



euro-IX

# Euro-IX Activities & IXPDB

UKNOF 40 - 27 April 2018

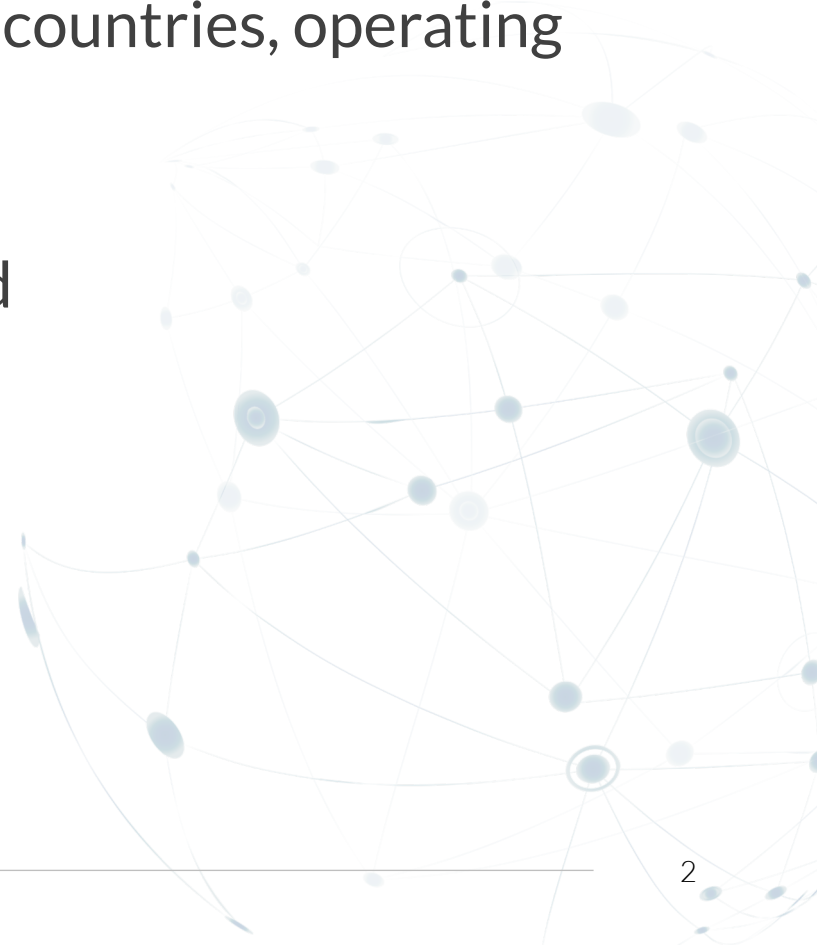
Rebecca Class-Peter



# 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



THE ELASTIC NETWORK

**ciena**

**NOKIA**

**JUNIPER**  
NETWORKS

**ARISTA**

**interxion**<sup>TM</sup>



**EQUINIX**

**Extreme**<sup>®</sup>  
Connect Beyond the Network

**Coriant**

**smartoptics**

**euro-ix**



# Euro-IX Staff

## London

- Bijal Sanghani – Secretary General
- Rebecca Class-Peter – Events & Operations coordinator

