

# Euro-IX Update

UKNOF 22 - York

Bijal Sanghani

# What is Euro-IX

- Euro-IX is an Association for IXPs
- Formed in 2001
- Idea is to help further develop, strengthen and improve the Internet Exchange Point (IXP) Community

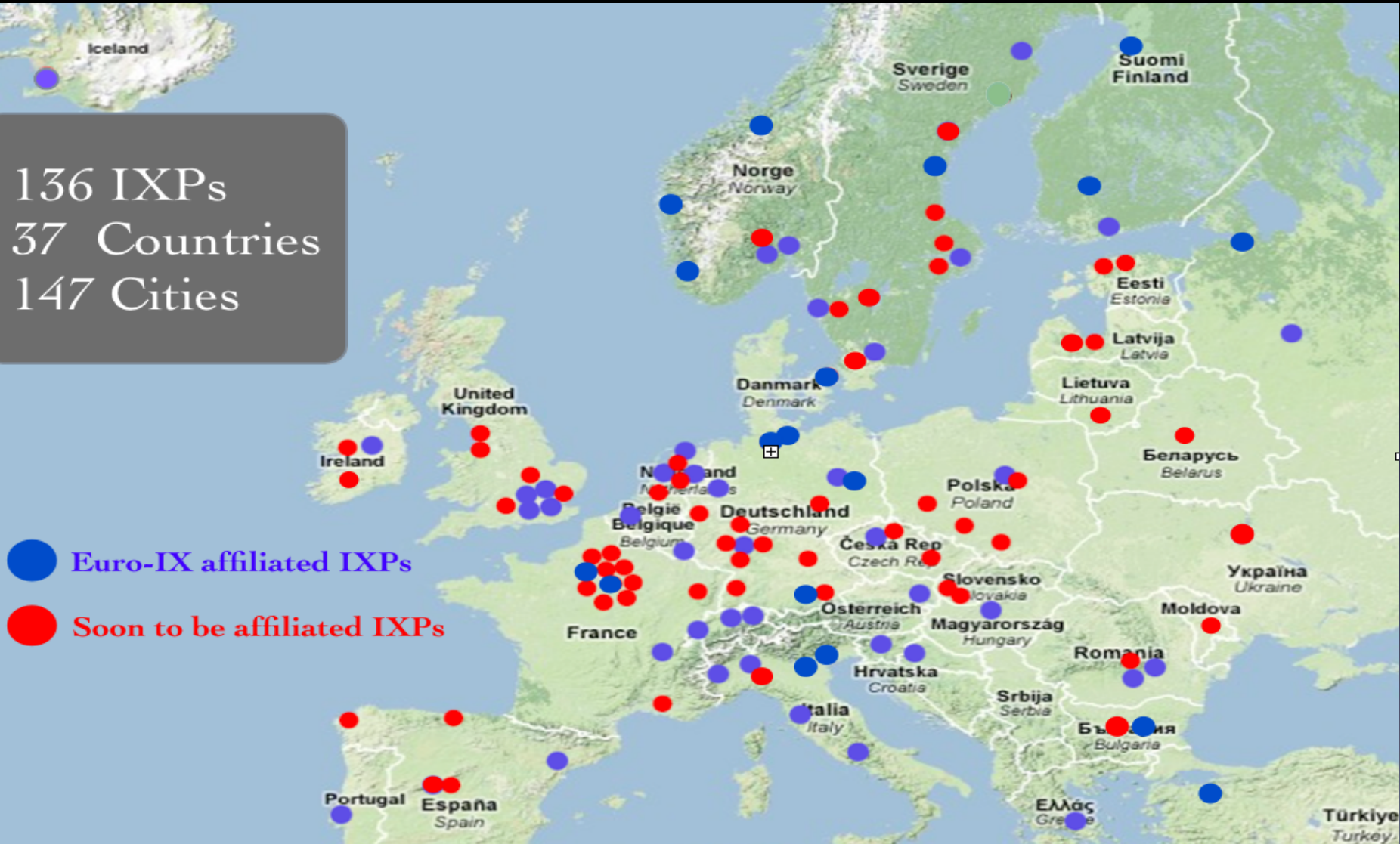
# Euro-IX Affiliates

- 63 affiliated IXPs :
  - 51 IXPs in Europe (30 Countries)
    - Operating 70 Internet exchanges
  - 12 IXPs from the rest of the world
- 11 affiliated patrons:
  - ADVA Optical Networking
  - Brocade
  - Extreme Networks
  - Interxion
  - MRV
  - Telehouse
  - Cisco
  - Force10 Networks
  - Juniper Networks
  - Telecity
  - Transmode

