

EUC-X IXF Update

APIX 15

Ho Chi Minh City, Vietnam





- 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 IXPA and one administrator to provide administrative support within the defined work areas of the Federation.





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)





- Global aggregated traffic statistics
- Global IXP DB and associated query functions
- Global IXP Switch DB

- **Global IXP Route Server DB**
- Global IXP Best practices
- IXP mailing list tech-discuss









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



XP Database – where are we..

<u>euro-IX</u>

- 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 \odot

XP Database – Org Profile

Organization Profile

GOLO-IX

Internet Neutral Exchange Association

General	Introduction	Contacts	<u>IXPs</u>	<u>Users</u>	
			Loca	ation:	Ireland
E	inex•		Esta	blished:	1996-0
			Affili	iation:	Memb
			Boa	rd Contact:	
			Ema	il:	barry.r
			Web	site:	https:/
<u>Edit</u>					

nd		_
-09-01		
ber		
.rhodes@inex.ie		

://www.inex.ie/

XP Database - ASNs

IXP Profile

Internet Neutral Exchange Association

P	Profile	<u>Network</u>	Switches	<u>Services</u>	Pricing	<u>Tree</u>	ASNs
	Auto	mation Link	htt	ps://www.ine	k.ie/noncms	/php/euro	o-ix-mem
	AS #		COMPANY	,			
	<u>34218</u>		3 Ireland				
	<u>29644</u>		Airspeed Tele	com			
	<u>42227</u>		Airwire				
	<u>20940</u>		Akamai Techn	ologies			
	<u>16509</u>		Amazon				
	<u>61194</u>		Another 9				
	<u>49567</u>		Aptus Broadb	and			
	<u>5580</u>		Atrato IP Netv	vorks			
	<u>47680</u>		BBnet				
	Traffic						



n				
ASNs	<u>Users</u>		Automations	
ix-memt	pers.php		ASN Link	\checkmark
	IPV6	-	Traffic Link	\otimes
	(Y)	-		
	(\mathbf{Y})			
		_		
	(Y)	_		
	N	_		
	(Y) (Y)	_		
		-		
		[]]		



ASN Database

Stats Search Recent Common						
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				



XP Database – ASNs & more

ASN Database

Stats Searc	n Recent Common				
AS#	COMPANY	PRESENT AT	IPV6		
<u>6939</u>	Hurricane Electric	<u>80</u>	Y		
<u>20940</u>	Akamai International B.V.	78 IXPs			
<u>15169</u>	Google Inc	69 AMS-IX			
<u>3856</u>	<u>PCH</u>	62 AMS-IX C	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		
<u>42</u>	<u>WoodyNet</u>	56 AMS-IX N			
<u>8075</u>	Microsoft RUS LLC	52 BCIX			
<u>22822</u>	<u>Limelight</u>	<u>49</u> BiX			
<u>10310</u>	<u>Yahoo Inc. (B)</u>	35 CATNIX			
<u>13335</u>	CloudFlare Inc.	29 CoreSite			

XP Database - Switches

Switch Database «

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

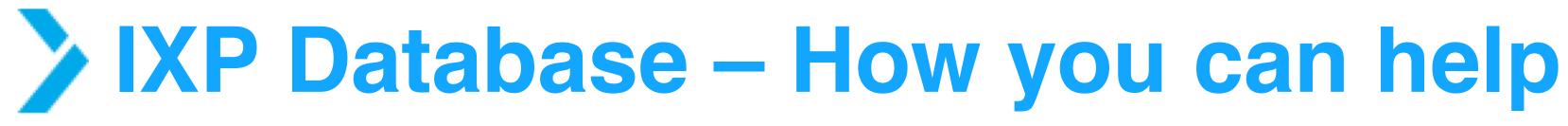
XP Database - Status

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

What's left:

