



# PeeringDB

Arnold Nipper  
[arnold@peeringdb.com](mailto:arnold@peeringdb.com)

es.NOG

Grupo de Operadores  
de Red Españoles

# Agenda

- **PeeringDB 2.0**
- Membership and Governance
- Committees
- Sponsorship
- Information and Resources

# What is PeeringDB?

- PeeringDB is the database of peering information on the Internet
- Contains peering location and contact information for
  - Networks
  - Exchanges
  - Facilities
- 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
  - Please update your whois information
  - Please register from a company email address

# PeeringDB 2.0 is Here!

- PeeringDB 2.0 launched 15 March, 2016
  - Backend database (1.0) discontinued simultaneously
  - Last legacy SQL dump for public consumption:  
<https://peeringdb.com/v1/dbexport/peeringdb.sql>
  - Investigating 404s for old SQL to contact users
  - Questions to [support@peeringdb.com](mailto:support@peeringdb.com)
- Challenges during the launch
  - Very minor bug fixes required, but overall a success!
  - Lots of support tickets
  - 20C (developer contractor) very responsive to community - thanks!
- Current release: 2.0.14
- Release 2.1.1 will be out on 12 Apr, 2017

# Vital Statistics and Growth

PeeringDB 2.0 Post-Launch (March 15, 2016 through December 31, 2016)



## Usage (December 2016)

Total Hits	8,587,768
Avg. Daily Hits	277,024
Unique Hits	61,173

## Support Tickets

Total Support Tickets	6,715
Avg. Tickets Per Day	22
Avg. Response Time	Less than 14 Hours

# Key New Infrastructure Features

- Complete rewrite in Python
  - Python: fast and clean, widely used and supported
  - HTML5: adaptive design for desktop and mobile
  - Support for a multideveloper environment
- Redesigned schema with data validation
  - All data is permissioned and editable
  - Input validation on fields: IP addresses, email addresses, etc.
  - Validation in PeeringDB record: dropdown box to select ASN at exchange
- Data versioning
  - Revision history for every data change
  - Easy to restore and roll back
  - Historical data import from CAIDA going back to 2010 (not available yet)
- RESTful API
  - Stateless
  - Incremental database syncs
  - With documentation and tools, oh my!

PeeringDB Search here for a network, IX, or facility. [Advanced Search](#)

## CATNIX

Organization	<a href="#">CSUC</a>
Long Name	Catalunya Neutral Internet Exchange
City	Barcelona
Country	ES
Continental Region	Europe
Media Type	Ethernet
Protocols Supported	<input checked="" type="checkbox"/> Unicast IPv4 <input checked="" type="checkbox"/> Multicast <input checked="" type="checkbox"/> IPv6

Contact Information

Company Website	<a href="http://www.catnix.net">http://www.catnix.net</a>
Traffic Stats Website	<a href="http://www.catnix.net/en/statistics/">http://www.catnix.net/en/statistics/</a>
Technical Email	<a href="mailto:catnix@suport.csuc.cat">catnix@suport.csuc.cat</a>
Technical Phone	+34 93 205 64 64
Policy Email	<a href="mailto:catnix@suport.csuc.cat">catnix@suport.csuc.cat</a>
Policy Phone	+34 93 205 64 64

LANS

Name	DOT1Q	MTU
IPv4	193.242.98.0/24	
IPv6	2001:7f8:2a::/64	

Local Facilities

Facility	Country	City
<a href="#">bitNap Datacenter</a>	Spain	L'Hospitalet de Llobregat
<a href="#">CSUC Campus Nord</a>	Spain	Barcelona
<a href="#">Itconic Barcelona</a>	Spain	Barcelona

Peers at this Exchange Po

Peer Name ▼  
ASN

- [Acens Technologies](#)  
16371
- [ADAM](#)  
15699
- [Adamo Telecom Iberia S.A](#)  
35699
- [Altecom \(Alta Tecnologia en Comunicacions, S.L.\)](#)  
16030
- [bitNAP Datacenter](#)  
43578
- [BT Spain](#)  
12541
- [CATNIX-SERVICES](#)  
49638
- [Claranet](#)  
8426
- [Cloudflare](#)  
13335
- [Colt Technology Services](#)  
8220
- [CSUC](#)  
13041
- [Easynet Global Services](#)  
4589
- [EBRETIC ENGINYERIA SL](#)  
199496
- [Elnet Serveis i Comunicacions, S.L.](#)