# IXPs in Europe

136 IXPs  
37 Countries  
147 Cities

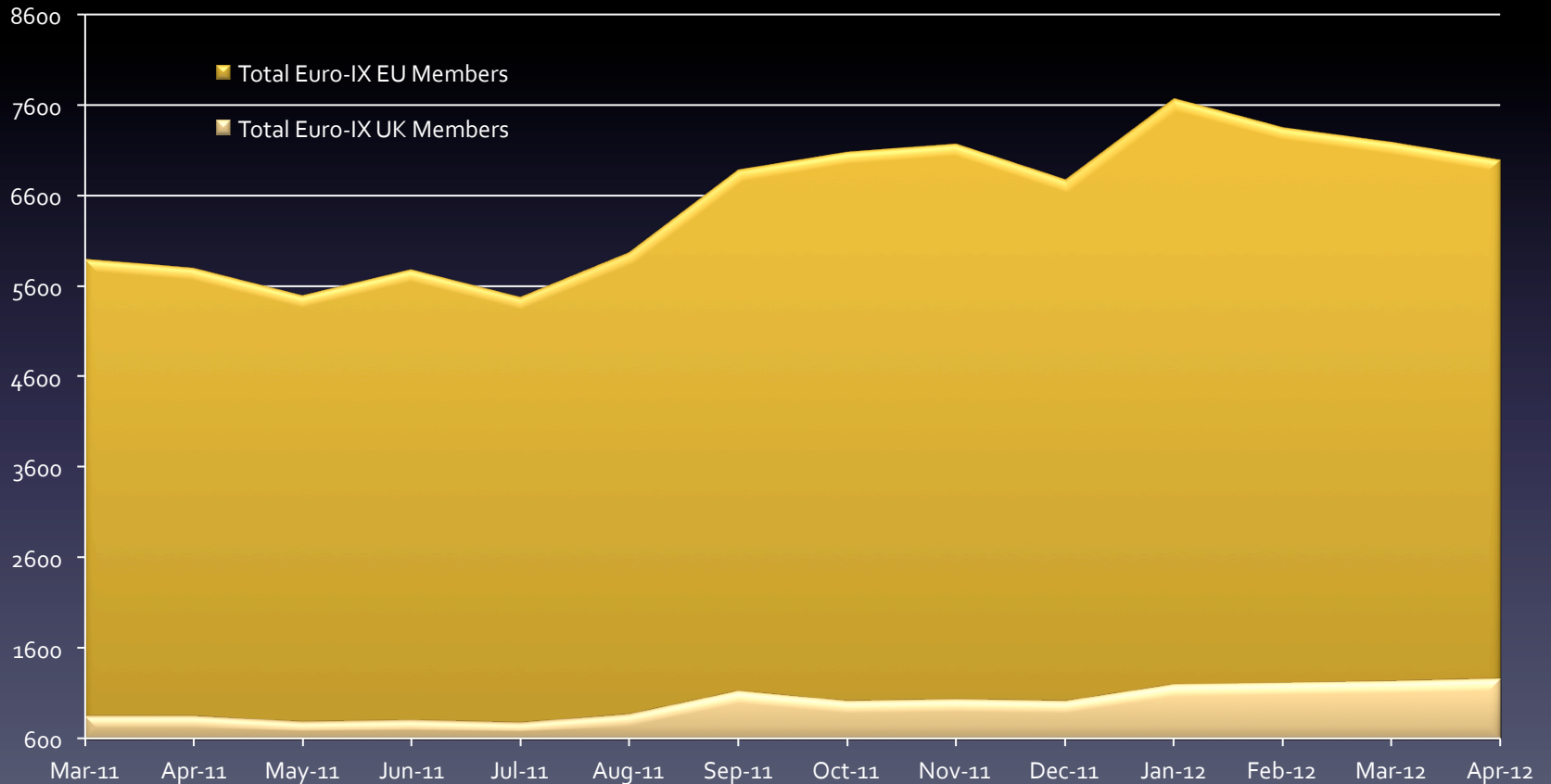
-  Euro-IX affiliated IXPs
-  Soon to be affiliated IXPs



