EUCO-IX IXP database and tools RONOG 4

Bucharest, Romania



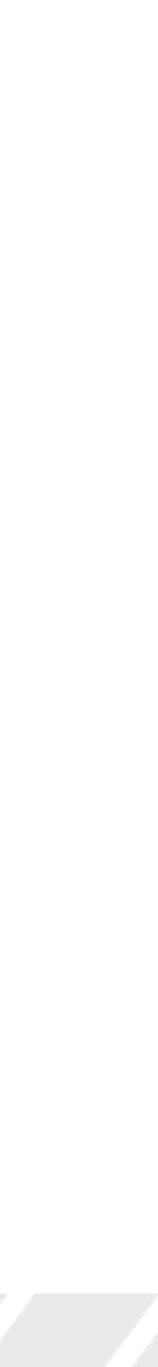


- Two fora per year
- Maintain and develop the website, database and tools
- Annual European IXP Report
- Mentor-IX programme
- Fellowship programme
- Benchmarking Club (BMC)

GOLO-IX







> Talk to us and each other

- Mailing lists
- Newsletter Subscribe here:
 - euro-ix.net/news-and-events/newsletter/
- Working Groups
- Social Media

GOLO-IX

- Twitter @euroix
- Facebook fb.me/maineuroix
- YouTube

youtube.com/channel/UCFyucVRAAMzxyJlsxnGwsjw





84 affiliated IXPs:

- Peering LANs
- 28 IXPs from the rest of the world
- Newest Members:

Peering.cz

Beirut-IX

CASIX





56 IXPs in the Euro-IX Region in 49 Countries, operating over 100





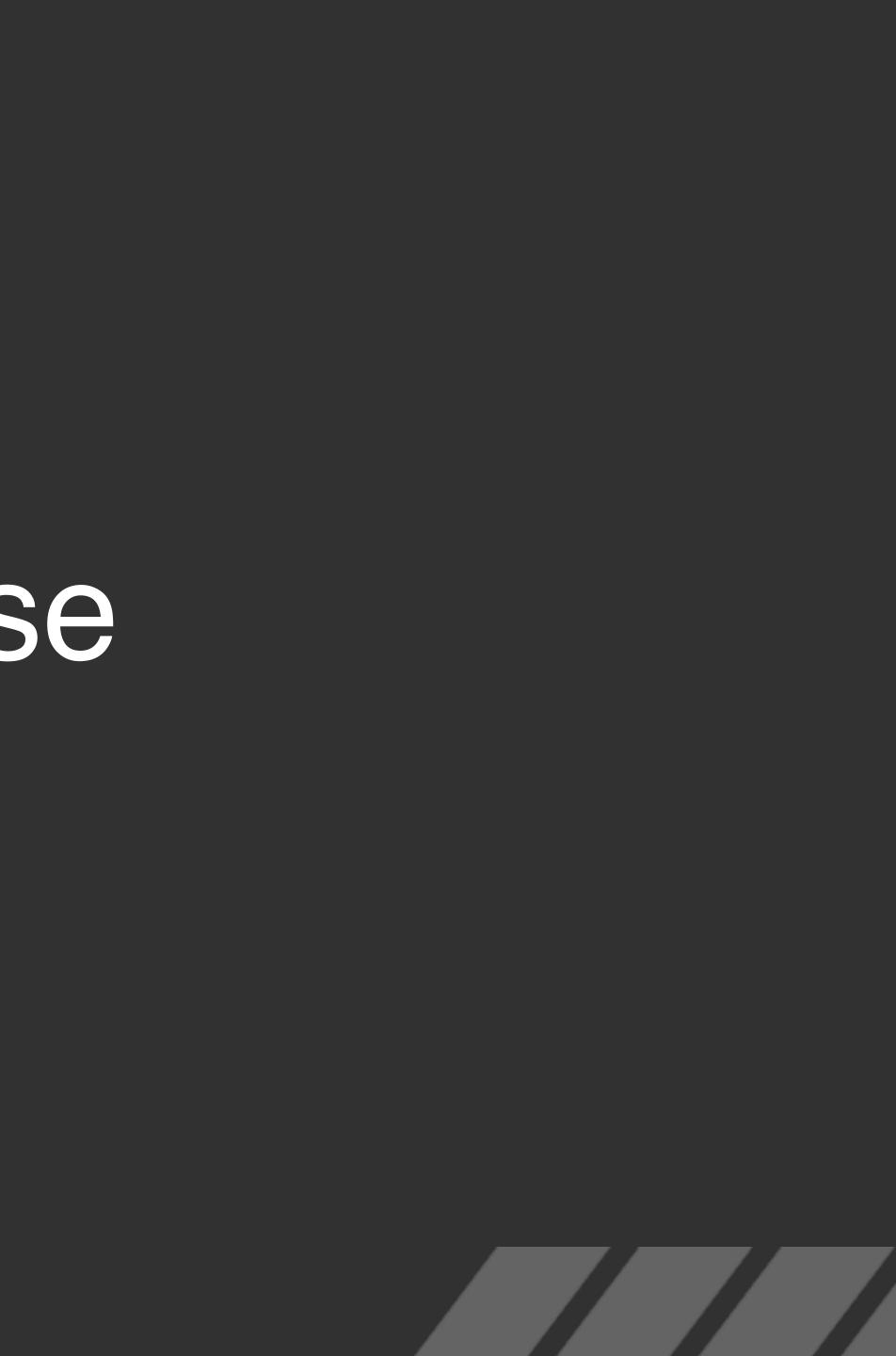
13 Patrons

- Arista
- Brocade
- Ciena
- Coriant
- ECI Telecom
- Equinix I Telecity
- Extreme Networks



- Huawei
- Interxion
- Juniper Networks
- •MRV
- Nokia
- Telehouse







Organization Profile

GOLO-IX

Internet Neutral Exchange Association

General	Introduction	Contacts	<u>IXPs</u>	<u>Users</u>	
			Loca	ation:	Ireland
P	inex•		Esta	blished:	1996-0
			Affili	ation:	Membe
			Boai	rd Contact:	
			Ema	il:	barry.rl
			Web	site:	https://
<u>Edit</u>					

d	
-09-01	
ber	
.rhodes@inex.ie	
://www.inex.ie/	





Organization Profile

Amsterdam Internet Exchange B.V.

