



# euro-IX IXF Update

APIX 15

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Ho Chi Minh City, Vietnam

# ➤ What is the IX-F?

- The idea of the IX-F came about with the development of the the different IXPAs around the world and the need to collaborate on global IXP related issues.
- Structured around a eight member Executive Board (EB), comprising of two representatives from each IXP and one administrator to provide administrative support within the defined work areas of the Federation.

# ➤ What is the IX-F?

**The IX-F Board consists of:**

## **APIX**

Gavin Tweedie – Megaport (Australia)

Katsuyau Toyama – JPNAP (Japan)

## **Euro-IX**

Ondrej Filip – NIX.cz (Czech Republic)

John Souter – LINX (United Kingdom)

## **AF-IX**

Nishal Goburdhan – JINX (south Africa)

Kyle Spencer – UIXP (Uganda)

## **LAC-IX**

Ariel Grazier – NAP CABase (Argentina)

Milton Kashiwakura – PTT.br (Brazil)

# ➤ Common Goals

- Global IXP DB and associated query functions
- Global aggregated traffic statistics
- Global IXP Switch DB
- Global IXP Route Server DB
- Global IXP Best practices
- IXP mailing list – tech-discuss

# ➤ Global IXP discussion mailing list

- Subscribe - <https://lists.ix-f.net/mailman/listinfo/tech-discuss>

# ➤ IXP Database – where are we..

- We have a database schema for all IXPs to record information about themselves and their relationships with the network operators that they serve.
- A database and associated tools and APIs so the network operator community, researchers and related stakeholders can benefit from centrally collected data
- Data is maintained by IXPs – you are the source of data!
- It is open, plugable & extendable so data is accessible for all
- ..lets bring in automation and make it easy 😊

# ➤ IXP Database – Org Profile

Organization Profile

Internet Neutral Exchange Association


General

[Introduction](#)

[Contacts](#)

[IXPs](#)

[Users](#)



**Location:**

Ireland

**Established:**

1996-09-01

**Affiliation:**

Member

**Board Contact:**

**Email:**

[barry.rhodes@inex.ie](mailto:barry.rhodes@inex.ie)

**Website:**

<https://www.inex.ie/>

Edit

# ➤ IXP Database - ASNs

IXP Profile

Internet Neutral Exchange Association

[Profile](#) [Network](#) [Switches](#) [Services](#) [Pricing](#) [Tree](#) [ASNs](#) [Users](#)

Automation Link<https://www.inex.ie/noncms/php/euro-ix-members.php>

AS #	COMPANY	IPV6
<a href="#">34218</a>	3 Ireland	N
<a href="#">29644</a>	Airspeed Telecom	Y
<a href="#">42227</a>	Airwire	Y
<a href="#">20940</a>	Akamai Technologies	Y
<a href="#">16509</a>	Amazon	Y
<a href="#">61194</a>	Another 9	N
<a href="#">49567</a>	Aptus Broadband	Y
<a href="#">5580</a>	Atrato IP Networks	Y
<a href="#">47680</a>	BBnet	N

Automations

ASN Link ✓

Traffic Link ✕

Traffic



# ➤ IXP Database – ASN searches

ASN Database		
Stats	<a href="#">Search</a>	<a href="#">Recent</a> <a href="#">Common</a>
IXP PARTICIPANTS	IPV6	UNIQUE ASNS
EURO-IX		
8644	5420	4457
APIX		
1511	444	928
AF-IX		
302	60	271
LAC-IX		
1703	1092	1243
NORTH AMERICA		
2192	524	1081
GLOBAL		
14352	7540	7564

# ➤ IXP Database – ASNs & more

ASN Database			
<a href="#">Stats</a>	<a href="#">Search</a>	<a href="#">Recent</a>	<a href="#">Common</a>
AS#	COMPANY	PRESENT AT	IPV6
<a href="#">6939</a>	<a href="#">Hurricane Electric</a>	<a href="#">80</a>	<a href="#">Y</a>
<a href="#">20940</a>	<a href="#">Akamai International B.V.</a>	<a href="#">78</a>	
<a href="#">15169</a>	Google Inc	<a href="#">69</a>	
<a href="#">3856</a>	<a href="#">PCH</a>	<a href="#">62</a>	
<a href="#">42</a>	<a href="#">WoodyNet</a>	<a href="#">56</a>	
<a href="#">8075</a>	<a href="#">Microsoft RUS LLC</a>	<a href="#">52</a>	
<a href="#">22822</a>	<a href="#">Limelight</a>	<a href="#">49</a>	
<a href="#">10310</a>	<a href="#">Yahoo Inc. (B)</a>	<a href="#">35</a>	
<a href="#">13335</a>	CloudFlare Inc.	<a href="#">29</a>	

**IXPs**

- AMS-IX
- AMS-IX Bay Area
- AMS-IX Chicago
- AMS-IX Hong Kong
- AMS-IX New York
- BBIX - Tokyo
- BCIX
- BIX.BG
- BiX
- Big APE
- CATNIX
- CoreSite - Any2 Denver / RMIX Denver
- CoreSite - Any2 Los Angeles
- DE-CIX Frankfurt

# ➤ IXP Database - Switches

Switch Database					
<a href="#">Browse</a>	<a href="#">Recent</a>	<a href="#">For Sale</a>	<a href="#">My IXP Switches</a>	<a href="#">Add Switch</a>	
NAME	VENDOR	MODEL	IXP	SOFTWARE VERSION	CREATED
<a href="#">Cremat</a>	Arista	7280SE-72	<a href="#">CATNIX</a>	4.15.3F	Sept. 28, 2016
<a href="#">Sucre</a>	Arista	7280SE-72	<a href="#">CATNIX</a>	4.15.3F	Sept. 28, 2016
<a href="#">CIX2</a>	Force10	S4810	<a href="#">CIX</a>	9.10(0.0)	Sept. 23, 2016
<a href="#">mlx-zh4</a>	Brocade	MLXe-16	<a href="#">SwissIX</a>	5.7.0dT163	Aug. 02, 2016
<a href="#">mlx-rue</a>	Brocade	MLXe-16	<a href="#">SwissIX</a>	5.7.0dT163	Aug. 02, 2016
NAME	VENDOR	MODEL	IXP	SOFTWARE VERSION	UPDATED
switch26	Extreme	X480-24x(10G4X)	<a href="#">LINX LON2</a>	15.4.1.3	Oct. 23, 2016

# ➤ IXP Database - Status

- Core database is available
- IXP API - <https://db.ix-f.net/api/ixp>

## What's left:

- Extend and internationalise the admin interface for all IXPAAs
- Creating bespoke, maintained API instances
- Future revisions to the database schema to capture more data.

# ➤ IXP Database – How you can help

- IXPs please keep your profiles and all information in the IXPDB updated via the Euro-IX website
- Funding funding funding to further the project!!



Questions?



# Thank You!

Bijal Sanghani  
Bijal at euro-ix dot net  
Twitter: @euroix

