



# Euro-IX update

NIX may 2017  
Oslo, Norway

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Kjetil Otter Olsen  
Euro-IX board member

# ➤ Association of IXPs

## 82 affiliated IXPs:

- 56 IXPs in the Euro-IX Region 49 Countries, operating over 100 Peering LANs
- 26 IXPs from the rest of the world
- Newest Members:  
Global-IX  
  
DataIX

# > Patrons

- Arista
- Brocade
- Ciena
- Coriant
- ECI Telecom
- Equinix | Telecity
- Extreme Networks
- Huawei
- Interxion
- Juniper Networks
- MRV
- Nokia
- Telehouse

# ➤ What do Euro-IX do?

- Maintain and develop the website, database and tools
  - [www.euro-ix.net](http://www.euro-ix.net)
- Annual European IXP Report
- Newsletter – Subscribe here:
  - [www.euro-ix.net/news-and-events/newsletter](http://www.euro-ix.net/news-and-events/newsletter)
- Two fora per year for member IXPs
- Part of IX-F, the international IX federation



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[IXP Service Matrix](#)  
[Peering Matrix](#)  
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**Welcome**  
We are a  
Exchange  
open inter  
experience  
of the me  
workshop  
online res  
Register for  
Learn more

**579 public IXPs around the world.** [View map](#)

Kjetil Olsen

- My Organisations
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May 2017

Su	Mo	Tu	We	Th	Fr	Sa
1	2	3	4	5	6	
7	8	9	10	11	12	13
14	15	16	17	18	19	20
21	22	23	24	25	26	27
28	29	30	31			

**Latest News**

**APRIL NEWSLETTER** APRIL 13, 2017

The 30th forum hosted by CATNIX was a success and we extend our thanks to the CATNIX team. Read what they have to say about hosting the 30th forum, 15 years after hosting the first one [here](#) in the latest newsletter.

**BMC 2016 CLOSED** APRIL 2, 2017

The BMC survey is now closed. We thank those who took part and look forward to sharing an informative report with you.

Euro-IX Affiliated IXPs [See All »](#)

# > IXP Database

## 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

## Organization Profile

### Amsterdam Internet Exchange B.V.

[General](#) [Introduction](#) [Contacts](#) [IXPs](#) [Users](#)

NAME	COUNTRY
<a href="#">AMS-IX Bay Area</a>	United States of America
<a href="#">AMS-IX Caribbean</a>	Netherlands Antilles
<a href="#">AMS-IX Chicago</a>	United States of America
<a href="#">AMS-IX Hong Kong</a>	China
<a href="#">AMS-IX India</a>	India
<a href="#">AMS-IX New York</a>	United States of America
<a href="#">Amsterdam Internet Exchange</a>	Netherlands

# > IXP Database

## 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)

Traffic

Automations

ASN Link	<input checked="" type="checkbox"/>
Traffic Link	<input type="checkbox"/>

# > IXP Database

ASN Database		
Stats	Search	Recent
IXP PARTICIPANTS	IPV6	UNIQUE ASNS
EURO-IX		
8715	5488	4478
APIX		
1513	447	929
AF-IX		
335	64	296
LAC-IX		
1883	1258	1385
NORTH AMERICA		
2195	538	1086
GLOBAL		
14641	7795	7755

# > IXP Database

ASN Database

[Stats](#) [Search](#) [Recent](#) [Common](#)

