



**PeeringDB**

# PeeringDB Update

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# Agenda

1. What is PeeringDB?
2. Organizational Update
3. Recent Developments & Product Update
4. What is next?
5. Feedback

# What is PeeringDB?

**Mission statement:** "PeeringDB, a nonprofit member-based organization, facilitates the exchange of user maintained interconnection related information, primarily for Peering Coordinators and Internet Exchange, Facility, and Network Operators."

- A PeeringDB record makes it easy for people to find you, and helps you to establish peering
- If you aren't registered in PeeringDB, you can register at <https://www.peeringdb.com/register>
- We use basic verification for new accounts and require current whois information, so please
  - Update and maintain your whois information
  - Register from an email address associated with your ASN /company



# What is PeeringDB?

## Why should my exchange, network or facility be listed in PeeringDB?

- Helps establish new peering more efficiently, with all information easy to find in one place
  - Maintain all of your contact and connection info
  - Find other network's peering contact and connection info
  - Find interconnection facility and IXP info
- A PeeringDB record is required by many networks to peer
- Can be used for automation to generate router configurations
  - Initial configuration to setup peering quickly
  - Update configuration if maximum prefixes change

# Database Record Statistics (as of 5 Nov 2019)

	2.0 Launch 2016-03-15	2016-12-31	2017-12-31	2018-12-31	2019-08-01	2019-11-05
Exchanges	630	556	614	661	662	707
Networks	5,881	8,116	11,327	14,179	15,932	16,970
Facilities	1,957	2,130	2,635	2,834	2,991	3,399
Organizations	7,490	9,132	11,917	14,402	15,992	16,675
Users	7,866	11,486	15,538	19,668	22,152	23,289

- Strong growth continues since PeeringDB 2.0 launch
  - Lower IXP count in 2016 due to database cleanup
- Users number indicates registered users affiliated with an organization
  - Not an indication of total PeeringDB users

# (Partial) RIPE region from PeeringDB's Point of View

Country	IX	Facilities	Networks at IXes	Networks in Facilities	Networks total	Networks in PeeringDB	Networks in RIR
<b>RU</b>	<b>37</b>	<b>79</b>	<b>432</b>	<b>249</b>	<b>487</b>	<b>512</b>	<b>6254</b>
<b>DE</b>	<b>27</b>	<b>195</b>	<b>1153</b>	<b>956</b>	<b>1427</b>	<b>769</b>	<b>2703</b>
<b>FR</b>	<b>16</b>	<b>151</b>	<b>530</b>	<b>490</b>	<b>659</b>	<b>438</b>	<b>1514</b>
<b>PL</b>	<b>14</b>	<b>54</b>	<b>575</b>	<b>446</b>	<b>619</b>	<b>592</b>	<b>2564</b>
<b>GB</b>	<b>14</b>	<b>186</b>	<b>838</b>	<b>876</b>	<b>1131</b>	<b>746</b>	<b>2738</b>
<b>SE</b>	<b>14</b>	<b>45</b>	<b>232</b>	<b>208</b>	<b>294</b>	<b>180</b>	<b>820</b>
<b>UA</b>	<b>13</b>	<b>33</b>	<b>171</b>	<b>115</b>	<b>192</b>	<b>192</b>	<b>2229</b>
<b>NL</b>	<b>12</b>	<b>126</b>	<b>1058</b>	<b>764</b>	<b>1261</b>	<b>419</b>	<b>1410</b>
<b>IT</b>	<b>10</b>	<b>65</b>	<b>332</b>	<b>266</b>	<b>388</b>	<b>283</b>	<b>1120</b>
<b>CH</b>	<b>9</b>	<b>56</b>	<b>269</b>	<b>232</b>	<b>343</b>	<b>220</b>	<b>917</b>
<b>NO</b>	<b>7</b>	<b>37</b>	<b>76</b>	<b>66</b>	<b>97</b>	<b>72</b>	<b>361</b>
<b>ES</b>	<b>7</b>	<b>37</b>	<b>197</b>	<b>206</b>	<b>262</b>	<b>178</b>	<b>1112</b>
<b>BG</b>	<b>6</b>	<b>19</b>	<b>102</b>	<b>92</b>	<b>140</b>	<b>78</b>	<b>776</b>

