PeeringDB Update

Ben Ryall, ben@peeringdb.com
What is PeeringDB?

- Why should my facility, IXP or network be listed in PeeringDB?
- Helps establish new peering more efficiently, with all information easy to find in one place
  - Maintain all of your contact and connection info
  - Find other network's peering contact and connection info
  - Find interconnection facility and IXP info
- A PeeringDB record is required by many networks to peer
- Can be used for automation to generate router configurations
  - Initial configuration to setup peering quickly
  - Update configuration if maximum prefixes change
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
  • 368 addresses subscribed to the Governance mailing list (as of August 17, 2022)
  • Governance list is at http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov
  • More information available at http://gov.peeringdb.com/
## Committees

<table>
<thead>
<tr>
<th>Admin Committee</th>
<th>Operations Committee</th>
<th>Outreach Committee</th>
<th>Product Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Manage administration of user accounts and PeeringDB records</td>
<td>• Manage PeeringDB infrastructure</td>
<td>• Manage marketing and social media</td>
<td>• Manage roadmap and development priorities</td>
</tr>
<tr>
<td>• Answer support tickets</td>
<td></td>
<td>• Develop and maintain presentations, workshops and webinars</td>
<td>• Ask for input from the community on desired features</td>
</tr>
<tr>
<td>• Cleansing and completion of PeeringDB records</td>
<td></td>
<td>• Coordinate presentations and attendance at events</td>
<td>• Write SoWs to solicit bids to complete requested features</td>
</tr>
</tbody>
</table>

Leads: Patrick Gilmore (Chair) and Darwin Costa (Vice Chair)
Contact: admincom@lists.peeringdb.com

Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair)
Contact: pdb-ops@lists.peeringdb.com

Leads: Ben Ryall (Chair) and Bijal Sanghani (Vice Chair)
Contact: outreachcom@lists.peeringdb.com

Leads: Stephen McManus (Chair) and Matt Griswold (Vice Chair)
Product Manager: Leo Vegoda
Contact: productcom@lists.peeringdb.com
• Admin Committee volunteers are based around the world in a variety of time zones with diverse language skills
• Goal is to resolve support tickets within 24 hours
Generally

- **https://www.peeringdb.com** is enforced (2.35.0)
- Please check your scripts (e.g. –L for curl)
- Enables better delivery via CDNs

- Lots of bug fixes and small features
  - Users especially like the logo feature
  - Various counters for `fac`, `ix` and `net` objects
  - Updated fields allow for easy tracking of changes
    - `netixlan_updated`
    - `netfac_updated`
    - `poc_updated`
Authentication

• API keys (2.26.0)
  • 256bit random number, base62 encoded
  • On org level (additional tabs)
    • Needs an email associated with it (ideally role-account)
    • Can be created by any Admin
    • Same granular (CRUD) permissions as users

• On user level

• Substantially rate-limit unauthenticated API queries (2.34.0)
  • Wild running scripts
  • Bad code
  • See tech-list for details
Account Security

- Two-Factor Authentication (2FA, 2.21.0)
  - Using TOTP; no SMS, no E-Mail
  - Setup via User Profile
  - Highly recommended
  - Provision for backup-codes/recovery tokens

- Add FIDO U2F 2FA Support (2.33.0)
  - Allowing users to enable 2FA w/o relying on a TOTP app
Self-Selection Fields (Exchanges, 2.27.0)

- **Service Level**
  - Best Effort (no SLA)
  - Normal Business Hours
  - 24/7 Support
  - Not Disclosed (default)

- **Terms**
  - No Commercial Terms
  - Bundled with other Services
  - NRC only
  - Recurring Fees
  - Not Disclosed (default)