**Search**

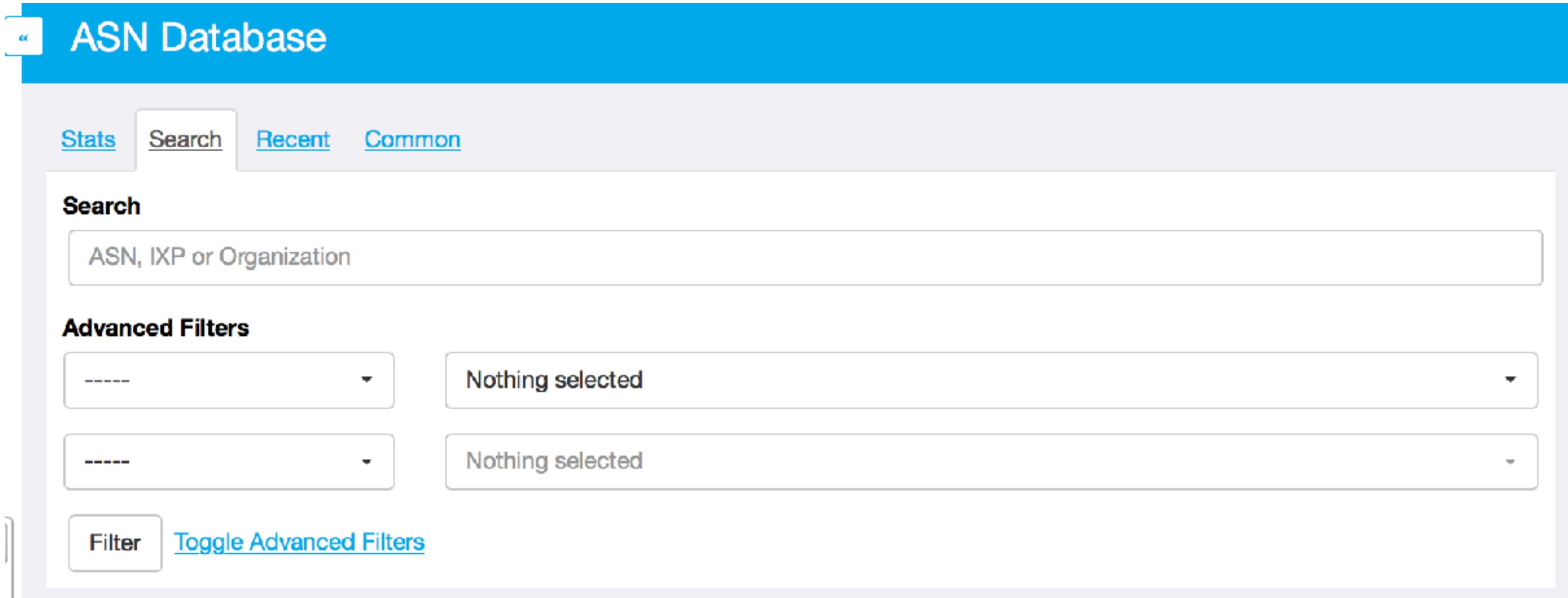
ASN, IXP or Organization

**Advanced Filters**

----- Nothing selected

----- Nothing selected

[Filter](#) [Toggle Advanced Filters](#)



# > IXP Database

## ASN Database

[Stats](#) [Search](#) [Recent](#) [Common](#)

AS#	COMPANY	PRESENT AT	IPV6
<a href="#">6939</a>	<a href="#">HE</a>	<a href="#">80</a>	(Y)
<a href="#">20940</a>	<a href="#">Akamai</a>		(Y)
<a href="#">15169</a>	<a href="#">Google</a>		(Y)
<a href="#">3856</a>	<a href="#">Packet Clearing House</a>		
<a href="#">42</a>	<a href="#">WoodyNet</a>		
<a href="#">8075</a>	<a href="#">Microsoft</a>		
<a href="#">22822</a>	<a href="#">Limelight Networks, Inc.</a>		
<a href="#">10310</a>	<a href="#">Yahoo Inc. (B)</a>		
<a href="#">13335</a>	<a href="#">CloudFlare</a>		
<a href="#">16509</a>	<a href="#">Amazon</a>		
<a href="#">26415</a>	<a href="#">VeriSign Netherlands BV</a>		
<a href="#">15133</a>	<a href="#">Edgecast</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  
DE-CIX Hamburg  
DE-CIX Marseille  
DE-CIX Munich  
DE-CIX New York  
DIX - Lyngby  
ECIX Berlin

# IXP Database

## Peering Matrix

[CSV Download](#)

