



PeeringDB Update

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**Asia Pacific Internet Exchange Association
(APIX)**

Association of Internet Exchange Points
in Asia Pacific Region



Agenda

1. Organization and Election Update
2. Strategic Goals and Organizational Objectives
3. Feature Planning Process and Roadmap Update

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
 - 324 addresses subscribed to the Governance mailing list (as of January 3, 2018)
 - Governance list is at <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov>
 - More information available at <http://gov.peeringdb.com/>
 - Next **online** annual meeting on 2018-04-19 (including election of ½ of the board)

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

Operations Committee

- Manage PeeringDB infrastructure

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

Contact:

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

PeeringDB Vital Statistics and Growth

Vital Statistics and Growth

2016* and 2017



*2016 statistics are for PeeringDB 2.0 post-launch (March 15, 2016 through December 31, 2016)

Usage (2017)

Total Hits	111,760,274
Avg. Daily Hits	306,193
Unique Hits	621,584

Support Tickets (2017)

Total Support Tickets	9,966
Avg. Tickets Per Day	27
Avg. Response Time	Less than 13 Hours

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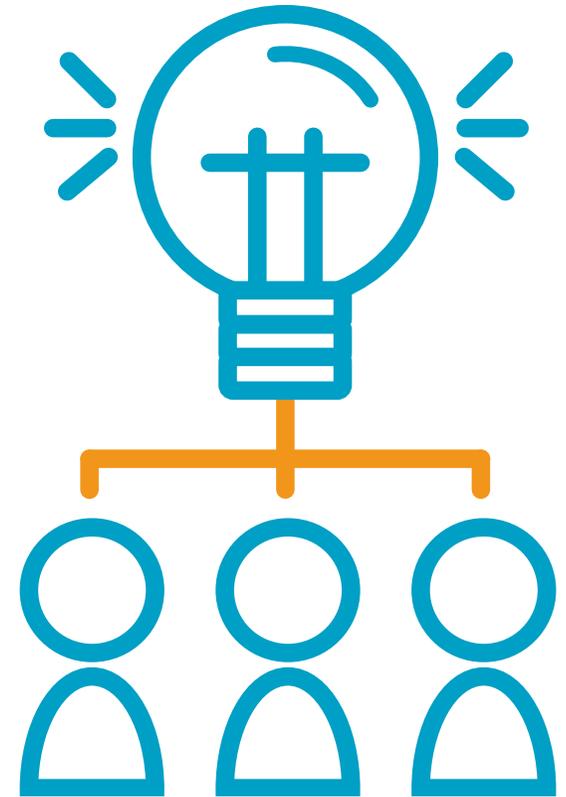
2017 – 2018 Strategic Direction

- 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 in early 2018 (**done**)
- 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

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

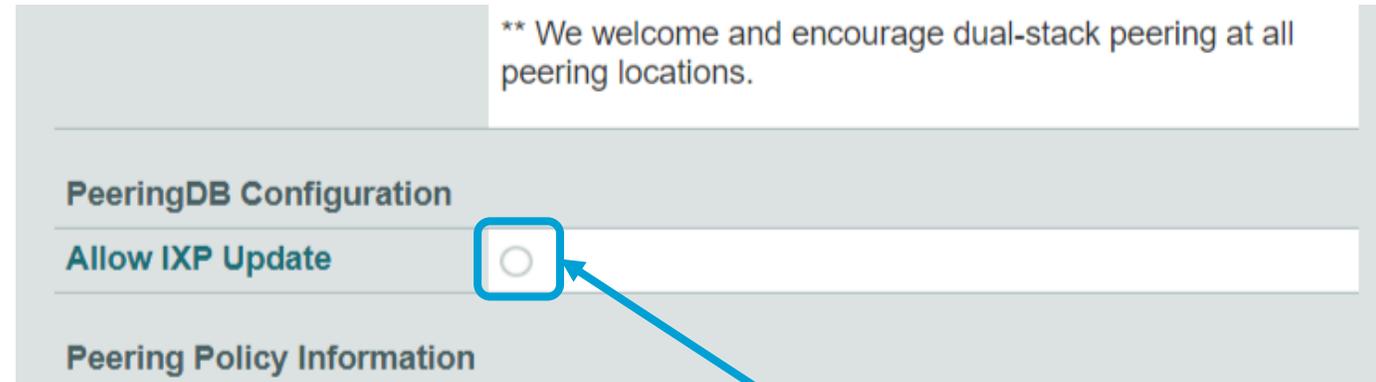
- For Networks
 - Allow IXPs to maintain your IXP connection information
 - One setting for all IXPs where you are connected
 - Off by default
- For IXPs
 - IXPs provide participant data (IP addresses, speed, RS peering)
 - Imported into PeeringDB nightly using IX-F JSON schema
- See issue [#237](#) on GitHub for details

