

PeeringDB Update

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Agenda

- PeeringDB 2.0
- Membership / Governance
- Committees
- April 2016 Elections
- Sponsorship
- Contact Information

PeeringDB

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

- Peering DB 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 for registration (use C)
 pdb-tech@lists.peeringdb.com for discussion of the back end
- Challenges during the launch
 - Very minor bug fixes required, but overall a success!
 - Lots of support tickets
 - 2.0.9 current release
 - 20C (developer contractor) very responsive to community thanks!

Key New Infrastructure Features

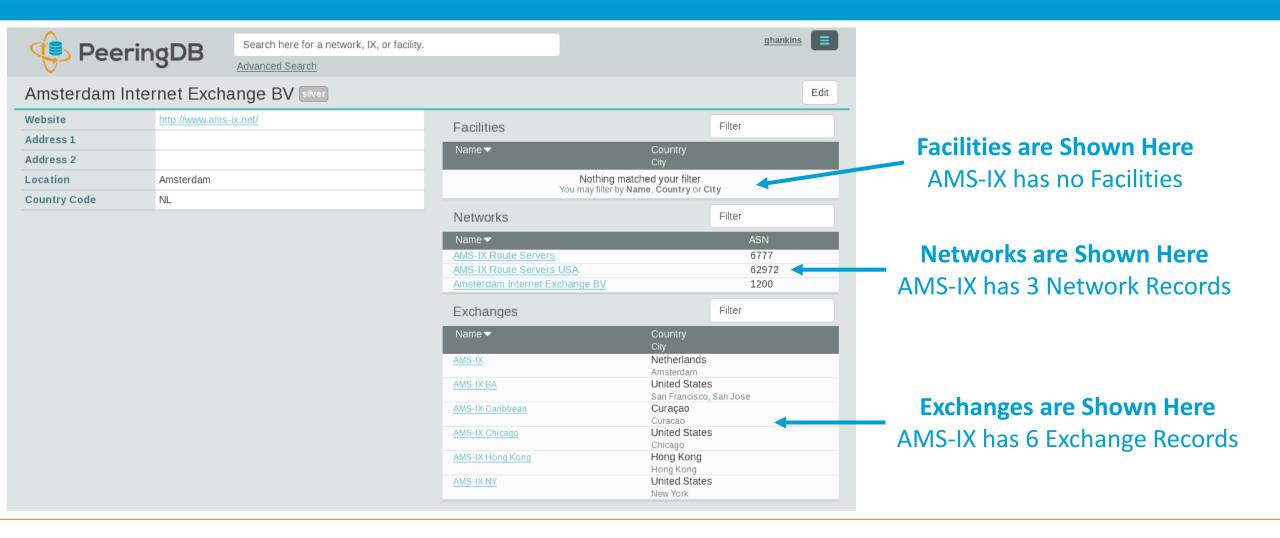
- Complete rewrite in Python
 - Fast and clean, widely used and supported
 - Support for a multideveloper environment
- Redesigned schema with data validation
 - All data is permissioned and editable
 - Input validation on fields: IP addresses, email addresses, etc.
 - Validation in PeeringDB record: dropdown box to select ASN at exchange
 Sta varsioning
- 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

