Association of IXPs

78 affiliated members

- 54 IXPs in the Euro-IX region, 49 countries, operating over 100 peering LANs
- 24 IXPs from the rest of the world

Newest members:
- Digital Realty (USA, EU)
- SAIX (Saudi Arabia)
- CRIX (Cost Rica)
Euro-IX Patrons

ECI
THE ELASTIC NETWORK

Ciena

Nokia

Juniper Networks

Arista

Interxion™

Extreme
Connect Beyond the Network

Equinix

Smartoptics

euro-IX
Euro-IX Activities

- 2 Fora a year
  - 32nd in Galway hosted by INEX
  - 33rd in Venice hosted by NAMEX, TOP-IX and VSIX (November 2018)
- Website and Database
- Fellowship and Mentor-IX Program
- Mailing lists – for members and non-members
- Reports – Benchmarking, traffic, hardware, Route Servers
- Newsletters - [https://www.euro-ix.net/en/communications/newsletters/](https://www.euro-ix.net/en/communications/newsletters/)
- Route Server large BGP communities list: [https://www.euro-ix.net/en/forixps/large-bgp-communities/](https://www.euro-ix.net/en/forixps/large-bgp-communities/)
- Social media
  - Twitter @euroix
  - Facebook fb.me/maineuroix
  - Youtube youtube.com/channel/UCFyucVRAAMzxyJIsxnGwsjw
Introduction to the Internet eXchange Federation

IX-F is an organisation for coordinating the efforts of Internet eXchange Points Associations (IXPAs).

Membership includes:

• AFIIX – African Internet eXchange Point Association
• APIIX – Asia Internet eXchange Point Association
• Euro-IX – European Internet eXchange Point Association
• LAC-IX – Latin America & Caribbean Internet eXchange Point Association

Collectively these IXPAs represent over 145 IXPs across 6 continents
IX-F History and Objectives

History
- MoU signed between APIX, Euro-IX and LAC-IX in 2012
- AFIIX joined in 2014

Objectives
- Address increasing policy and regulatory issues around the world
- Facilitate interaction between IXPs to address shared challenges and goals
- Provide a central resource for IXP related data, research and BCPs
IXPDB – History

• IXPDB is new only by name, the “Euro-IX database” existed since 2001 when Euro-IX started
• With the formation of the IX-F it didn’t make sense for each IXPA to have it’s own database
• IXPs had no control over their data in PeeringDB 😞
• IX-F committed to build the IXPDB
  • 2014 Hackathon in Sheffield together with PeeringDB
  • Initial development contracted to 20c - PeeringDB developers
  • Now contracted to NIX.CZ
IXPDB - Background

- A single repository for IXP data
  - Data on members (ASN, IPs, etc.)
  - IXP related data such as switch information
- IXPDB provides authoritative data
  - Published from the IXPs own databases such as IXP Manager
- Various databases could be used to verify and validate data against IXPDB
  - Send notification where discrepancies were seen
- Other databases could use the IXPDB as a sub-set
  - Initial agreement with PeeringDB that they could use the data as well
- The IXPDB is complimentary to other databases and has scope to further improve data quality to benefit the community.
The IX-F JSON Schema export is an agreed and standardized JSON schema which allows IXPs to make their member lists and other data available:

https://github.com/euro-ix/json-schemas

The IX-F export allows the individual IXP to be the source of data about their own IXP and it’s exposure

IXPs publish this data publicly, privately and via other systems like IXP Manager ❤

The IXPDB will publish a single API

IXPAs holding workshops to support IXPs.

By the end of June we’ll have 110 IXP exports working!
IXPDB – Where are we?

• Database is live
• Ready to do integration with other databases
• IXPs can pick what level of exposure they want
• IXPAs can approve and create new IXPs
  • So can other admins
• Last updated field allows users to see when data was last updated
• Aggregated vendor data at IXPs available now
• Aggregated data on vendors connected to IXP – coming soon!
• Aggregated traffic data – coming soon!
• Geo-location and maps - coming soon!
IX-F - IXPDB

• Website: http://ixpdb.net (work in progress)

• Mailing list for users: https://lists.euro-ix.net/mailman/listinfo/ixpdb

• API is available - https://api.ixpdb.net

• If you think this is good work, like we do, fund us 😊

secretariat@ix-f.net
Short video about IXPs, available now in English, Italian, German, French, Spanish, Portuguese, Arabic, Mandarin, Russian, Romanian and Greek subtitles.
Thank You!