

PeeringDB 2.0



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



Peering DB 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
- 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: 2.0.11



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!

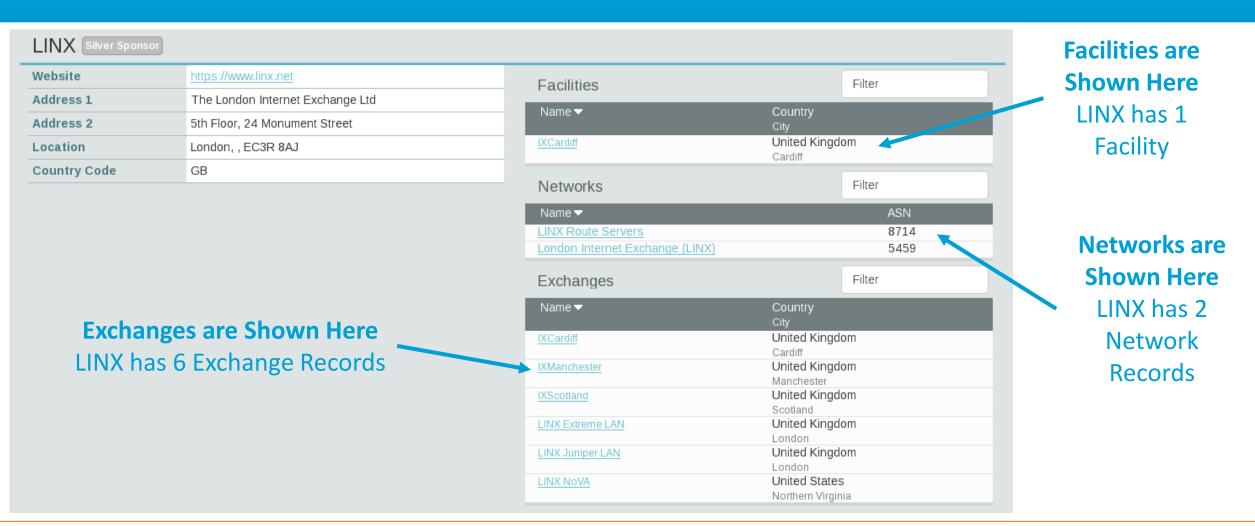


Key New User Features

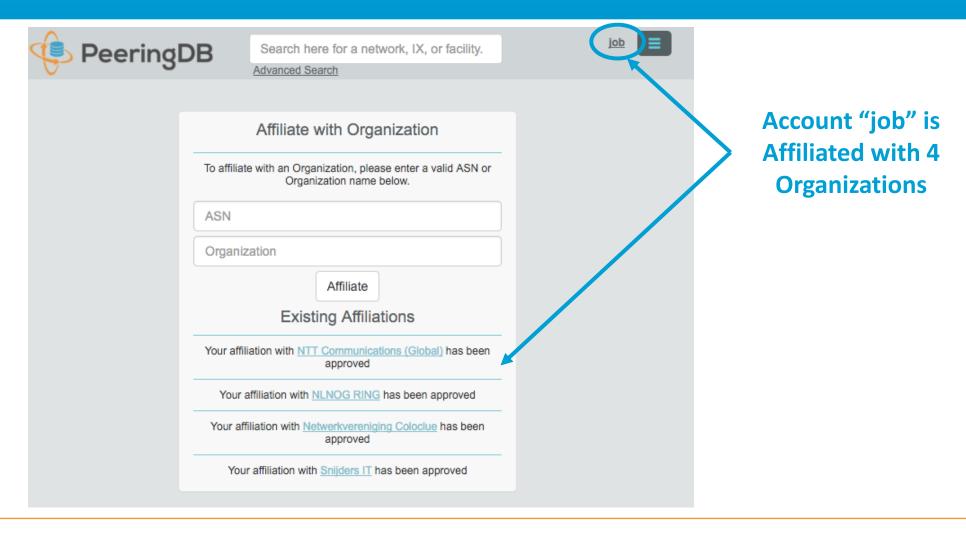
- Facilities and exchanges can now update their own info
 - Networks are still required to associate their record at a facility or exchange
- Multiple records of any type can be associated with an organization
 - Simpler organization management with a single account for network, facility, exchange records
- 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