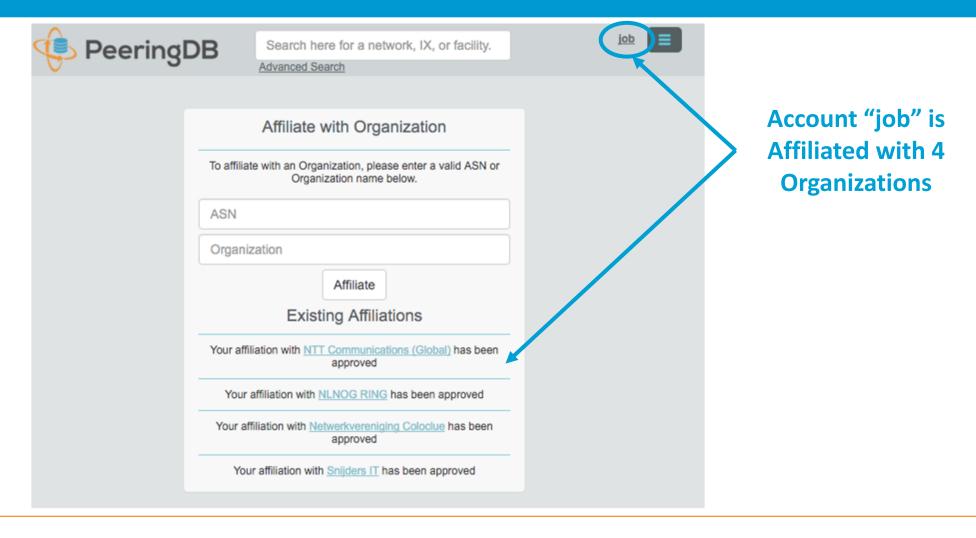
- Facilities and exchanges can now update their own info
 - Networks are still required to associate their record at a facility or exchange
- Multiple records of any type can be associated with an organization
 - Simpler organization management with a single account for network, facility, exchange records
- One account can manage multiple organization
 - Manage all of the things with a single account
- Users can manage their accounts
- sers 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