	Total listed ASNs	ASNs that don't peer at other IXPs	% of ASNs that don't peer at other IXPs	ASNs that peer at other IXPs	% of ASNs that peer at other IXPs	ALB-IX	AMS-IX	AMS-IX Caribbean	ARMINX	Angonix	BBIX - Hong Kong	BBIX - Tokyo	BCIX	BIX.BG	BNIX	BIX	CATNIX	CHN-IX	CIX	Cr
<a href="#">AMS-IX</a>	79.77	0	<u>796</u>	<u>2</u>	0	0	0	0	<u>2</u>	<u>37</u>	<u>22</u>	<u>19</u>	<u>17</u>	<u>11</u>	0	<u>4</u>	<u>19</u>	0	0	
<a href="#">AMS-IX Caribbean</a>	30.77	0	<u>2</u>	<u>13</u>	0	0	0	0	<u>1</u>	<u>1</u>	<u>1</u>	0	0	<u>1</u>	0	<u>1</u>	0	0	0	
<a href="#">ARMINX</a>	0.00	0	0	0	<u>10</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<a href="#">Angonix</a>	50.00	0	0	0	0	<u>2</u>	0	0	0	0	0	0	0	0	0	0	0	0	0	
<a href="#">BBIX - Tokyo</a>	62.50	0	<u>2</u>	<u>1</u>	0	0	0	0	<u>8</u>	<u>2</u>	<u>2</u>	0	<u>1</u>	<u>1</u>	0	0	0	0	0	
<a href="#">BCIX</a>	70.89	0	<u>37</u>	<u>1</u>	0	0	0	0	<u>2</u>	<u>79</u>	<u>8</u>	<u>3</u>	<u>4</u>	<u>4</u>	0	<u>2</u>	<u>2</u>	0	0	
<a href="#">BIX.BG</a>	58.33	0	<u>22</u>	<u>1</u>	0	0	0	0	<u>2</u>	<u>8</u>	<u>72</u>	<u>1</u>	<u>4</u>	<u>3</u>	0	<u>3</u>	0	0	0	
<a href="#">BNIX</a>	53.33	0	<u>19</u>	0	0	0	0	0	0	<u>3</u>	<u>1</u>	<u>45</u>	<u>4</u>	<u>2</u>	0	0	<u>3</u>	<u>3</u>	0	
<a href="#">BIX</a>	42.86	0	<u>17</u>	0	0	0	0	0	<u>1</u>	<u>4</u>	<u>4</u>	<u>4</u>	<u>49</u>	<u>2</u>	0	<u>1</u>	<u>1</u>	0	0	
<a href="#">CATNIX</a>	37.50	0	<u>11</u>	<u>1</u>	0	0	0	0	<u>1</u>	<u>4</u>	<u>3</u>	<u>2</u>	<u>2</u>	<u>32</u>	0	<u>3</u>	<u>1</u>	0	0	
<a href="#">CIX</a>	37.50	0	<u>4</u>	<u>1</u>	0	0	0	0	0	<u>2</u>	<u>3</u>	0	<u>1</u>	<u>3</u>	0	<u>32</u>	0	0	0	
<a href="#">CIXP</a>	75.00	0	<u>19</u>	0	0	0	0	0	0	0	<u>2</u>	<u>0</u>	<u>3</u>	<u>1</u>	<u>1</u>	0	0	0	<u>36</u>	0
<a href="#">DE-CIX Frankfurt</a>	72.48	0	<u>385</u>	<u>1</u>	0	<u>1</u>	0	<u>2</u>	<u>46</u>	<u>26</u>	<u>17</u>	<u>17</u>	<u>8</u>	0	<u>5</u>	<u>15</u>	0	0	0	
<a href="#">DIX - Lyngby</a>	59.09	0	<u>22</u>	<u>1</u>	0	0	0	<u>2</u>	<u>5</u>	<u>2</u>	<u>4</u>	<u>2</u>	<u>2</u>	0	0	0	<u>3</u>	0	0	
<a href="#">ECIX Berlin</a>	83.67	0	<u>24</u>	<u>1</u>	0	0	0	<u>2</u>	<u>22</u>	<u>5</u>	<u>1</u>	<u>3</u>	<u>1</u>	0	<u>1</u>	<u>0</u>	0	<u>1</u>	0	
<a href="#">Equinix Paris</a>	83.38	0	<u>131</u>	<u>1</u>	0	0	0	<u>2</u>	<u>19</u>	<u>10</u>	<u>8</u>	<u>5</u>	<u>6</u>	0	<u>2</u>	<u>7</u>	0	0	0	
<a href="#">Equinix Zurich</a>	98.95	0	<u>69</u>	<u>1</u>	0	0	0	<u>2</u>	<u>10</u>	<u>7</u>	<u>4</u>	<u>2</u>	<u>3</u>	0	<u>1</u>	<u>2</u>	0	<u>1</u>	<u>2</u>	
<a href="#">FICIX - Helsinki</a>	56.67	0	<u>9</u>	0	0	0	0	0	<u>2</u>	<u>1</u>	<u>2</u>	<u>2</u>	<u>1</u>	0	0	<u>1</u>	<u>1</u>	0	0	
<a href="#">FVG-IX</a>	75.00	0	<u>3</u>	0	0	0	0	0	<u>1</u>	<u>1</u>	<u>1</u>	0	0	0	0	0	0	0	0	
<a href="#">France-IX Paris</a>	89.80	0	<u>113</u>	<u>1</u>	0	0	0	<u>2</u>	<u>17</u>	<u>8</u>	<u>12</u>	<u>7</u>	<u>6</u>	0	<u>2</u>	<u>5</u>	0	0	0	