# Key New User Features

- Facilities and exchanges can now update their own info
  - Networks are still required to associate their record at a facility or exchange
- Multiple records of any type can be associated with an organization
  - Simpler organization management with a single account for network, facility, exchange records
- One account can manage multiple organizations
  - Manage all of the things with a single account
- Users can manage their accounts
  - Admin account for an organization can delegate fine-grained permissions
- Contact info has permissions
  - Private/users/public permissions
  - All users must register, no more guest account
  - Public view can see all info except contact info (no login needed)
- APIs and local database sync
  - Sync PeeringDB to a local database in any engine format

# Multiple Records Under a Single Organization

**LINX** Silver Sponsor

Website	<a href="https://www.linx.net">https://www.linx.net</a>
Address 1	The London Internet Exchange Ltd
Address 2	5th Floor, 24 Monument Street
Location	London, , EC3R 8AJ
Country Code	GB

**Facilities** Filter

Name	Country	City
<a href="#">IXCardiff</a>	United Kingdom	Cardiff

**Networks** Filter

Name	ASN
<a href="#">LINX NoVA (LINX USA Inc.)</a>	21919
<a href="#">LINX Route Servers</a>	8714
<a href="#">London Internet Exchange (LINX)</a>	5459

**Exchanges** Filter

Name	Country	City
<a href="#">IXCardiff</a>	United Kingdom	Cardiff
<a href="#">IXManchester</a>	United Kingdom	Manchester
<a href="#">IXScotland</a>	United Kingdom	Scotland
<a href="#">LINX LON1</a>	United Kingdom	London
<a href="#">LINX LON2</a>	United Kingdom	London
<a href="#">LINX NoVA</a>	United States of America	Northern Virginia

**Exchanges are Shown Here**  
LINX has 6 Exchange Records

**Facilities are Shown Here**  
LINX has 1 Facility

**Networks are Shown Here**  
LINX has 3 Network Records



# One Account Managing Multiple Organizations

The screenshot shows the PeeringDB website interface. At the top left is the PeeringDB logo. To its right is a search bar with the text "Search here for a network, IX, or facility." and a link for "Advanced Search". In the top right corner, the word "job" is circled in blue, indicating the current account. Below the search bar is a form titled "Affiliate with Organization". The form contains two input fields: "ASN" and "Organization", followed by an "Affiliate" button. Below the form is a section titled "Existing Affiliations" which lists four approved affiliations: "NTT Communications (Global)", "NLNOG RING", "Netwerkvereniging Coloclue", and "Snijders IT". A blue arrow points from the "job" account label to the "Existing Affiliations" section.

**Account "job" is  
Affiliated with 4  
Organizations**

# Request Ownership of an Existing Organization

- Network records should already have an organization admin copied from PeeringDB 1.0
- Facility and exchange records will need to have an organization admin assigned

The screenshot shows the PeeringDB interface. At the top left is the PeeringDB logo. A search bar contains the text "Search here for a network, IX, or facility." To the right of the search bar is the user name "ghankins-example" and a menu icon. Below the search bar, there is a link for "Advanced Search" and a blue callout box that says "Click 'Request Ownership' Generates a Support Ticket for Validation and Approval". An arrow points from this callout to a button labeled "Request Ownership" which is highlighted with a blue border. On the left side, there is a table for the organization "Example-IX". On the right side, there is a section titled "Peers at this Exchange Point" with a "Filter" input field. Below this, a table header shows "Peer Name", "ASN", "IPv4", "IPv6", "Speed", and "Policy". The table content displays the message "Nothing matched your filter. You may filter by Exchange, ASN, Policy or Speed".