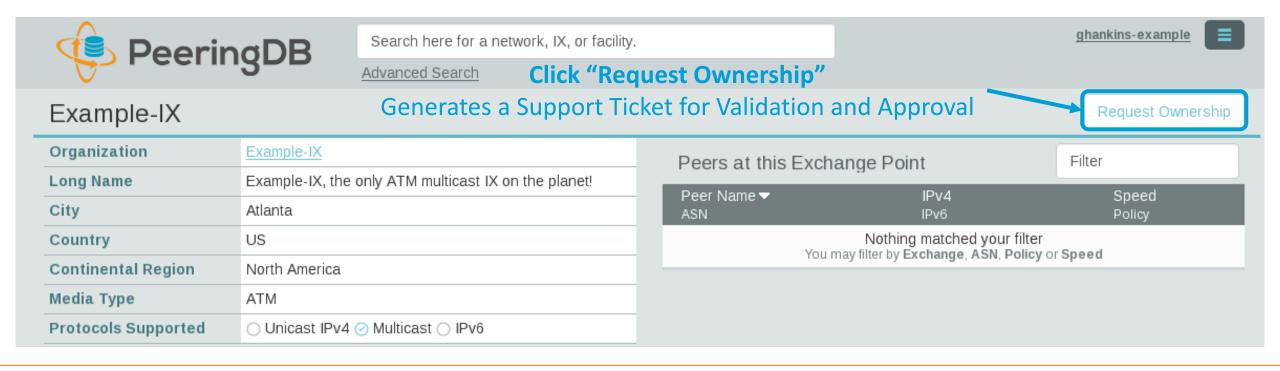
One Account Managing Multiple Organizations





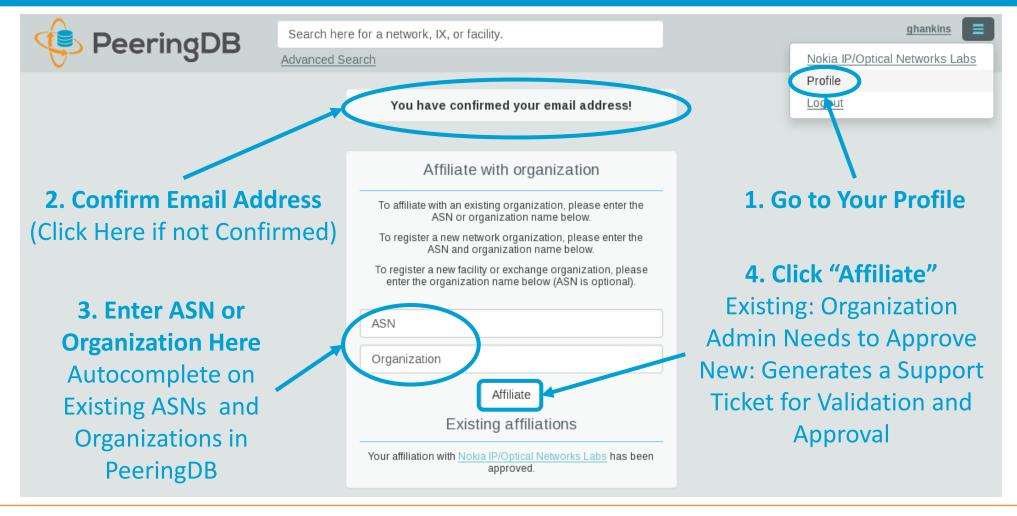
Request Ownership of an Existing Organization

