



PeeringDB

PeeringDB Introduction

Ben Ryall

ben@peeringdb.com

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."



Why should you have a PeeringDB Record?

- As a network operator, a PeeringDB record makes it easy for other networks to find you, and helps you to establish peering / interconnection
- Provides a friendly GUI and powerful tools for automation and authentication

Governance and Membership

- PeeringDB is a United States 501(c)(6) volunteer organization that is 100% funded by sponsorships
- Healthy organization, building financial reserves and executing the long term strategic plan
- Membership rules
 - 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
 - Governance list is at <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov>
 - More information available at <http://gov.peeringdb.com/>

Committees

Admin Committee

- Manage administration of user accounts and PeeringDB records
- Answer support tickets
- Cleansing and completion of PeeringDB records

Leads: Arnold Nipper (Chair) and Darwin Da Costa (Vice Chair)
Contact: admincom@lists.peeringdb.com

Operations Committee

- Manage PeeringDB infrastructure

Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair)
Contact: pdb-ops@lists.peeringdb.com

Outreach Committee

- Manage marketing and social media
- Develop and maintain presentations, workshops and webinars
- Coordinate presentations and attendance at events

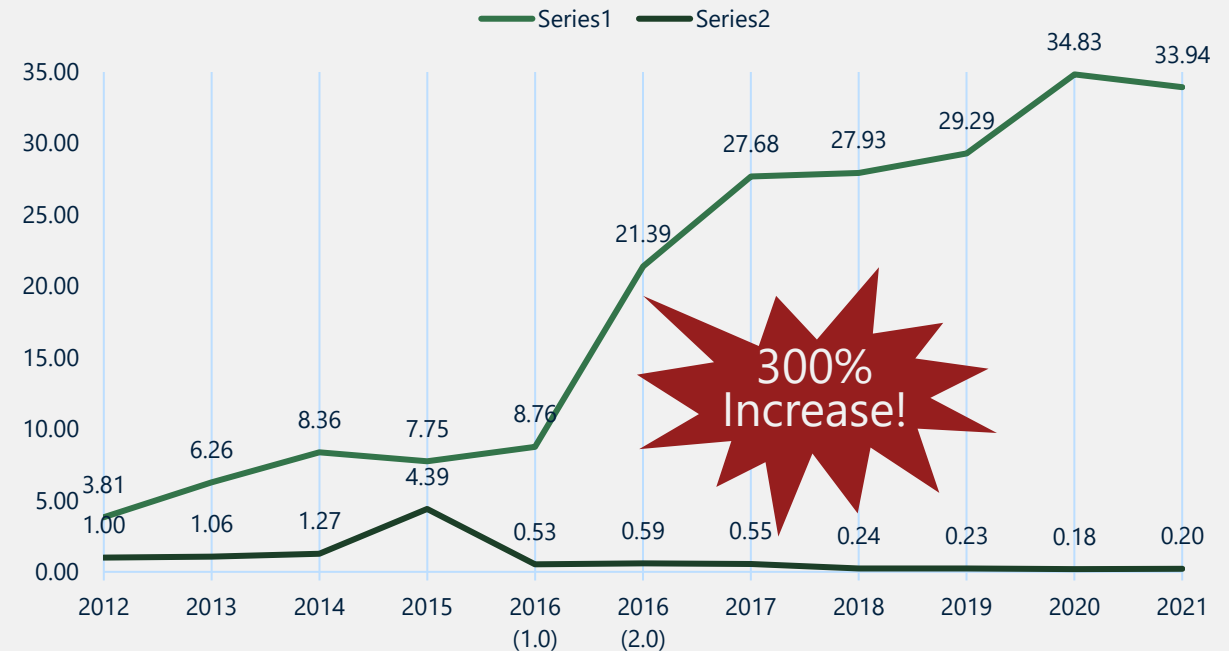
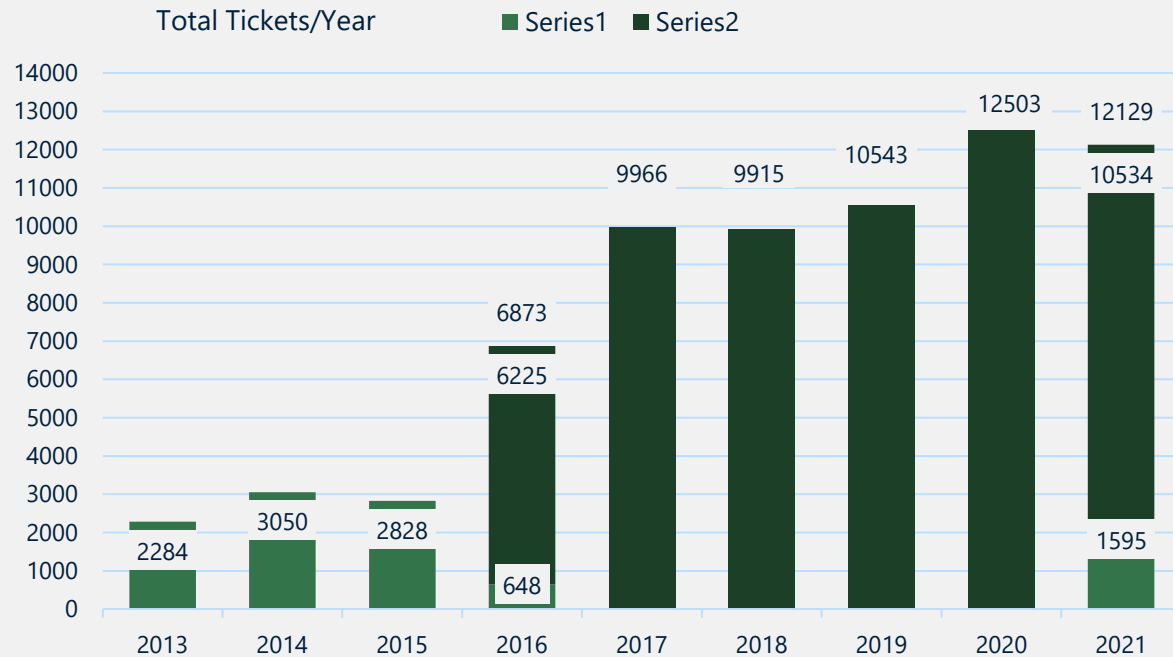
Leads: Ben Ryall (Chair) and Bijal Sanghani (Vice Chair)
Contact: outreachcom@lists.peeringdb.com