PeeringDB

Search here for a network, IX, or facility.

ghankins-example

Advanced Search

Click "Request Ownership" Generates a Support Ticket for Validation and Approval

Request Ownership

Organization	<a href="#">Example-IX</a>
Long Name	Example-IX, the only ATM multicast IX on the planet!
City	Atlanta
Country	US
Continental Region	North America
Media Type	ATM
Protocols Supported	<input type="radio"/> Unicast IPv4 <input checked="" type="radio"/> Multicast <input type="radio"/> IPv6

Peers at this Exchange Point

Filter

Peer Name	ASN	IPv4	IPv6	Speed	Policy
Nothing matched your filter You may filter by <b>Exchange</b> , <b>ASN</b> , <b>Policy</b> or <b>Speed</b>					

# Organization User Management

**Approve or Deny Pending Requests**

**Delegate Permissions for Members**  
Admins Have Access to Everything

Manage

[Add Facility](#) [Add Network](#) [Add Exchange](#) **Users** **Permissions**

**Users requesting affiliation**

Name	Email	Date
User	Confirmed	

Currently no users requesting affiliation with Nokia IP/Optical Networks Labs

**Users in Organization**

Name	Email	Group	
User			
Greg Hankins ghankins	greg.hankins@alcatel-lucent.com	admin member admin	Remove Save

**Change User Access Levels**  
Admin – Administrator  
Member – Delegate Permissions

**Remove Users From the Organization**  
Does not Remove the User Account From PeeringDB

# Administrative Permission Delegation

User “equinix-uk” can Manage Several Network Records, but no Exchanges or Facilities

User	Record Type	Create	Update	Delete
Paul Cairney <paul.cairney@eu.equinix.com> equinix-uk	Network - Equinix Netherlands	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Network - Equinix UK	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Network - Equinix Germany	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Network - Equinix France	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
	Network - Equinix Switzerland	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Any Exchange	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Raphael Ho <raphael.ho@ap.equinix.com> rho	Network - Equinix Connect	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Any Exchange	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Any Facility	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	Any Exchange	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

**Create – New Entries in Record**  
**Update – Change Existing Entries in Record**  
**Delete – Delete Entries in Record**

User “rho” can Manage the “Equinix Connect” Network Record, and Any Exchange or Facility

# Network Record Contact Information Permissions

Contact Information

Role	Name	Phone
<input checked="" type="checkbox"/> NOC	Greg Hankins, Alastair	
	Users	as38016@alcatel-lucent.com
<input checked="" type="checkbox"/> Technical	Greg Hankins, Alastair	
	Users	as38016@alcatel-lucent.com

Role: Abuse

Name:

Email: name@example.com

Phone:

Visibility: Private

- Private
- Users
- Public

## Separate Visibility Preferences for Each Role

Private – Organization Only (Default)

Users – Registered Users Only

Public – Anyone (no Login Required)

### Roles:

Abuse

Policy

Technical

NOC

Public Relations

Sales

# RESTful API Designed for Automation

- All operations are supported and are designed to be automated
  - Read
  - Create
  - Update
  - Delete
- Each object type has an associated tag
  - org
  - net
  - ix
  - fac
- List of objects: <https://peeringdb.com/apidocs/>
- API documentation: [http://docs.peeringdb.com/api\\_specs/](http://docs.peeringdb.com/api_specs/)

# Quick Examples Return Output in JSON

- List all networks: `curl -X GET https://<username>:<password>@www.peeringdb.com/api/net`
- Show a specific network: `curl -X GET https://<username>:<password>@www.peeringdb.com/api/net/20`

```
{"meta": {}, "data": [{"id": 20, "org_id": 10356, "org": {"id": 10356, "name": "20C", "website": "http://20c.com", "notes": "", "net_set": [20], "fac_set": [], "ix_set": [], "address1": "", "address2": "", "city": "Chicago", "country": "US", "state": "IL", "zipcode": "", "created": "2014-11-17T14:59:34Z", "updated": "2016-03-23T20:39:18Z", "status": "ok"}, "name": "20C", "aka": "", "website": "http://20c.com", "asn": 63311, "... }]
```

