



# PeeringDB Update

Arnold Nipper

[arnold@peeringdb.com](mailto:arnold@peeringdb.com)



# Agenda

1. Organization and Election 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



# 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
  - 327 addresses subscribed to the Governance mailing list (as of 25 Apr, 2017)
  - 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 2018)



Arnold Nipper – Director  
(Term Expires 2019)



Bijal Sanghani – Director  
(Term Expires 2019)



Job Snijders – Vice President  
(Term Expires 2018)

# Committees

## Admin Committee

- Manage administration of user accounts and PeeringDB records
- Answer support tickets

Leads: Arnold Nipper (Chair) and Bijal Sanghani (Vice Chair)

Contact:

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

## Operations Committee

- Manage PeeringDB infrastructure

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

Contact:

[pdb-ops@lists.peeringdb.com](mailto:pdb-ops@lists.peeringdb.com)

## 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

Leads: Eric Loos (Chair) and Matt Griswold (Vice Chair)

Contact:

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

# Admin Committee



Samer  
Abdel-Hafez



Luisa Fernanda Villa  
y Battenberg



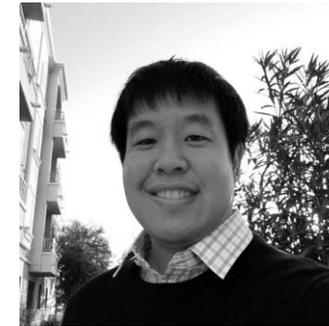
Hendrik  
Braasch



Christoffer  
Hansen



Peter  
Helmenstine



Bryan  
Jong



Noelle  
Kenny



Julimar  
Mendes



Arnold Nipper -  
Chair



Rob  