- 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





Register or Request Affiliation to an Existing Organization

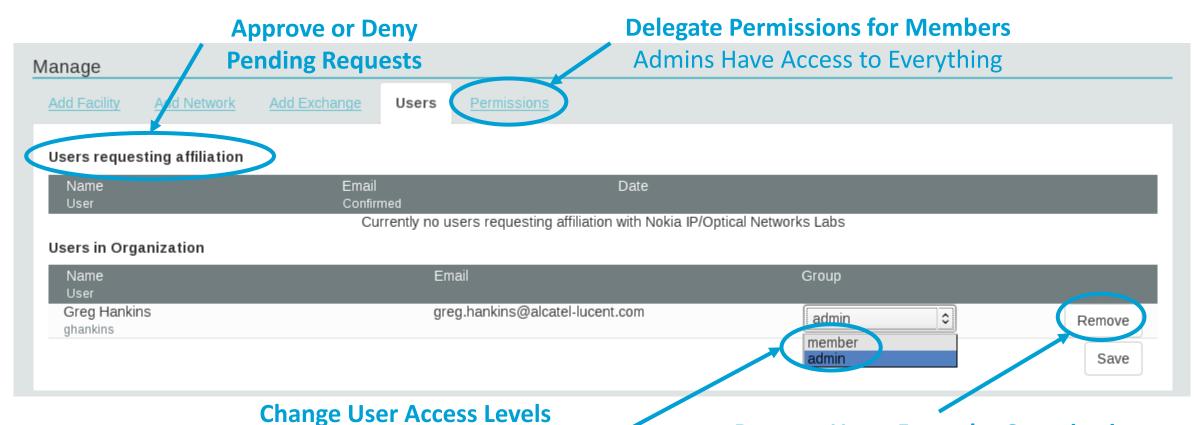




Organization User Management

Admin – Administrator

Member – Delegate Permissions



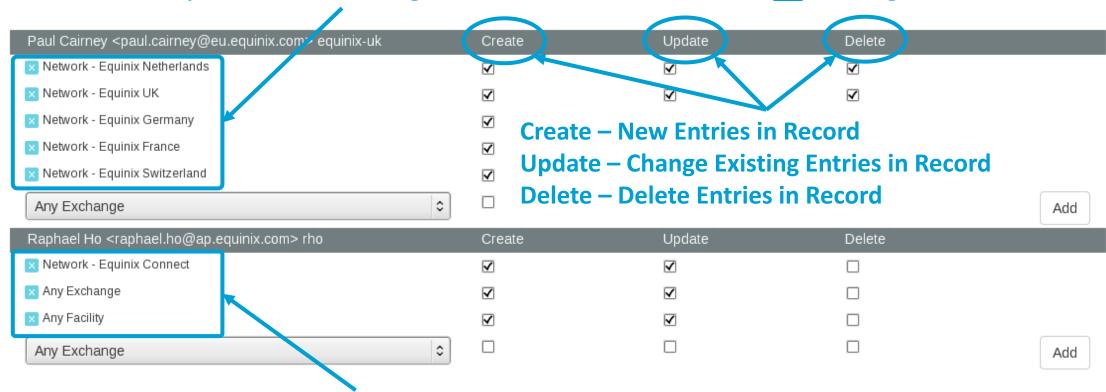


Remove Users From the Organization

Does not Remove the User Account From PeeringDB

Administrative Permission Delegation

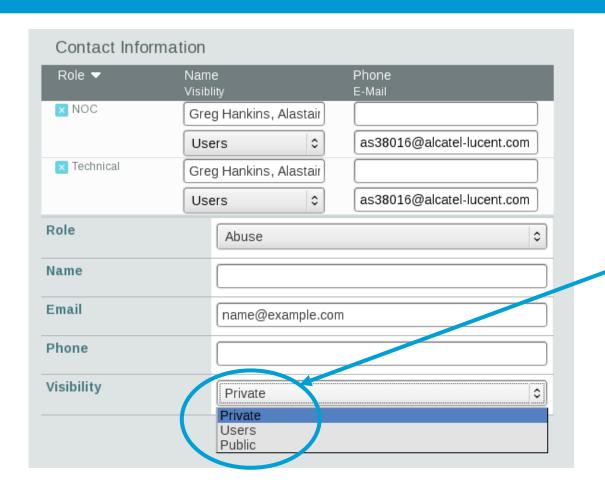
User "equinix-uk" can Manage Several Network Records, but no Exchanges or Facilities