# More Examples

- List all organisations in ESpaña
  - `curl -X GET https://peeringdb.com/api/org?country=ES`

```
(server0:IXP 33 )curl -s -X GET https://peeringdb.com/api/net?org_id_in=136,9273 | jq '.data[]'
```

```
{
  "id": 10505,
  "org_id": 136,
  "name": "ESPANIX Routeserver",
  "aka": "Espanix",
  "website": "http://www.espanix.net",
  "asn": 6895,
  "looking_glass": "",
  "route_server": "",
  "irr_as_set": "",
  "info_type": "Not Disclosed",
  "info_prefixes4": 100000,
  "info_prefixes6": 100000,
  "info_traffic": "300-500 Gbps",
  "info_ratio": "Not Disclosed",
  "info_scope": "Regional",
  "info_unicast": true,
  "info_multicast": false,
  "info_ipv6": true,
  "notes": "",
  "policy_url": "",
  "policy_general": "Open",
  "policy_locations": "Not Required",
  "policy_ratio": false,
  "policy_contracts": "Not Required",
  "created": "2016-06-08T22:39:32Z",
  "updated": "2017-03-13T16:04:27Z",
  "status": "ok"
}

{
  "id": 1616,
  "org_id": 9273,
  "name": "CSUC",
  "aka": "Consorti de Serveis Universitaris de Catalunya",
  "website": "http://www.csuc.cat",
  "asn": 13041,
  "looking_glass": "http://www.catnix.net/looking-glass/",
  "route_server": ""
}
```



# More Examples

## List all peers at an IXP

Peers at this Exchange Point			Filter
Peer Name ▼	IPv4	Speed	
ASN	IPv6	Policy	
<a href="#">Acens Technologies</a>	193.242.98.9	1G	
16371	None	Open	
<a href="#">ADAM</a>	193.242.98.137	1G	
15699	2001:7f8:2a:0:2:1:1:5699	Open	
<a href="#">Adamo Telecom Iberia S.A</a>	193.242.98.143	10G	
35699	2001:7f8:2a:0:2:1:2:9518	Open	
<a href="#">Altecom (Alta Tecnologia en Comunicacions, S.L.)</a>	193.242.98.4	10G	
16030	2001:7f8:2a:0:1:1:1:6030	Open	
<a href="#">bitNAP Datacenter</a>	193.242.98.160	1G	
43578	2001:7f8:2a:0:3:1:4:3578	Open	
<a href="#">BT Spain</a>	193.242.98.145	1G	
12541	2001:7f8:2a:0:2:2:0:8903	Open	
<a href="#">CATNIX-SERVICES</a>	193.242.98.119	6G	
49638	None	Open	
<a href="#">Claranet</a>	193.242.98.131	1G	
8426	2001:7f8:2a:0:2:1:0:8426	Selective	
<a href="#">Cloudflare</a>	193.242.98.153	10G	
13335	2001:7f8:2a:0:2:1:1:3335	Open	
<a href="#">Colt Technology Services</a>	193.242.98.13	1G	
8220	None	Open	
<a href="#">CSUC</a>	193.242.98.38	10G	
13041	None	Open	
<a href="#">Easynet Global Services</a>	213.234.0.15	1G	
4589	2001:7f8:2a:0:2:1:0:4589	Selective	
<a href="#">EBRETIC ENGINYERIA SL</a>	193.242.98.162	1G	
199496	2001:7f8:2a:0:3:1:19:9496	Open	
<a href="#">Filnet Serveis i Comunicacions, S.L.</a>	193.242.98.136	100M	
	None	Open	







```
(server0:IXP 39 ) curl -s -X GET https://peeringdb.com/api/netixlan?ixlan_id=62 | jq '.data[]'
{
  "id": 459,
  "net_id": 91,
  "ix_id": 62,
  "name": "CATNIX",
  "ixlan_id": 62,
  "notes": "",
  "speed": 1000,
  "asn": 8220,
  "ipaddr4": "193.242.98.13",
  "ipaddr6": null,
  "is_rs_peer": false,
  "created": "2010-07-29T00:00:00Z",
  "updated": "2016-03-14T21:09:42Z",
  "status": "ok"
}

(server0:nipper 74 ) curl -s -X GET https://peeringdb.com/api/ix?name=CATNIX&depth=2 | jq '.data[].ixlan_set'
[
  {
    "id": 62,
    "name": "",
    "descr": "",
    "mtu": null,
    "dot1q_support": false,
    "rs_asn": 0,
    "arp_sponge": null,
    "created": "2010-07-29T00:00:00Z",
    "updated": "2016-03-14T21:34:59Z",
    "status": "ok"
  }
]

{
  "id": 572,
  "net_id": 116,
  "ix_id": 62,
  "name": "CATNIX",
  "ixlan_id": 62,
  "notes": "",
  "speed": 1000,
  "asn": 8426,
  "ipaddr4": "193.242.98.131",
  "ipaddr6": "2001:7f8:2a:0:2:1:0:8426",
  "is_rs_peer": false,
  "created": "2010-07-29T00:00:00Z",
  "updated": "2016-07-22T12:34:37Z",
  "status": "ok"
}

{
  "id": 3284,
  "net_id": 1111,
  "ix_id": 62,
  "name": "CATNIX",
  "ixlan_id": 62,
  "notes": "",
  "speed": 1000,
  "asn": 8220,
  "ipaddr4": "193.242.98.13",
  "ipaddr6": "2001:7f8:2a:0:2:1:0:8220",
  "is_rs_peer": false,
  "created": "2010-07-29T00:00:00Z",
  "updated": "2016-07-22T12:34:37Z",
  "status": "ok"
}
```