Product Committee

- Manage roadmap and development priorities
- Ask for input from the community on desired features
- Write SoWs to solicit bids to complete requested features

Leads: Stephen McManus (Chair) and Matt Griswold (Vice Chair)
Product Manager: Leo Vegoda
Contact: productcom@lists.peeringdb.com







Support Ticket Statistics



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

Product Development Workflow

- All issues tracked using GitHub at <https://github.com/peeringdb/peeringdb/issues>
 - Anyone can open a feature requests or file a bug report
 - Open and transparent process for product development
 - Workflow is at <http://docs.peeringdb.com/workflow/>
- Product Committee issue process
 - Evaluate and prioritize the requests
 - Request a quote for development costs
 - Request budget from the board
 - Manage implementation and scheduling
- Your input is needed on features!

1 Decide No due date ⌚ Last updated 3 days ago Issues under Decide queue. Issues are kept in Decide while the Product Committee discusses the issue. Next milestone is "Consensus Reached"	 12% complete 128 open 19 closed Edit Close Delete
2 Consensus Reached No due date ⌚ Last updated 3 days ago Issues that are in the Consensus queue. When a decision is made abo...(more)	 0% complete 6 open 0 closed Edit Close Delete
3 Consensus Finalized No due date ⌚ Last updated 1 day ago When an issue is at milestone "Consensus reached" PC members have t...(more)	 100% complete 0 open 2 closed Edit Close Delete
3a Needs Implementation discussion No due date ⌚ Last updated 6 days ago	 0% complete 5 open 0 closed Edit Close Delete
4 Ready for Implementation No due date ⌚ Last updated 1 day ago Last milestone before milestone "Next release". The predecessor is "Consensus Finalized".	 0% complete 22 open 0 closed Edit Close Delete
Next Release No due date ⌚ Last updated 5 days ago	 80% complete 3 open 12 closed Edit Close Delete

Product Development

- All issues tracked using GitHub at <https://github.com/peeringdb/peeringdb/issues>
 - Anyone can open a feature requests or file a bug report
 - Open and transparent process for product development
 - Workflow is at <http://docs.peeringdb.com/workflow/>
- Product Committee issue process
 - Evaluate and prioritize the requests
 - Request a quote for development costs
 - Request budget from the board
 - Manage implementation and scheduling