Parker



Brad  
Raymo



Bijal Sanghani –  
Vice Chair

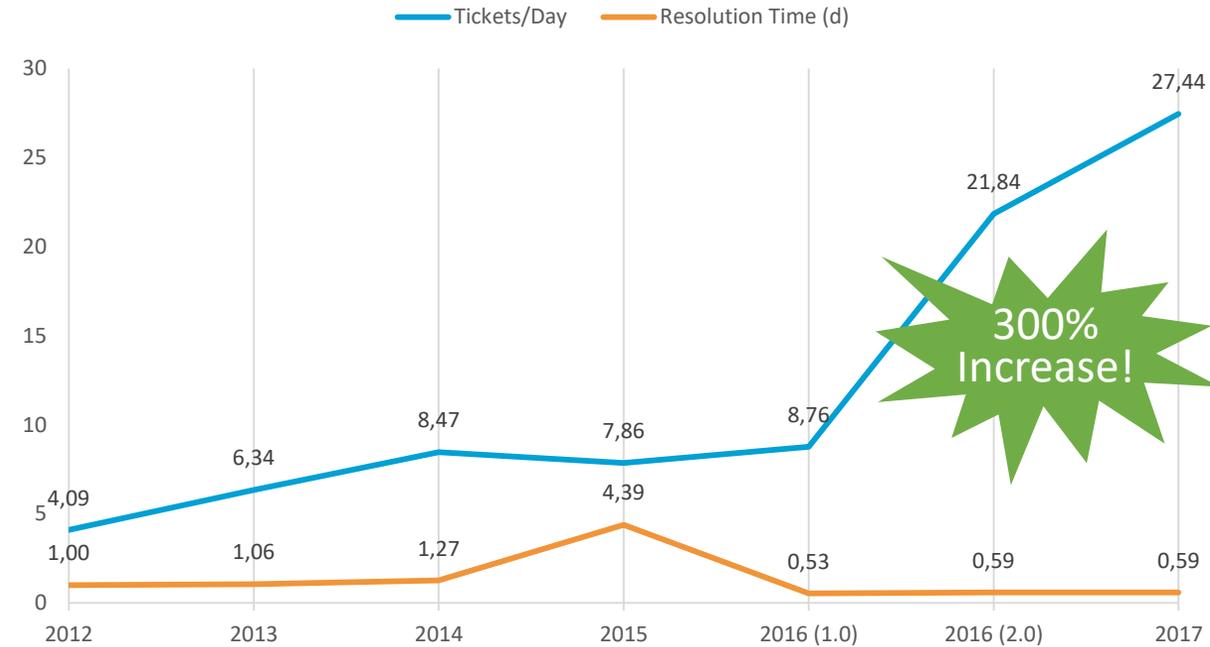
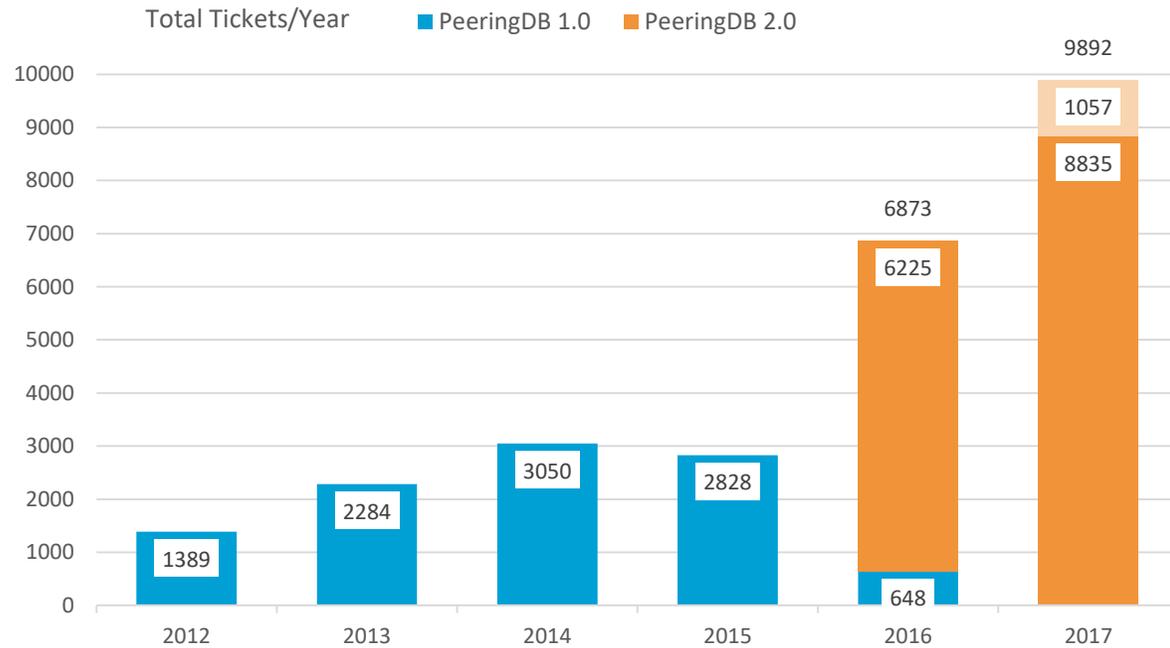


Job  
Snijders



Marty  
Strong

# Support Ticket Statistics



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

# 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 whois / RDAP information
  - LACNIC validation expected to work by mid-August with their new RDAP software
- Gives users immediate automated processing of these requests, no more waiting on a human to respond
- Significantly reduced the Admin Committee's workload
  - ~1350 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

# Product Committee



Karthik  
Arumugham



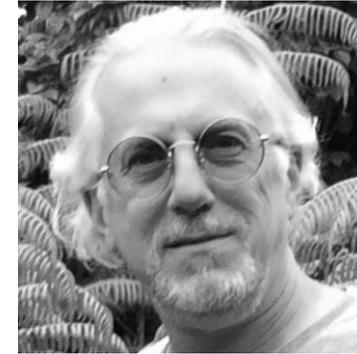
Matt Griswold –  
Vice Chair



Greg  
Hankins



Aaron  
Hughes



Martin  
Levy



Eric Loos –  
Chair



Stephen  
McManus



Arnold  
Nipper



Chris  
Phillips



Kay  
Rechthien



Bijal  
Sanghani



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](mailto:sponsorship@peeringdb.com) for sponsorship info

Microsoft	Diamond Sponsor
Organization	<a href="#">Microsoft</a>
Also Known As	8068
Company Website	<a href="http://www.microsoft.com">http://www.microsoft.com</a>
Primary ASN	8075
IRR Record	AS-MICROSOFT

DE-CIX Frankfurt	Platinum Sponsor
Organization	<a href="#">DE-CIX Management GmbH</a>
Long Name	Deutscher Commercial Internet Exchange
City	Frankfurt
Country	DE
Continental Region	Europe