# Status Page

Status	Last 7 Days	Type	04 Apr	03 Apr	02 Apr	01 Apr	31 Mar	30 Mar	29 Mar
	100.00%	Database & API	keyword	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	100.00%	HTTPS PeeringDB.com	http	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	99.453%	Offsite Backup Creation	keyword	100.00%	96.168%	100.00%	100.00%	100.00%	100.00%
	99.185%	Outbound Email Delivery	keyword	100.00%	94.297%	100.00%	100.00%	100.00%	100.00%
	100.00%	PeeringDB DeskPRO	http	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
	100.00%	PeeringDB.com ICMP Ping	ping	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%

<http://status.peeringdb.com/>

# Beta Development and Reporting Issues

- Beta server
  - Available at <https://beta.peeringdb.com/>
  - Runs the latest beta software version
  - Full access over HTTP and the API
  - Database is local to the beta server only, changes are not reflected on the production servers
- Latest changes
  - Available at <https://beta.peeringdb.com/changes>
  - Redirects to the list of issues on GitHub
  - Documents all of the changes in the current beta version
- Log bugs and feature requests at <https://github.com/peeringdb/peeringdb/issues> on GitHub

# Agenda

- PeeringDB 2.0
- **Membership and Governance**
- **Committees**
- **Sponsorship**
- **Information and Resources**

# Membership and Governance

- PeeringDB organization formally formed 16 Dec, 2015
- PeeringDB 501(c)(6) filed 7 Jan, 2016 (approved 24 Feb, 2016)
- 2<sup>nd</sup> election held April 2016: 94 organizations registered, 80 voted
- 3<sup>rd</sup> election is being held 15 Apr, 2017 until 29 Apr, 2017
- 299 addresses subscribed to the Governance mailing list (as of 17 Oct 2016)
- A corporation, limited liability company, partnership or other legal business entity may be a Member of the Corporation. Membership is determined by having both an active PeeringDB.com account and an individual representative or role subscription to the PeeringDB Governance mailing list:
  - <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov>
  - More information available at <http://gov.peeringdb.com/>

# Board of Directors and Officers



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



Patrick Gilmore – Director  
(Term Expires 2017)



Matt Griswold – Director  
(Term Expires 2017)



Aaron Hughes – President  
(Term Expires 2018)



Arnold Nipper – Director  
(Term Expires 2017)



Job Snijders – Vice President  
(Term Expires 2018)

# Committees

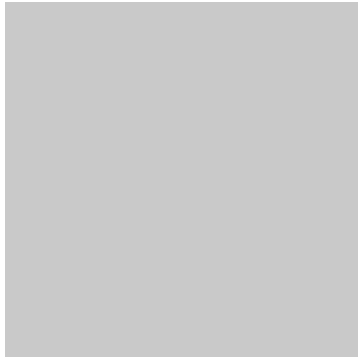
## Admin Committee

- Manage administration of user accounts and PeeringDB records
- Answer support tickets
- Board members Job Snijders (Chair) and Arnold Nipper (Vice Chair)
- Seeking 2 community volunteers (1 year term)
- Contact: [support@peeringdb.com](mailto:support@peeringdb.com)