# > IXP Database

## IXP Service Matrix

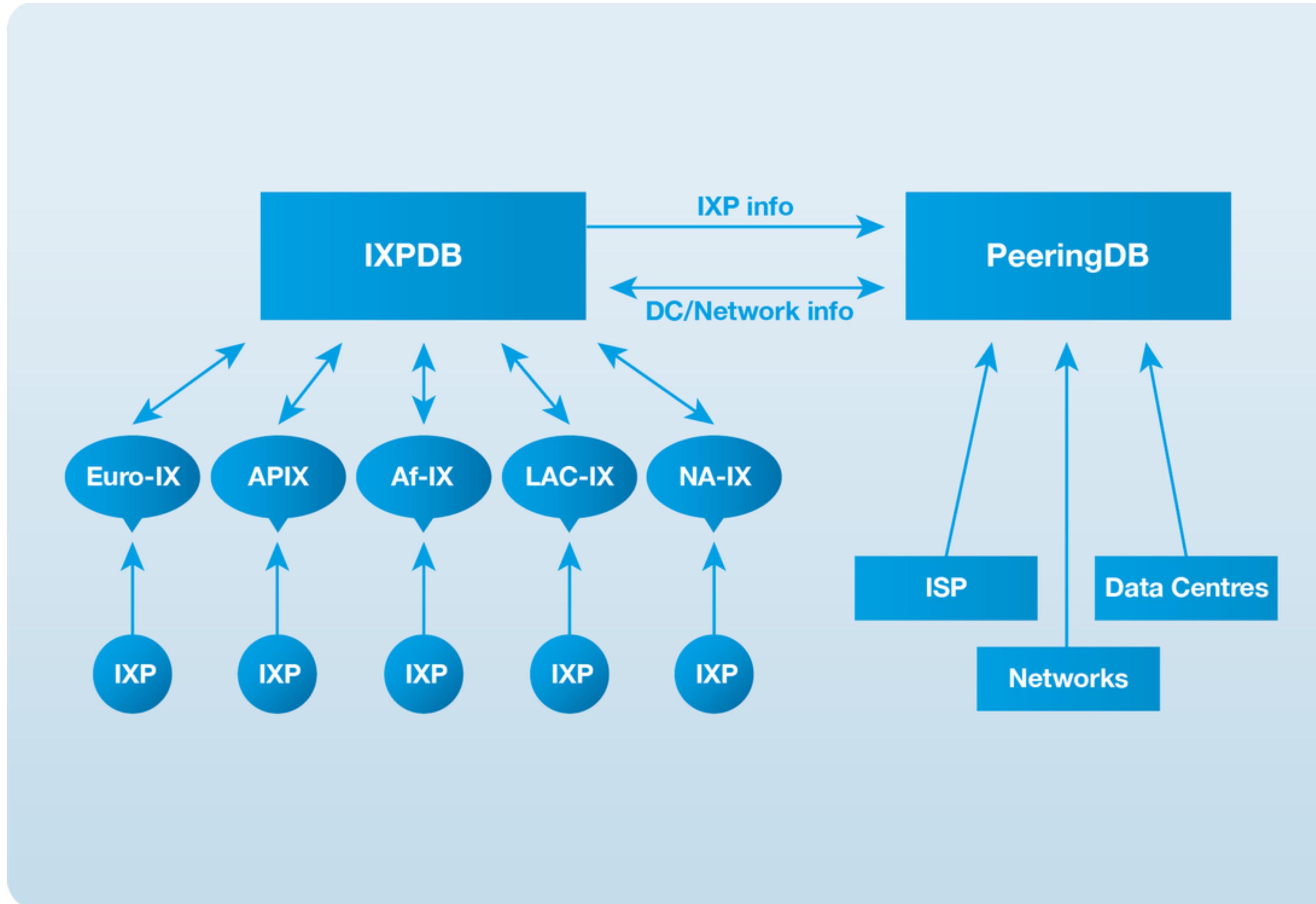
[CSV Download](#)

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

# ➤ IXP Database – where are we?

- Automation is the way to go!
- IX-F project to collect and make available IXP information
- Database schema is in place for IXPs to record their information about themselves and the operators they serve
- IXP API is live - <https://db.ix-f.net/api/ixp>

# ➤ IX-F IXP-database



# Thank You!