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





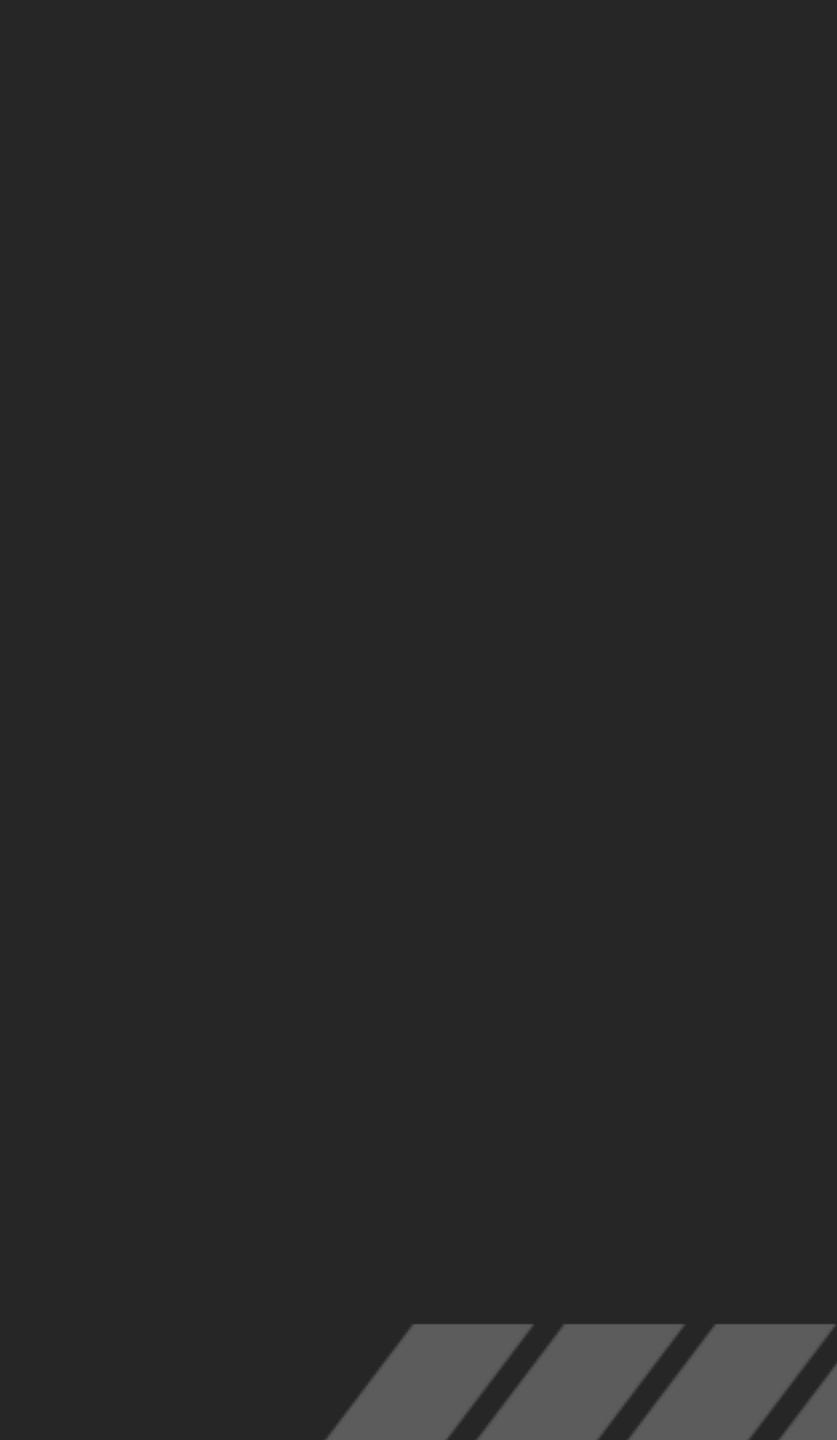
IXPs please keep your profiles and all information in the **IXPDB updated via the Euro-IX website**

Funding funding funding to further the project!!





Questions?



Thank You!

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