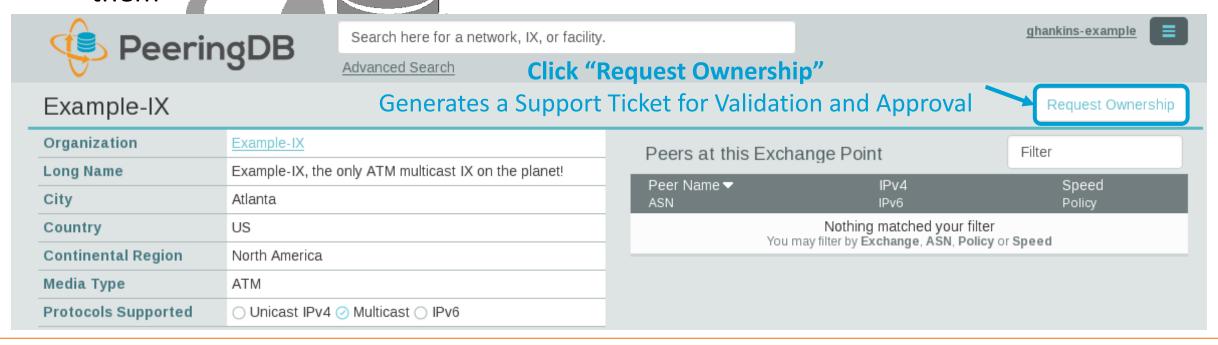


One Account Managing Multiple Organizations

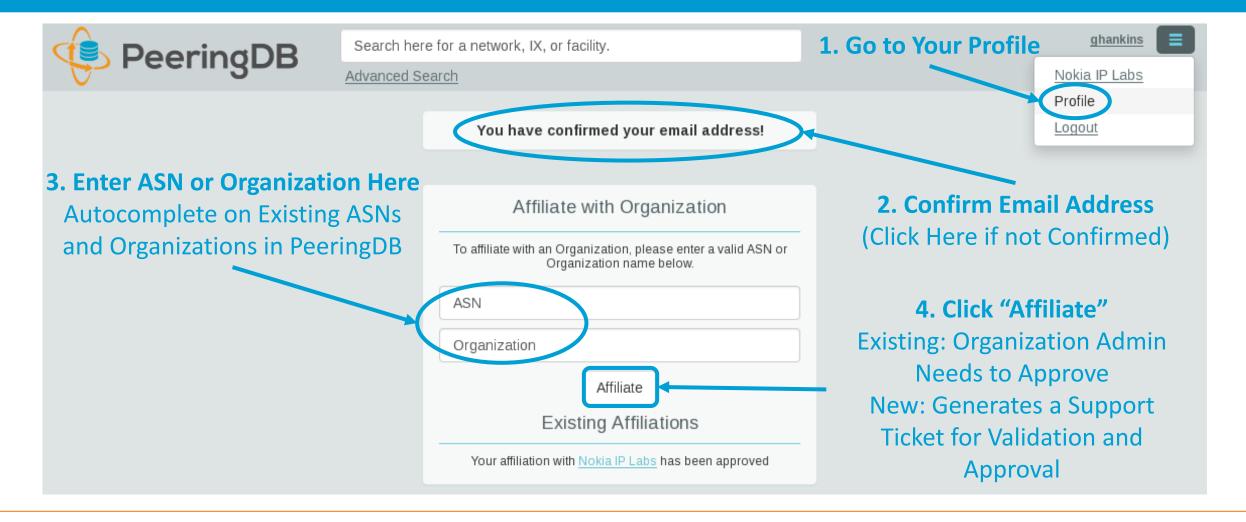


Request Ownership of an Existing Organization

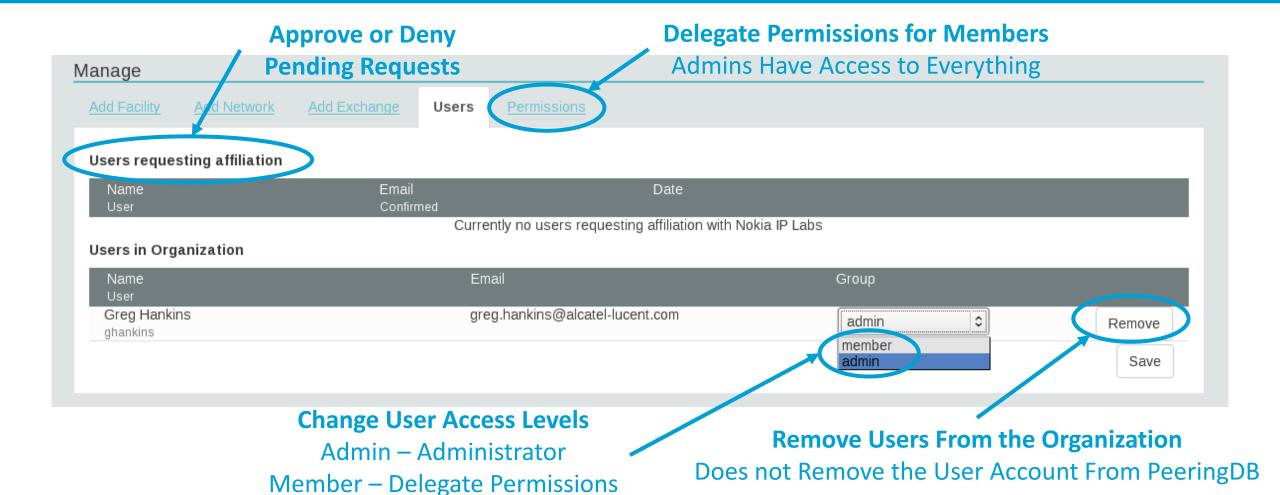
- Network records should already have an organization admin copied from PeeringDB 1.0
- Facility and exchange records will need to have an organization admin assigned to them