<u>General</u>	Introduction	Contacts	IXPs	<u>Users</u>
NAME				
AMS-IX	Bay Area			
AMS-IX	Caribbean			
AMS-IX	Chicago			
AMS-IX	Hong Kong			
AMS-IX	India			
AMS-IX	New York			
Amsterd	am Internet Excha	nge		



0	
	ΓRΥ

United States of America

Netherlands Antilles

United States of America

China

India

United States of America

Netherlands

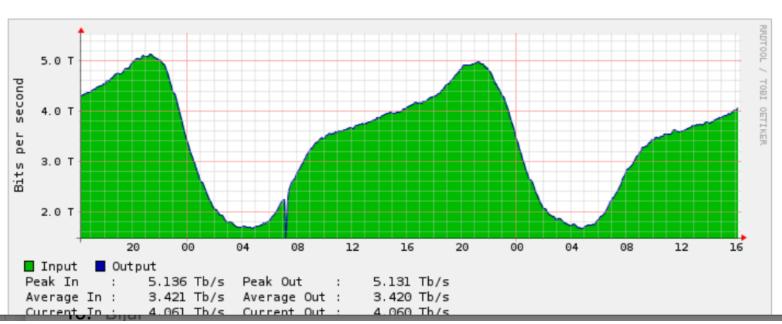


IXP Profile

Amsterdam Internet Exchange



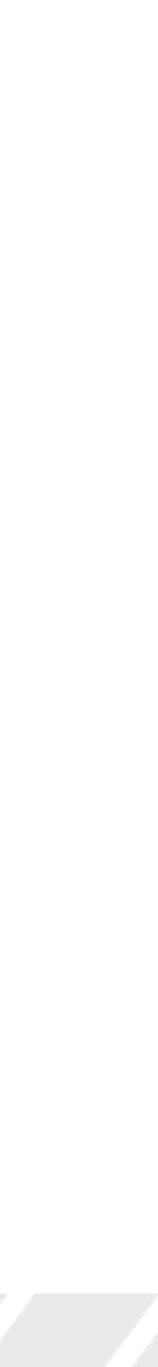
Traffic





Services	<u>s Pricing Tree ASNs Users</u>	A
	Amsterdam Internet Exchange B.V.	
	796	
	12	
	Legal entity AS number BGP-4	
	Independent Non-profit Neutral Number of members Central European Resilient multi-site setup	
	\heartsuit	
	\heartsuit	
	https://www.ams-ix.net/connect-to-ams- ix/application-form	
	Job Witteman	
	Job Witteman	
	Aleksandar Mitrov	





IXP Profile

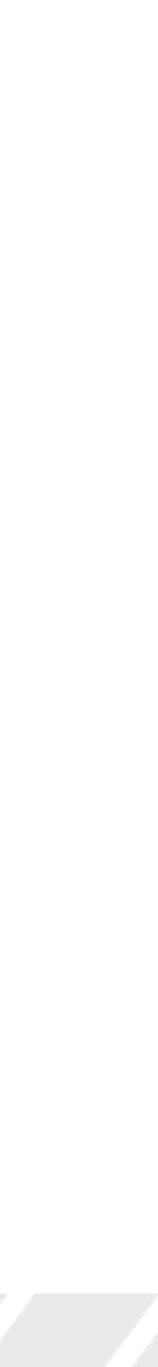
Internet Neutral Exchange Association

P	rofile	Network	Switches	Services	Pricing	Tree	AS
	Auto	mation Link	htt	ps://www.ine	c.ie/noncms	/php/eur	<u>o-ix-</u>
	AS #		COMPANY				
	<u>34218</u>		3 Ireland				
	<u>29644</u>		Airspeed Tele	com			
	42227		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						

GOLO-IX

ASNs Users	Automations	
<u>x-members.php</u>	ASN Link	
IPV6	Traffic Link	\otimes
 (Y)		
(Y)		
N		
 ♥		
N		







ASN Database

Stats	Search	Recent	Common
	IXP	PARTICIP	NTS
		8715	
		1513	
		335	
		1883	
		2195	
		14641	



IPV6	UNIQUE ASNS
EURO-IX	
5488	4478
APIX	
447	929
AF-IX	
64	296
LAC-IX	
1258	1385
NORTH AMERICA	
538	1086
GLOBAL	
7795	7755



ASN Database

<u>Stats</u> Sea	arch Recent Common		
AS#	COMPANY	PRESENT AT	IPV6
<u>6939</u>	HE	<u>80</u>	Y
<u>20940</u>	Akamai	IXPs	D
15169	Google	AMS-IX	D
3856	Packet Clearing House	AMS-IX Bay Area AMS-IX Chicago	D
<u>42</u>	WoodyNet	AMS-IX Hong Kong AMS-IX New York	D
<u>8075</u>	Microsoft	BBIX - Tokyo BCIX	D
22822	Limelight Networks, Inc.	BIX.BG BIX Bix ADE	D
10310	<u>Yahoo Inc. (B)</u>	Big APE CATNIX CoreSite - Any2 Denver / RMIX Denver	D
13335	CloudFlare	CoreSite - Any2 Deriver / Rivitx Deriver CoreSite - Any2 Los Angeles DE-CIX Frankfurt	D
16509	Amazon	DE-CIX Hamburg DE-CIX Marseille	D
<u>26415</u>	VeriSign Netherlands BV	DE-CIX Munich DE-CIX New York	D
15133	Edgecast	DIX - Lyngby ECIX Berlin	D





