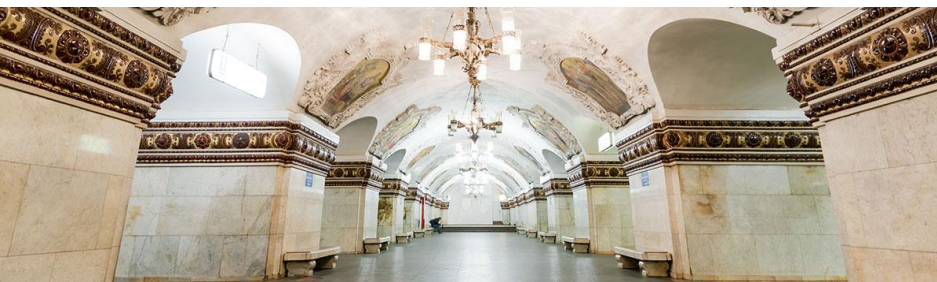# PeeringDB Update

Arnold Nipper

arnold@peeringdb.com

# Presentation Goals

- Slide overview and content
  - We're developing a new 2018 slide deck with a short/medium/long format for presentation at conferences
  - A 101 introduction tutorial is at the end after the main deck
  - Planning to expand the tutorial into more detailed 201, 301, etc. versions
- Highlight integration with PeeringDB
  - We want to promote the lastest tools and integration developments
  - If you have a tool you'd like us to announce, please get in touch at productcom@lists.peeringdb.com
- We want your feedback on PeeringDB's presence at conferences!
  - Goal is to educate and evangelize PeeringDB to facilitate interconnection
  - How can we be most effective in building the peering community?

# Agenda

1. Organization Update
2. Strategic Goals and Organizational Objectives
3. Feature Planning Process and Roadmap Update
4. Third Party Integration

# 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 a company email address

# 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

- 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
    - 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/

# Board of Directors and Officers



Chris Caputo – Secretary & Treasurer
(Non-Board Member)

Patrick Gilmore – Director
(Term Expires 2019)

Aaron Hughes – President
(Term Expires 2020)

Arnold Nipper – Director
(Term Expires 2019)

Bijal Sanghani – Director
(Term Expires 2019)

Job Snijders – Vice President
(Term Expires 2020)

# Committees

| Admin Committee | Operations Committee | Outreach Committee | Product Committee |
|---|---|---|---|
| • Manage administration of user accounts and PeeringDB records<br>• Answer support tickets | • Manage PeeringDB infrastructure | • Manage marketing and social media<br>• Develop and maintain presentations, workshops and webinars<br>• Coordinate presence at events | • Ask for input from the community on desired features<br>• Manage roadmap and development priorities<br>• Write SoWs to solicit bids to complete requested features |
| Leads: Arnold Nipper (Chair)<br><br>Contact:<br>admincom@lists.peeringdb.com | Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair)<br>Contact:<br>pdb-ops@lists.peeringdb.com | Leads: Greg Hankins (Chair) and Bijal Sanghani (Vice Chair)<br>Contact:<br>outreachcom@lists.peeringdb.com | Leads: Eric Loos (Chair) and Matt Griswold (Vice Chair)<br>Contact:<br>productcom@lists.peeringdb.com |

**NEW!**
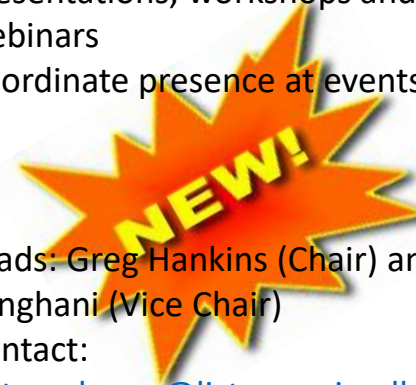
# Admin Committee

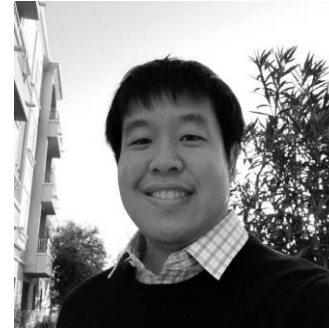Luisa Fernanda Villa y Battenberg
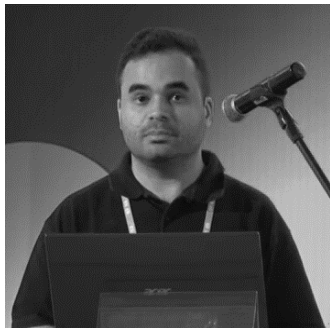
Hendrik Braasch