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

PeeringDB Configuration

Allow IXP Update

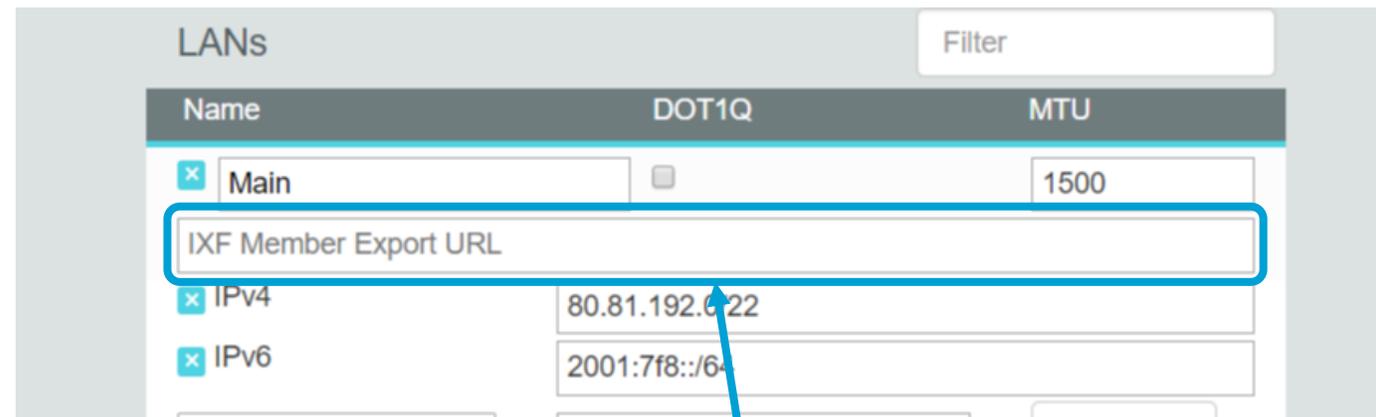
Peering Policy Information



Networks Click “Allow IXP Update” in Network Record

LANs Filter

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



IXPs Set Export URL in Exchange Record

Import of Data Provided by IXPs

- **allow_ixp_update: no**
 - If a network has an IX entry with both invalid IP addresses, the network IX entry is removed
 - If a network has an IX entry with any other invalid information (route server peer and speed), nothing is done
 - If a network does not have an entry for the IX, nothing is done
- **allow_ixp_update: yes**
 - If a network has an IX entry with any invalid information, the entry is updated
 - If a network does not have an entry for the IX, one is added
 - If a network does not have an entry in the IX member list, the network IX entry is removed
- **Only IP addresses within the IX prefix sets are added**
- **All changes made by the importer are logged to the control panel, available to the AC, and able to be rolled back with a single click.**

IX-F JSON format

- Version 0.7 is the most up to date
- <https://ml.ix-f.net/>
- Agreed and standardized format to represent IXP participants' data
- For PeeringDB only a subset of information is needed
 - ASN, IPv4, IPv6, speed, Is_RS_Peer

```
{
  "$schema": "http://json-schema.org/draft-04/schema",
  "title": "IXP Member List Schema",
  "description": "A JSON schema representing an IXP Member List",
  "type": "object",
  "required": ["version", "timestamp", "ixp_list", "member_list"],
  "properties": {
    "version": {
      "title": "IXP Member List Schema Version",
      "description": "Version number of the schema; this is not the version of the file within an IXP; but the schema version",
      "type": "string"
    },
    "timestamp": {
      "title": "IXP Member List Schema export timestamp",
      "description": "Timestamp of when the data was exported",
      "type": "string",
      "format": "date-time"
    },
    "ixp_list": {
      "title": "IXP Info List",
      "description": "A list of schemas representing IXP information",
      "type": "array",
      "items": {
        "description": "A single IXP entry",
        "type": "object",
        "required": ["ixf_id", "ixp_id", "shortname"],
        "properties": {
          "ixp_id": {
            "description": "IXP numeric identifier, persistent value free to set by the IXP",
            "type": "integer"
          },
          "shortname": {
            "description": "Short name of the IXP",
            "type": "string"
          },
          "name": {
            "description": "Name of the IXP",
            "type": "string"
          },
          "url": {
            "description": "Website of the IXP",
            "type": "string"
          }
        }
      }
    }
  }
}
```

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**



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- **Gold Sponsorship - \$5,000 / year**



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- **Silver Sponsorship - \$2,500 / year**



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- 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

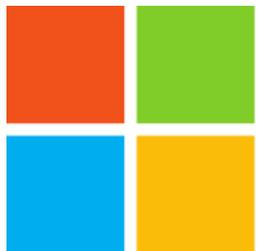


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Information and Resources

- 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://twitter.com/PeeringDB)
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Questions?