Peering Matrix

CSV Download

«

MNS-X Caribbean 30.7 0 2 13 0 0 1 1 1 1 1 1 0 1 1 0 0 1 0 0 1 1 1 1 1 1 1 0	Totallisted ASHS that don't peer f	At other NPS	ser at othe	ALBIN A	other WPs	AMS-IX Ca	hibbean ARMIX	Angonix	BBIX HON	BENT TOKY	so acit	ait.BG	BHIT	ait	-ATTINA	CHINIT	cit ci
AMMIX 0.00 0<	AMS-IX	_							2	<u>37</u>	<u>22</u>			<u>11</u>		<u>4</u>	
Magonix 50.00 0 0 0 2 0 <th< td=""><td>AMS-IX Caribbean</td><td>30.77</td><td>0</td><td>2</td><td><u>13</u></td><td>0</td><td>0</td><td>0</td><td>1</td><td><u>1</u></td><td>1</td><td>0</td><td>0</td><td><u>1</u></td><td>0</td><td>1</td><td>0</td></th<>	AMS-IX Caribbean	30.77	0	2	<u>13</u>	0	0	0	1	<u>1</u>	1	0	0	<u>1</u>	0	1	0
BBX - Tokyo 62.0 0 2 1 0 0 0 2 2 0 1 1 0 0 0 BGX - Tokyo 70.89 0 37 1 0 0 0 2 79 8 3 4 4 0 2 2 3GX.BG 58.33 0 22 1 0 0 0 2 8 72 1 4 3 0 3 0 3MX 53.33 0 12 0 0 0 0 0 1 4 4 4 49 2 0 1 1 CATNIX 37.50 0 11 1 0 0 0 0 1 4 3 2 2 32 0 31 1 1 1 0 3 1 1 1 1 1 1 1 1 1 33 <td>ARMIX</td> <td>0.00</td> <td>0</td> <td>0</td> <td>0</td> <td><u>10</u></td> <td>0</td>	ARMIX	0.00	0	0	0	<u>10</u>	0	0	0	0	0	0	0	0	0	0	0
TOLE TOLE <thtole< th=""> TOLE TOLE</thtole<>	Angonix	50.00	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0
BIX.BG 58.33 0 22 1 0 0 0 2 8 72 1 4 3 0 3 0 BIX.BG 53.33 0 19 0 0 0 0 3 1 45 4 2 0 0 3 BIX.SG 53.33 0 19 0 0 0 0 3 1 45 4 2 0 0 3 BIX.SG 42.86 0 17 0 0 0 1 4 4 4 49 2 0 1 1 CATNIX 37.50 0 11 1 0 0 0 1 4 3 2 2 32 0 31 1 1 0 0 1 4 3 2 32 0 31 1 0 0 0 1 3 0 32 0 32 0 32 0 32 0 32 0 32 0 <td>BBIX - Tokyo</td> <td>62.50</td> <td>0</td> <td>2</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td><u>8</u></td> <td>2</td> <td>2</td> <td>0</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>0</td>	BBIX - Tokyo	62.50	0	2	1	0	0	0	<u>8</u>	2	2	0	1	1	0	0	0
SNIX 53.33 0 19 0 0 0 0 3 1 45 4 2 0 0 3 SNIX 42.86 0 17 0 0 0 1 44 44 49 2 0 1 1 CATNIX 37.50 0 11 1 0 0 0 1 44 44 49 2 0 3 1 CIX 37.50 0 4 1 0 0 0 1 44 3 2 2 32 0 3 1 1 CIX 37.50 0 4 1 0 0 0 2 3 0 1 3 0 32 0 3 1 1 0 0 3 1 1 0 3 1 1 0 3 1 1 0 3 1 1 0 3 1 1 0 3 1 1 1 0 3 <td>BCIX</td> <td>70.89</td> <td>0</td> <td><u>37</u></td> <td><u>1</u></td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td><u>79</u></td> <td><u>8</u></td> <td><u>3</u></td> <td><u>4</u></td> <td><u>4</u></td> <td>0</td> <td>2</td> <td>2</td>	BCIX	70.89	0	<u>37</u>	<u>1</u>	0	0	0	2	<u>79</u>	<u>8</u>	<u>3</u>	<u>4</u>	<u>4</u>	0	2	2
BX 42.86 0 17 0 0 0 0 1 4 4 4 49 2 0 1 1 CATNIX 37.00 0 11 1 0 0 0 1 4 3 2 2 32 0 3 1 CX 37.00 0 4 1 0 0 0 2 3 0 1 3 0 32 10 0 33 0 1 0 3 1 0 0 3 1 0 0 33 1 0 0 33 1 0	BIX.BG	58.33	0	<u>22</u>	<u>1</u>	0	0	0	2	<u>8</u>	<u>72</u>	1	<u>4</u>	<u>3</u>	0	<u>3</u>	0
CATNIX 37.50 0 11 1 0 0 0 1 4 3 2 2 32 0 3 1 CIX 37.50 0 4 1 0 0 0 1 4 3 2 2 32 0 3 1 CIX 37.50 0 4 1 0 0 0 2 3 0 1 3 0 32 0 3 0 32 0 3 0 32 0 3 0 32 0 3 0 32 0 3 0 32 0 3 0 32 0 3 3 0 32 0 3 3 0 32 0 3 3 0 3 3 0 32 1 0 3 0 1 1 0 3 1 1 0 3 1 1 1 0 3 1 1 1 3 1 1 1 <td>BNIX</td> <td>53.33</td> <td>0</td> <td><u>19</u></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td><u>3</u></td> <td>1</td> <td><u>45</u></td> <td><u>4</u></td> <td><u>2</u></td> <td>0</td> <td>0</td> <td><u>3</u></td>	BNIX	53.33	0	<u>19</u>	0	0	0	0	0	<u>3</u>	1	<u>45</u>	<u>4</u>	<u>2</u>	0	0	<u>3</u>