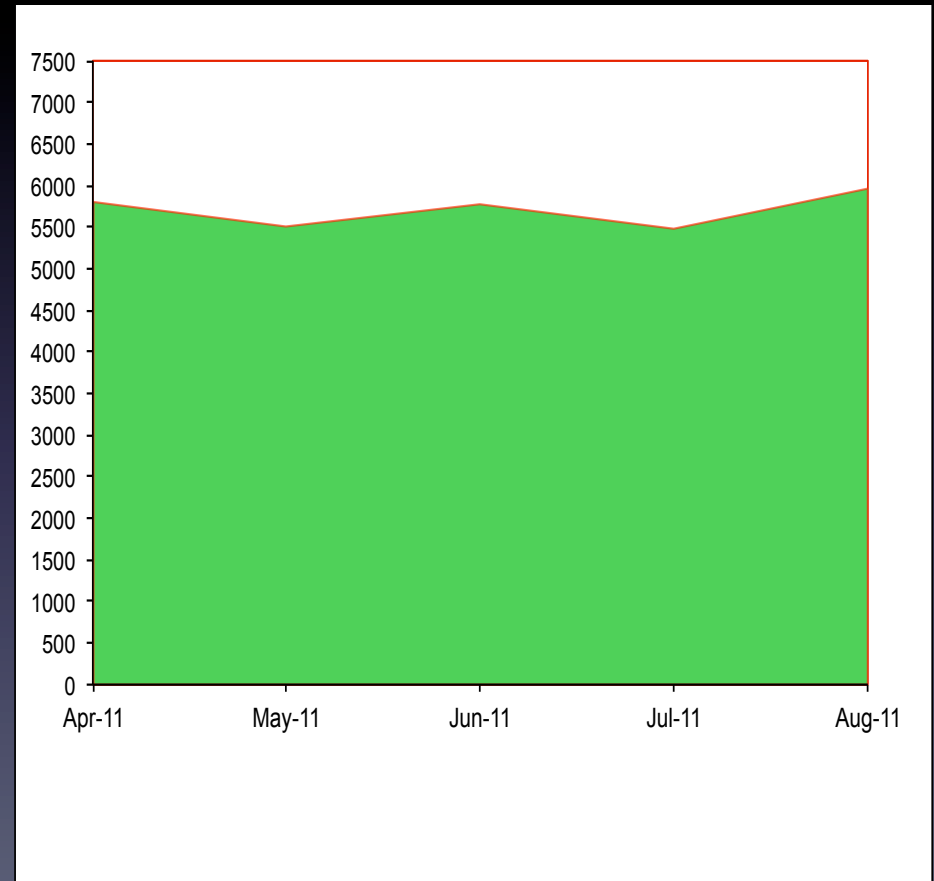
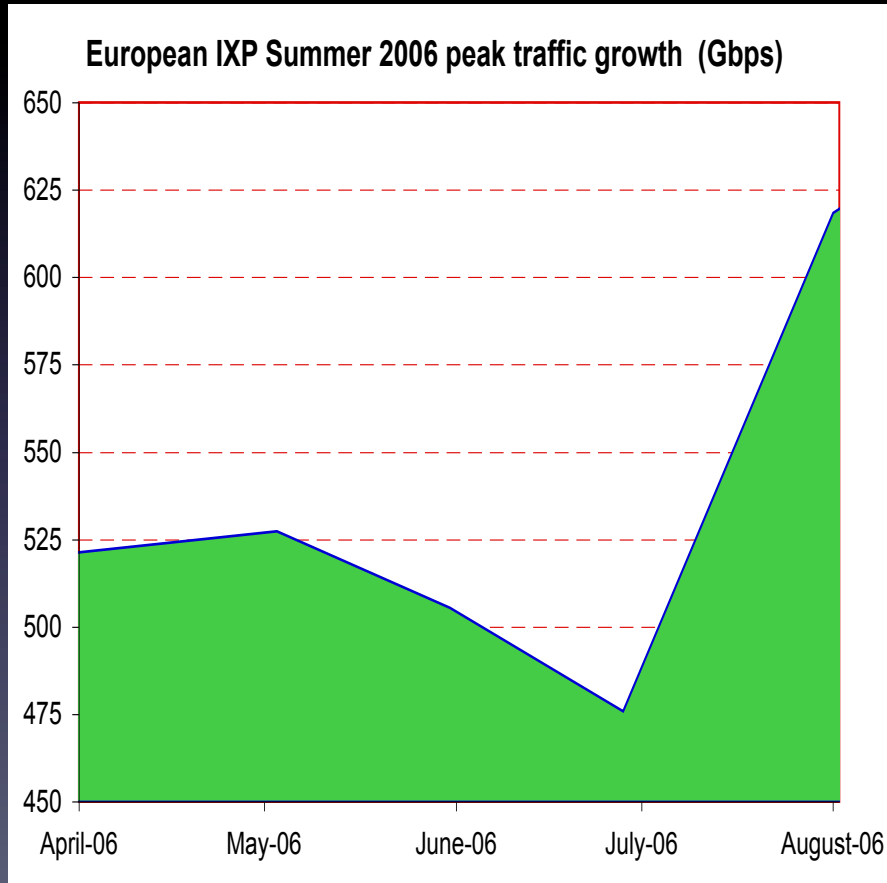
# UK IXP Community

- Currently 4 Operational IXPs
  - LINX
  - LONAP
  - NWIX (EdgeUK)
  - IXLeeds
- According to peeringdb there have been 13