*Table: Top 13 countries in RIPE region - based on number of IXs - data as seen on 4 November 2019*

# Organizational Update - Board of Directors and Officers



Chris Caputo – Secretary & Treasurer  
(Non-Board Member)



Patrick Gilmore – Director  
(Term Expires 2021)



Aaron Hughes – President  
(Term Expires 2020)



Fredrik Korsbäck – Director  
(Term Expires 2021)



Bijal Sanghani – Director  
(Term Expires 2021)



Job Snijders – Vice President  
(Term Expires 2020)

# Committees

Admin Committee	Operations Committee	Outreach Committee	Product Committee
<ul style="list-style-type: none"><li>• Manage administration of user accounts and PeeringDB records</li><li>• Answer support tickets</li><li>• Cleansing and completion of PeeringDB records</li></ul> <p>Leads: Stefan Funke (Chair)</p> <p>Contact: <a href="mailto:admincom@lists.peeringdb.com">admincom@lists.peeringdb.com</a></p>	<ul style="list-style-type: none"><li>• Manage PeeringDB infrastructure</li></ul> <p>Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair)</p> <p>Contact: <a href="mailto:pdb-ops@lists.peeringdb.com">pdb-ops@lists.peeringdb.com</a></p>	<ul style="list-style-type: none"><li>• Manage marketing and social media</li><li>• Develop and maintain presentations, workshops and webinars</li><li>• Coordinate presentations and attendance at events</li></ul> <p>Leads: Greg Hankins (Chair) and Bijal Sanghani (Vice Chair)</p> <p>Contact: <a href="mailto:outreachcom@lists.peeringdb.com">outreachcom@lists.peeringdb.com</a></p>	<ul style="list-style-type: none"><li>• Manage roadmap and development priorities</li><li>• Ask for input from the community on desired features</li><li>• Write SoWs to solicit bids to complete requested features</li></ul> <p>Leads: Stephen McManus (Chair) and Matt Griswold (Vice Chair)</p> <p>Product Manager: Filiz Yilmaz</p> <p>Contact: <a href="mailto:productcom@lists.peeringdb.com">productcom@lists.peeringdb.com</a></p>



# Product Committee



Stephen McManus –  
Chair



Matt Griswold –  
Vice Chair



Shane  
Kerr



Job  
Snijders



Arnold  
Nipper



Greg Hankins –  
Outreach Liaison



Aaron Hughes –  
Board Liaison



Filiz Yilmaz –  
Product Manager



Greg  
Villain

# Recent Developments - Highlights

## Product Committee Decision Making process

- Renewed process to act faster on issues

- Product Committee Members to shepherd discussions

- Logging decisions on Github for info dissemination and transparency purposes

## Translations

- Process documented internally to streamline the release of translated strings

- Languages will be released at 80% maturity level

- Working on external website to help translators - ongoing

## Vendor selection Process

- Currently under discussion

- Increase vendor diversity

# Product Update - Highlights

Focusing on the Backlog issues, bugs and translations

Recent versions:

2.15 released on 28 August 2019

2.16 released on 18 September 2019

Changes due to specific issues:

<https://github.com/peeringdb/peeringdb/issues?utf8=%E2%9C%93&q=is%3Aissue+milestone%3A2.15.0>

<https://github.com/peeringdb/peeringdb/issues?utf8=%E2%9C%93&q=is%3Aissue+milestone%3A2.16.0>

Fixes for:

- IANA reserved ASNs are not listed in PeeringDB
- Better IP address validation
- Links to maps.google.com in translations
- Oauth correctly sets next url (had priority due to IXP Manager release)  
[ Info on Oauth at <https://docs.peeringdb.com/oauth/> ]
- Newlines in Javascript Markdown renderer behave same as in the python renderer

# Product Update - Highlights - Next Release

Issues planned for Next release:

<https://github.com/peeringdb/peeringdb/issues?utf8=✓&q=milestone%3A%22Next+Release%22>

Issues planned for Next release AND Closed:

<http://beta.peeringdb.com/changes>

Fixes for:

- Better (error) messages to be returned to users trying to add a previously “deleted” object
- Sponsorship control panel will be changed to allow more than one /org/ record to be tied to a single sponsorship
- Fix of an encoding error
- PeeringDB stats bug fixes