CIX 37.50 0 4 1 0 0 0 2 3 0 1 3 0 32 0 CIX 75.00 0 19 0 0 0 0 2 3 0 1 3 0 32 0 CIX 75.00 0 19 0 0 0 0 2 0 3 1 1 0 0 36 DE-CIX Frankfurt 72.48 0 385 1 0 1 0 2 46 26 17 17 8 0 5 15 DIX - Lyngby 59.09 0 22 1 0 0 0 2 5 2 4 2 2 0 0 3 3 1 0 3 3 1 0 3 3 1 0 3 3 1 0 3 3 1 0 3 3 1 0 3 3 1 0 3 3 <td>BiX</td> <td>42.86</td> <td>0</td> <td><u>17</u></td> <td>0</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td><u>4</u></td> <td><u>4</u></td> <td><u>4</u></td> <td><u>49</u></td> <td><u>2</u></td> <td>0</td> <td>1</td> <td>1</td>	BiX	42.86	0	<u>17</u>	0	0	0	0	1	<u>4</u>	<u>4</u>	<u>4</u>	<u>49</u>	<u>2</u>	0	1	1
CLXP 75.00 0 19 0 0 0 0 2 0 3 1 1 0 0 36 DE-CIX Frankfurt 72.48 00 385 1 0 1 0 1 0 2 46 26 17 17 8 0 5 15 DIX - Lyngby 59.09 0 22 1 0 0 0 2 5 2 4 2 2 0 0 3 1 0 0 3 1 0 0 36 15 15 15 17 17 8 0 5 15 15 16 17 17 8 0 5 15 15 15 16 10 10 30 1 0 0 2 5 1 2 2 0 0 3 1 0 1 0 1 0 1 1 0 1 1 0 1 1 1 3 1 1 1 </td <td>CATNIX</td> <td>37.50</td> <td>0</td> <td><u>11</u></td> <td>1</td> <td>0</td> <td>0</td> <td>0</td> <td>1</td> <td><u>4</u></td> <td><u>3</u></td> <td>2</td> <td>2</td> <td><u>32</u></td> <td>0</td> <td><u>3</u></td> <td>1</td>	CATNIX	37.50	0	<u>11</u>	1	0	0	0	1	<u>4</u>	<u>3</u>	2	2	<u>32</u>	0	<u>3</u>	1
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Equinix Paris 83.38 0 131 1 0 0 2 19 10 8 5 6 0 2 7 Equinix Paris 98.95 0 69 1 0 0 2 19 10 8 5 6 0 2 7 Equinix Zurich 98.95 0 69 1 0 0 2 10 7 4 2 3 0 1 2 FICIX - Helsinki 56.67 0 9 0 0 0 0 2 1 2 1 0 1 1 FVG-IX 7 4 2 1 0 1 <td>DIX - Lyngby</td> <td>59.09</td> <td>0</td> <td>22</td> <td><u>1</u></td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td><u>5</u></td> <td>2</td> <td>4</td> <td>2</td> <td>2</td> <td>0</td> <td>0</td> <td><u>3</u></td>	DIX - Lyngby	59.09	0	22	<u>1</u>	0	0	0	2	<u>5</u>	2	4	2	2	0	0	<u>3</u>
Equinix Zurich 98.95 0 69 1 0 0 2 10 7 4 2 3 0 1 2 FICIX - Helsinki 56.67 0 9 0 0 0 0 2 1 2 1 0 1 </td <td>ECIX Berlin</td> <td>83.67</td> <td>0</td> <td><u>24</u></td> <td><u>1</u></td> <td>0</td> <td>0</td> <td>0</td> <td>2</td> <td>22</td> <td><u>5</u></td> <td><u>1</u></td> <td><u>3</u></td> <td><u>1</u></td> <td>0</td> <td>1</td> <td>0</td>	ECIX Berlin	83.67	0	<u>24</u>	<u>1</u>	0	0	0	2	22	<u>5</u>	<u>1</u>	<u>3</u>	<u>1</u>	0	1	0
ICIX - Helsinki 56.67 0 9 0 0 0 0 2 1 2 2 1 0 1 1 VG-IX 75.00 0 3 0 0 0 0 1 1 0 0 0 0	Equinix Paris	83.38	0	<u>131</u>	1	0	0	0	2	<u>19</u>	<u>10</u>	<u>8</u>	<u>5</u>	<u>6</u>	0	2	Z
FICIX - Helsinki 56.67 0 9 0 0 0 0 2 1 2 2 1 0 1 1 FVG-IX 75.00 0 3 0 0 0 0 1 1 0 0 0 0	Equinix Zurich	98.95	0	<u>69</u>	<u>1</u>	0	0	0	2	<u>10</u>	<u>7</u>	4	2	<u>3</u>	0	1	2
-VG-IX 75.00 0 3 0 0 0 0 1 1 0 0 0 0 0	FICIX - Helsinki	56.67	0	<u>9</u>		0	0	0	0	2			2	1	0		1
	FVG-IX	75.00	0	<u>3</u>	0	0	0	0	0	1			0	0	0		0
	France-IX Paris	89.80	0	<u>113</u>	<u>1</u>	0	0	0	2	<u>17</u>	<u>8</u>	<u>12</u>	<u>Z</u>	<u>6</u>	0	2	<u>5</u>