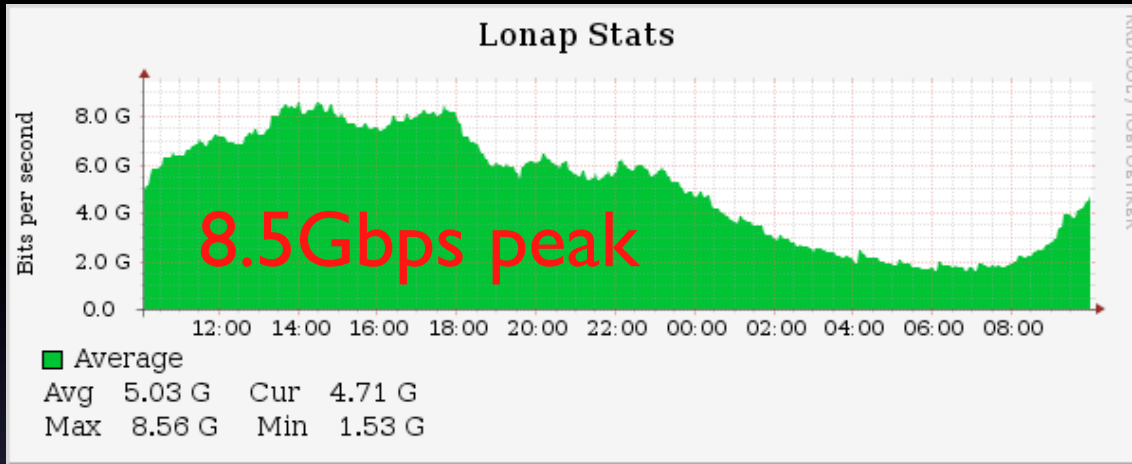
# Euro-IX UK Membership Traffic Compared with EU Membership ~18%



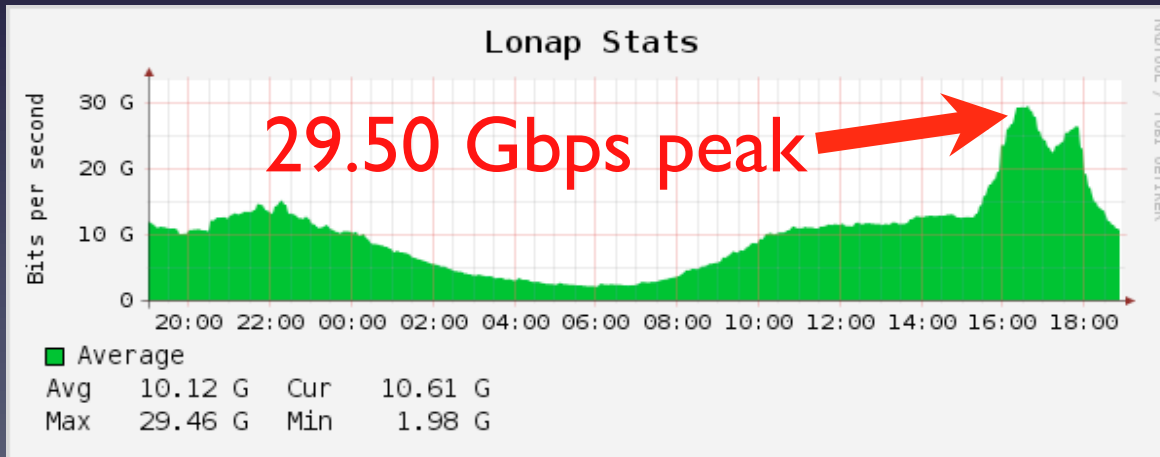
# Summer Traffic Comparison 2006 and 2011