The screenshot shows a list of GitHub milestones for the repository peeringdb/peeringdb. Each milestone includes a title, progress bar, completion status, and counts of open and closed issues. The milestones are: 1 Decide (12% complete, 128 open, 19 closed), 2 Consensus Reached (0% complete, 6 open, 0 closed), 3 Consensus Finalized (100% complete, 0 open, 2 closed), 3a Needs Implementation discussion (0% complete, 5 open, 0 closed), 4 Ready for Implementation (0% complete, 22 open, 0 closed), and Next Release (80% complete, 3 open, 12 closed).

Milestone	Progress	Open	Closed
1 Decide	12% complete	128 open	19 closed
2 Consensus Reached	0% complete	6 open	0 closed
3 Consensus Finalized	100% complete	0 open	2 closed
3a Needs Implementation discussion	0% complete	5 open	0 closed
4 Ready for Implementation	0% complete	22 open	0 closed
Next Release	80% complete	3 open	12 closed

Your input is needed on features!

Release Process

- Announced at least one week in advance with all changes to give the community notice
 - Beta site is already running the development version for testing
 - Announced on PDB Announce list, Twitter, Facebook
- Released on Wednesdays at 0400Z and avoids
 - Mondays and Fridays
 - International holidays
 - Large conferences and events (APRICOT, EPF, GPF, NANOG, RIPE, etc.)
- List of current changes (release notes) for each version are on GitHub at <https://github.com/peeringdb/peeringdb/milestones>

Internationalization Support

Search here for a network, IX, or facility.

[Advanced Search](#)

ghankins



[Nokia](#)
[Suggest Facility](#)
[Profile](#)
[Logout](#)

1. Go to Your Profile

Select language

English
English
Portuguese
Italian
Czech
Danish
German
French
Indonesian
Japanese
Russian
Telugu
Chinese

2. Choose Your Language and Click "Set language preference"

3. Text Now Appears in the Selected Language!

Afilie-se à organização

Para afiliar com uma organização existente, favor inserir abaixo o ASN ou o nome da organização.

Para registrar uma nova organização de rede, favor inserir abaixo o ASN e o nome da organização.

Para registrar uma nova infraestrutura ou organização de ponto de troca, favor inserir abaixo o nome da organização (o ASN é opcional).

ASN

Organização

Afiliado

Current Translations

← → ↻ translate.peeringdb.com/projects/peeringdb/#information

PeeringDB Translations Dashboard Projects Languages

PeeringDB

Components Languages Info Search Glossaries Insights Tools Share

Project website	https://peeringdb.com
Instructions for translators	https://docs.peeringdb.com/translation/
Translation license	PeeringDB License
Number of strings	13132
Number of words	76133
Number of languages	19
Number of source strings	692
Number of source words	4015

Powered by Weblate 3.6.1 About Weblate Contact Documentation Donate to Weblate

PeeringDB Translations Dashboard Projects Languages Register Login

PeeringDB

translated 58%

Components Languages Info Search Glossaries Insights Tools Share

Language	Translated	Words
Arabic	19.8%	10.5%
Chinese (Simplified)	93.8%	81.4%
Chinese (Traditional)	90.6%	80.4%
Czech	77.3%	60.3%
Danish	27.2%	13.5%
English (United States)	0.0%	0.0%
French	81.8%	67.1%
German	100.0%	100.0%
Greek	82.2%	68.3%
Indonesian	0.0%	0.0%
Italian	79.5%	66.3%
Japanese	89.9%	84.9%
Portuguese	88.9%	79.0%
Romanian	100.0%	100.0%
Russian	80.6%	65.8%
Spanish (Spain)	82.1%	70.6%
Telugu	0.0%	0.0%
Thai	0.0%	0.0%
Turkish	11.6%	4.4%

How to Contribute to Translations

1. Open a new issue named "Please generate locale files" on the GitHub issue page: <https://github.com/peeringdb/peeringdb/issues>
2. Your language / locale will be added to <https://translate.peeringdb.com>
3. Add yourself for selected languages / locales
 - Login to <https://translate.peeringdb.com> with your PeeringDB credentials
 - Edit your profile <https://translate.peeringdb.com/accounts/profile/> and add languages you want to help translating
4. PeeringDB team continuously uploads the files to the beta website
 - You can check your translation on the beta website: <https://beta.peeringdb.com/>

For more info visit: <https://docs.peeringdb.com/translation/>

Mailing list: <https://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-translate>

Beta Development

- 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
- Anyone can log bugs and feature requests in GitHub at <https://github.com/peeringdb/peeringdb/issues>



Become a PeeringDB Sponsor!