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



Network Record Contact Information Permissions



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/



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



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Membership and Governance

- PeeringDB organization formally formed 16 Dec, 2015
- PeeringDB 501(c)(6) filed 7 Jan, 2016 (approved 24 Feb, 2016)
- 2nd election held April 2016: 94 organizations registered, 80 voted
- 292 addresses subscribed to the Governance mailing list (as of 16 May 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 0 community volunteers (1 year term)
- Contact: <u>support@peeringdb.com</u>

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: <u>productcom@lists.peeringdb.com</u>



Admin Committee



Samer Abdel-Hafez



Kate Gerry



Charles Gucker



Greg Hankins



Florian Hibler



Eric Lindsjö



Arnold Nipper – Vice Chair



Robert Philips



Eduardo Ascenço Reis



Job Snijders – Chair



Michael Still



Walt Wollny

Support Ticket Stats

Month	Tickets	Tickets/Day	Avg. Response Time (d)	Month	Tickets	Tickets/Day	Avg. Response Time (d)	
2015-01	206	6.87	1.41	2016-01	251	8.37	0.42	
2015-02	262	9.36	2.47	2016-02	276	9.52	0.44	
2015-03	276	9.20	2.22	2016-03	954	31.80	0.94	PDB 2.0 Launch 2016-03-15
2015-04	205	6.83	3.11	2016-04	704	23.47	0.54	2010-03-13
2015-05	195	6.50	4.87	2016-05	657	21.90	0.50	
2015-06	364	12.13	16.16	2016-06	611	20.37	0.75	
2015-07	268	8.93	10.13	2016-07	536	17.87	0.27	
2015-08	216	7.20	1.36	2016-08	468	16.14	0.39	
2015-09	211	7.03	0.49					
2015-10	226	7.53	0.52					
2015-11	191	6.37	0.39					
2015-12	208	6.93	0.37					

- Admin Committee volunteers are based around the world in a variety of time zones
- Goal is to respond to 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



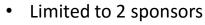
Arnold Nipper



Kay Rechthien

Become a PeeringDB Sponsor!





- 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 for sponsorship info



DE-CIX Frankfurt Platinum Sponsor				
Organization	DE-CIX Management GmbH			
Long Name	Deutscher Commercial Internet Exchange			
City	Frankfurt			
Country	DE			
Continental Region	Europe			





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Diamond Sponsors



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Gold **Sponsors**





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Information and Resources

- Announce list:
 http://lists.peeringdb.com/cgi bin/mailman/listinfo/pdb-announce
- Governance list:
 <u>http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov</u>
- Technical list: http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-tech
- User Discuss list: <u>http://lists.peeringdb.com/cgi-</u> bin/mailman/listinfo/user-discuss

- Docs, presentations, guides, tools: http://docs.peeringdb.com/
- Board and Officers: <u>stewards@lists.peeringdb.com</u>
- Admins: <u>support@peeringdb.com</u>
- Bugs and feature requests: https://github.com/peeringdb/peeringdb/
- @PeeringDB
 - https://www.facebook.com/peeringdb/
- https://www.linkedin.com/company/peeringdb



Thanks to Richard Turkbergen

The PeeringDB Board hereby expresses its enormous appreciation to Richard A. Turkbergen (née Steenbergen) for his creation and donation of PeeringDB to the organization.

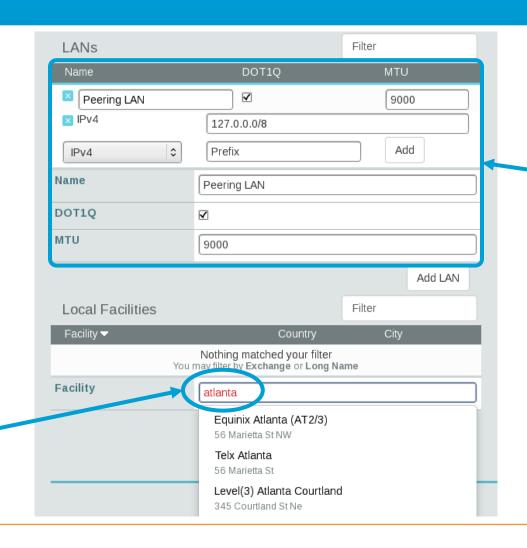




Questions?



Editing Your Exchange Record



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