Christoffer Hansen

Peter Helmenstine

Bryan Jong

Noelle Kenny

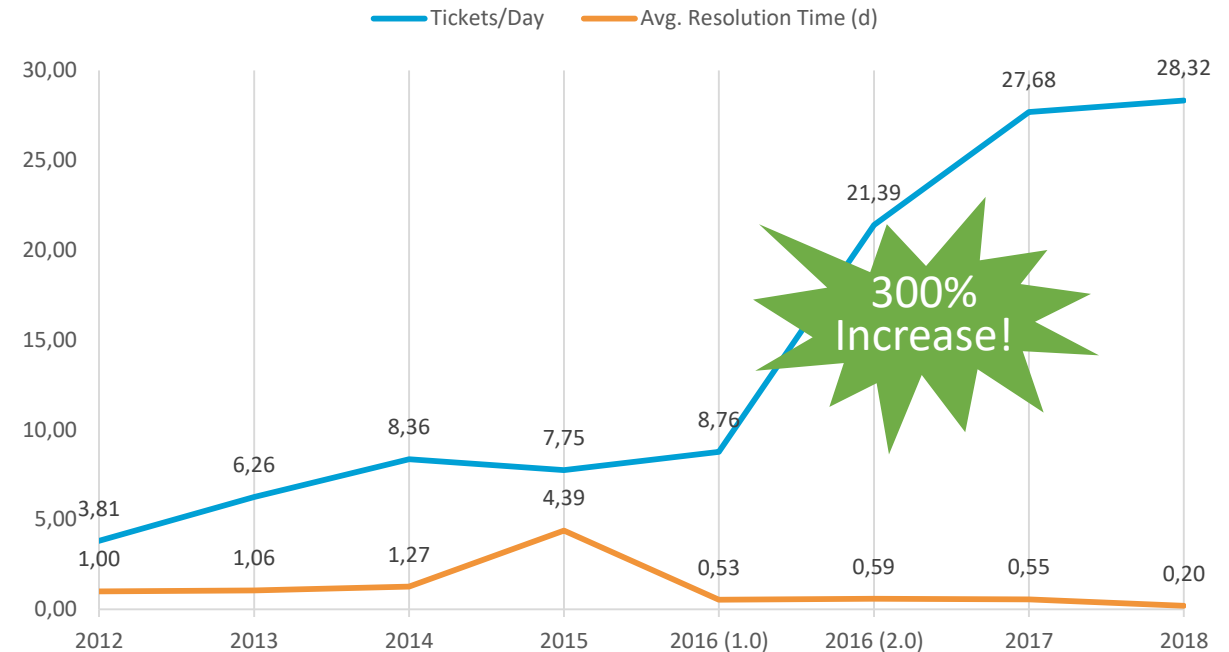Julimar Mendes

Arnold Nipper – Chair

Rob Parker

Brad Raymo

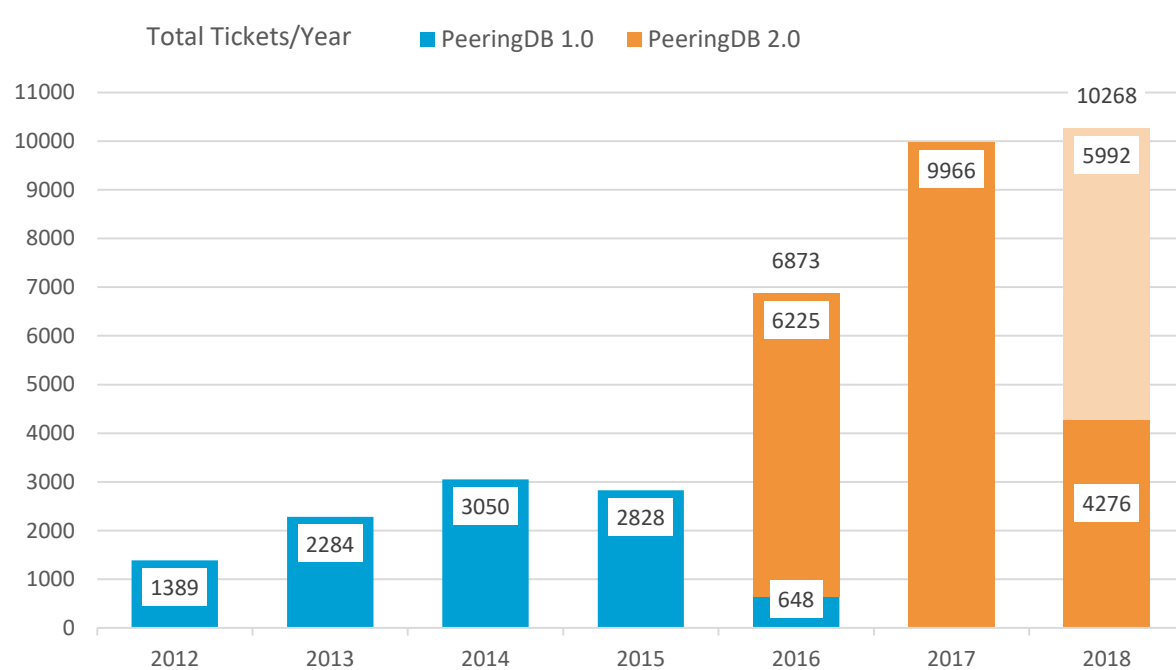Job Snijders

Marty Strong

# Support Ticket Statistics



Total Tickets/Year — PeeringDB 1.0 / PeeringDB 2.0

| Year | Value |
|------|-------|
| 2012 | 1389 |
| 2013 | 2284 |
| 2014 | 3050 |
| 2015 | 2828 |
| 2016 | 648 / 6225 (6873) |
| 2017 | 9966 |
| 2018 | 4276 / 5992 (10268) |

Tickets/Day — Avg. Resolution Time (d)

300% Increase!

| Year | Tickets/Day | Avg. Resolution Time (d) |
|------|-------------|--------------------------|
| 2012 | 3,81 | 1,00 |
| 2013 | 6,26 | 1,06 |
| 2014 | 8,36 | 1,27 |
| 2015 | 7,75 | 4,39 |
| 2016 (1.0) | 8,76 | 0,53 |
| 2016 (2.0) | 21,39 | 0,59 |
| 2017 | 27,68 | 0,55 |
| 2018 | 28,32 | 0,20 |

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

PeeringDB

# Automated Request Validation

- A lot of support tickets were opened to manually approve new network registrations and affiliation requests
- Automated request validation was introduced in PeeringDB 2.2.1 on July 5, 2017
  - Validation is based on RIR RDAP information
- Gives users immediate automated processing of these requests, no more waiting on a human to respond
