEST; low at 05:45 CEST



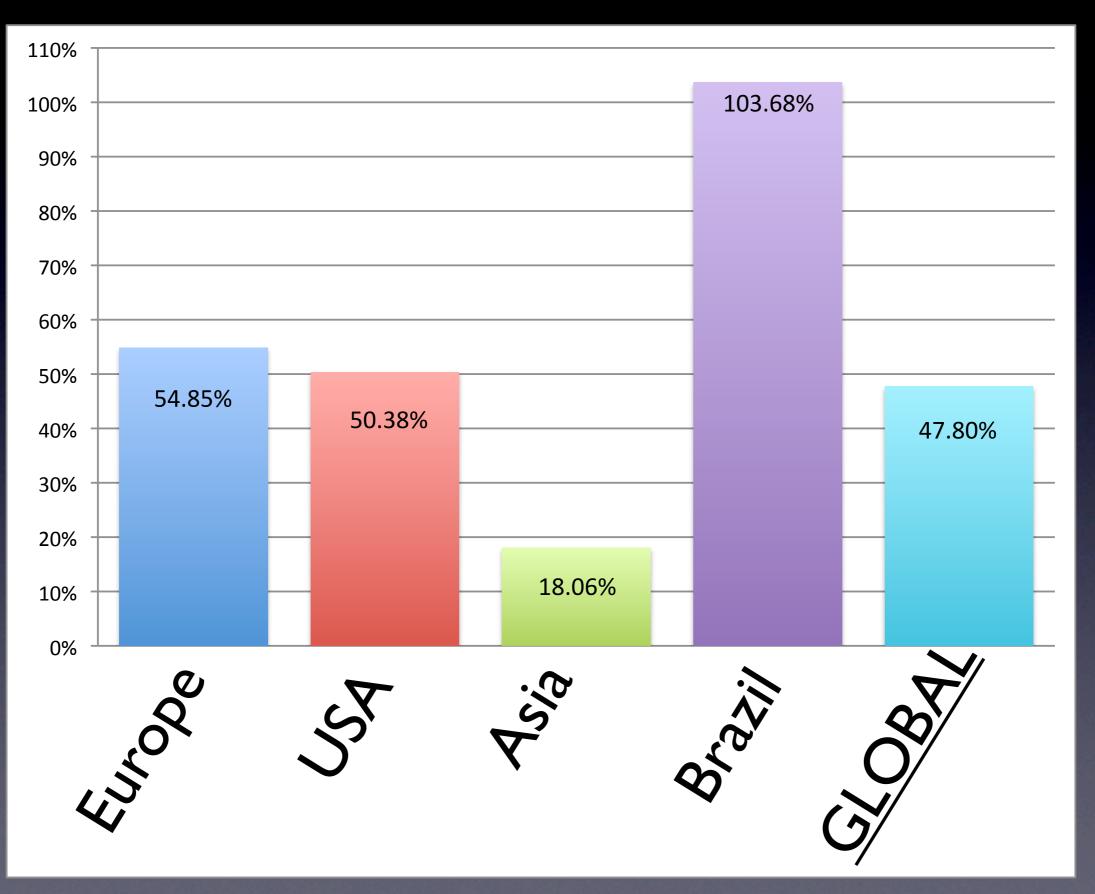
European IXP traffic

• Combined European IXP peak traffic has risen from:

- I.975 Tbps end Sept '08 to <u>3.149 Tbps</u> end Sept '09
- 1.174 Tbps or 60% increase in the past 12 months

