



Euro-IX update

**IX SIG
APNIC17
Kuala Lumpur**

Feb 25th 2004



APNIC 17 - IX SIG

25th February 2004 - Kuala Lumpur

Euro-IX update

Serge Radovcic

Euro-IX Secretariat



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What is Euro-IX?

- European Internet Exchange Association
- In May 2001, 14 European IX's decided to bring together their knowledge and experience to form the association.
- Initial aims:
 - To act as a portal for ISPs looking to peer in Europe
 - Share information and statistics
 - Discuss common technical issues and problems
 - Help younger/smaller IX's to become established
- Euro-IX is NOT a physical infrastructure connecting IX's and has NO plans to do so!



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Update since APNIC 15

- Johan Iren gave an Euro-IX update at the APNIC 15
- Euro-IX then had:
 - 24 member IX's
 - 1100 listed connected customers at these IX's
 - Total member traffic of 50Gbps (Max. 5 minute avg.)
- Euro-IX now has:
 - 29 member IX's (2 or 3 more looking to join this year)
 - 1450 listed connected customers at these IX's
 - One member IX has as little as 5 customers while AMS-IX has the largest customer base with 180.
 - Total member traffic around 155Gbps
 - One member has as little as 13Mbps while LINX now has over 35Gbps



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Who benefits from Euro-IX?

- Main beneficiaries are:
 - Start-up IX's and the general public
 - ISPs
 - Euro-IX member IX's



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Start-up IX's /general public

- Website
 - ‘What is an IXP?’ section attempts to outline what an IX is.
 - ‘Starting an IXP’ section. Giving those thinking of starting an IX some ‘food for thought’. This is quite European specific! Certain social, political and financial issues that are faced in other regions are not fully covered by this section of the website.
- E-mail
 - Secretariat and members are willing to do there best to answer any IX related questions from both start-up IX's and the general public.



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ISPs

Assistance in finding an European IX via the website

- Listing prospective peering partners
 - Euro-IX connected ASN database
 - Updated by Euro-IX members (now listing over 1450 ASNs)
 - IX peering matrix
 - Cross references the of unique/non-unique ASNs connected to each member IX. Data is taken from Euro-IX ASN database.



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ISPs

Assistance in finding an European IX via the website

- [IX matrix](#)
 - Shows characteristics and services offered by member IX's
- [IX contact form](#)
 - Enabling ISPs to make contact with multiple IX's
- [Map of Europe](#)
 - Geographical display of locations of member IX's in Europe

