



Euro-IX update

EIX WG

RIPE 55

Amsterdam

The Netherlands

October 2007



RIPE 55 - EIX WG Amsterdam NL

Euro-IX update

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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 is **NOT** an Internet Exchange Point



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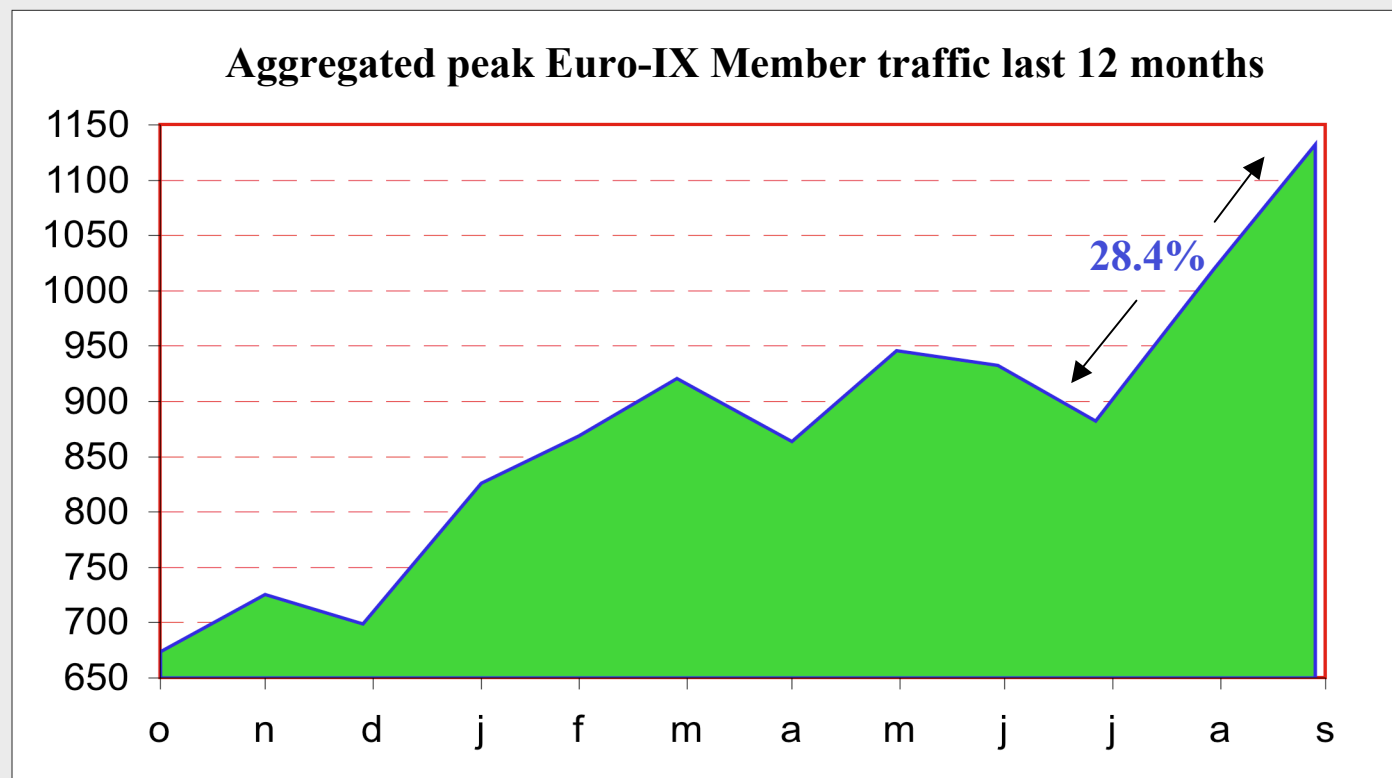


Current Euro-IX affiliates

- 43 affiliated IXPs:
 - Europe: 36
 - From 25 different countries
 - Asia (Japan): 3
 - BBIX, JPNAP and JPIX
 - U.S.A: 4
 - **Any2 Exchange**, Equinix, Switch and Data & Terremark
- 4 affiliated patrons:
 - Cisco Systems
 - Foundry Networks
 - Force10 Networks
 - Glimmerglass

