IXPDB

ENOOG 15

Rebecca Class-Peter
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

ECI
THE ELASTIC NETWORK

Ciena

Nokia

Juniper Networks

Arista

Interxion

Equinix

Extreme
Connect Beyond the Network

Coriant

Smartoptics

euro-IX
Euro-IX Activities

• 2 Fora a year
  • 32\textsuperscript{nd} in Galway hosted by INEX
  • 33\textsuperscript{rd} 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/

• Route Server large BGP communities list: https://www.euro-ix.net/en/forixps/large-bgp-communities/

• Social media
  • Twitter @euroix
  • Facebook fb.me/maineuroix
  • Youtube youtube.com/channel/UCFyucVRAAMzxyJIsxnGwsjw
IXPDB an IX-F Project
IX-F is an organisation for coordinating the efforts of Internet eXchange Points Associations (IXPAs).

Membership includes:

• AFIIX – African Internet eXchange Point Association
• APIX – 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
The IX-F Board consists of two representatives from each IXPA:

AFIX  Nishal Goburdhan, JINX
Kyle Spencer, UIXP

APIX  Katsuyasu Toyama, JPNAP
Gavin Tweedie, Megaport

Euro-IX  Andy Davidson, Asteroid
Ondrej Filip, NIX.CZ

LAC-IX  Ariel Graizer, CABASE
Nico Scheper, AMS-IX Caribbean
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 directly from the IXPs own databases

• 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

• 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 and Asteroid

The IXPDB publishes 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
- Geo-location and maps – now available
- Aggregated vendor data at IXPs and participants – now available
- Compare IXP function
- Aggregated traffic data – 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
Euro-IX Video

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