- Significantly reduced the Admin Committee's workload
  - ~2,900 automated tickets services since July 5 , 2017 (33% of total tickets)
- First set of new, budgeted features following the Product Committee workflow

# Operations Committee

Matt Griswold

Aaron Hughes – Vice Chair

Stefan Pratter

Job Snijders – Chair

Matthew Walster

# Outreach Committee

Greg Hankins – Chair

Aaron Hughes

Arnold Nipper

Bijal Sanghani – Vice Chair

# Product Committee

Samer Abdel-Hafez

Karthik Arumugham

Matt Griswold – Vice Chair

Greg Hankins

Florian Hibbler

Aaron Hughes

Martin Levy

Eric Loos – Chair

Stephen McManus

Arnold Nipper

Chris Phillips

Job Snijders

# 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
- Contact sponsorship@peeringdb.com for sponsorship info

| Microsoft | Diamond Sponsor |
|---|---|
| Organization | Microsoft |
| Also Known As | 8068 |
| Company Website | http://www.microsoft.com |
| Primary ASN | 8075 |
| IRR Record | AS-MICROSOFT |

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

Proud Sponsor of
**PeeringDB**
GOLD

# Thank you to our sponsors!

**Diamond Sponsor**

amazon | Microsoft

**Platinum Sponsors**

DE-CIX | Google | YAHOO!