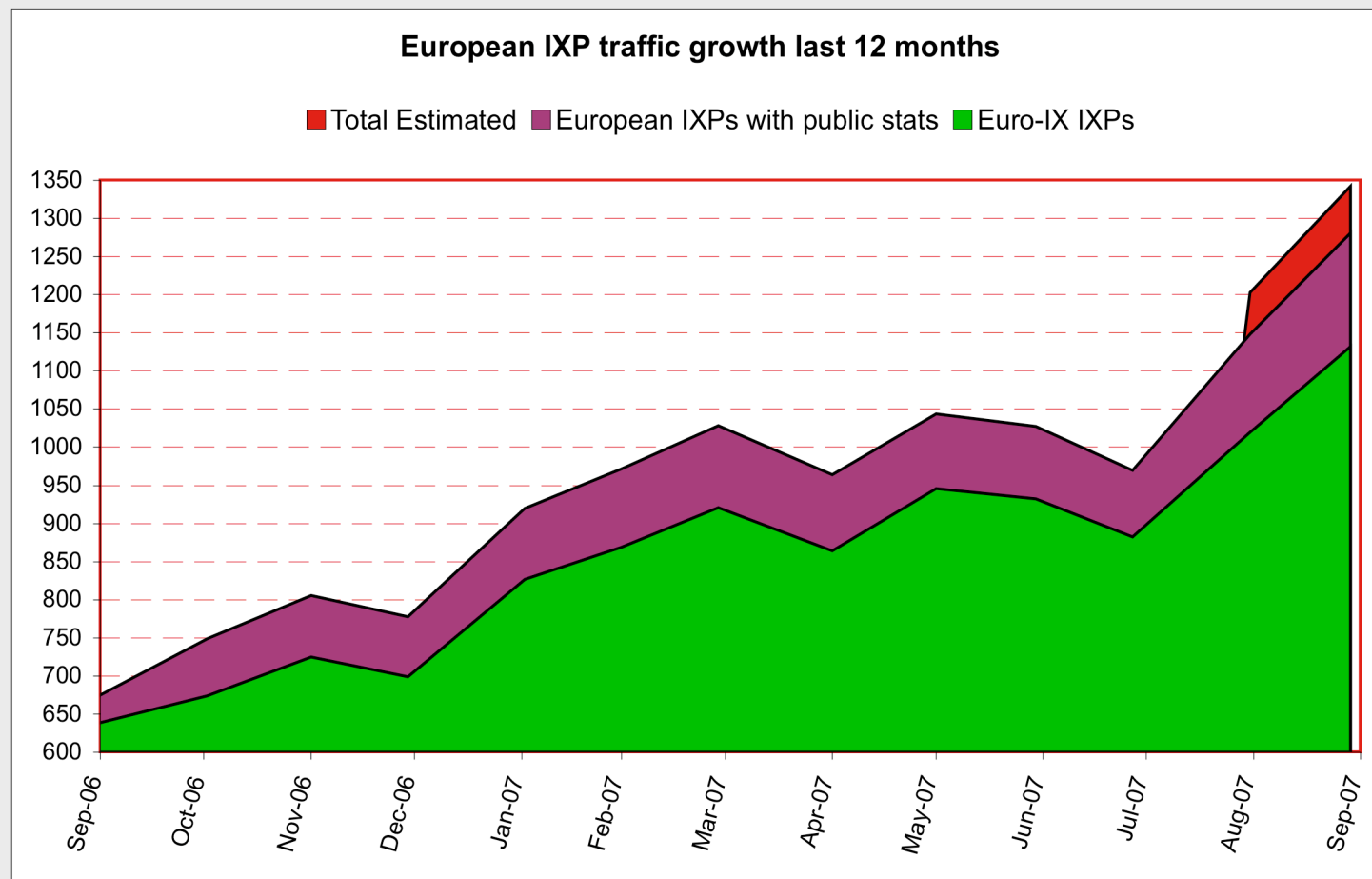
Euro-IX Member IXP traffic

- Combined European **Euro-IX member** IXP peak traffic has risen from:
 - **864 Gbps** end Apr '07 to **1132 Gbps** at the end of Sept '07.
(268 Gbps or 31% increase since RIPE 54)