## Peterborough

- Michael Lewis – UK Accountant

## Amsterdam

- V EVP – NL Accountants







# Euro-IX Board



Andy Davidson  
IXLeeds/Asteroid



Ondrej Filip  
NIX.CZ



Kurtis Lindqvist  
LINX



Harald Michl  
VIX



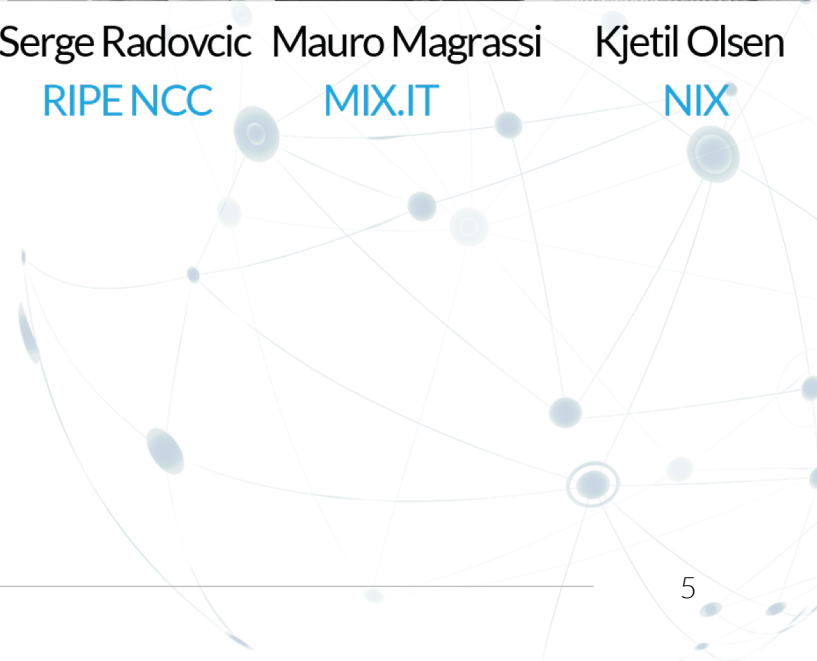
Serge Radovicic  
RIPE NCC



Mauro Magrassi  
MIX.IT



Kjetil Olsen  
NIX





# Euro-IX Forum Programme Committee (FPC)



Marc Bruyere  