# IXP traffic and sport



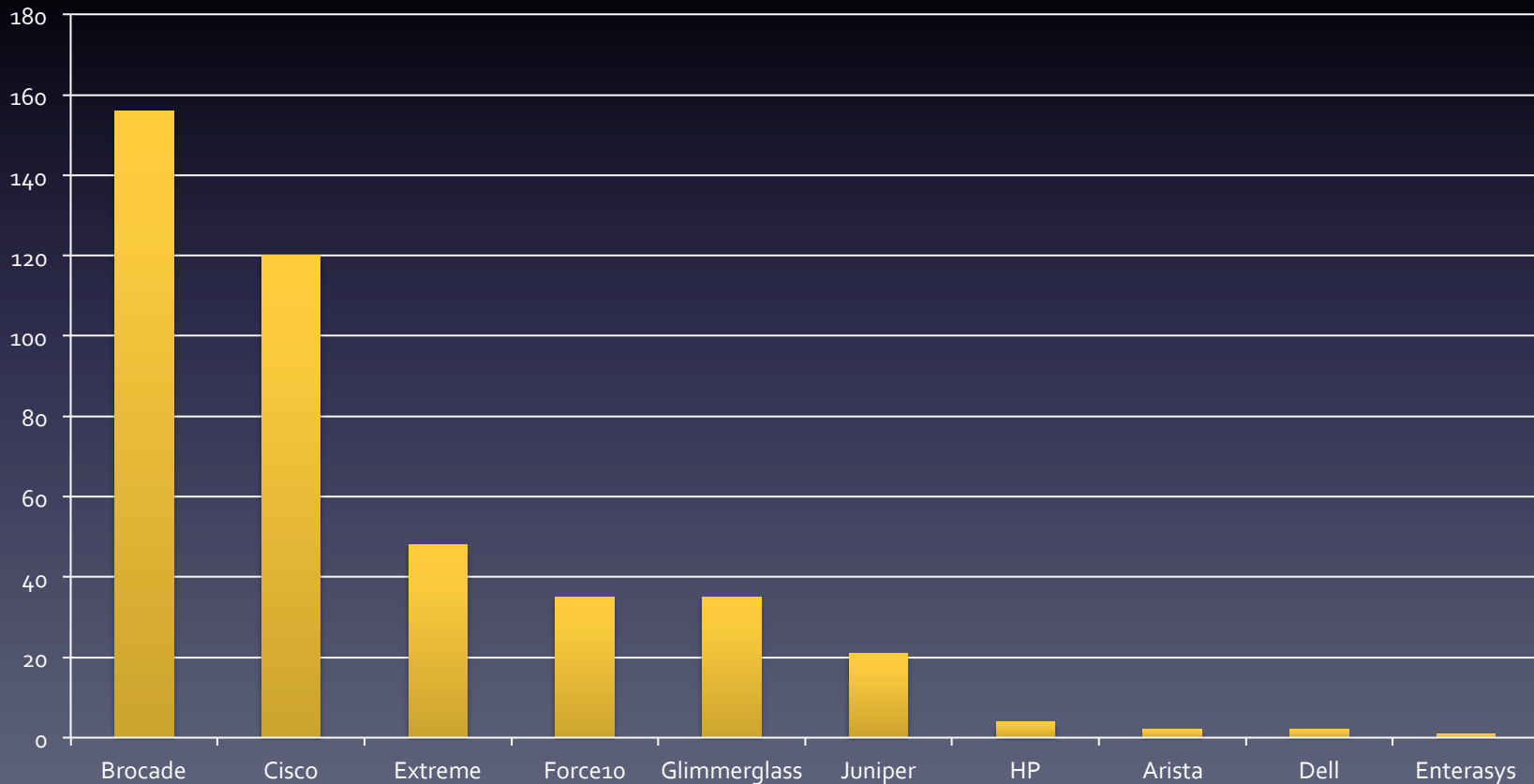
LONAP (London) traffic on a 'normal' weekday