Request Affiliation to an Organization

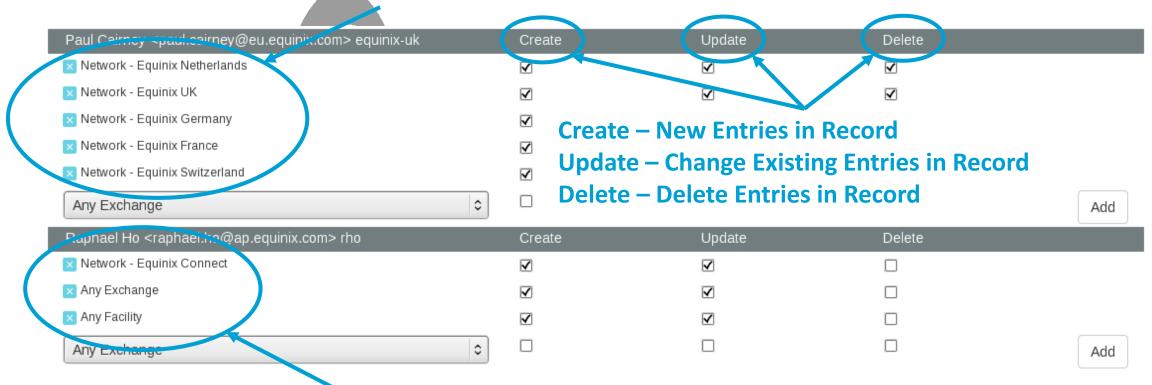


Organization User Management



Administrative Permission Delegation

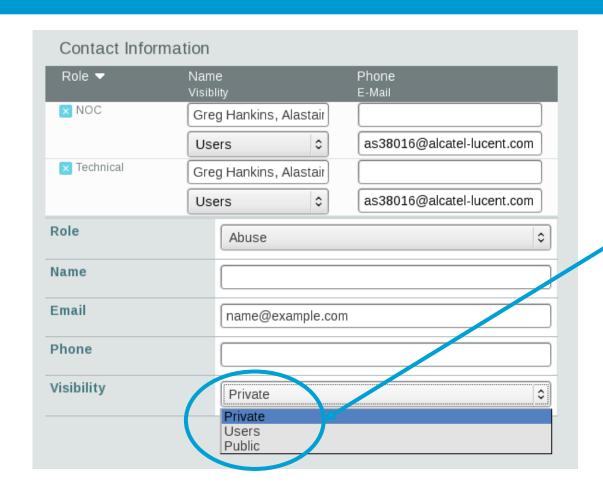
User "equinix-uk" can Manage Several Network Records, but no Exchanges or Facilities



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

19-20 April, 2016 SEE 5 - Tirana, Albania 12

Network Record Contact Information Permissions



Separate Visibility Preferences for Each Role

Private – Organization Only (Default)

Users – Registered Users Only

Public – Anyone (no Login Required)

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 tage ering DB 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

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 eering DB
- Add custom fields
- Choice of database engines
 - Currently supported: MySQL, Postgres, SQLite
 - Redis: https://github.com/netflix/peeringdb-py
- 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

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- 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 output in JSON or YAML format
- Provides a whois-like display of records
- Integrated local datbase sync
- Python library for integrate with custom tols need by
- Available at http://peeringdb.github.io/peeringdb-py/
- Examples at https://github.com/grizz/pdb-examples

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PeeringDB

Membership / Governance

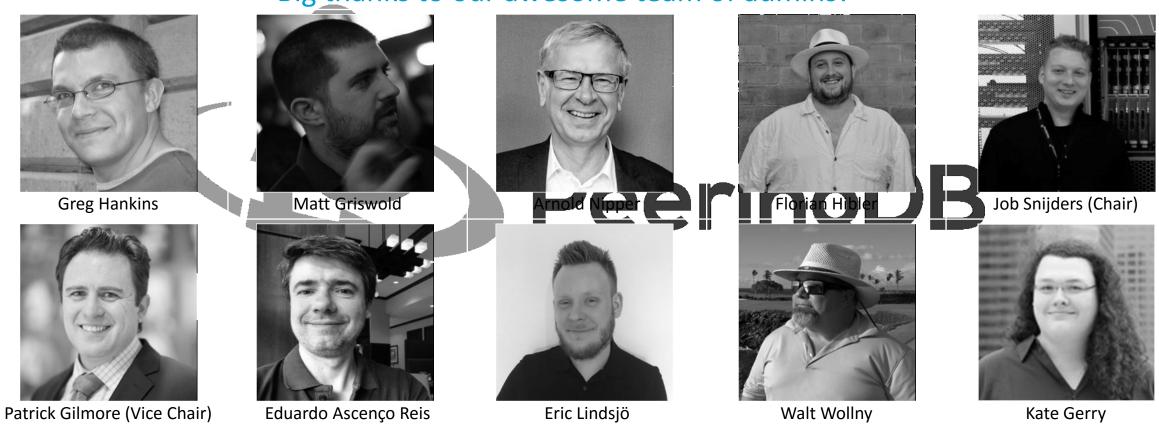
- Peering DB organization formally formed 16 Dec, 2015
- PeeringDB 501(c)(6) filed 7 Jan, 2016 (approved 24 Feb, 2016)
- 5 Board meetings have been held
- 86 members registered and voted in the first election
- 288 addresses subscribed to the Governance mailing list (as of 6 Apr 2016)
- A corporation, 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/