**Gold Sponsors**

facebook | France-IX Convergence hub | IX AUSTRALIA INTERNET PEERING FOR AUSTRALIA

PREFIX IPv4 BROKER | Stealth COMMUNICATIONS

**Silver Sponsors**

anexia | amsix | Akamai FASTER FORWARD | APNIC | BBIX Internet Exchange | cologix | DIGITAL REALTY | Internet Society | interxion

KDDI | TELEHOUSE | lacnic | linx | NETNOD | NIX·CZ | NLix neutral internet exchange | NTT Communications

NYIIX | LAIIX | PeeringManager | RIPE NCC RIPE NETWORK COORDINATION CENTRE | SysEleven | TERACO AFRICA'S DATA CENTRE | workonline communications | zenlayer

# Agenda

1. Organization Update
2. Strategic Goals and Organizational Objectives
3. Feature Planning Process and Roadmap Update
4. Third Party Integration

# 2018 – 2019 Strategic Direction

- Ensure reliability, security and support of PeeringDB services

- Maintain, develop, and enhance functionality of PeeringDB services as sought by the users and supported by the membership and community

- Educate the community on effective use of PeeringDB

- Evangelize use of PeeringDB

**Rock Solid
Critical Infrastructure**

Uptime Status: http://status.peeringdb.com/

# 2018 – 2019 Strategic Direction

- Encourage support of PeeringDB via sponsorship
- Build a reserve of 2 years of operational funds for the longterm stability of the organization
- Strengthen relationships with operator and peering forums, and other related databases, to work cooperatively on interconnection topics
- Strengthen relationships with Regional Internet Registries (RIRs) with respect to access to authoritative data
- Legal review of liabilities, and insurance (D&O)
- Succession planning
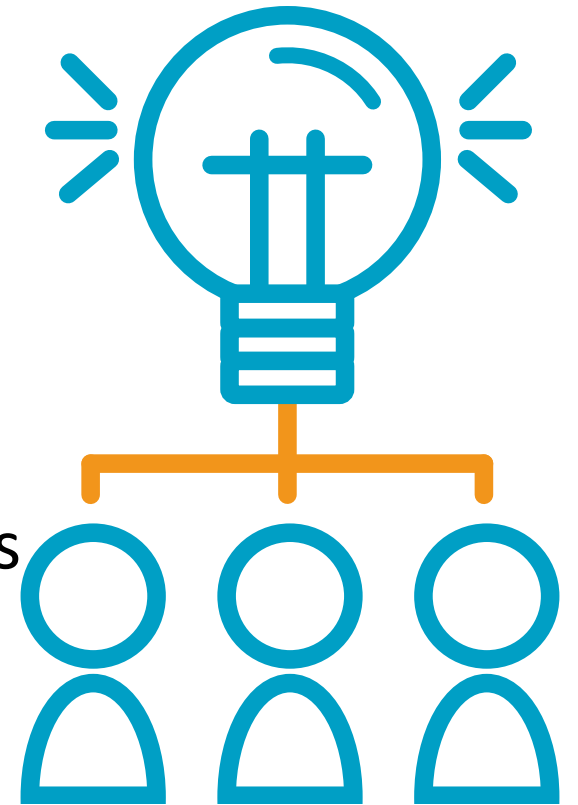
# High Priority Tasks for 2018

- Maintain SLAs and contracts for all supporting service providers

- Write Operational Service Level Policy (OSLP) for services provided to the community and regularly report compliance

- Document operational infrastructure

- Regular third-party security audit

- Ensure security for private user data

- Conduct redundancy and restoration test bi-annually

- Provide education material in the form of a quick start guide, embedded online assistance, webinars and tutorials for both users and developers

# Agenda

1. Organization Update
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# Feature Workflow

- All features tracked using GitHub at https://github.com/peeringdb/peeringdb/issues with the ZenHub overlay
  - Anyone can open a feature requests, there are no internal or hidden requests
  - Open and transparent process for feature development
  - Workflow is at http://docs.peeringdb.com/workflow/
- Product Committee feature process
  - Evaluate and prioritize the requests
  - Request a quote for development costs
  - Request budget from the board
  - Manage implementation and scheduling

| Example Categories |
| --- |
| AC (Support Workflow) |
| Bug |
| Enhancement |
| Usability |