- Diamond Sponsorship - \$25,000 / year



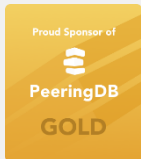
- Limited to 2 sponsors
- Very large logo on top line of Sponsors page with URL
- Diamond Sponsor badge display on all records
- Social media promotion

- 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

Teraco Data Environments Gold Sponsor

Organization	Teraco Data Environments Pty Ltd
Also Known As	NAPAfrica
Long Name	
Company Website	http://www.teraco.co.za
ASN	37599
IRR as-set/route-set ?	AS-TERACO

Facebook Inc Gold Sponsor

Organization	Facebook
Also Known As	Facebook, Instagram, WhatsApp
Long Name	
Company Website	https://www.facebook.com/
ASN	32934
IRR as-set/route-set ?	AS-FACEBOOK



Proud Sponsor of

PeeringDB  Gold

Contact sponsorship@peeringdb.com for sponsorship info!

Thank you to our sponsors!

Diamond
Sponsor



Microsoft

Platinum
Sponsors








Gold
Sponsors



Silver
Sponsors



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
- Admins: support@peeringdb.com
- Presentation requests: 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)
 -  https://www.youtube.com/channel/UCOrYWUg-dbL9UTFV_Lry6Wg



PeeringDB

Questions?



PeeringDB

How To: Get started as a Network Operator

Playground

Please always use the tutorial DB at
<https://tutorial.peeringdb.com>

Registering



PeeringDB

Search here for a network, IX, or facility.

[Advanced Search](#)

[Register or](#)

[Login](#)

The Interconnection Database

Join. Search. Grow your network.

PeeringDB is a freely available, user-maintained, database of networks, and the go-to location for interconnection data. The database facilitates the global interconnection of networks at Internet Exchange Points (IXPs), data centers, and other interconnection facilities, and is the first stop in making interconnection decisions.

The database is a non-profit, community-driven initiative run and promoted by volunteers. It is a public tool for the growth and good of the Internet. Join the community and support the continued development of the Internet.

Learn more [about](#) PeeringDB or [register](#).

Most Recent Updates

Exchanges

[LU-CIX](#)
54 minutes ago

[LONAP](#)
1 days ago

[IPNET-IX DELHI](#)
1 days ago

[CAMIX Yaounde](#)
2 days ago

[CAMIX Douala](#)
2 days ago

Networks

[REDE SMARTNET](#)
(265099)
10 minutes ago

[Eghert Informática](#)
(271543)
12 minutes ago

[Coprel Telecom LTDA](#)
(52892)
23 minutes ago

[LU-CIX Route Servers](#)
(49624)
49 minutes ago

[BITMAIL SERVICOS DE INFORMATICA](#) (263997)
57 minutes ago

Facilities

[Flex Data Center](#)
4 hours ago

[Atlantic Metro Herndon \(IAD4\)](#)
4 hours ago


[SDC Colchester1](#)
18 hours ago


[DNA Oulu Torikatu](#)
2 days ago


[CAMPOST Data Center Yaoundé](#)
2 days ago

Registering


Create account


Username 


Password 


Confirm password 

For speedy validation, it is required that you use a work e-mail address. If you plan to register your ASN with PeeringDB, it is recommended that you use an email-address that exists in your ASN's public contact details.

Email 

First name 

Last name 

I'm not a robot 
reCAPTCHA
Privacy - Terms

Create

- Choose a username
 - Password must be at least 10 characters long

Use a real work e-mail address

- Ideally the one you registered the ASN with
- Put in your first and last name
- You will receive a confirmation email
- Click on the link in the email

Register or Request Affiliation to an Existing Organization

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

1. Go to Your Profile

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

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

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 is the text "Advanced Search" and a green callout box with the text "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 green border. Below the search bar is a table for the organization "Example-IX". The table has the following rows:

Organization	Example-IX
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

To the right of the organization table is a section titled "Peers at this Exchange Point" with a "Filter" button. Below this is a table with columns "Peer Name", "ASN", "IPv4", "IPv6", "Speed", and "Policy". The table is currently empty, with a message that says "Nothing matched your filter. You may filter by Exchange, ASN, Policy or Speed".