TouIX



Christoph Dietzel  
DE-CIX/UAE-IX



Jo Fereday  
LINX



Greg Hankins  
Nokia



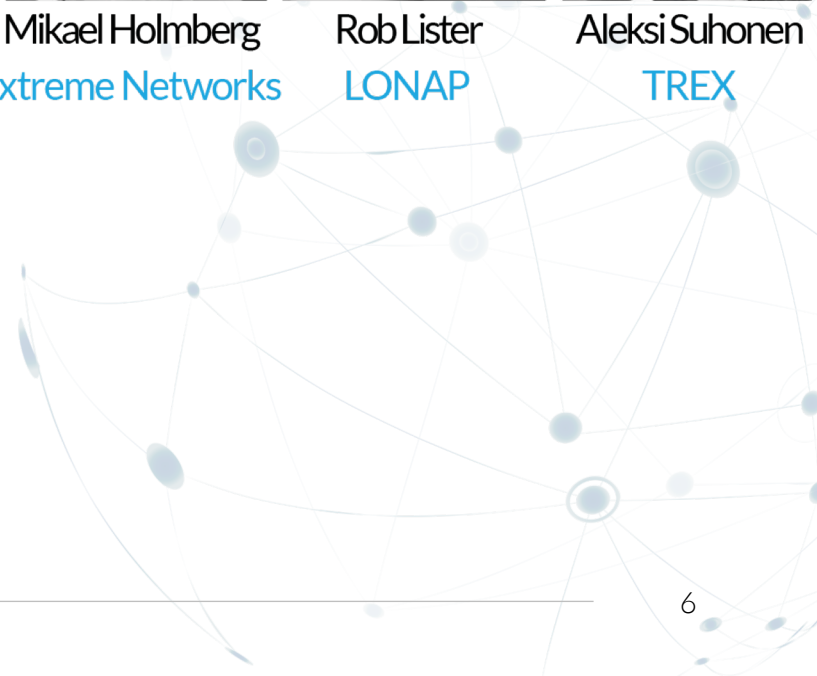
Mikael Holmberg  
Extreme Networks

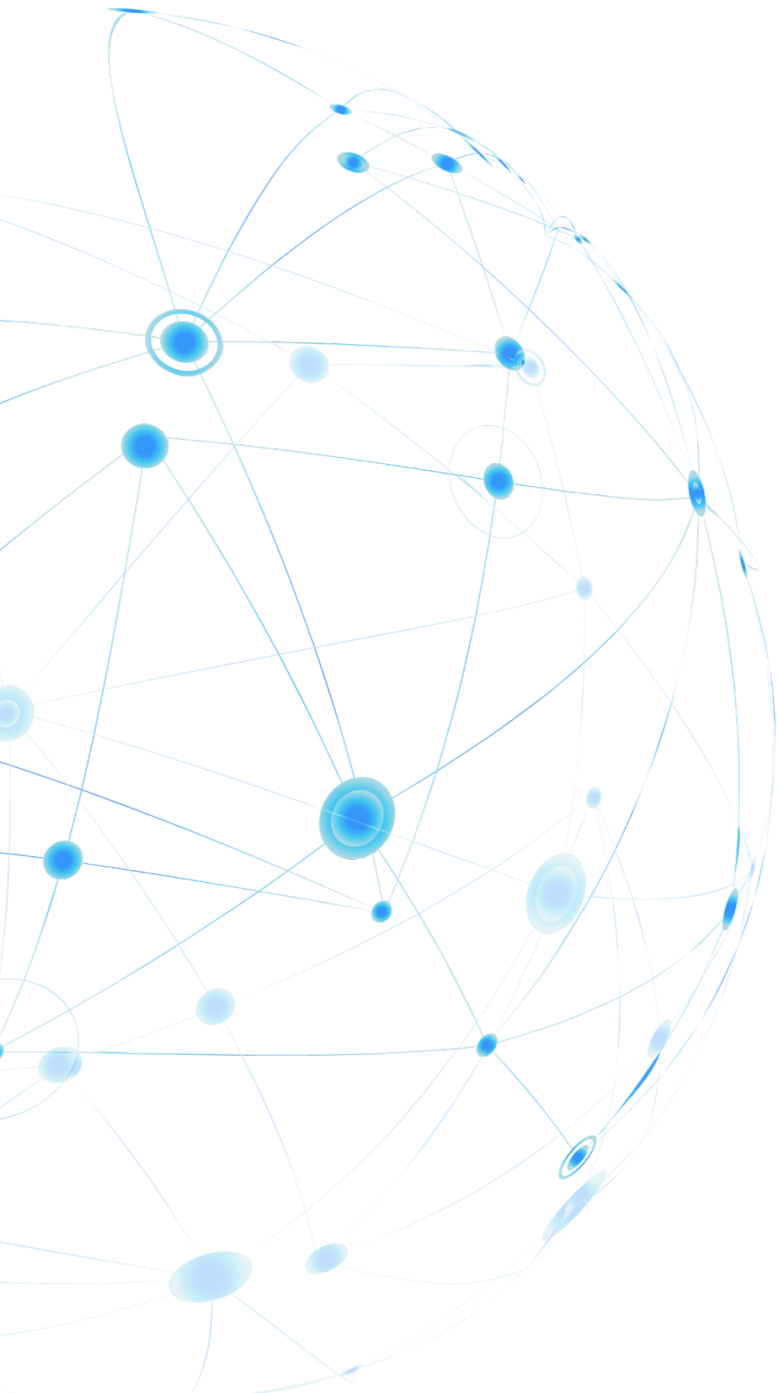


Rob Lister  
LONAP



Aleksi Suhonen  
TREX





# Benchmarking Club





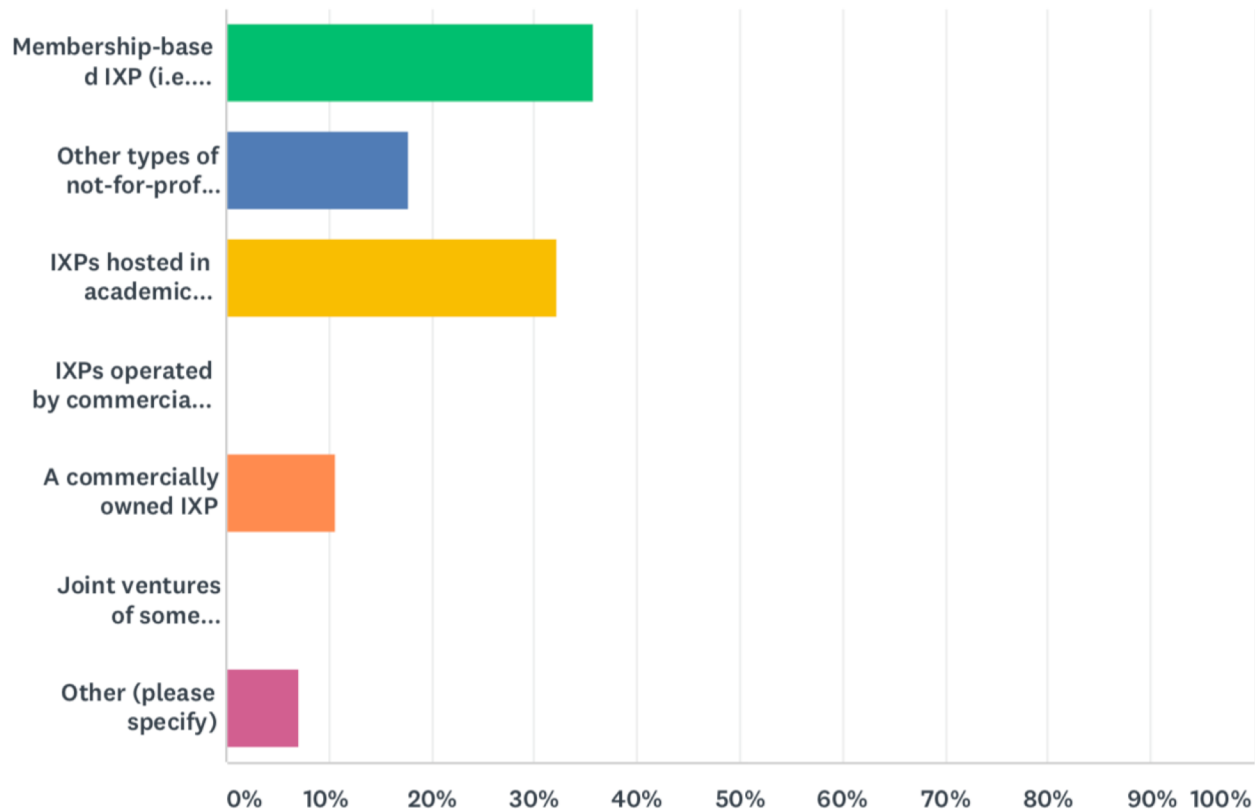
# Euro-IX Benchmarking Club

- Committee –
  - John Souter - LINX
  - Luca Cicchelli – TOP-IX
  - Stefan Wahl - ECIX
  - Maria Isabel Gandía Carriedo - CATNIX
- We closed the BMC on **19<sup>th</sup> March**
- The more IXPs that we get involved the more accurate and more valuable the information will be –
  - Round 11 we had 44 participants
  - Round 12 we had 30 participants
  - **Round 13 we had 38 participants**