## Your input is needed on features!

PeeringDB

# New 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
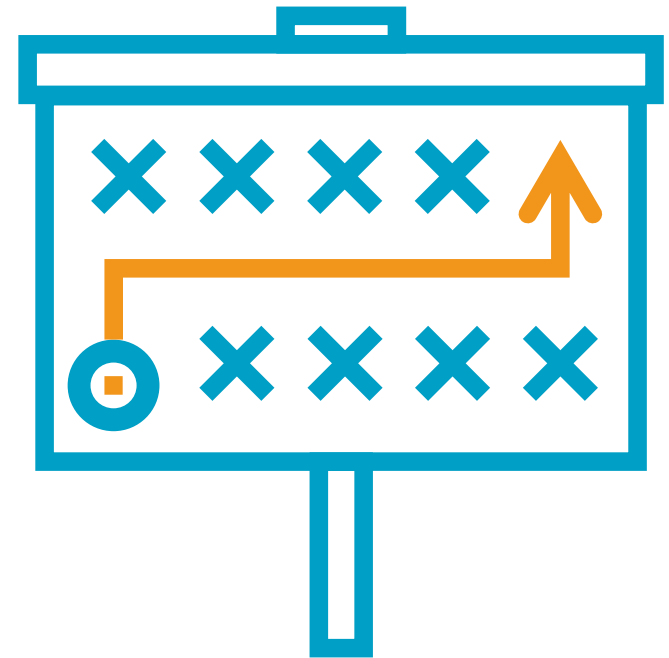
# Beta Development

- 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

# 2018 Roadmap

- Several maintenance releases with small features have been released since PeeringDB 2.0 was launched

- Released 2.5.3 on 2017-09-06
  - Updated to Django 1.11; added coordinates for facilities and organizational addresses

- Released 2.6.5 on 2017-11-14
  - Allow IXP Updates and Import of member information in IX-F JSON schema format

- We will have major releases with larger features in 2018

- Roadmap focus areas
  - Data quality, privacy, confidentiality
  - Usability and API
  - Platform stability and reliability
  - Product evolution

- Communication focus areas
  - Partner management
  - Communication outreach
  - Membership engagement

# 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**

** We welcome and encourage dual-stack peering at all peering locations.

**PeeringDB Configuration**

Allow IXP Update    ○

**Peering Policy Information**
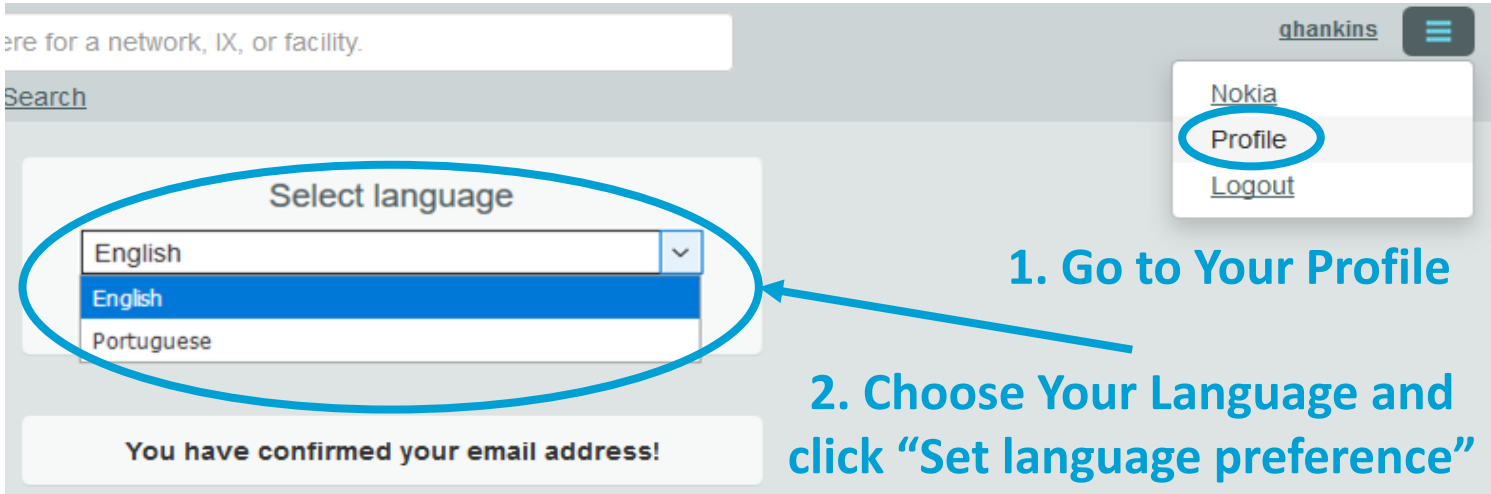
Networks Click "Allow IXP Update" in Network Record