All European IXP traffic

- Total estimated peak IXP traffic as of end Sept 2007 is **1.342 Tbps**





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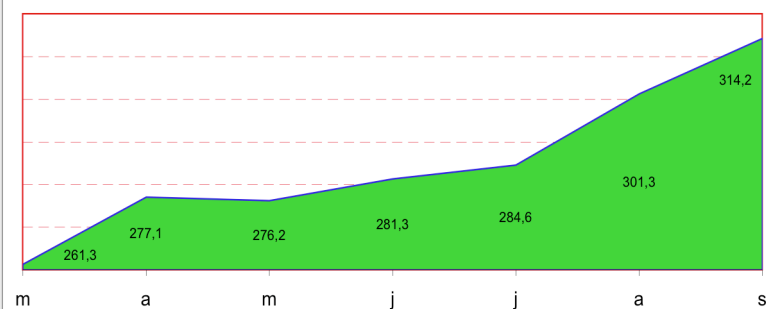
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2007 regional IXP traffic trends

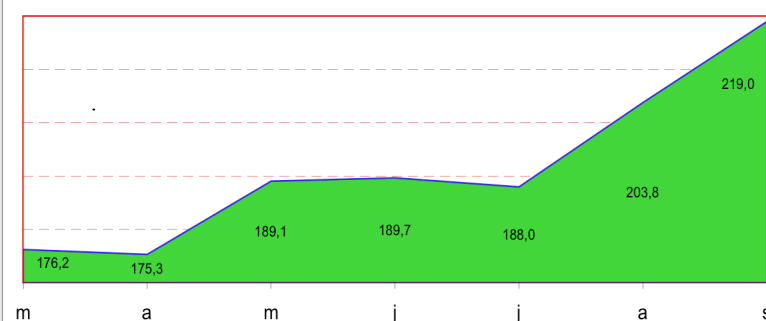
Asian IXP traffic



ASIA

- Last 6 months = **↑ 20.3%**
- August to September = **↑ 4.3%**

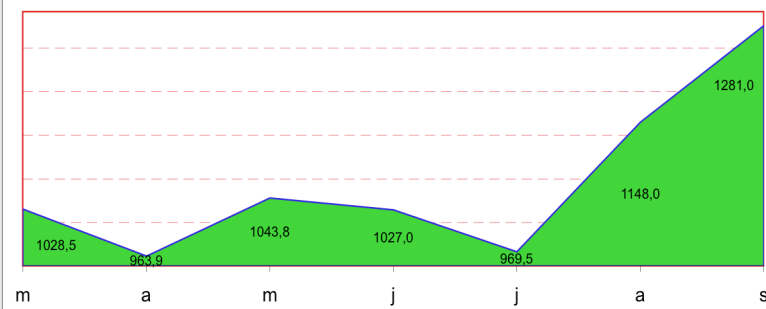
U.S.A IXP traffic



U.S.A.

- Last 6 months = **↑ 24.3%**
- August to September = **↑ 7.5%**

European IXP traffic



Europe

- Last 6 months = **↑ 24.6%**
- August to September = **↑ 11.6%**



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European IXP participants

- **3986 IXP participants** in Europe
 - **3496 with publicly disclosed ASNs**
(some IXPs and/or their participants do not wish to publicly advertise their ASN on the IXP website)
- **2116 unique ASNs** peering in Europe
- **11 ASNs** peer at **12 or more** different European IXPs,
one ASN peers at **19 IXPs!**
- **Average of about 39 participants per IXP**
- **4 European IXPs** have **more than 200** active participants