# Translations

translate.peeringdb.com

PeeringDB Translations Dashboard Projects Languages Register Login

PeeringDB translated 60%

Components Languages Info Search Glossaries Insights Tools Share

<b>Project website</b>	<a href="https://peeringdb.com">https://peeringdb.com</a>
<b>Instructions for translators</b>	<a href="https://docs.peeringdb.com/translation/">https://docs.peeringdb.com/translation/</a>
<b>Translation license</b>	PeeringDB License
<b>Number of strings</b>	13166
<b>Number of words</b>	76285
<b>Number of languages</b>	19
<b>Number of source strings</b>	693
<b>Number of source words</b>	4015

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## PeeringDB

translated 60%

Components Languages Info Search Glossaries Insights Tools Share

Language	Translated	Words
Arabic	59.8%	45.8%
Chinese (Simplified)	93.5%	81.4%
Chinese (Traditional)	90.3%	80.3%
Czech	77.1%	60.3%
Danish	27.1%	13.5%
English (United States)	0.0%	0.0%
French	81.5%	67.0%
German	99.7%	99.9%
Greek	82.0%	68.3%
Indonesian	0.0%	0.0%
Italian	79.2%	66.3%
Japanese	89.6%	84.9%
Portuguese	88.6%	78.9%
Romanian	97.4%	96.2%
Russian	80.4%	65.7%
Spanish (Spain)	86.9%	82.0%
Telugu	0.0%	0.0%
Thai	0.0%	0.0%
Turkish	11.5%	4.4%

# Product Update - Current Discussions

Focus still on the Backlog (bug fixes, translations, user interfacing response fixes) in 2019