Multiple Records Under a Single Organization

LINX Silver Sponsor

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

Facilities

Name ▼	Country	City
IXCardiff	United Kingdom	Cardiff

Networks

Name ▼	ASN
LINX NoVA (LINX USA Inc.)	21919
LINX Route Servers	8714
London Internet Exchange (LINX)	5459

Exchanges

Name ▼	Country	City
IXCardiff	United Kingdom	Cardiff
IXManchester	United Kingdom	Manchester
IXScotland	United Kingdom	Scotland
LINX LON1	United Kingdom	London
LINX LON2	United Kingdom	London
LINX NoVA	United States of America	Northern Virginia

Facilities are Shown Here
LINX has 1 Facility

Networks are Shown Here
LINX has 2 Network Records

Exchanges are Shown Here
LINX has 6 Exchange Records

One Account Managing Multiple Organizations

PeeringDB

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

job

Affiliate with Organization

To affiliate with an Organization, please enter a valid ASN or Organization name below.

ASN

Organization

Affiliate

Existing Affiliations

Your affiliation with [NTT Communications \(Global\)](#) has been approved

Your affiliation with [NLNOG RING](#) has been approved

Your affiliation with [Netwerkvereniging Coloclue](#) has been approved

Your affiliation with [Snijders IT](#) has been approved

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

Organization User Management

The screenshot shows the 'Manage' section of the PeeringDB interface. At the top, there are navigation links: 'Add Facility', 'Add Network', 'Add Exchange', 'Users', and 'Permissions'. The 'Permissions' link is circled in green. Below this, there are two main sections: 'Users requesting affiliation' and 'Users in Organization'. The 'Users requesting affiliation' section is currently empty, with a message stating 'Currently no users requesting affiliation with Nokia IP/Optical Networks Labs'. The 'Users in Organization' section contains one user: Greg Hankins (ghankins) with email greg.hankins@alcatel-lucent.com. The 'Group' dropdown menu is open, showing 'admin' (selected), 'member', and 'admin'. The 'Remove' button is circled in green. A 'Save' button is also visible.

Approve or Deny Pending Requests

Delegate Permissions for Members

Admins Have Access to Everything

Users requesting affiliation

Users in Organization

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

The screenshot shows two user profiles with their respective permissions:

User	Record	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"/>

Annotations:

- Green circles around 'Create', 'Update', and 'Delete' headers for Paul Cairney.
- Green arrows pointing from the 'Create', 'Update', and 'Delete' circles to the text box below.
- Green box around Paul Cairney's network records.
- Green box around Raphael Ho's network records.

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 Visibility	Phone E-Mail
<input checked="" type="checkbox"/> Policy	Greg Hankins	
	Users ▾	as-38016@list.nokia.com
<input checked="" type="checkbox"/> Technical	Greg Hankins	
	Users ▾	as-38016@list.nokia.com

Role: Abuse ▾

Name:

Email: name@example.com

Phone:

Visibility: ▾

- Users
- Private
- Users**
- Public

Separate Visibility Preferences for Each Role

- Private – Organization Only
- Users – Registered Users Only (Default)
- Public – Anyone (no Login Required)

- Roles:**
- Abuse
 - Policy
 - Technical
 - NOC
 - Public Relations
 - Sales

Adding Your Network to an IXP or Facility

1. Go to your network record and click on "Edit"
 2. Start to type in the name of the IXP and select the IXP
 3. If the IXP is missing, contact PeeringDB support
 4. Add your IP addresses, port speed, and click the "RS Peer" box if you peer with the route server
 5. Finally click on "Add Exchange Point"
- Use the same procedure for adding a Facility

World Phone Internet Services Pvt. Ltd.

http://www.worldphone.in

18002

http://www.example.com

http://www.example.com

Cable/DSL/ISP

250

0

10-20Gbps

Heavy Inbound

Asia Pacific

Unicast IPv4 Multicast IPv6

2017-06-29T11:54:36Z

Public Peering Exchange Points

Exchange

Local ASN

IPv4

IPv6

Speed (mbit/sec)

RS Peer

Nothing matched your filter
You may filter by Exchange, ASN or Speed

Exchange

Local ASN

IPv4

IPv6

Speed (mbit/sec)

RS Peer

Nothing matched your filter
You may filter by Facility, ASN, Country, City

Facility

Add Exchange Point

Add Facility

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 Unicast IPv4 Multicast 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		

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

Enter Exchange Info Here, Then Click "Save"

Editing Your Exchange Record

The screenshot shows the PeeringDB interface for editing an exchange record. It is divided into two main sections: LANs and Local Facilities.