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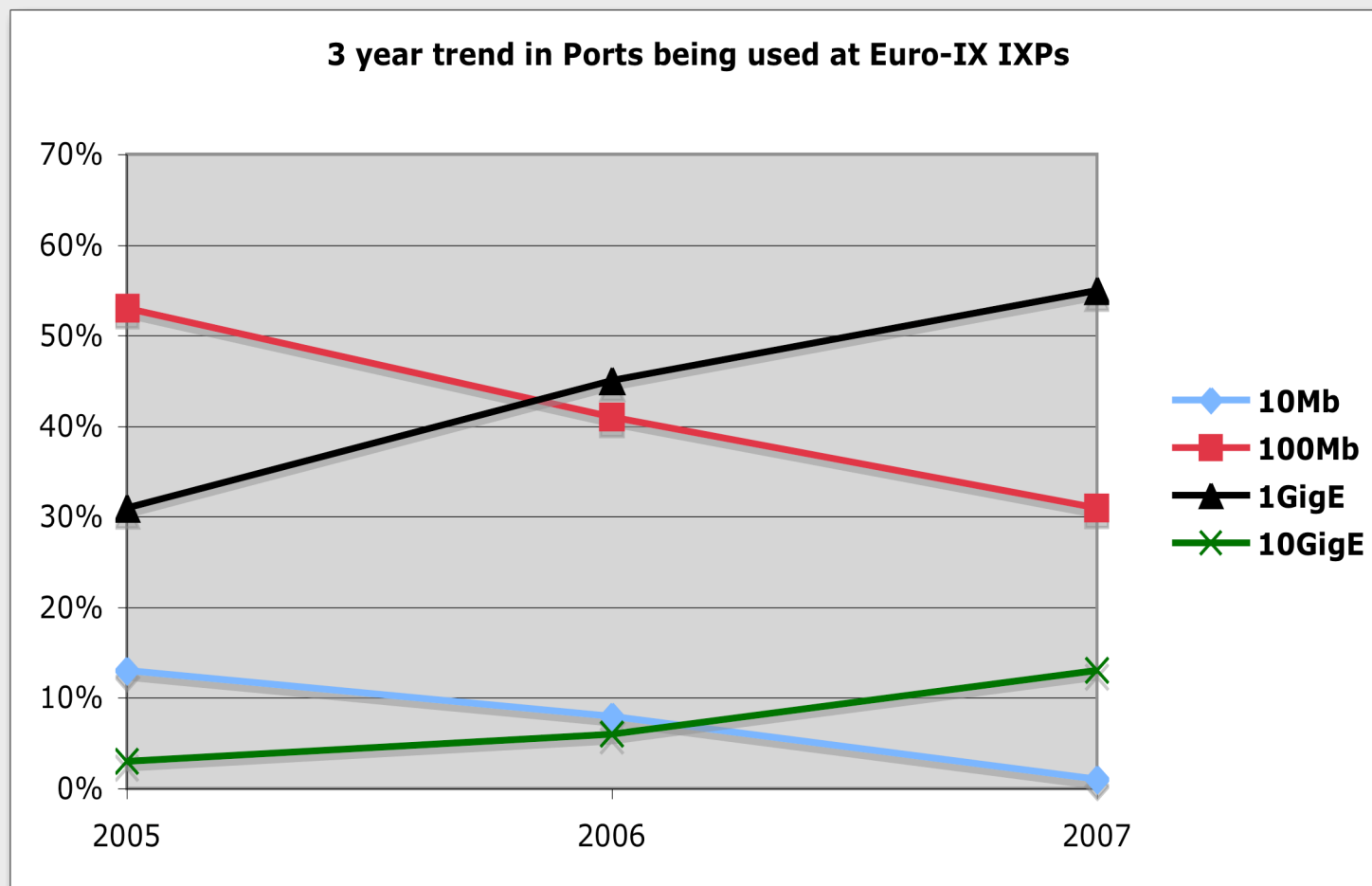
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Ports in use at Euro-IX IXPs



Note: These figures have been extracted from the *Euro-IX BMC 1, 2 & 3*

Average European IXP connection fees

		IXPs that offer or charge	Euro-IX average	
			EUR	US\$
Set-up fee	One time	65%	€ 2.155	\$2.915
Switch port	10Mbps	72%	€ 177	\$240
	100Mbps	90%	€ 412	\$560
	1Gbps	100%	€ 826	\$1.120
	10Gbps	62%	€ 2.370	\$3.200
Annual fee	Reoccurring	45%	€ 3.462	\$4.680

Note 1: The above stated port prices are on a monthly basis

Note 2: These prices were gathered from the 3rd round of the Euro-IX Benchmarking Club which closed in April 2007