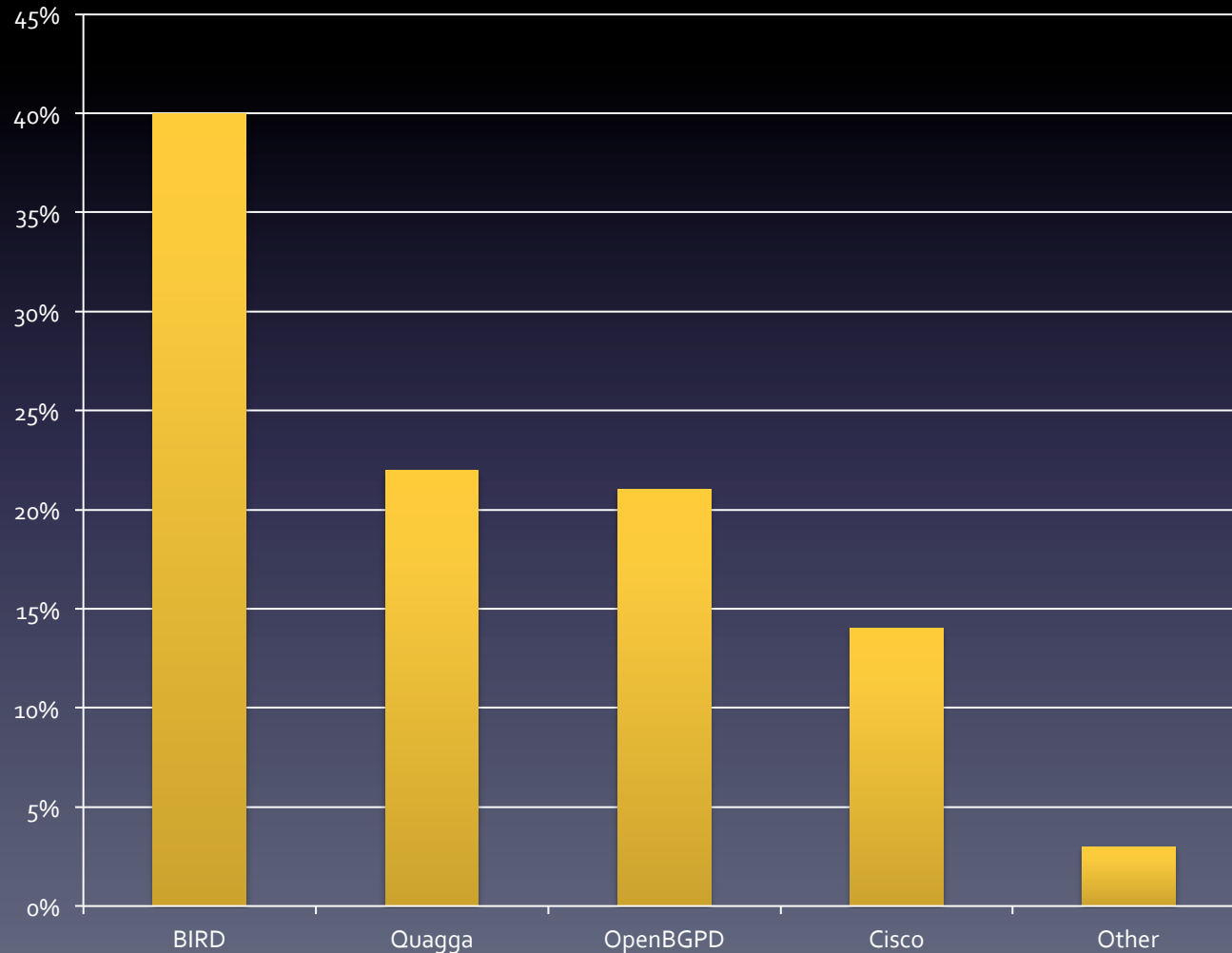
Wed. afternoon World Cup 2010 England vs Slovenia



# Switches/Routers used at Euro-IX IXPs



# Route Server Daemons at Euro-IX



# Euro-IX Tools

- ASN Filter
- ASN Peering Matrix
  - Total listed ASNs at IXPs
  - Unique ASNs
  - Newest ASN entries in Euro-IX DB
  - Most common ASNs
- IXPs Specific Peering LANs
- IXP Chat
- Calendar



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## Welcome to Euro-IX!

Europe's leading Internet exchange points, which connect the networks of Internet service providers (ISPs) to permit the exchange of Internet traffic, have set up the European Internet Exchange (Euro-IX).

### Latest news

Since the 1st of July 2006 Euro-IX has invited IXP industry related parties to become affiliated with the association as Patrons. Currently Brocade, Cisco Systems, Extreme Networks, Force10 Networks, Interxion, Juniper, MRV, TelecitGroup, Telehouse and Transmode have all affiliated themselves with Euro-IX joining our membership of 60 IXPs from 27 European countries, Brazil, Curacao, Egypt, India, Japan, Kenya, Nepal, Nigeria, Tanzania and the United States.

[More news](#)

### For IXPs

If you are looking to start an IXP or your IXP needs a helping hand then go through to the [IXP section](#)

### For ISPs

If you are an ISP looking to peer at an European IXP then we are here to help guide you. Take a look at the [ISP section](#)

### The Internet Revealed: A film about IXPs



### Members login

- [Euro-IX Members sign in](#)
- [Forgot password?](#)
- [Create account](#)

### News & Events

[20th Euro-IX Forum](#)

### Tools

- [ASN Filter \*\*\(New\)\*\*](#)
- [Peering Matrix](#)
- [Service Comparison Matrix](#)
- [List of European IXPs](#)
- [Euro-IX ASN database](#)
- [Newest ASN DB entries \*\*\(New\)\*\*](#)
- [Most common ASNs \*\*\(New\)\*\*](#)