LANs                          Filter

| Name | DOT1Q | MTU |
| --- | --- | --- |
| ☒ Main | ☐ | 1500 |

IXF Member Export URL

| ☒ IPv4 | 80.81.192.622 |
| --- | --- |
| ☒ IPv6 | 2001:7f8::/64 |

IXPs Set Export URL in Exchange Record

# Internationalization Support – New in 2.9.1

**1. Go to Your Profile**

**2. Choose Your Language and click "Set language preference"**

**3. Text Now Appears in the Selected Language!**

**Translations Wanted!**
Get in Touch With
productcom@lists.peeringdb.com
if You are Interested in Translating

Especificamente, somos um banco de dados de redes que fazem peering, onde eles fazem peering, e se eles gostariam de fazer peering com você. Se você não sabe o que é peering, e/ou se você ainda não faz peering, então isso provavelmente não terá qualquer significado para você.

Você está atualmente numa visualização somente leitura dos dados contidos aqui. Se você é uma rede de peering que gostaria de criar uma conta, você pode se registrar para uma aqui. Por favor, registrar apenas se estiver uma rede de Peering

Ainda tem dúvidas ou perguntas? Leia o nosso FAQ

# Agenda

1. Organization Update
2. Strategic Goals and Organizational Objectives
3. Feature Planning Process and Roadmap Update
4. Third Party Integration

# Third Party Integration

- PeeringDB maintains interconnection data
  - Permissions and privacy on user information are set by the user
  - Accuracy is essential
  - Exchange sources are vetted
  - Data conflicts are resolved by the Admin Committee
- Third party integration with PeeringDB has started in two ways
  - Data exchange with organizations
  - Use by free and commercial software, full list at http://docs.peeringdb.com/#tools

# Data Exchange

- PeeringDB's goals are to
  - Maintain data integrity
  - Provide complete data needed for interconnection
- Working to exchange data with organizations that maintain data on facilities, IXPs, and networks
  - Open and transparent process and integration
  - Not for user data
- IXP data: IX-F, PCH
- Network data: RIRs (ASNs)
- Facility data: Inflect

# Facility Data Validation by Inflect

- Facility data is inconsistent and incomplete
  - Any registered user can suggest facility data
  - Sometimes it's maintained by the facility operator, often it's not
- Inflect is an open, neutral search and procurement tool for internet infrastructure services that provides accurate, validated information
  - Preferred partner to provide free validation of facility data
  - LOI signed August 4, 2017
  - Work in progress now to exchange and import validated facility data