IXP Service Matrix

CSV Download

IXP	Location	ASN	RS ASN	# of customers	# IPv6 ready	% IPv6 ready	# of Sites
AMS-IX Bay Area	San Francisco			23	17	73.91	0
AMS-IX Caribbean	Willemstad, Curacao	28017		14	6	42.86	1
AMS-IX Chicago	Chicago			21	17	80.95	0
AMS-IX Hong Kong	Hong Kong	58516		32	25	78.12	1
AMS-IX India	Mumbai					0.0	0
AMS-IX New York	New York	<u>62981</u>		18	17	94.44	4
ARMIX	Yerevan	<u>51225</u>		10	8	80.00	1
Angonix	Luanda	327788		2	2	100.00	0
Aracaju (SE)	Aracaju					0.0	0
BBIX - Hong Kong	Hong Kong					0.0	0
BBIX - Tokyo	Tokyo	23640		8	1	12.50	7
BCIX	Berlin	<u>16374</u>		83	72	86.75	6
BIX Bergen	Bergen	<u>0</u>		4	2	50.00	0
BIX.BG	Sofia	<u>15669</u>		77	36	46.75	8
BNIX	Brussels	5406		45	14	31.11	3
Belo Horizonte (MG)	Belo Horizonte			29	13	44.83	0
Belm (BEL)	Belém			15	6	40.00	1
BiX	Budapest	<u>5507</u>		49	37	75.51	3
Braslia (DF)	Brasilia			32	21	65.62	0
CATNIX	Barcelona	49638		35	22	62.86	3
CHN-IX	Beijing					0.0	0
CIX	Zagreb	<u>51702</u>		32	11	34.38	2
CIXP	Geneva	57859		36	7	19.44	3

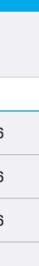




Switch Database

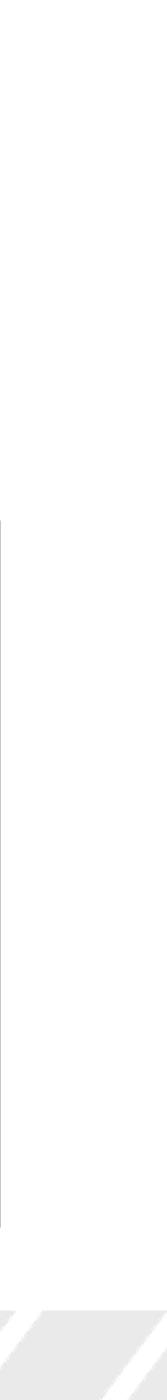
Browse Recent	For Sale My IXP Switches Add Switch					
NAME	VENDOR	MODEL	IXP	SOFTWARE VERSION	CREATED	
Cremat	Arista	7280SE-72	CATNIX	4.15.3F	Sept. 28, 2016	
Sucre	Arista	7280SE-72	CATNIX	4.15.3F	Sept. 28, 2016	
<u>CIX2</u>	Force10	S4810	<u>CIX</u>	9.10(0.0)	Sept. 23, 2016	
mlx-zh4	Brocade	MLXe-16	<u>SwissIX</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	

GOLO-IX



Route Servers

Browse Rece	nt <u>My R</u> e	oute Servers Add Route Server					
IXP	AT IXP	NAME	IN USE	DAEMON	VERSION	OS	CREATED
DE-CIX Frankfurt	Y	rsbh.fra.de-cix.net	Y	BIRD	1.6.3	Debian	Jan. 28, 2017
ECIX Munich	N	rs1.muc.ecix.net	Y	bird		CentOS	Jan. 27, 2017
InterLAN	Y	RS02-INTERLAN	Y	BIRD	1.3.11	CentOS	Nov. 11, 2016
InterLAN	Y	RS01-INTERLAN	Y	BIRD	1.3.11	CentOS	Nov. 11, 2016
SAIX	Y	saix-rs1	Y	BIRD	1.4.5	Debian	Nov. 11, 2016
IXP	AT IXP	NAME	IN USE	DAEMON	VERSION	OS	UPDATED
TOP-IX	Y	<u>rs2.top-ix.org</u>	Y	BIRD	1.6.2	Ubuntu	Feb. 21, 2017
TOP-IX	Y	<u>rs1.top-ix.org</u>	Y	BIRD	1.6.2	Ubuntu	Feb. 21, 2017
DE-CIX Frankfurt	Y	rs2.fra.de-cix.net	Y	BIRD	1.6.3	Debian	Jan. 28, 2017
DE-CIX Frankfurt	Y	rs1.fra.de-cix.net	Y	BIRD	1.5.0	Debian	Jan. 28, 2017
DE-CIX Frankfurt	Y	rsbh.fra.de-cix.net	Y	BIRD	1.6.3	Debian	Jan. 28, 2017