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## IXP Service Matrix

IXP	Location	ASN	RS ASN	# of customers	# IPv6 ready	% IPv6 ready	# of sites	Public stats	Non profit	Priv. peering	IPv6 LAN type	IPv6 registry	Multicast	VLAN services	Out of band access	24x7 service	24x7 access	10M	100M	1G	10G	100G	MPLS	Support Jumbo Frames	Jumbo Frame MTU value	
<a href="#">AMS-IX Traffic</a>	Amsterdam	1200	6777	480	341	71.0	8	Y	Y	Y	ISP Peering LAN	RIPE	MC VLAN	Y	-	Y	Y	-	-	Y	Y	Y	Y	-	-	0
<a href="#">Anv2 (ConsSite) Traffic</a>	11 locations in t...	0	N/A	147	8	5.4	10	Y	-	Y				Y	-	Y	Y	-	Y	Y	Y	-	-	-	-	0
<a href="#">BBIX</a>	Tokyo,Osaka,Nagoy...	23640	N/A	7	0	0.0	7	-	Y	-				-	-	-	-	-	Y	Y	Y	-	-	-	-	0
<a href="#">BCIX Traffic</a>	Berlin	16374	N/A	50	32	64.0	5	Y	Y	Y	On main LAN	RIPE	MC VLAN	Y	-	Y	-	-	Y	Y	Y	-	-	-	-	0
<a href="#">BIX Traffic</a>	Budapest	5507	N/A	49	15	30.6	3	Y	Y	-	IPv6 VLAN	Sub-delegated from an LIR	No	-	-	Y	Y	-	-	Y	Y	-	-	-	-	0
<a href="#">BIX-BG Traffic</a>	Sofia	15669	N/A	47	0	0.0	8	Y	-	Y	N/A	N/A	MC VLAN	Y	-	Y	Y	-	-	Y	Y	-	-	-	-	0
<a href="#">BNIX Traffic</a>	Brussels	5406	N/A	45	14	31.1	3	Y	Y	Y	On main LAN	RIPE	MC VLAN	-	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	0
<a href="#">CAR-IX Traffic</a>	Curacao	28017	N/A	7	0	0.0	1	Y	Y	-				-	-	-	-	-	Y	Y	-	-	-	-	-	0
<a href="#">CATNIX Traffic</a>	Barcelona	49638	N/A	24	10	41.7	2	Y	Y	Y	On main LAN	RIPE	MC VLAN	Y	Y	Y	Y	-	Y	Y	-	-	-	Y	-	9198
<a href="#">CIX Traffic</a>	Zagreb	51702	N/A	21	10	47.6	1	Y	Y	Y	On main LAN	N/A		-	Y	Y	Y	Y	Y	Y	Y	-	-	Y	-	9000
<a href="#">CIXP Traffic</a>	Geneva	513	N/A	37	7	18.9	3	Y	Y	Y	IPv6 VLAN	RIPE	MC VLAN	Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	0
<a href="#">DE-CIX Düsseldorf</a>	Düsseldorf		N/A	0	0	0	1	-	-	Y				Y	-	Y	Y	-	-	Y	Y	-	-	Y	-	9000
<a href="#">DE-CIX Frankfurt Traffic</a>	Frankfurt am Main	6095	6095	430	284	66.0	13	Y	-	Y	On main LAN	RIPE	MC VLAN	Y	Y	Y	Y	-	-	Y	Y	Y	Y	Y	Y	9000
<a href="#">DE-CIX Hamburg Traffic</a>	Hamburg	43252	43252	33	12	36.4	1	Y	-	Y	On main LAN	RIPE		-	Y	-	-	-	Y	Y	Y	-	-	-	-	0
<a href="#">DE-CIX Munich Traffic</a>	Munich	47228	47228	21	15	71.4	2	Y	-	Y	On main LAN	RIPE		-	Y	-	-	-	Y	Y	Y	-	-	-	-	0
<a href="#">DIX Traffic</a>	Lyngby	198391	N/A	49	2	4.1	1	Y	Y	-	On main LAN	RIPE		-	Y	-	Y	Y	Y	Y	Y	-	-	-	-	0
<a href="#">ECIX Traffic</a>	Duesseldorf, Ber...	9093		95	70	73.7	12	Y	-	Y	On main LAN	RIPE		Y	Y	Y	Y	Y	Y	Y	Y	-	-	-	-	0
<a href="#">Equinix Paris Traffic</a>	Paris	44729	N/A	158	156	98.7	2	Y	-	Y	On main LAN	N/A	Main LA	Y	-	Y	Y	-	Y	Y	Y	-	-	-	-	0
<a href="#">Equinix Zurich</a>	Zurich	8235	N/A	52	1	1.9	2	-	-	-	N/A	N/A	No	-	-	-	-	-	-	-	-	-	-	-	-	0
<a href="#">FICIX Traffic</a>	Helsinki	0		28	5	17.9	3	Y	Y	-	IPv6 VLAN	N/A	Yes	-	-	Y	Y	-	-	Y	Y	-	-	Y	-	9000



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search

**More ASN tools:**[Peering Matrix](#)[ASN Filter](#)[Euro-IX ASN database](#)[Newest ASN DB entries](#)[Most common ASNs](#)

## Euro-IX ASN Filter

Further explanation of the ASN Filter options can be found [here](#).**ASNs that peer at:**