Unvalidated Facility Data

Validated Facility Data

Validation
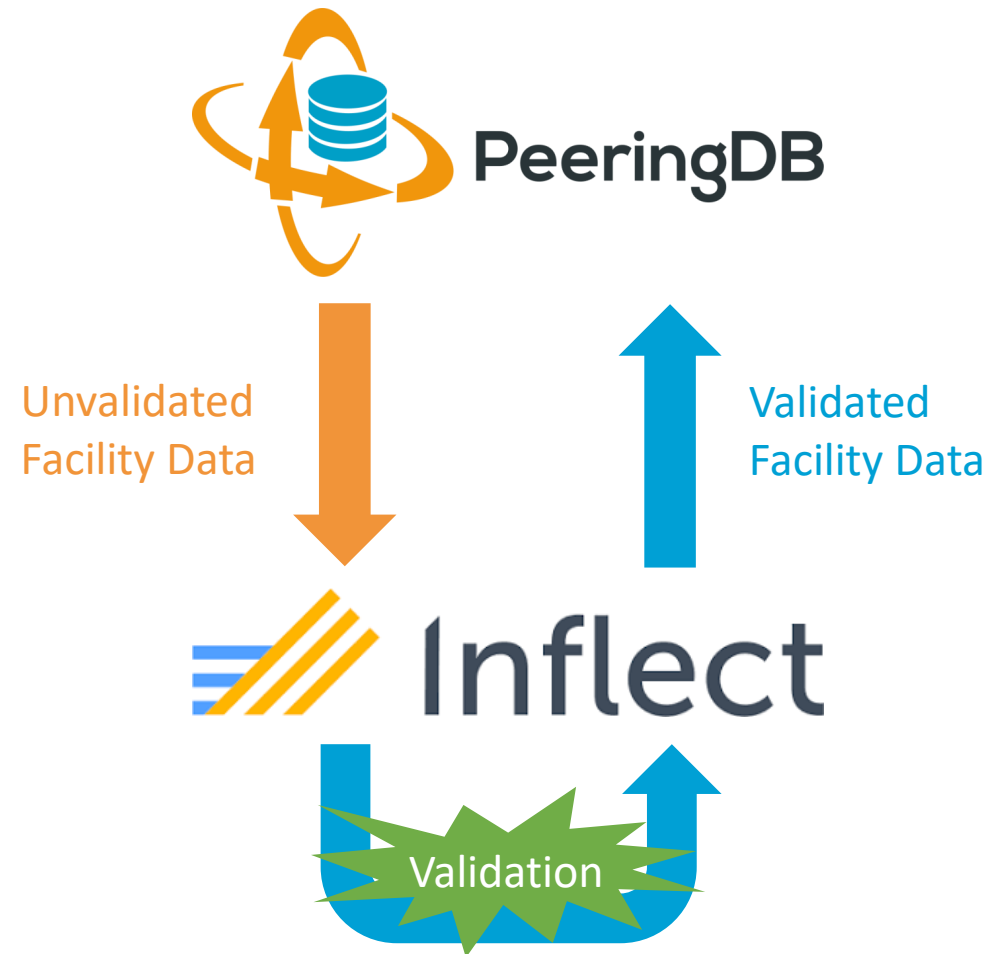
# Information and Resources

- 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: productcom@lists.peeringdb.com

- Uptime status: http://status.peeringdb.com/

Bugs and feature requests: https://github.com/peeringdb/peeringdb/

- Social media:

@PeeringDB

https://www.facebook.com/peeringdb/

https://www.linkedin.com/company/peeringdb

# Questions?

# Tutorial Slides

# PeeringDB 2.0 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!
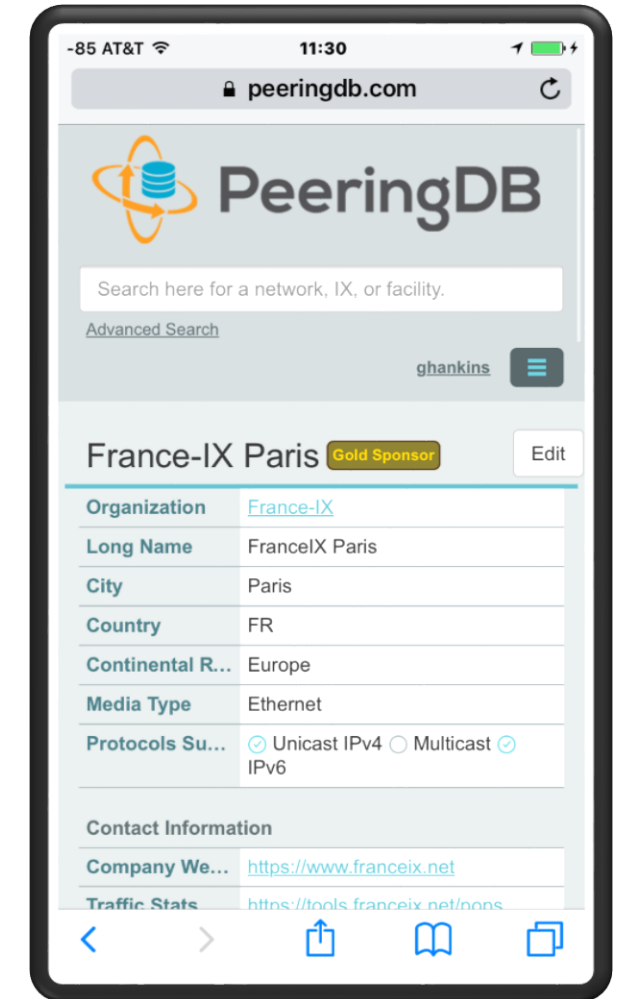
# PeeringDB 2.0 Key New User Features

- 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

# 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, " ... }
```

# List All Peers at an IXP (CATNIX)

## Peers at this Exchange Point

Filter

| 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:0:2:1:2:9518 | 10G / Open |
| Altecom (Alta Tecnologia en Comunicacions, S.L.) / 16030 | 193.242.98.4 / 2001:7f8:2a:0:1:1:1:6030 | 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 |
| CATNIX-SERVICES / 49638 | 193.242.98.119 / None | 6G / Open |
| Claranet / 8426 | 193.242.98.131 / 2001:7f8:2a:0:2:1:0:8426 | 1G / Selective |
| Cloudflare / 13335 | 193.242.98.153 / 2001:7f8:2a:0:2:1:1:3335 | 10G / Open |
| Colt Technology Services / 8220 | 193.242.98.13 / None | 1G / Open |
| CSUC / 13041 | 193.242.98.38 / None | 10G / Open |
| Easynet Global Services / 4589 | 213.234.0.15 / 2001:7f8:2a:0:2:1:0:4589 | 1G / Selective |
| EBRETIC ENGINYERIA SL / 199496 | 193.242.98.162 / 2001:7f8:2a:0:3:1:19:9496 | 1G / Open |