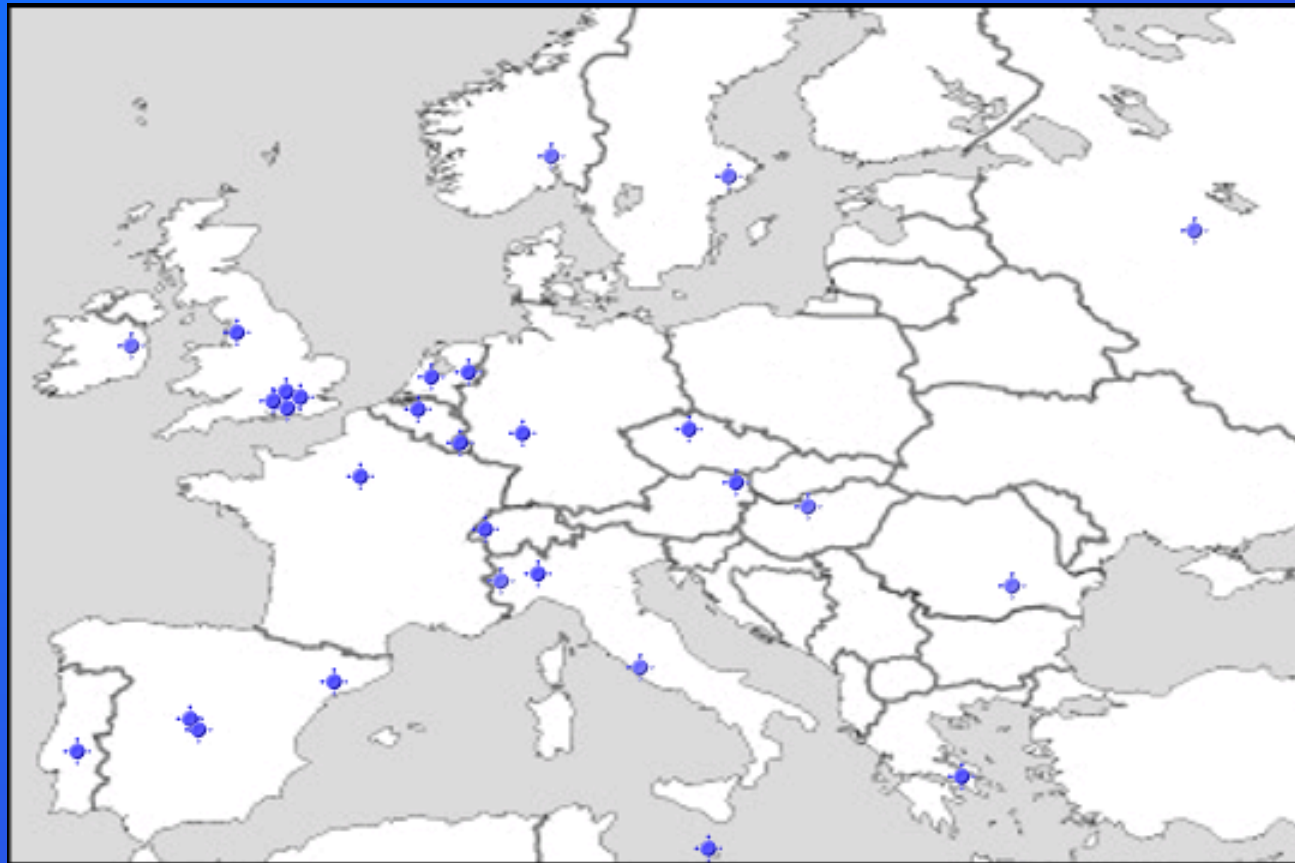


Geographical display of locations of member IX's in Europe

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Who benefits from Euro-IX?



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Euro-IX member IX's

Personnel

- Secretariat - to take care of the day to day running of Euro-IX, setting up of meetings and general representation.
- Regulatory officer - to translate and point out laws which do or may affect European IX's. **No** planned lobbying.
(This service is yet to be implemented- probably May 2004)
- Euro-IX Executive Board - consisting mainly of member IX's



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Euro-IX member IX's

Website

- IX Switch database - listing switches and software currently be used by members and any issues associated with them.
- 'Staff eXchange' - listing a member IX's willingness to help other member IX's, from e-mails to loaning staff.
- Tools repository - both 3rd party and member created tools.
- Regulatory issues DB - postings from member IX's
- Document archive - general documents of interest to IX's
- Maintenance diary - lists member IX's maintenance windows



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Euro-IX member IX's

Forums

- Euro-IX recognised a need to devote a two day meeting solely for Euro-IX member IX's and their current issues.
- Held twice a year in different European locations.
- Hosted by a member IX and partially sponsored by a switch vendor.
- Only 2 attendees per member IX is invited to attend:
 - To allow all attendees a better chance for interaction
 - Keeps the bigger IX's from dominating the forums



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Euro-IX member IX's

Forums

- Discussions:
 - Latest technical issues
 - Business development
 - Customer services offered
 - Customer feedback
 - Regulatory issues
 - Keynote speakers
 - Euro-IX GM
- 4th Euro-IX Forum to be held in Berlin in mid April 2004

Mailing lists

- general, technical, maintenance, security & vendors



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Membership at Euro-IX

Applying IX's must:

- Meet a minimum criteria of:
 - Being 'up and running' (legally set-up and exchanging traffic)
 - Have at least 3 peering customers
 - Have a published customers list
 - Have clear and open policy for others to join
- Sign a basic membership agreement with Euro-IX



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Membership at Euro-IX

Applying IX's must:

- Pay membership fees of 4.000 EUR (5.000 USD) per annum
 - Euro-IX can subsidise IX's for these fees in certain circumstances on Executive Board approval.
 - Fees are mainly used to pay for the secretariat, regulatory services and the forums that are held twice a year.
- All membership applications must be approved by the Executive Board.
- **NB:** All Euro-IX member IX's receive one equal vote at GMs no matter what fees they pay or how small or large they are!



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Where to from here?

- The association is now well and truly established
- European IX community is now in better contact with each other
- Still looking to include every European country in the association
- Regulatory officer coming soon!
- Beyond Europe?
- Whatever the members want?



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Questions?

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