LANs Section: This section is highlighted with a green box. It contains a table with columns for Name, DOT1Q, and MTU. There is a checkbox for each row. Below the table are input fields for Name, DOT1Q, and MTU, and a button labeled 'Add LAN'.

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

Below the table, there are input fields for Name (Peering LAN), DOT1Q (checked), and MTU (9000). A button labeled 'Add LAN' is at the bottom right of this section.

Local Facilities Section: This section is below the LANs section. It has a 'Filter' button and a table with columns for Facility, Country, and City. The table is currently empty, with a message: "Nothing matched your filter. You may filter by Exchange or Long Name". Below the table is an input field for 'Facility' with the text 'atlanta' entered and circled in green. A dropdown menu is open below the input field, showing the following options:

- 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



PeeringDB

How To: Why Adding Users is Important

Adding Users

- You do not have to be the only person with PeeringDB
- Other users from your organization may also register
- User can be “admin” or “member”
 - First user is automatically admin
- Administrators are allowed to edit all fields (for your organization)
- Members rights can be as restrictive or as open – you choose!

Why is it important

- Allow people to find contact details for network
 - Could be peering request
 - Or Operational issues
- Need to be logged in to see contact details
- Organizations build automation based on PeeringDB data



PeeringDB

How To: Automation and Authentication

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
 - Basic types: org, net, ix, fac, poc
 - Derived types: ixfac, ixlan, ixpfx, netfac, netixlan
- List of objects: <https://peeringdb.com/apidocs/>
- API documentation: 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, " ... } ] }
```

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>

List All Peers at an IXP

```
% curl -s -X GET https://www.peeringdb.com/api/netixlan/?ixlan_id=62 | jq '.data[]'
```

```
{  
  "id": 13312,  
  "net_id": 2255,  
  "ix_id": 62,  
  "name": "CATNIX",  
  "ixlan_id": 62,  
  "notes": "",  
  "speed": 1000,  
  "asn": 16371,  
  "ipaddr4": "193.242.98.9",  
  "ipaddr6": null,  
  "is_rs_peer": false,  
  "created": "2013-02-08T00:00:00Z",  
  "updated": "2016-03-14T21:31:39Z",  
  "status": "ok"  
}
```

Peers at this Exchange Point

Peer Name ASN	IPv4 IPv6	Speed Policy
Acens Technologies 16371	193.242.98.9 None	1G Open
ADAM 15699	193.242.98.137 2001:7f8:2a:0:2:1:1:5699	1G Open
Adamo Telecom Iberia S.A 35699	193.242.98.143 2001:7f8:2a:0:2:1:3:5699	10G Open
Akamai Technologies 20940	193.242.98.157 2001:7f8:2a:0:2:1:2:940	10G Open
Altecom (Alta Tecnologia en Comunicacions, S.L.) 16030	193.242.98.4 2001:7f8:2a:0:1:1:1:6030	10G Open
ANDORRA TELECOM 6752	193.242.98.159 2001:7f8:2a:0:2:1:0:6752	10G Open
bitNAP Datacenter 43578	193.242.98.160 2001:7f8:2a:0:3:1:4:3578	1G Open
BT Spain 12541	193.242.98.145 2001:7f8:2a:0:2:2:0:8903	1G Open

OAuth Authentication – New in 2.7.1

- PeeringDB users are often connected to multiple IXPs and meet at the same events
 - OAuth2 defined in [RFC 6749](https://tools.ietf.org/html/rfc6749) is a third-party authentication framework that lets PeeringDB be an OAuth server
 - Register your application, so people can use their PeeringDB account to login instead of requiring them to register in your application
- Full user control, each PeeringDB user must permit each application to use OAuth
- More details are available here:
<https://docs.peeringdb.com/oauth/>