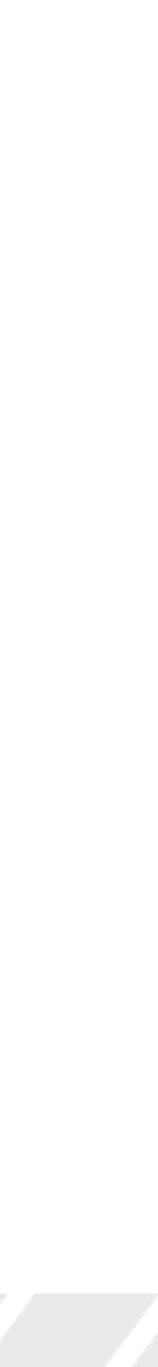


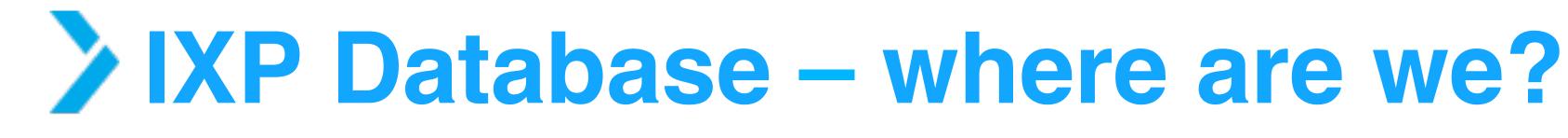


ASN Database			
Stats Search Recent	Commo	1	
Search			
ASN, IXP or Organizatio	on		
Advanced Filters			
	•	Nothing selected	•
	•	Nothing selected	•
	irs		
And at			
But not at			
And other IXPs			
And other IXPs, but no	ot at		









Database schema is in place for IXPs to record their information about themselves and the operators they serve, we urge all IXPs to start working with the IX-F to build the IXP database.

- IXP API is live https://db.ix-f.net/api/ixp
- IXF Member List Directory http://ml.ix-f.net

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If you need support to implement then talk to me, we are looking to hold some workshops in the future to help IXPs.





Thanks to Andy Davidson for the example

"who am I not peering with at LONAP?"

- differences





• You have a script which load direct adjacencies into an array • You need a complete and canonical list of peers to compare





Using the IXP API https://db.ix-f.net/api/ixp





XP Database – use case

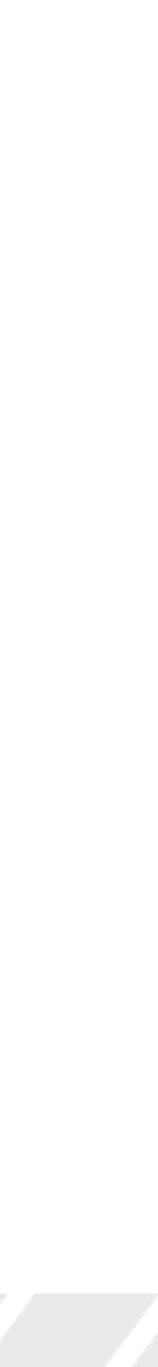
-€

```
"ixp_info": {
  "status": "active",
  "updated": "2014-02-17T10:07:51Z",
  "name": "London Network Access Point",
  "created": "2011-08-16T13:26:26Z",
  "shortname": "LONAP",
  "ixp id": "IX-F#18"
},
"timestamp": "2015-09-16T08:17:31.1162",
"version": "2014110401",
"member_list": [
  -
    "asnum": 20915,
    "name": "100 Percent"
  },
  -
    "asnum": 51406,
    "name": "2Connect"
  },
  -
    "url": "http://www.34sp.com",
    "asnum": 41357,
    "name": "34SP.com Ltd"
  },
  -
    "url": "http://4d-dc.com/",
    "asnum": 31463,
    "name": "4D Data Centres"
  },
  -
    "url": "http://www.afilias.info",
    "asnum": 12041,
    "name": "Afilias"
  }.
  -
    "url": "http://www.akamai.com",
    "asnum": 20940,
    "name": "Akamai Technologies"
  },
  -
    "url": "http://www.alentus.com",
    "asnum": 21321,
    "name": "Alentus UK Ltd"
 }.
```