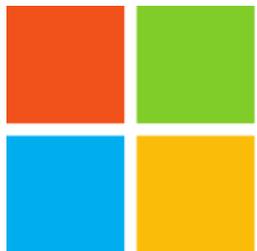


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**PeeringDB**



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Diamond  
Sponsor



# Microsoft

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# MARKLEY

# YAHOO!

Gold  
Sponsors

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INTERNET PEERING FOR AUSTRALIA

# PREFIX IPv4 BROKER

Silver  
Sponsors



DIGITAL REALTY



# interxion™



# TELEHOUSE



# netnod



NIX.CZ



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# LAIIX<sup>®</sup>



# PeeringManager



# RIPE NCC



# TERACCO™



# zenlayer

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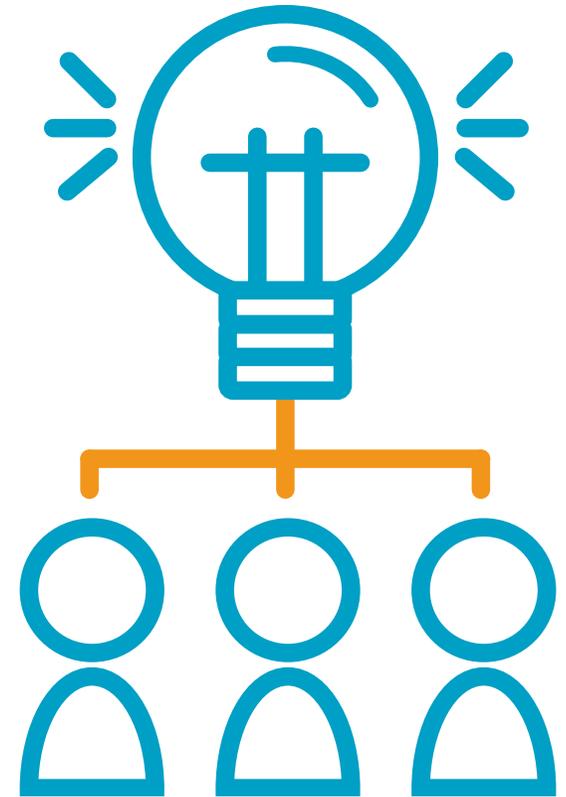
# 2017 – 2018 Strategic Direction

- 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
- Educate the community on interconnection
- Evangelize use of PeeringDB



# 2017 – 2018 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
- Legal review of liabilities, and insurance (D&O)
- Succession planning



# High Priority Projects for this Fall and Winter

- New Operations Committee formed to address recent outage
  - Members: Matt Griswold, Aaron Hughes, Stefan Pratter, Job Snijders (Chair), Matthew Walster
  - Responsible for managing infrastructure
  - Goal to move PeeringDB to a cloud provider before end of 2017
- PeeringDB code base to be open source
  - Open sourcing the platform will drive innovation
  - Open source license to be decided
  - Expected publication date of January 2018

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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

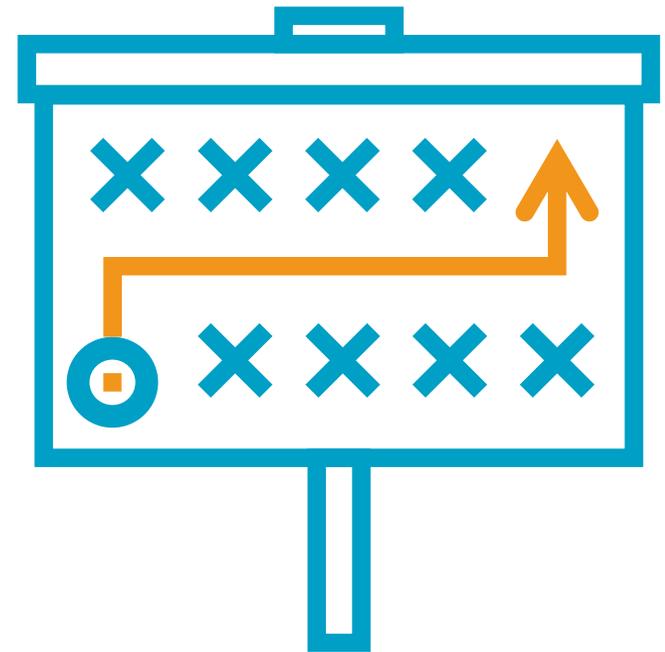
Enhancement

Usability

Your input is needed on features!