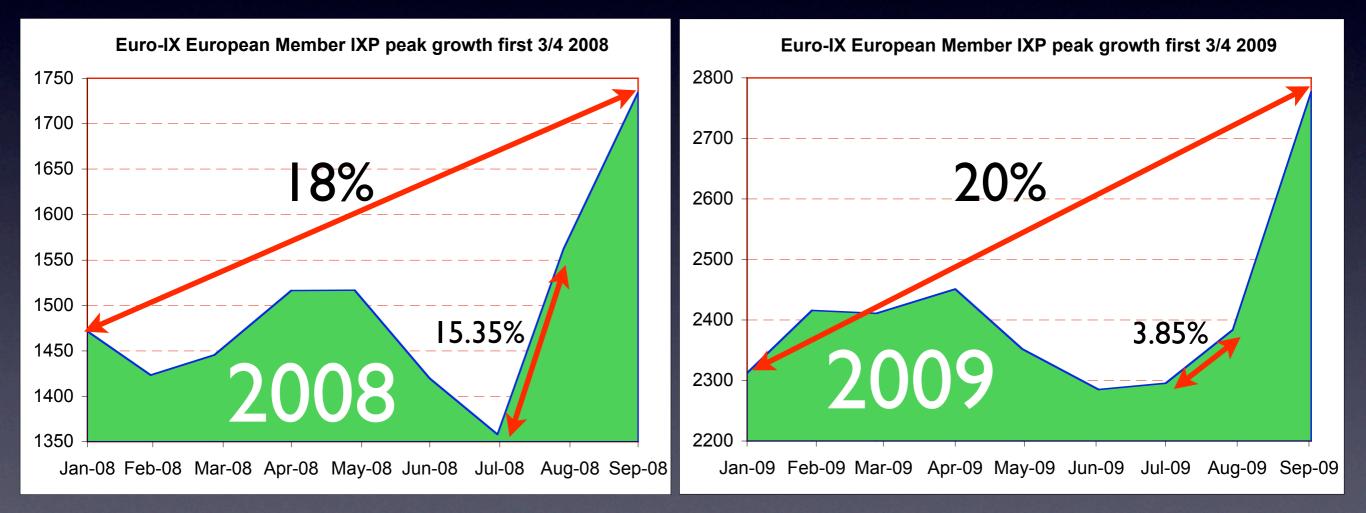


Global IXP growth August 2008 - August 2009



2008 compared to 2009 IXP traffic

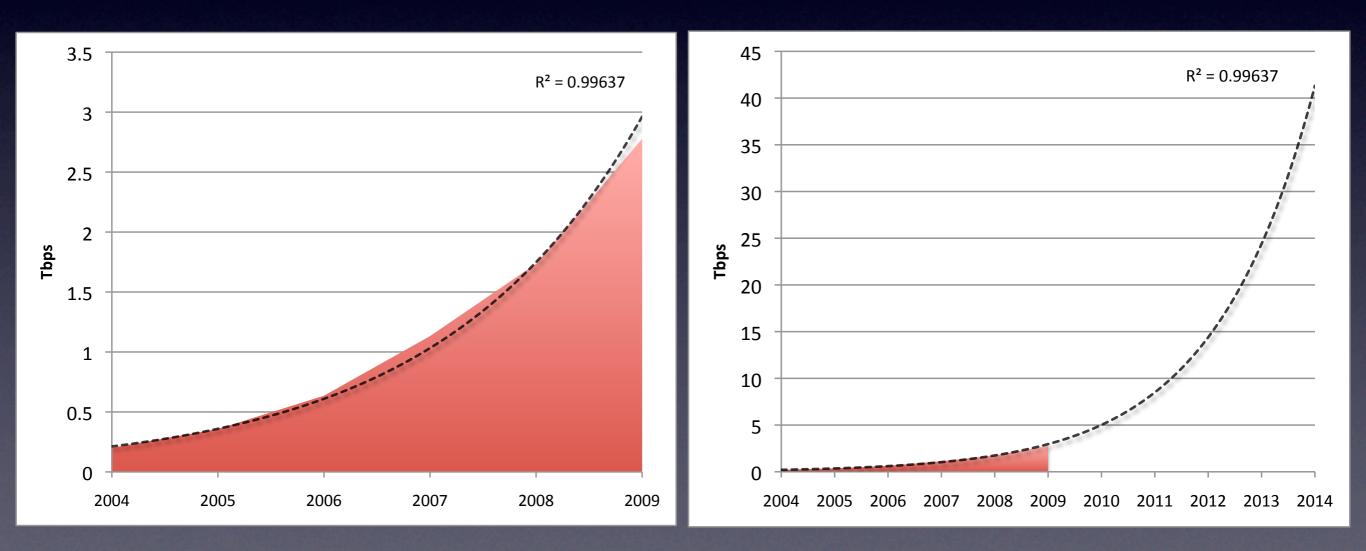
- The increase in peak traffic from the end of January 2008 to the end of September 2008 was **18**%
- In 2009 this increase was <u>20%</u>