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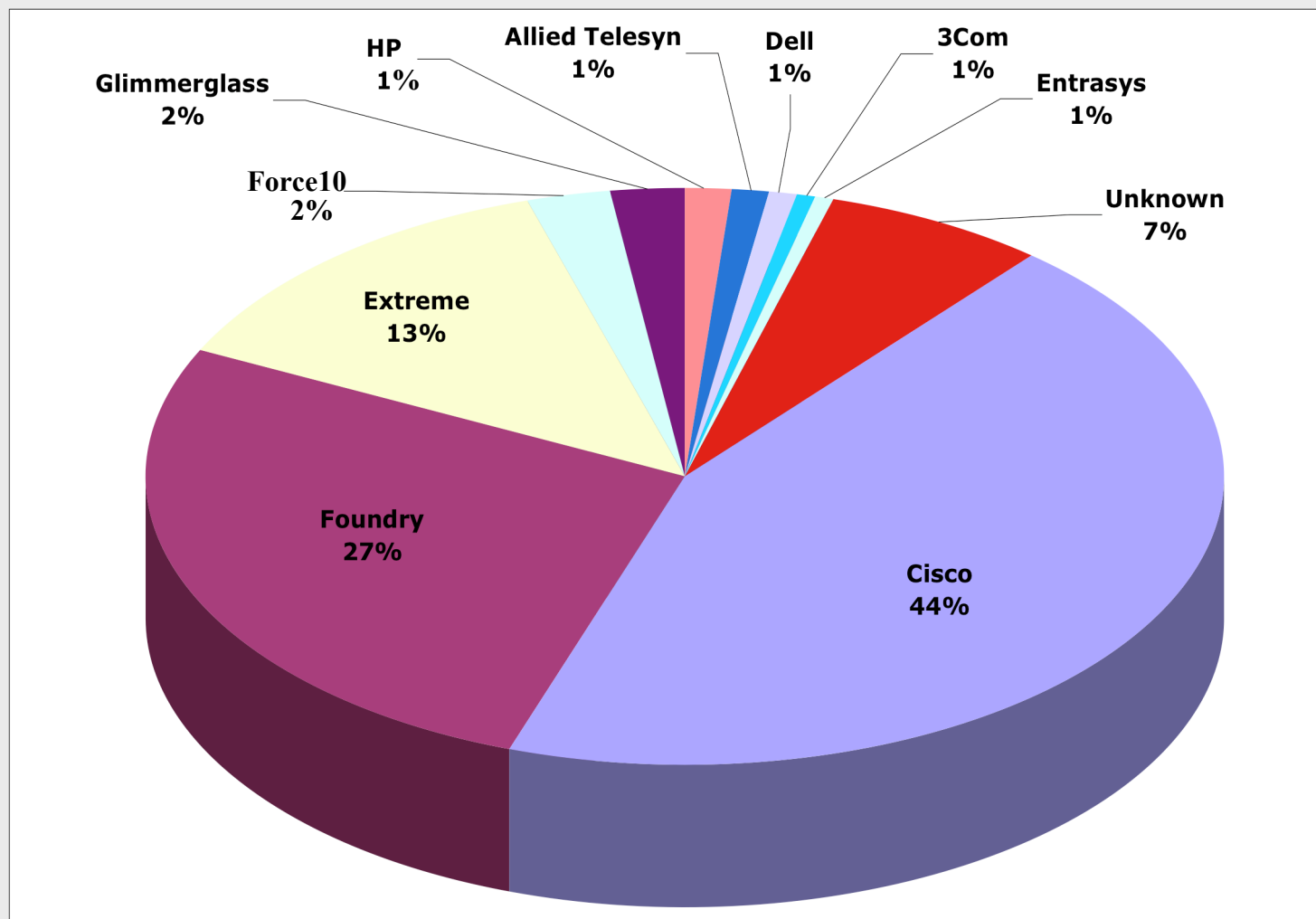
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Switches in use at European IXPs



Note: I estimate there to be a little over **390 Switches** in use at IXPs in Europe



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Euro-IX Forums

These are our biannual two day meetings.

- The *10th Euro-IX Forum* was held last April in Amsterdam and some **33 IXPs** attended the meeting!
- The *11th Euro-IX Forum* is to be held in **Vienna Austria on the 12th & 13th of November 2007**. To be hosted by the University of Vienna operated **VIX**.



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Joining Euro-IX

If you are a representative of an IXP or if you are a customer of an IXP who believes that your IXP should join Euro-IX.

Please contact me, Serge Radovcic
`serge@euro-ix.net`

Or take a look at our website:

<http://www.euro-ix.net/ixp/joining/>



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Any Questions?

<http://www.euro-ix.net/>
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