Discussions on

- IX-F importer

- Data deletion and how to retain deleted data for R&D purposes

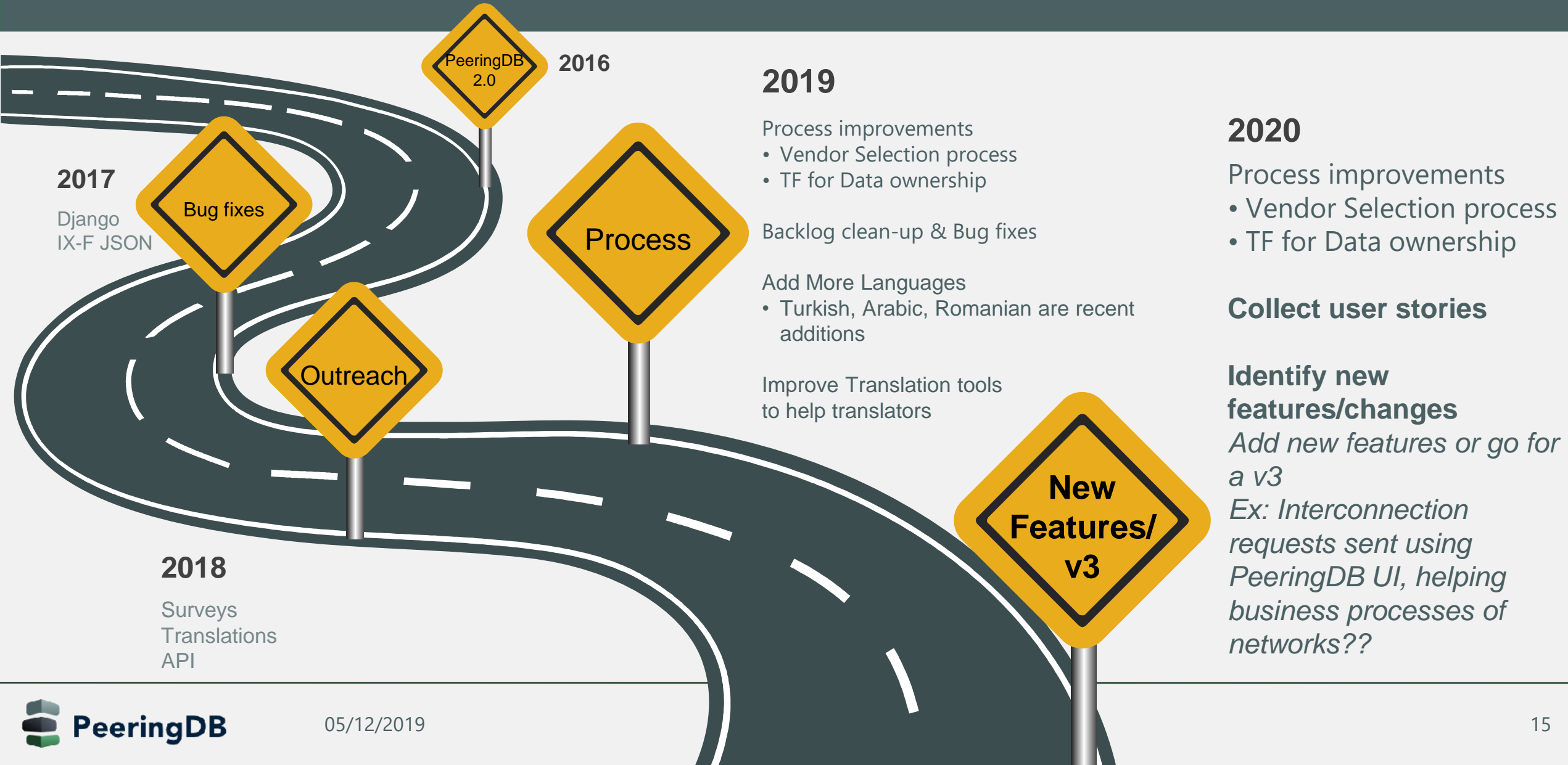
Data ownership

- Who owns the data when more than one party involved (ex: ixfac, ixlan, netfac etc)?

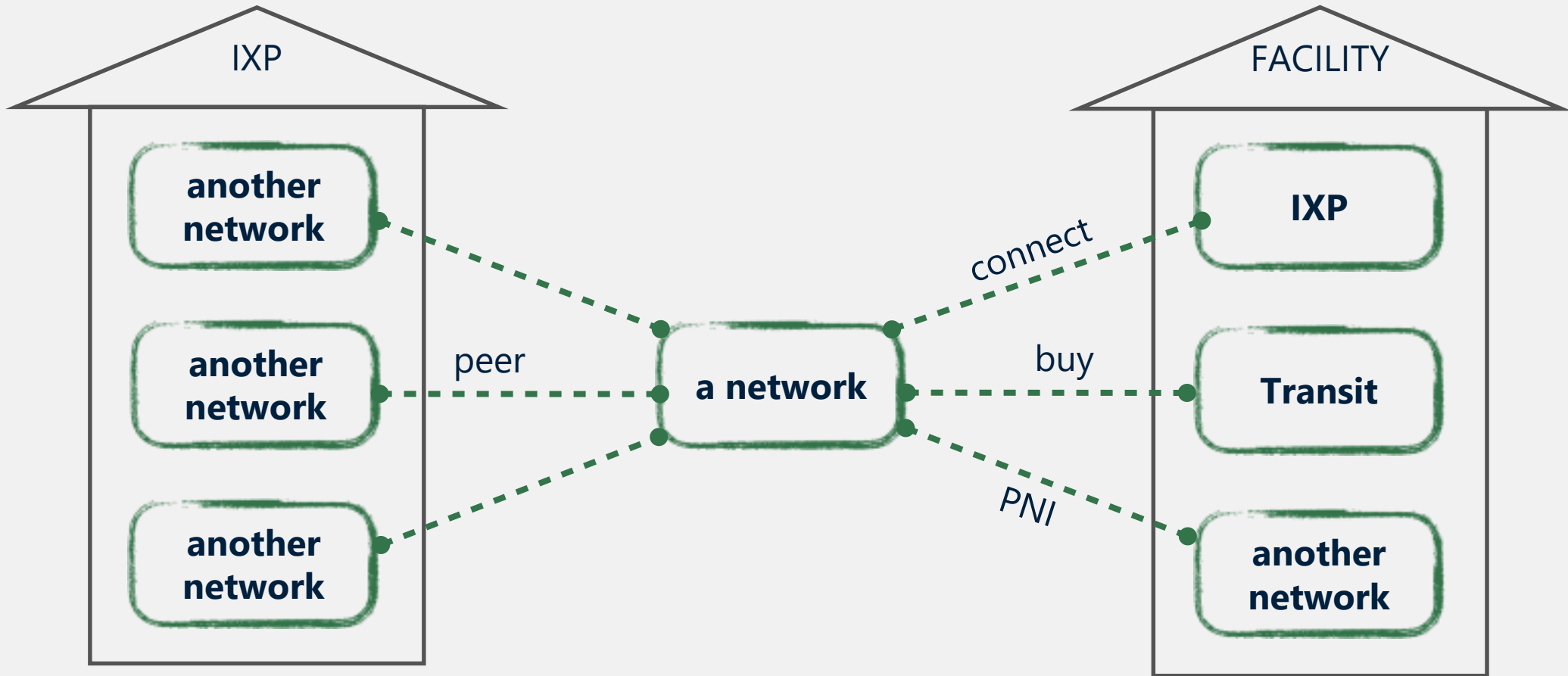
- Established a Task Force to work on a policy document