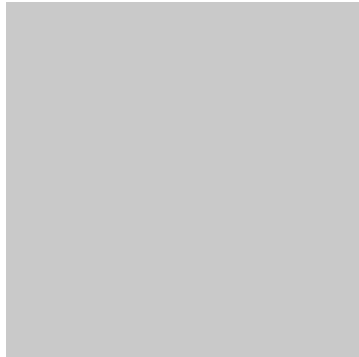
## Product Committee

- Ask for input from the community on desired features
- Manage roadmap and development priorities
- Write SoWs to solicit bids to complete requested features
- Board members Aaron Hughes (Chair) and Matt Griswold (Vice Chair)
- Seeking 0 community volunteers (1 year term)
- Contact: [productcom@lists.peeringdb.com](mailto:productcom@lists.peeringdb.com)

# Admin Committee



Samer  
Abdel-Hafez



Hendrik  
Braasch



Kate  
Gerry



Peter  
Helmenstine



Florian  
Hibler



Eric  
Lindsjö



Arnold Nipper –  
Vice Chair



Eduardo  
Ascenço Reis



Job Snijders –  
Chair



Michael  
Still



# PeeringDB 2.0 Support Ticket Statistics

Year	Tickets	Tickets/Day	Resolve Time (d)	Remark
2012	1389	4.09	1.00	
2013	2284	6.34	1.06	
2014	3050	8.47	1.27	
2015	2828	7.86	4.39	
2016	648	8.76	0.53	PeeringDB 1.0
2016	6225	21.84	0.59	PeeringDB 2.0
2017	2274	25.27	1.20	

- Admin Committee volunteers are based around the world in a variety of time zones
- Goal is to resolve support tickets within 24 hours

# Product Committee



Karthik  
Arumugham



Matt Griswold –  
Vice Chair



Greg  
Hankins



Aaron Hughes –  
Chair



Martin J.  
Levy



Eric  
Loos



Chris  
Malayter



Stephen  
McManus



Arnold  
Nipper



Kay  
Rechthien



Walt  
Wollny

# Become a PeeringDB Sponsor!

- **Diamond Sponsorship - \$25,000 / year**
  - Limited to 2 sponsors
  - Very large logo on top line of Sponsors page with URL
  - Diamond Sponsor badge display on all records
  - Social media promotion
- **Platinum Sponsorship - \$10,000 / year**
  - Large logo on second line of Sponsors page with URL
  - Platinum Sponsor badge display on all records
  - Social media promotion
- **Gold Sponsorship - \$5,000 / year**
  - Medium logo on third line of Sponsors page
  - Gold Sponsor badge display on all records
  - Social media promotion
- **Silver Sponsorship - \$2,500 / year**
  - Small logo on fourth line of Sponsors page
  - Silver Sponsor badge display on all records
  - Social media promotion
- Contact [sponsorship@peeringdb.com](mailto:sponsorship@peeringdb.com) for sponsorship info



Microsoft <span>Diamond Sponsor</span>	
Organization	<a href="#">Microsoft</a>
Also Known As	8068
Company Website	<a href="http://www.microsoft.com">http://www.microsoft.com</a>
Primary ASN	8075
IRR Record	AS-MICROSOFT

DE-CIX Frankfurt <span>Platinum Sponsor</span>	
Organization	<a href="#">DE-CIX Management GmbH</a>
Long Name	Deutscher Commercial Internet Exchange
City	Frankfurt
Country	DE
Continental Region	Europe



Proud Sponsor of  
**PeeringDB**  
GOLD

# Thank you to our sponsors!

Diamond  
Sponsors



Microsoft

Platinum  
Sponsors



Google MARKLEY YAHOO!

Gold  
Sponsors

facebook



IX

AUSTRALIA

INTERNET PEERING FOR AUSTRALIA

Silver  
Sponsors



DIGITAL REALTY

interxion™



TELEHOUSE



NIX-CZ



NYIIX<sup>®</sup>



LAIIX<sup>®</sup>






RIPE NCC  
RIPE NETWORK COORDINATION CENTRE



zenlayer

# 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)
  - Bugs and feature requests:  
<https://github.com/peeringdb/peeringdb/>
  - Status: <http://status.peeringdb.com/>
-  [@PeeringDB](https://twitter.com/PeeringDB)
-  <https://www.facebook.com/peeringdb/>
-  <https://www.linkedin.com/company/peeringdb>



Questions?