End of summer take up was later than in 2008

5 year peak IXP traffic projection

- Increase in member peak traffic from the end of Sept.
 2004 to the end of Sept. 2009 was 14 fold
- Exponential trend line suggests 41 Tbps+ by 2014



IXP participants

• 5.200 participants at 121 IXPs across Europe ► 15% increase over the last 12 months • 3.090 of these have unique ASNs • 780 ASNs present at > 1 IXP in Europe ► 18% increase over the last 12 months • 29 ASNs present at 10+ IXPs in Europe

Euro-IXASN DB

Search the Euro-IX ASN Database

Enter an ASN, IXP or organisation name:

Query

AS2686	

Search

Your search returned 18 results

Organisation	AS number	IXP
AT&T Global Network Services Hellas	2686	AIX
AT&T Global Network Services	2686	AMS-IX
AT&T Global Network &	2686	BIX
<u>AT&T</u> &	2686	<u>BNIX</u>
AT&T EMEA &	2686	CIXP
AT&T GNS Deutschland	2686	DE-CIX
AT&T	2686	<u>Equinix</u>
AT&T GNS &	2686	ESPANIX
AT&T Global Network Services Oy	2686	FICIX
AT&T GNS	2686	LINX
AT&T Global Network Services	2686	MIX
<u>AT&T</u> &	2686	Netnod
AT&T Global Network Services	2686	NIX
AT&T CR &	<u>2686</u>	NIX.CZ
AT&T GNS - EMEA	2686	PARIX
AT&T GLOBAL NETWORK SERVICES	2686	<u>SFINX</u>
<u>AT&T</u> &	2686	TOP-IX
<u>AT&T</u> &	2686	<u>VIX</u>

Search the Euro-IX ASN Database

Enter an ASN, IXP or organisation name:



Search

Your search returned 21 results

Organisation	AS number	IXP
KPN EuroRings B.V.	<u>286</u>	DE-CIX
KPN Eurorings &	<u>286</u>	VIX
KPN Global Carrier Services	N/A	AMS-IX
KPN International @	<u>286</u>	LONAP
KPN Mobile The Netherlands B.V.	<u>64595</u>	AMS-IX
KPN Telecom &	<u>286</u>	LINX
KPN Telecom B.V. (ISP Infrastructuur) &	<u>8737</u>	AMS-IX
KPN Wholesale Service & Op. &	<u>286</u>	AMS-IX
KPN Nederland	<u>1136</u>	BNIX
KPNQwest Italia &	<u>5602</u>	MIX
KPN	<u>1136</u>	PARIX
KPN Eurorings	<u>286</u>	FreeIX
KPN Eurorings	<u>286</u>	INXS
KPN Eurorings	<u>286</u>	INXS
KPN Eurorings	<u>286</u>	<u>N-IX</u>
KPN Eurorings	<u>286</u>	NL-IX
KPN TELECOM BV	<u>286</u>	SFINX
KPN Telecom &	<u>286</u>	<u>NDIX</u>

Euro-IX News (I)

- I5th Euro-IX Forum Rome 2 & 3 November
 - Hosted by NaMeX of Rome
 - Expecting around 40 IXPs to attend
- Resources [www.euro-ix.net/resources/]
 - 2009 Report on European IXPs (end Oct.)
 - Euro-IX IXP BCP Now public
 - Asia-Pacific IXP list: currently 69 IXPs
 - Open to additions if you have them!

Euro-IX News (2)

- "Plans" to make Euro-IX even more global this is to be further discussed by our membership, so stay tuned for developments!
- Euro-IX Route Server initiative making progress
- Euro-IX Film competition: The Internet Revealed [www.euro-ix.net/film/]

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