- Follow developments at <https://docs.peeringdb.com/taskforce/dataownership/>

# Putting it all together and what next?



# A possible future or a very crazy idea?: Facilitating Business work processes of a Network over PeeringDB





# At a facility there are others: IXs & Networks

**PeeringDB**  [Advanced Search](#) [Register or](#) [Login](#)

## NIKHEF Amsterdam

Organization	Nikhef
Website	<a href="http://www.nikhef.nl">http://www.nikhef.nl</a>
Address 1	Science Park 105
Address 2	
Location	Amsterdam, NH, 1098 XG
Country Code	NL
Geocode	52.356394, 4.950837
CLLI Code	AMSTNL
NPA-NXX	
Notes	

**Local Exchanges**

Exchange	IX Ports	Networks
<a href="#">AMS-IX</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	818
<a href="#">Asteroid Amsterdam</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	28
<a href="#">DATAIX</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	193
<a href="#">DF-IX</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	28
<a href="#">GE-CIX</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	2
<a href="#">Global-IX</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	74
<a href="#">GN-IX</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	3
<a href="#">Hopus</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	25
<a href="#">NetIX</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	49
<a href="#">NL-ix</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	332
<a href="#">Speed-IX</a>	<input type="checkbox"/> 10G <input type="checkbox"/> 100G	110


**Networks**

Peer Name	ASN
<a href="#">1&amp;1 Internet</a>	8560
<a href="#">23media GmbH</a>	47447
<a href="#">2AT B.V.</a>	197219
<a href="#">3W Infra</a>	60144
<a href="#">A2B Internet</a>	8088
<a href="#">AC Webconnecting B.V.</a>	836
<a href="#">ACORUS NETWORKS</a>	280
<a href="#">Akamai Technologies</a>	840
<a href="#">All IP Europe B.V.</a>	8640
<a href="#">Alpha11 Global Network</a>	883
<a href="#">Amarutu Technology Ltd.</a>	6264
<a href="#">Amsterdam Internet Exchange</a>	800
<a href="#">ANETSIS.Net</a>	200455
<a href="#">Art Of Automation B.V.</a>	60893
<a href="#">Asteroid</a>	59964
<a href="#">atom86</a>	8455
<a href="#">WE PROVIDE TRANSIT INC (A Transit Provider)</a>	6774
<a href="#">BlackGATE</a>	201290
<a href="#">Breedband</a>	5524
<a href="#">BT</a>	5400
<a href="#">Cambri</a>	25596
<a href="#">Caveo I</a>	24642
<a href="#">CBizz B</a>	30925
<a href="#">CDN77</a>	60068
<a href="#">Circle B</a>	43861

**Callouts:**

- pop-up that appears for Asteroid when user hovers over or clicks a little button next to the name Asteroid** (points to Asteroid in Local Exchanges table)
- pop-up** (points to Asteroid in Networks table)
- Connect** (points to Connect button in Local Exchanges table)
- Connect** (points to Connect button in Networks table)
- pop-up** (points to Asteroid in Networks table)

# At an IX there are other Networks

 **PeeringDB**  [Register or](#) [Log in](#)  
[Advanced Search](#)

## Asteroid Amsterdam

Organization	<a href="#">Asteroid International B.V.</a>
Long Name	Asteroid Amsterdam IX
City	Amsterdam
Country	NL
Continental Region	Europe
Media Type	Ethernet
Protocols Supported	<input checked="" type="checkbox"/> Unicast IPv4 <input type="checkbox"/> Multicast <input checked="" type="checkbox"/> IPv6
Notes	Low cost exchange point in Amsterdam Science Park Euro-IX JSON schema is at: <a href="https://www.asteroidhq.com/api/v1/export/euroix/1/participa">https://www.asteroidhq.com/api/v1/export/euroix/1/participa</a> Networks located inside Interxion Science Park can order the cross-connect via Interxion's customer web portal.