3CIX - NZ (New Zealand)  
 6KANET (Korea, Republic of)  
 6NGIX (Korea, Republic of)  
 AAIX (Austria)  
 ACT-IX - Canberra (Australia)  
 AIXP (Tanzania, United Republic of)  
 AMS-IX (Netherlands)  
 ANG-IX (Angola)  
 Any2 (CoreSite) (United States of America )  
 Any2 (CoreSite) Boston (United States of America )  
 Any2 (CoreSite) Chicago (United States of America )  
 Any2 (CoreSite) Miami (United States of America )  
 Any2 (CoreSite) Milpitas (United States of America )  
 Any2 (CoreSite) New York (United States of America )  
 Any2 (CoreSite) Reston (United States of America )

- List all
- Only
- And other IXPs
- And at ⇒
- But not at ⇒
- And other IXPs, but not at ⇒

3CIX - NZ (New Zealand)  
 6KANET (Korea, Republic of)  
 6NGIX (Korea, Republic of)  
 AAIX (Austria)  
 ACT-IX - Canberra (Australia)  
 AIXP (Tanzania, United Republic of)  
 AMS-IX (Netherlands)  
 ANG-IX (Angola)  
 Any2 (CoreSite) (United States of America )  
 Any2 (CoreSite) Boston (United States of America )  
 Any2 (CoreSite) Chicago (United States of America )  
 Any2 (CoreSite) Miami (United States of America )  
 Any2 (CoreSite) Milpitas (United States of America )  
 Any2 (CoreSite) New York (United States of America )  
 Any2 (CoreSite) Reston (United States of America )



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## Search the Euro-IX ASN Database

Enter an ASN, IXP or organisation name:

Query

Note: The ASN information contained within this database is a combination of both affiliated and non-affiliated IXP content. While the affiliated IXP content is highly accurate, the non-affiliated IXP content is updated on a best effort basis and is nonetheless considered to be quite accurate.

## ASN database statistics

Africa				
IXP Participants	IPv6 active	Unique ASNs	Advertised ASNs	% of Adv. ASNs
162	8	128	441	29.02
North America				
IXP Participants	IPv6 active	Unique ASNs	Advertised ASNs	% of Adv. ASNs
2134	298	935	14098	6.63
Latin America				
IXP Participants	IPv6 active	Unique ASNs	Advertised ASNs	% of Adv. ASNs
560	169	388	1582	24.53
Asia / Pasific				
IXP Participants	IPv6 active	Unique ASNs	Advertised ASNs	% of Adv. ASNs
1455	208	820	4405	18.62
Europe				
IXP Participants	IPv6 active	Unique ASNs	Advertised ASNs	% of Adv. ASNs
6294	2458	3472	15953	21.76
Global				
IXP Participants	IPv6 active	Unique ASNs	Advertised ASNs	% of Adv. ASNs
10605	3141	5743	36479	15.74

Note: The number of IPv6 active participants are only as accurate as the information provided to us on the IXP's websites. Not all IXPs currently publish this data.





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Your search returned 14 results

Company	AS number	IXP	IPv6	Last updated
I-root	<a href="#">8674</a>	<a href="#">DE-CIX Frankfurt</a>	✓	Feb 27, 2012
I-root	<a href="#">8674</a>	<a href="#">LINX</a>	✓	Feb 27, 2012
I-root	<a href="#">8674</a>	<a href="#">VIX</a>	✓	Aug 16, 2011
I-root	<a href="#">8674</a>	PHOpenIX	✗	Aug 16, 2011
I-root	<a href="#">8674</a>	DIX-IE	✗	Aug 16, 2011
I-root	<a href="#">8674</a>	<a href="#">SFINX</a>	✓	Aug 16, 2011
I-root	<a href="#">8674</a>	<a href="#">RoNIX</a>	✗	Aug 16, 2011
I-root	<a href="#">8674</a>	<a href="#">AMS-IX</a>	✓	Feb 27, 2012
I-root	<a href="#">8674</a>	PTT Porto Alegre (RS)	✗	Feb 10, 2012
I-root	<a href="#">8674</a>	<a href="#">NIX</a>	✓	Aug 16, 2011
I-root	<a href="#">8674</a>	<a href="#">NPIX - Kathmandu</a>	✗	Aug 16, 2011
I-root	<a href="#">8674</a>	IIX - Jakarta	✗	Aug 16, 2011
I-root	<a href="#">8674</a>	<a href="#">JPIX</a>	✓	Aug 16, 2011
I-root	<a href="#">8674</a>	<a href="#">CIXP</a>	✗	Aug 16, 2011

# Useful URLs

- <https://www.euro-ix.net/>
- [https://www.euro-ix.net/tools/asn\\_search](https://www.euro-ix.net/tools/asn_search)
- [https://www.euro-ix.net/tools/peering\\_matrix](https://www.euro-ix.net/tools/peering_matrix)
- <https://www.euro-ix.net/ixp-matrix>

Thank You!