# Euro-IX Benchmarking Club - Results

## Q11 What kind of organisation manages your IX?

Answered: 28 Skipped: 10

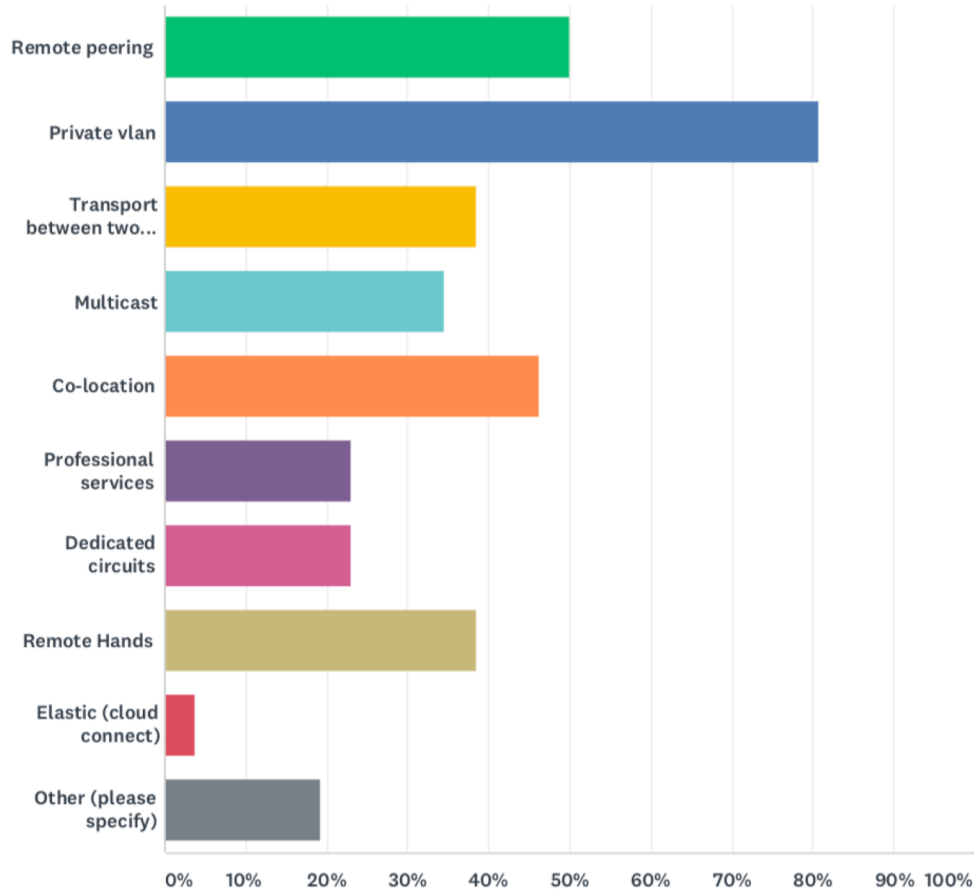




# Euro-IX Benchmarking Club - Results

Q17 What extended services do you offer?(Leave blank if not applicable)