### Contact Information

Company Website	<a href="https://www.asteroidhq.com/ixp-locations/1">https://www.asteroidhq.com/ixp-locations/1</a>
Traffic Stats Website	<a href="https://www.asteroidhq.com/statistics/1">https://www.asteroidhq.com/statistics/1</a>
Technical Email	<a href="mailto:info@asteroidhq.com">info@asteroidhq.com</a>
Technical Phone	
Policy Email	<a href="mailto:info@asteroidhq.com">info@asteroidhq.com</a>
Policy Phone	

### LAN

MTU	1500
DOT1Q	<input type="checkbox"/>

### Peers at this Exchange Point




Peer Name ▼ ASN	IPv4 IP	Speed
<a href="#">3W Infra Asteroid Amsterdam Peering LAN</a> 60144		
<a href="#">A2B Internet Asteroid Amsterdam Peering LAN</a> 51088	2001:718:b6::c790:1	Selective
<a href="#">Asteroid Asteroid Amsterdam Peering LAN</a> 59964	185.1.94.1 2001:718:b6::1	10G Open
<a href="#">Asteroid Route Servers Asteroid Amsterdam Peering LAN</a> 41693	185.1.94.2 2001:718:b6::2	10G Open
<a href="#">atom86 Asteroid Amsterdam Peering LAN</a> 8455	185.1.94.31 2001:718:b6::2107:1	10G Selective
<a href="#">BICS Asteroid Amsterdam Peering LAN</a> 6774	185.1.94.34 2001:718:b6::1a76:1	10G Selective
<a href="#">Cambrium BV Asteroid Amsterdam Peering LAN</a> 25596	185.1.94.26 2001:718:b6::63fc:1	10G Open
<a href="#">CloudMerge Asteroid Amsterdam Peering LAN</a> 202932	185.1.94.14 2001:718:b6::3:18b4:1	10G Open
<a href="#">Eventinfra Asteroid Amsterdam Peering LAN</a> 64404	185.1.94.27 2001:718:b6::fb94:1	10G Open
<a href="#">G-Core Labs S.A. Asteroid Amsterdam Peering LAN</a>	185.1.94.35 2001:718:b6::3:b64:1	100G Open

**Pop-up**  
**Send Peering Request**

# Want to help?

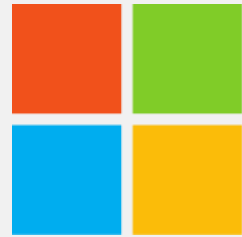
- Provide feedback on bugs you notice and features you want to see on PeeringDB: Create a GitHub issue at <https://github.com/peeringdb/peeringdb/issues>
- Volunteer to translate - <https://translate.peeringdb.com/>
- Volunteer actively taking part in a Committee of your choice!

# Information and Resources

- Announce list: <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-announce>
- Governance list: <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov>
- Technical list: <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-tech>
- User Discuss list: <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/user-discuss>
- Docs, presentations, guides, tools: <http://docs.peeringdb.com/>
- Board and Officers: [stewards@lists.peeringdb.com](mailto:stewards@lists.peeringdb.com)
- Admins: [support@peeringdb.com](mailto:support@peeringdb.com)
- Presentation requests: [outreachcom@lists.peeringdb.com](mailto:outreachcom@lists.peeringdb.com)
- Uptime status: <http://status.peeringdb.com/>
-  Bugs and feature requests: <https://github.com/peeringdb/peeringdb/>
- Social media:
  -  <https://www.facebook.com/peeringdb/>
  -  <https://www.linkedin.com/company/peeringdb>
  -  [@PeeringDB](https://twitter.com/PeeringDB)

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**PeeringDB**

Thank you  
& Don't forget your t-shirt!