# Register or Request Affiliation to an Existing Organization

**2. Confirm Email Address**  
(Click Here if not Confirmed)

**3. Enter ASN or Organization Here**  
Autocomplete on Existing ASNs and Organizations in PeeringDB

**1. Go to Your Profile**

**4. Click "Affiliate"**  
Existing: Organization Admin Needs to Approve  
New: Generates a Support Ticket for Validation and Approval

PeeringDB Search here for a network, IX, or facility. ghankins

Advanced Search

**You have confirmed your email address!**

**Affiliate with organization**

To affiliate with an existing organization, please enter the ASN or organization name below.

To register a new network organization, please enter the ASN and organization name below.

To register a new facility or exchange organization, please enter the organization name below (ASN is optional).

ASN

Organization

**Affiliate**

Existing affiliations

Your affiliation with [Nokia IP/Optical Networks Labs](#) has been approved.

Nokia IP/Optical Networks Labs  
Profile  
Logout

# Adding a New Exchange to Your Organization

Manage

[Add Facility](#) [Add Network](#) **Add Exchange** [Users](#) [Permissions](#)

Name

Website

City

Country

Continental Region

Media Type

Unicast IPv4

Multicast

IPv6

Traffic Stats Website

Technical E-mail

Technical Phone

Policy E-mail

Policy Phone

Add a new Exchange to your Organization. Note that the newly created Exchange will need to be approved by PeeringDB staff before it will appear in the search results or the API listings

**Generates a Support Ticket for Validation and Approval**

**Enter Exchange Info Here, Then Click "Submit Exchange"**



# Editing Your Exchange Record

Example-IX Cancel Save

Organization	Example-IX
Long Name	Example-IX, the only ATM multicast IX on the planet!
City	Atlanta
Country	United States
Continental Region	North America
Media Type	ATM
Protocols Supported	<input type="checkbox"/> Unicast IPv4 <input checked="" type="checkbox"/> Multicast <input type="checkbox"/> IPv6
Contact Information	
Company Website	http://www.example.com
Traffic Stats Website	http://www.example.com
Technical Email	name@example.com
Technical Phone	
Policy Email	name@example.com
Policy Phone	

Peers at this Exchange Point Filter

Peer Name ▼	IPv4	Speed
ASN	IPv6	Policy
Nothing matched your filter You may filter by Exchange, ASN, Policy or Speed		

**Enter Exchange Info Here, Then Click "Save"**

**Networks are Still Required to Associate their Record at a Facility or Exchange**

# Editing Your Exchange Record

LANs

Name	DOT1Q	MTU
<input type="checkbox"/> Peering LAN	<input checked="" type="checkbox"/>	9000
<input type="checkbox"/> IPv4	127.0.0.0/8	
<input type="text" value="IPv4"/>	<input type="text" value="Prefix"/>	<input type="button" value="Add"/>

Name:

DOT1Q:

MTU:

Add LAN

Local Facilities

Facility Country City

Nothing matched your filter  
You may filter by Exchange or Long Name

Facility

- Equinix Atlanta (AT2/3)  
56 Marietta St NW
- Telx Atlanta  
56 Marietta St
- Level(3) Atlanta Courtland  
345 Courtland St Ne

**Enter LAN Info Here**  
Name – Optional Name  
DOT1Q – 802.1Q Tag  
MTU  
IPv4/IPv6 Addresses

**Add Facilities Here**  
Autocomplete on  
Existing Facilities, Must  
Contact Support to Add  
a New Facility

# Local Database Sync

- Database sync gives you a local copy of PeeringDB for customization or internal use
  - Sync as often as you like
  - Incremental sync is supported
- Improves performance and reduces load on PeeringDB servers
- Build custom indexes and interfaces
- Add custom fields
- Choice of database engines
  - Currently supported: MySQL, Postgres, SQLite
- Sync using the provided tools or build your own using the API

# Django Library

- django-peeringdb is a Django library with a local PeeringDB database sync
- Defines the database schema to create a local database copy
- Easy to integrate in a common framework for locals tools and custom interfaces
- Supports multiple database engines (MySQL, Postgres, SQLite)
- Available at <http://peeringdb.github.io/django-peeringdb/>

# Python Client

- peeringdb-py is a Python client for PeeringDB
- Gets objects and outputs in JSON or YAML format
- Provides a whois-like display of records
- Integrated local database sync
- Python library for integration with custom tools
- Available at <http://peeringdb.github.io/peeringdb-py/>
- Examples at <https://github.com/grizz/pdb-examples>