# 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>



# 2017 Roadmap

- Several maintenance releases with small features have been released since PeeringDB 2.0 was launched
- We will have major releases with larger features in 2017
  - 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
- 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

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# Third Party Integration

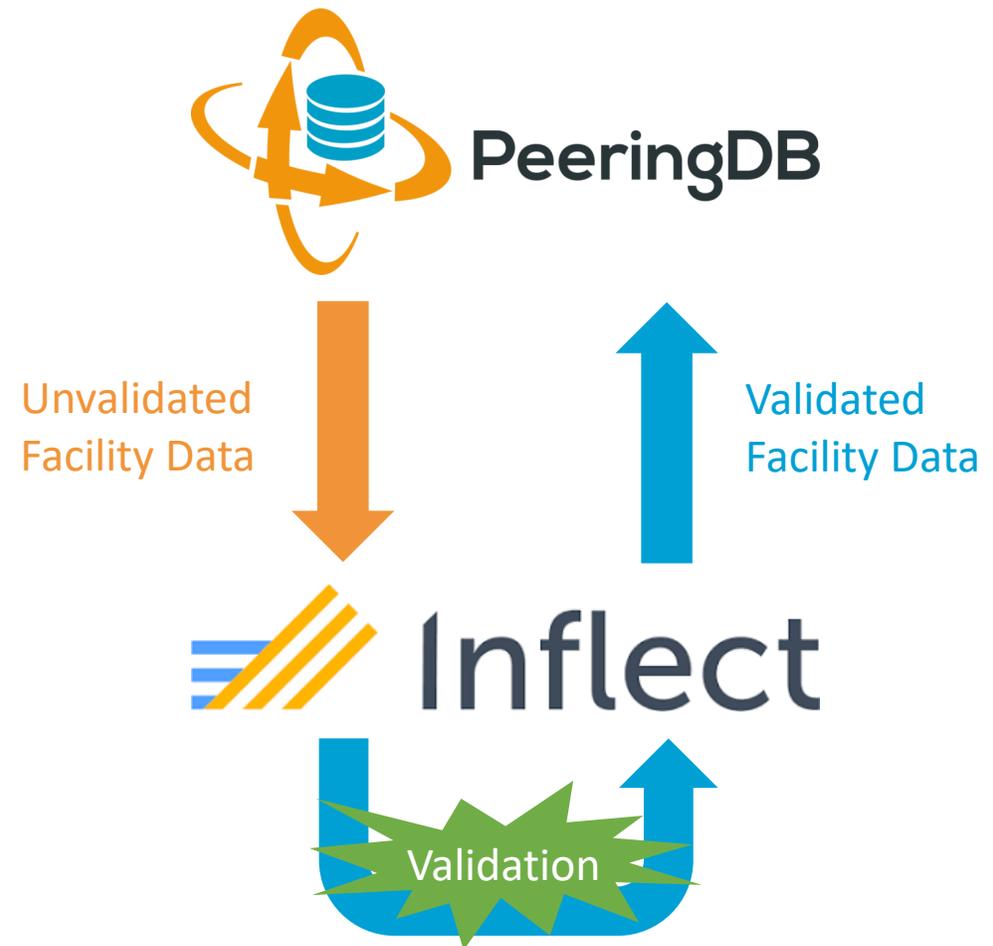
- PeeringDB maintains interconnection data
  - Permissions and privacy on user information are set by the user
  - Accuracy is essential
  - Exchange sources are vetted
  - Data conflicts are resolved by the Admin Committee
- Third party integration with PeeringDB has started in two ways
  - Data exchange 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, Euro-IX, PCH
- Network data: RIRs (ASNs)
- Facility data: Inflect