Committees

- Admin Committee
 - Will write charter (in progress)
 - Will seek individuals from the community to serve on Admin Committee
 - Will define roles, responsibilities and assist with schedule for Admin Commitee
 - Seeking 2 community volunteers (1 year term)
 - Board members Job Snijders and Patrick Gilmore (Snijders as Chair)
 - Interested in volunteering? Contact admincom@lists.peeringdb.com
- Product Development Committee
 - Will write charter
 - Will seek input from the community on desired features
 - Will write SoW's to solicit bids to complete requested features
 - Will manage priorities for selected development vendor(s)
 - Seeking 4 community volunteers (1 year term)
 - Board members Aaron Hughes and Matt Griswold (Hughes as Chair)
 - Interested in volunteering? Contact productcom@lists.peeringdb.com

Admin Committee

Big thanks to our awesome team of admins!



Interested in volunteering your service as an admin? Contact admincom@lists.peeringdb.com

Product Development Committee

- A Product Development Committee is needed
 - Direct feature requests
 - Maintain the product roadmap
- Interested in volunteering? Contact <u>productcom@lists.peeringdb.com</u>
- Feature requests can be sent to support representation for tracking

Become a PeeringDB Sponsor!

- Diamond Sponsorship \$25,000 / year
 - Limited to 2 sponsors
 - Very large logo on top line of Sponsors page
 - Diamond Sponsor display on records
- Platinum Sponsors 10,000 / year
 - Large logo on second line of Sponsors page
 - Platinum Sponsor display on records
- Gold Sponsorship \$5,000 / year
 - Medium logo on third line of Sponsors page
 - Gold Sponsor logo display on records
- Silver Sponsorship \$2,500 / year
 - Small logo on fourth line of Sponsors page
 - Silver Sponsor logo display on records
- Contact sponsorship@peeringdb.com for sponsorship info





Thank you to our initial sponsors!



Board Elections (April 2016)

- PeeringDB Board election in April 2016 (1 and 2 year terms)
- 5 seats up for election
- Current (initial) Board serves through April 2016
- Interested in more information about roles/responsibilities and time commitments?
 - Contact board@lists.peeringdb.com or http://gov.peeringdb.com/
- Through April 14th 23:59:59 UTC 2016: candidates may submit their candidacy and maximum 300 word statement, as determined by POSIX "LANG=en_US.UTF-8 wc-w" command, or revisions to their statement, to secretary@peeringdb.com
- April 15th 2016: ballots, with candidate statements, will be submitted to the PeeringDB Governance mailing list (pdb-gov@lists.peeringdb.com)
- Make sure to register until April 29th 00:00:00 UTC 2016 to be able to vote
- April 15th through April 29th 23:59:59 UTC 2016: voting

Board Elections (April 2016)

- Board candidates
 - Patrick W. Gilmore
 - Matt Griswold
 - Florian Hibler
 - Aaron Hughes
 - Arnold Nipper
 - Job Snijders



Mailing Lists

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



Have questions?

- PeeringDB Officers & Board (<u>stewards@lists.peeringdb.com</u>)
 - Aaron Hughes President, Director
 - Patrick Gilmore Vice President, Director
 - Chris Caputo Secretary & Treasurer (non-board member)
 - Matt Griswold Director
 - Arnold Nipper Director
 - Job Snijders Director



PeeringDB Admins (<u>support@peeringdb.com</u>)

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?