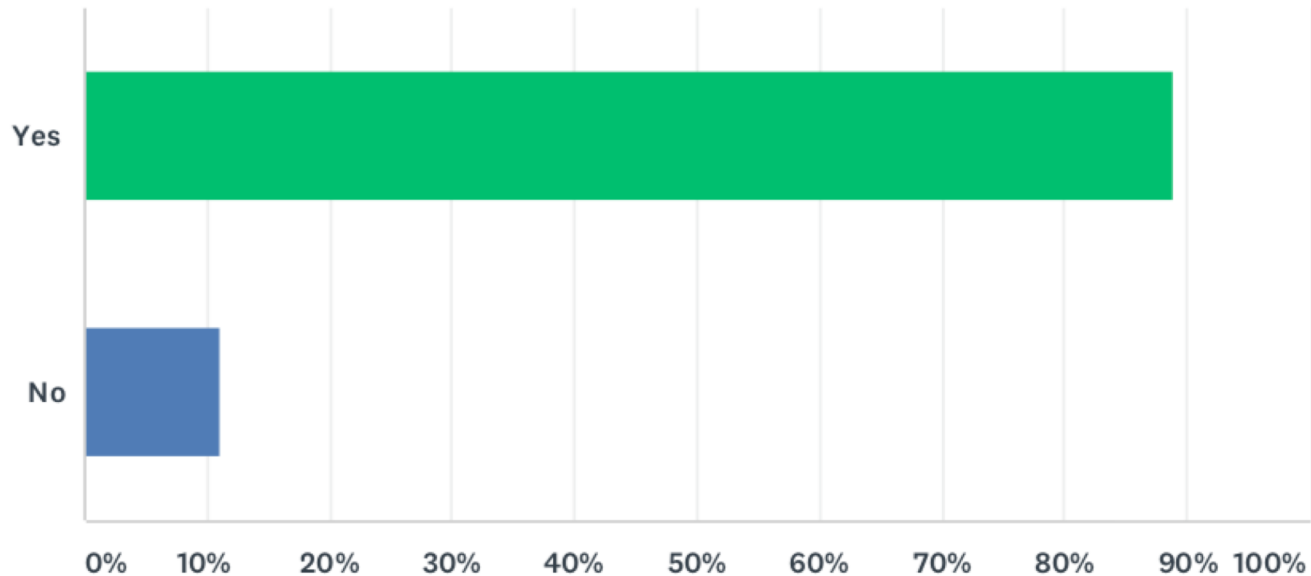
Answered: 26 Skipped: 12

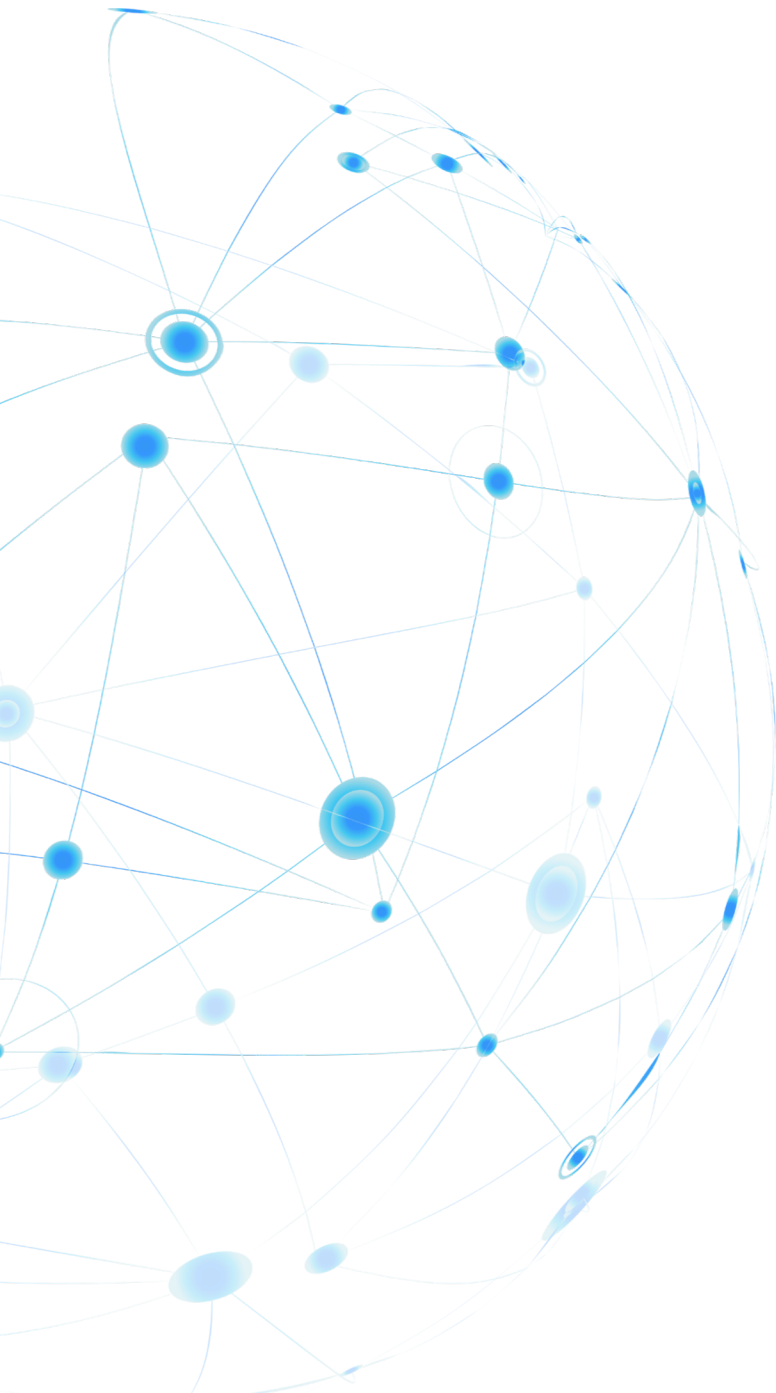


# Euro-IX Benchmarking Club - Results

## Q37 Do you currently use Route Servers?

Answered: 27 Skipped: 11





# The Euro-IX Large BGP Community standard list

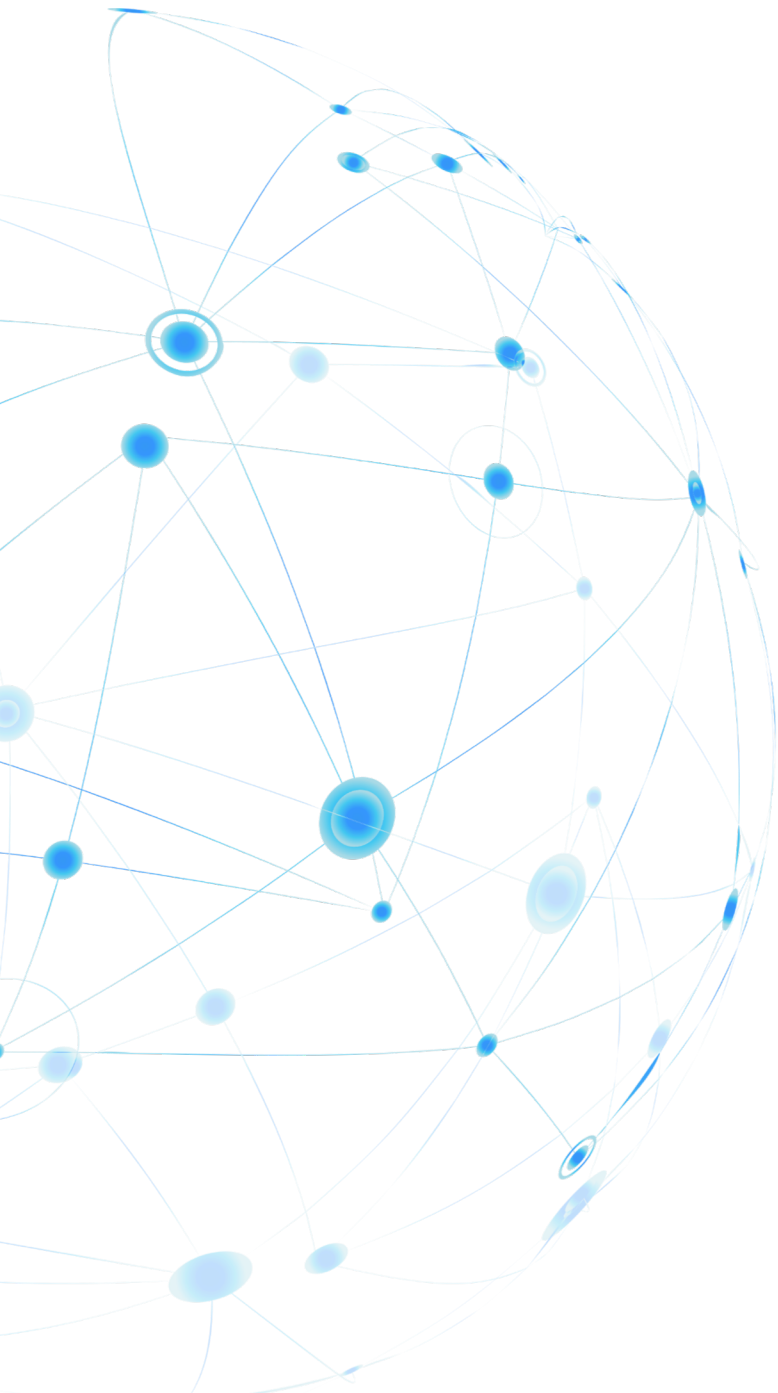






# Large BGP community standard list

- An effort to get in early so IXPs can already start using them.
- Helps the community understand what information is being conveyed
- Two ranges defined:
  - Action communities - 0-999
  - Information communities – 1000 - 1999
- Includes reserved space for future additions
- List available - <https://www.euro-ix.net/en/forixps/large-bgp-communities/>



# IXPDB an IX-F Project



# Introduction to the Internet eXchange Federation

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

Membership includes:

- AFIX – 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 245 IXPs across 6 continents



# IXP Database – what is it?

The IXPDB is the authoritative, complete, public source of data related to IXPs.

- The IXPDB collects data directly from IXPs
- Single place for verified data with varying levels of exposure
- The IX-F brings together the 4 IXPAs of which they have blessing of their members, the IXPs to carry out this work
- Gives IXPs one single place to publish their APIs private or public
- The data can be viewed, analysed, and exported via a powerful web-based interface and software API.

**Project sponsors: Euro-IX, APNIC, CZ.NIC**



# 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.
- The key value of the IX-F Export is that it makes the individual IXP the canonical trusted source for data about their own IXP.
- IXPs publish this data publicly and some privately

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



# IXPDB - Why is it different?

- It's a project under the IX-F – who brings together the 4 IXPAs
- Imports IX-F JSON from public, private and via IXP Manager data sources
- It will publishes one standard API
- No manual input – fully automated data from the source!
- IXPAs holding workshops to support IXPs automate their operations, Automation workshops during APRICOT, Euro-IX 32, LAC-IX and AFIX.

**Current import at 110 IXPS!!!**

# 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](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.





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