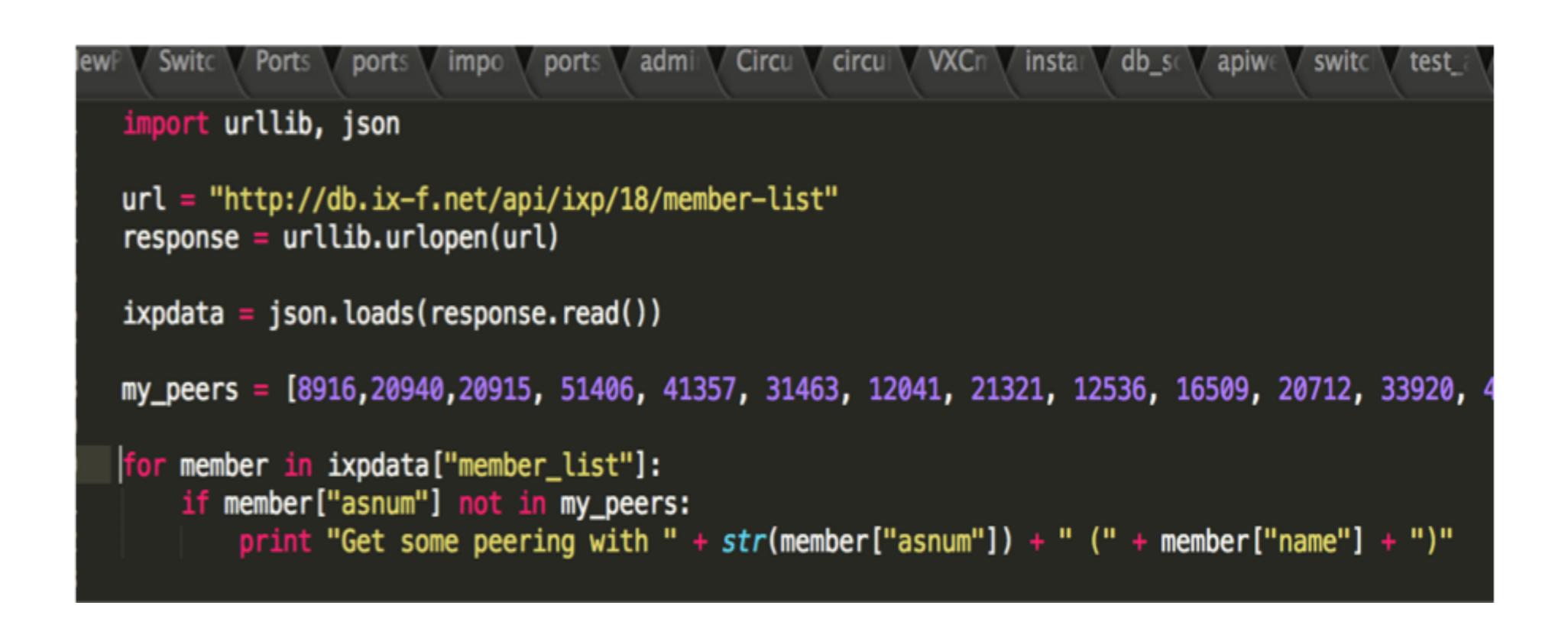
<u>euro-IX</u>

"url": "http://www.2connectbahrain.com/",





XP Database – use case



GOLO-IX



XP Database – use case

	ent	gma:ve	esktop	anoy∌		
I	eni	gma:De	esktop	andy\$	python	ixp
I	Get	some	peerin	g with	6871	(Plu
I	Get	some	peerin	g with	8689	(Pow
I	Get	some	peerin	g with	8676	(PRT
	Get	some	peerin	g with	28792	(Pu
	Get	some	peerin	g with	31402	(Ra
ł	Get	some	peerin	g with	35662	(Re
c	Get	some	peerin	g with	5552	(Red
đ	Get	some	peerin	g with	5503	(RM
5	Get	some	peerin	g with	51409	(Se
c	Get	some	peerin	g with	50056	(Ad
d	Get	some	peerin	g with	29550	(S1)
đ	Get	some	peerin	g with	48961	(Wa
			peerin			
B	Get	some	peerin	g with	44444	(We
			peerin			
ľ	Get	some	peerin	g with	13037	(Ze
			skton			

GOLO-IX

```
. ру
sNet)
erGroup (Power Internet Ltd))
Systems)
blic Internet Limited)
ink Interactive (Blue Square Limited))
dstation)
stone Communications Ltd)
Education Plc)
ctorsix)
vantage Interactive Ltd)
mply Transit Ltd.)
rwicknet Ltd)
bfusion)
bsense Hosted R&D Ltd. (UK))
finity)
n Internet)
```



- Contains both IXP data & IXP participant data
 - ASN (member list), locations, switch, RS, etc etc
- Open, consistent & a standard design
- Currently 24 IXP independent implementations

available at ml.ix-f.net)

- Open source implementation in IXP Manager
- Source available on GitHub;

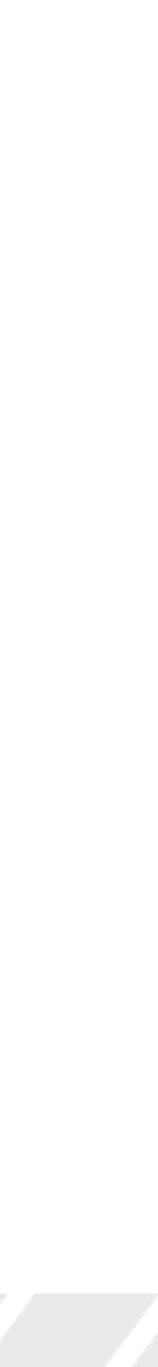
https://github.com/euro-ix/json-schemas

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XP Database – IXF Member List

(API includes data from euro-ix portal entered manually or via .csv, more options







Why not just use the IXPs own data?

EUIO-IX

- This gives you a single API for many IXPs
- Get the same format for all IXPs, its standard wohoo!
- Data is fed from the IXP IXPs have accurate data, they own it Portable, supportable and scaleable!





- Extend and internationalise the admin interface for all IXPAs (APIX, LAC-IX and AF-IX)
- Create bespoke maintained APIs •
- Future revisions to the database schema to capture more data