```
% curl -s -X GET https://www.peeringdb.com/api/netixlan\?ixlan_id=62 \
  | jq '.data[]'
{
  "id": 459,
  "net_id": 91,
  "ix_id": 62,
  "name": "CATNIX",
  "ixlan_id": 62,
  "notes": "",
  "speed": 1000,
  "asn": 8220,
  "ipaddr4": "193.242.98.13",
  "ipaddr6": null,
  "is_rs_peer": false,
  "created": "2010-07-29T00:00:00Z",
  "updated": "2016-03-14T21:09:42Z",
  "status": "ok"
}
```

# 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

# 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

# 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

# Multiple Records Under a Single Organization



**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



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

# Organization User Management

**Approve or Deny Pending Requests**

**Delegate Permissions for Members**
Admins Have Access to Everything

Manage

Add Facility     Add Network     Add Exchange     Users     Permissions

Users requesting affiliation

| Name User | Email Confirmed | Date |
|---|---|---|
| | Currently no users requesting affiliation with Nokia IP/Optical Networks Labs | |

Users in Organization

| Name User | Email | Group | |
|---|---|---|---|
| Greg Hankins ghankins | greg.hankins@alcatel-lucent.com | admin | Remove |
| | | member | |
| | | admin | Save |

**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**

| Paul Cairney <paul.cairney@eu.equinix.com> equinix-uk | Create | Update | Delete |
|---|---|---|---|
| Network - Equinix Netherlands | ☑ | ☑ | ☑ |
| Network - Equinix UK | ☑ | ☑ | ☑ |
| Network - Equinix Germany | ☑ | | |
| Network - Equinix France | ☑ | | |
| Network - Equinix Switzerland | ☑ | | |
| Any Exchange | ☐ | | |

Add

**Create – New Entries in Record**
**Update – Change Existing Entries in Record**
**Delete – Delete Entries in Record**

| Raphael Ho <raphael.ho@ap.equinix.com> rho | Create | Update | Delete |
|---|---|---|---|
| Network - Equinix Connect | ☑ | ☑ | ☐ |
| Any Exchange | ☑ | ☑ | ☐ |
| Any Facility | ☑ | ☑ | ☐ |
| Any Exchange | ☐ | ☐ | ☐ |

Add

**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

# 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**

# Adding a New Exchange to Your Organization



**Generates a Support Ticket for Validation and Approval**

**Enter Exchange Info Here, Then Click "Submit Exchange"**

# Editing Your Exchange Record



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

**Enter Exchange Info Here, Then Click "Save"**

# 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

# Questions?

Extra Slides

# 2017 Organizational Objectives

- Obtain contracts for all supporting service providers
- Ensure supporting services are always available
- Ensure regular backups for all services
- Ensure security for private user data
- Conduct redundancy and restoration test bi-annually
- Support the Admin Committee to ensure user expectations are met
- Manage contractor for maintenance, minor development and basic support for underlying PeeringDB platform
- Support the Product Committee for major development and feature enhancements to ensure user expectations are met

- Provide education material in the form of a quick start guide, embedded online assistance, webinars and tutorials
- Participate in peering discussions globally where possible
- Expand social media presence as new material is created
- Survey the existing sponsors
- Write and implement surplus plan
- Present at major conferences where possible
- Conduct one election in April each year
- Conduct one member meeting in April each year
- Engage council for annual review of liabilities and insurance
- Write succession plan

# Software Highlight: TraceMON

- TraceMON is a tool for visualizing a network topology generated by traceroutes
  - Provides one-click access to IXP and network info
  - Displays PeeringDB info and allows the user to update their record
- RIPE Atlas users can access it by selecting a traceroute measurement and clicking on the TraceMON tab at https://atlas.ripe.net/measurements/?search=&status=&af=&kind=2%2C4&age=#!tab-public
- Full article is at https://labs.ripe.net/Members/massimo_candela/tracemon-traceroute-visualisation-network-debugging-tool