



PeeringDB

Introduction to PeeringDB

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Agenda

1. What is PeeringDB
2. How to use it
3. Questions?

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

	2.0 Launch 2016-03-15	2016-12-31	2016 % Growth	2017-12-31	2017 % Growth	2018-12-31	2018 % Growth
Exchanges	630	556	-12	614	10	661	8
Networks	5,881	8,116	38	11,327	40	14,179	25
Facilities	1,957	2,130	9	2,635	24	2,834	8
Organizations	7,490	9,132	22	11,917	30	14,402	21
Users	7,866	11,486	46	15,538	35	19,668	27

- Strong growth each year since PeeringDB 2.0 launch
 - Lower IXP count in 2016 due to database cleanup
- Users number indicates registered users affiliated with an organization
 - All information except for contact info is available without a login
 - Not an indication of total PeeringDB users

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
 - 344 addresses subscribed to the Governance mailing list (as of April 16, 2019)
 - Governance list is at <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov>
 - More information available at <http://gov.peeringdb.com/>

PeeringDB is Open Source Software!

- Open source release announcement on 2018-11-10
 - Released under the 2-Clause BSD License:
<https://opensource.org/licenses/BSD-2-Clause>
- Beneficial to the peering and interconnection community by promoting innovation
 - Allows volunteers to contribute
 - Makes it easier for third parties to bid on new features specified by the Product Committee
 - A processes for accepting contributions will be announced
- Source code is available on GitHub:
<https://github.com/peeringdb/peeringdb>

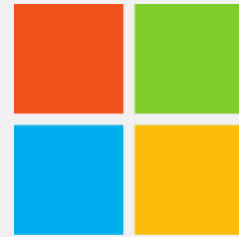
Current Translations

Language ▾	Translated ▾	Words ▾
Chinese (Simplified)	94.4%	83.3%
Chinese (Traditional)	94.4%	83.3%
Czech	84.2%	67.1%
Danish	29.6%	15.2%
English (United States)	0.0%	0.0%
French	88.9%	74.4%
German	100.0%	100.0%
Greek	89.2%	74.4%
Indonesian	0.0%	0.0%
Italian	86.5%	73.7%
Japanese	89.2%	74.3%
Portuguese	86.2%	73.4%
Romanian	0.0%	0.0%
Russian	87.8%	73.1%
Spanish	86.4%	73.4%
Telugu	0.0%	0.0%
Thai	0.0%	0.0%

Approved Good Falling checks Needs editing

Thank you to our sponsors!

Diamond Sponsor



Microsoft

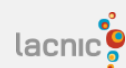
Platinum Sponsors



Gold Sponsors



Silver Sponsors



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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

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

Select language
English
Set language preference

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

ghankins
Nokia
Suggest Facility
Profile
Logout

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 these links, 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 user's group is set to 'admin', and a dropdown menu is open showing 'member' and 'admin' options, with 'admin' selected. A 'Remove' button is circled in green next to the user's name. A 'Save' button is located below the dropdown menu.

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

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"/>

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 ▼

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

Exchange

Local ASN

IPv4

IPv6

Speed (mbit/sec)

RS Peer

Add Exchange Point

Private Peering Facilities

Facility ▼

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

Facility

Add Facility

Import of Data Provided by IXPs

- For Networks
 - Allow IXPs to maintain your IXP connection information
 - One setting for all IXPs where you are connected
 - Off by default
- For IXPs
 - IXPs provide participant data (IP addresses, speed, RS peering)
 - Imported into PeeringDB nightly using IX-F JSON schema
- See issue [#237](#) on GitHub for details

PeeringDB Configuration

Allow IXP Update



Networks Click "Allow IXP Update" in Network Record

Name	DOT1Q	MTU
<input type="checkbox"/> DE-CIX Frankfurt Peering LAN	<input type="checkbox"/>	1500
<input type="text" value="IXF Member Export URL"/>		
<input type="checkbox"/> IPv4	80.81.192.0/21	
<input type="checkbox"/> IPv6	2001:7f8::/64	

IXPs Set Export URL in Exchange Record

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PeeringDB

Questions?

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)