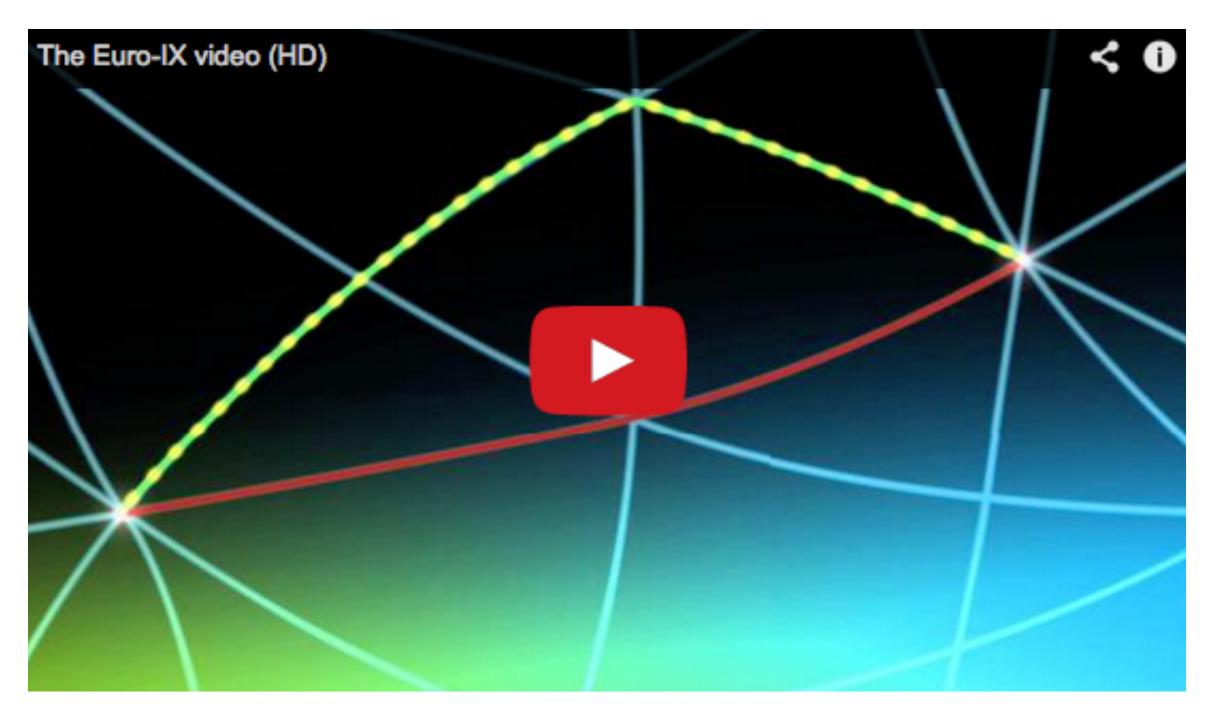
euro-IX

In search of accurate information

- Peering networks can go to two sources of data to guarantee accuracy
- Tools and portal available on the Euro-IX website, development for APIX, LAC-IX and AF-IX in 2018.
- IXPAs have regional reach to local IXPs
- The data is complementary to database services that the RIR/ NIRs & PeeringDB provide







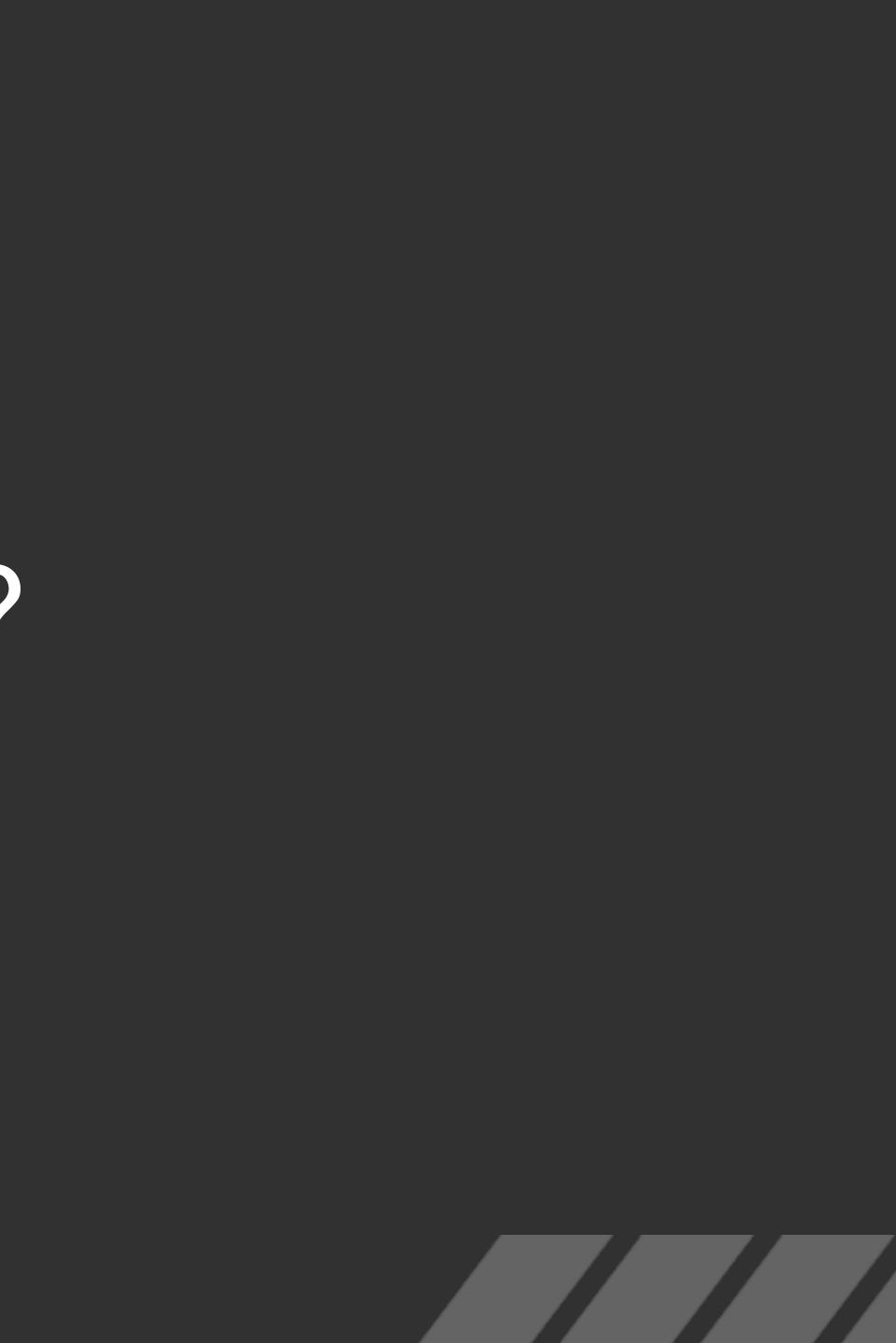
https://www.youtube.com/channel/UCFyucVRAAMzxyJlsxnGwsjw Available in French, German, Portuguese, Italian, Spanish, Romanian, Arabic, Russian, Czech, Greek and Mandarin! Interested in translating the video in your Language? Contact us!



> Internet Revealed, a film about IXPs



Questions?



Thank You!

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