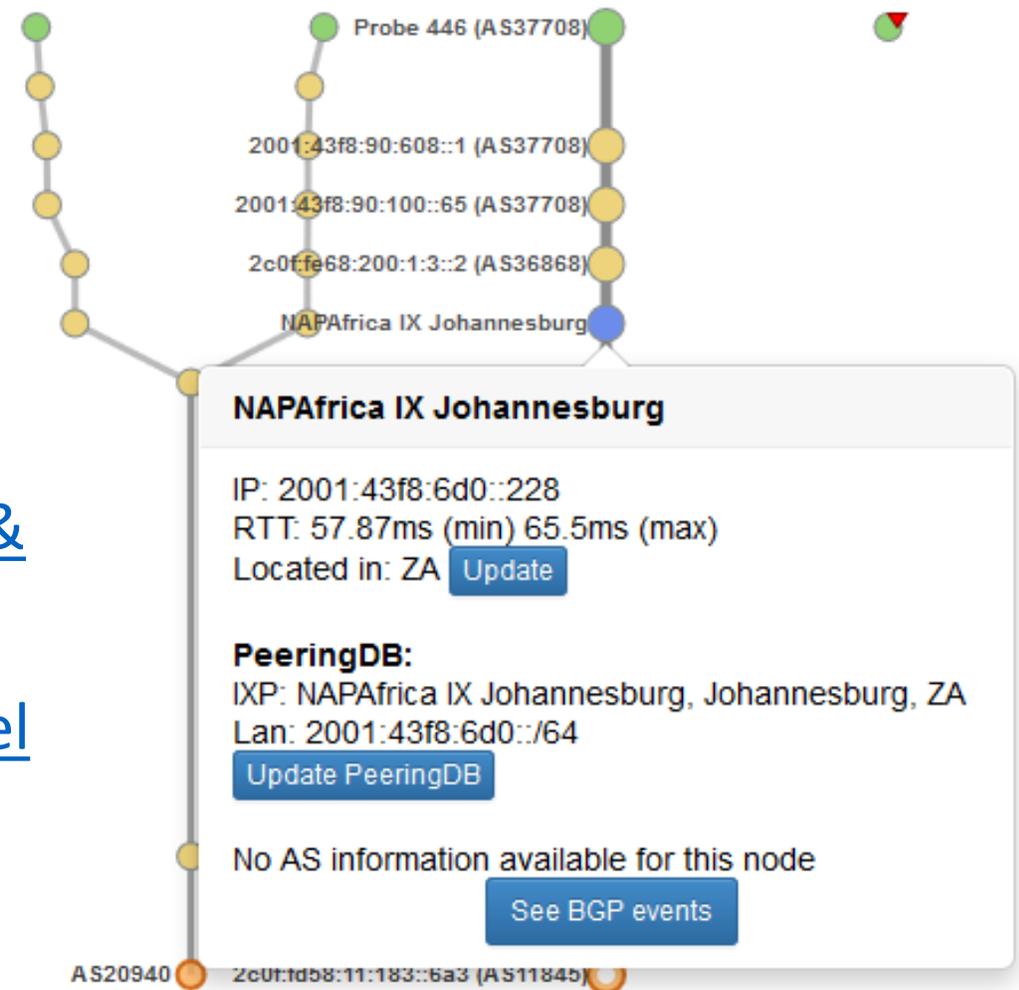
# Facility Data Validation by Inflect

- 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



# 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\\_candel\\_a/tracemon-traceroute-visualisation-network-debugging-tool](https://labs.ripe.net/Members/massimo_candel_a/tracemon-traceroute-visualisation-network-debugging-tool)



# Import of IXP provided data

- For Networks
  - allow IXP to maintain IXP related information
  - Binary switch
  - Off by default
- For IXP
  - Provide participant related data (IP addresses, speed, peering with RS)
  - IX-F JSON schema
- See [#237](#) for details

The screenshot shows a configuration page for a network. At the top, there is a note: "\*\* We welcome and encourage dual-stack peering at all peering locations." Below this, the "PeeringDB Configuration" section contains a toggle switch for "Allow IXP Update", which is currently turned off. A blue arrow points to this switch. Below that is the "Peering Policy Information" section. The bottom part of the screenshot shows a "LANs" table with columns for Name, DOT1Q, and MTU. A blue arrow points to the "IXF Member Export URL" field in the "Main" LAN entry.

Name	DOT1Q	MTU
<input type="checkbox"/> Main	<input type="checkbox"/>	1500
IXF Member Export URL		
<input type="checkbox"/> IPv4	80.81.192.0/22	
<input type="checkbox"/> IPv6	2001:7f8::/64	

# 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>



# Questions?