



# PeeringDB Introduction

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# Agenda

1. What is PeeringDB
2. How to create [and manage] a PeeringDB record
3. Thanks...and questions

**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.”

# What is PeeringDB?

- Why should my facility, IXP or network 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
Facilities	1,957	2,130	9%	2,635	24%
IXPs	630	556	-12%	614	10%
Networks	5,881	8,116	38%	11,327	40%
Organizations	7,490	9,132	22%	11,917	30%
Users	7,866	11,486	46%	15,538	35%

- 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
- 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
  - 332 addresses subscribed to the Governance mailing list (as of May 3, 2018)
  - 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

Leads: Arnold Nipper (Chair)

Contact:  
[admincom@lists.peeringdb.com](mailto:admincom@lists.peeringdb.com)

## Operations Committee

- Manage PeeringDB infrastructure

Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair)

Contact:  
[pdb-ops@lists.peeringdb.com](mailto: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: Greg Hankins (Chair) and Bijal Sanghani (Vice Chair)

Contact:  
[outreachcom@lists.peeringdb.com](mailto: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: Eric Loos (Chair) and Matt Griswold (Vice Chair)

Contact:  
[productcom@lists.peeringdb.com](mailto:productcom@lists.peeringdb.com)

# RESTful API Designed for Automation

- All operations are supported and are designed to be automated
  - Read
  - Create
  - Update
  - Delete
- List of objects: <https://peeringdb.com/apidocs/>
- API documentation: [http://docs.peeringdb.com/api\\_specs/](http://docs.peeringdb.com/api_specs/)

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# How to create a PeeringDB record

- 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



# 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

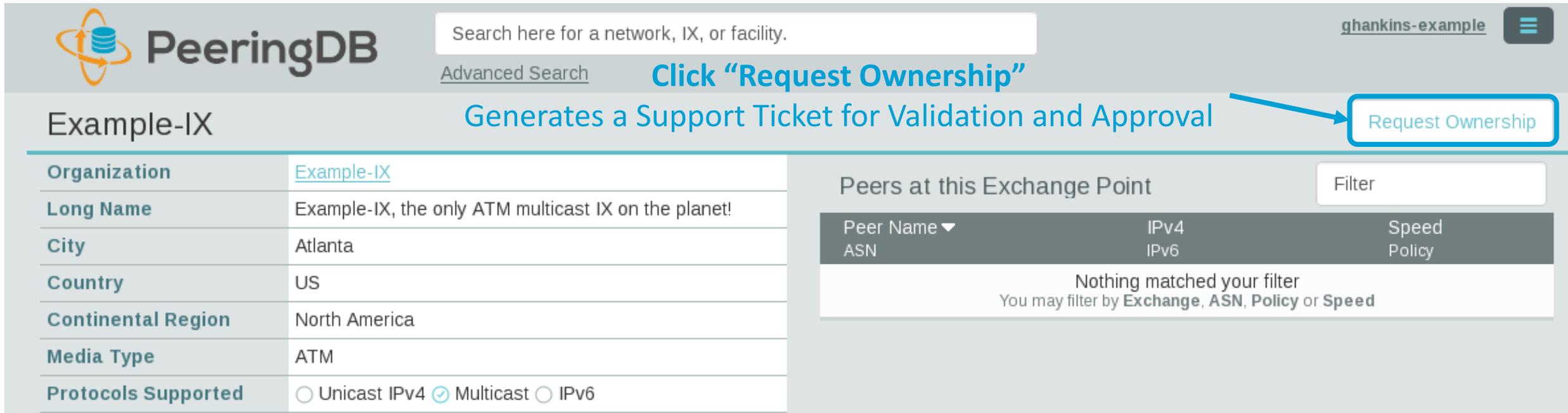
**1. Go to Your Profile**

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

The screenshot shows a web interface for PeeringDB. At the top right, there are links for 'Suggest Facility', 'Profile', and 'Logout'. The 'Profile' link is circled in blue, with an arrow pointing to the text '1. Go to Your Profile'. Below this is a 'Select language' section with a dropdown menu set to 'English' and a 'Set language preference' button. A message box states 'You have confirmed your email address!', which is circled in blue, with an arrow pointing to the text '2. Confirm Email Address'. Below the message is the 'Affiliate with organization' section. It contains three instructions: '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.', and 'To register a new facility or exchange organization, please enter the organization name below (ASN is optional)'. There are two input fields: 'ASN' and 'Organization'. The 'ASN' field is circled in blue, with an arrow pointing to the text '3. Enter ASN or Organization Here'. Below the input fields is an 'Affiliate' button, which is also circled in blue, with an arrow pointing to the text '4. Click "Affiliate"'. The background of the page is a light gray.

# Request Ownership of an Existing Organization

- Sometimes the organization record already exists
- If it does and nobody in your organization is updating it, you can request ownership



The screenshot shows the PeeringDB interface for an organization named 'Example-IX'. The organization details table is as follows:

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

Annotations on the screenshot include:

- A search bar at the top with the text 'Search here for a network, IX, or facility.'
- A user profile 'ghankins-example' in the top right corner.
- A blue arrow pointing to the 'Request Ownership' button, which is highlighted with a blue box.
- Text above the button: 'Click "Request Ownership" Generates a Support Ticket for Validation and Approval'.
- A section titled 'Peers at this Exchange Point' with a 'Filter' input field. Below it, a message states: 'Nothing matched your filter. You may filter by Exchange, ASN, Policy or Speed'.

# Network Record Contact Information Permissions

Contact Information

Role ▾	Name	Phone
	Visibility	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.

Unicast IPv4  Multicast  IPv6

Public Peering Exchange Points

Exchange	IPv4	Speed
ASN	IPv6	RS Peer
Nothing matched your filter You may filter by Exchange, ASN or Speed		
Exchange	<input type="text" value="mumbai  "/>	
Local ASN		
IPv4		
IPv6	<input type="text"/>	
Speed (mbit/sec)	<input type="text" value="0"/>	
RS Peer	<input type="checkbox"/>	

Private Peering Facilities

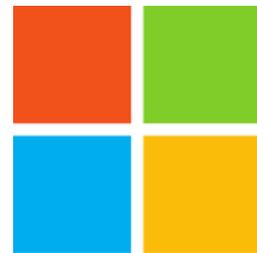
Facility	Country
ASN	City
Nothing matched your filter You may filter by Facility, ASN, Country, City	
Facility	<input type="text"/>

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RIPE NCC  
RIPE NETWORK COORDINATION CENTRE



AFRICA'S DATA CENTRE



zenlayer



# 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](mailto:stewards@lists.peeringdb.com)
- Admins: [support@peeringdb.com](mailto:support@peeringdb.com)
- Presentation requests:  
[productcom@lists.peeringdb.com](mailto:productcom@lists.peeringdb.com)
- Uptime status:  
<http://status.peeringdb.com/>
- Bugs and feature requests:  
 <https://github.com/peeringdb/peeringdb/>
- Social media:
  -  [@PeeringDB](https://twitter.com/PeeringDB)
  -  <https://www.facebook.com/peeringdb/>
  -  <https://www.linkedin.com/company/peeringdb>