IXPDB
LINX 101 – 21st May 2018
Bijal Sanghani
Association of IXPs

81 affiliated members

- 57 IXPs in the Euro-IX region, 49 countries, operating over 100 peering LANs

- 24 IXPs from the rest of the world

- Newest members:
  - SAIX (Saudi Arabia)
  - CRIX (Cost Rica)
Euro-IX Patrons
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/UCFyucVRAAMzxyJlsxnGwsjw
IXPDB an IX-F Project
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 Board

The IX-F Board consists of two representatives from each IXPA:

AFIX – Nishal Goburdhan, JINX and Kyle Spencer, UIXP
APIX – Katsuyasu Toyama, JPNAP and Gavin Tweedie, Megaport
Euro-IX – Andy Davidson, Asteroid and Ondrej Filip, NIX.CZ
LAC-IX – Gabriel Adonaylo CABASE and Nico Scheper, AMS-IX
Caribbean
IX-F History and Objectives

History

- MoU signed between APIX, Euro-IX and LAC-IX in 2012
- AFIX 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 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.
IXPDB – How does it work?

- 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 its 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 / API is live
- Looking to 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](http://ixpdb.net) (work in progress)

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

• API is available - [https://api.ixpdb.net](https://api.ixpdb.net)

• If you think this is good work, like we do, fund us 😊
  [secretariat@ix-f.net](mailto:secretariat@ix-f.net)
Euro-IX Video

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