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SIX Seattle

<table>
<thead>
<tr>
<th>Organization</th>
<th>Seattle Internet Exchange</th>
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</thead>
<tbody>
<tr>
<td>Also Known As</td>
<td>Seattle Internet Exchange (MTU 1500)</td>
</tr>
<tr>
<td>City</td>
<td>Seattle</td>
</tr>
<tr>
<td>Country</td>
<td>US</td>
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<tr>
<td>Continental Region</td>
<td>North America</td>
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<tr>
<td>Media Type</td>
<td>Ethernet</td>
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<tr>
<td>Service Level</td>
<td>24/7 Support</td>
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<tr>
<td>Terms</td>
<td>Non-recurring Fees Only</td>
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<tr>
<td>Last Updated</td>
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</table>

Notes:
- SIX port fees:
  - 10G: $7.5k NRC, no MRC
  - 10G: $1.5k NRC, no MRC
  - 1G: $100 NRC, no MRC

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PeeringDB

23 - 25 August 2022
AfPIF 2022, Kigali, Rwanda
### Self-Selection Fields (Facilities, 2.30.0)

- **Property**
  - Lessee
  - Owner
  - Not Disclosed (default)

- **Diverse Serving Substations**
  - Yes
  - No
  - Not Disclosed (default)

- **Available Voltage Services**
  - 48 VDC
  - 120 VAC
  - 208 VAC
  - 240 VAC
  - 480 VAC

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<thead>
<tr>
<th>Last Updated</th>
<th>2022-04-20T20:03:43Z</th>
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<tr>
<td>Notes</td>
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<tr>
<td>Technical Email</td>
<td><a href="mailto:support@aubix.net">support@aubix.net</a></td>
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<tr>
<td>Technical Phone</td>
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<tr>
<td>Sales Email</td>
<td><a href="mailto:sales@aubix.net">sales@aubix.net</a></td>
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<td>Property</td>
<td>Owner</td>
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<td>Diverse Serving Substations</td>
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<td>Health Check</td>
<td></td>
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</table>
Searching

- Improvement from NANOG83 Hackathon (2.33.0)
- Searching for Numbers return the most relevant results
- Searching for a short ASN returns just that ASN
- Searching for two segments of an IP address return related ix and netixlan objects
Searching (Facilities)

- The address is mapped to coordinates
  - Search a radius from any location
  - Filter searches on criteria
  - Export as JSON or CSV
- Additional Information
  - Property ownership
  - Redundancy
  - Power provided
Searching (Exchanges)

• Filter searches on criteria
• Export as JSON or CSV
• Additional Information
  • Service Level
  • Terms
  • Network presence
Documentation Updates

• Started series of HOWTOs
  • Explain usage in detail for networks, exchanges and facilities
  • How to use the new search
  • About user permissions
  • https://docs.peeringdb.com/howtos/

PeeringDB HOWTOs

HOWTOs provide a beginner detailed instructions on how to get started using PeeringDB.

• Get Started with PeeringDB as a Network Operator
• Get Started with PeeringDB as a Exchange Operator
• Get Started with PeeringDB as a Facility Operator
• Get Started with Search in PeeringDB
• Manage User Permissions
• What is AS112?
What's ahead?

• Lots of small features and bug fixes
• Improve searching  
  • Both for GUI and API
• Finalize tasks from Data Ownership Task Force  
  • Automatically remove stale connections to an IX
• Automate Approving Networks, IXPs, and Facilities according to the latest Guidelines and Criteria
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!

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**Microsoft**
- **Organization**: Microsoft Corporation
- **Also Known As**: 8068 8069
- **Company Website**: 8075
- **Primary ASN**: 8075

**DE-CIX Frankfurt**
- **Organization**: DE-CIX Management GmbH
- **Long Name**: Deutscher Commercial Internet Exchange
- **City**: Frankfurt
- **Country**: DE
- **Continental Region**: Europe
- **Media Type**: Ethernet

Contact sponsorship@peeringdb.com for sponsorship info!
Thank you to our sponsors!

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- DE-CIX
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- NTT
- YAHOO!

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- linx
- Net brutality
- Netnod
- Newby Ventures
- NIX-CZ
- NLIX
- NYIIX
- RackCentre
- RIPE NCC
- TeraCo
- Zenlayer
Questions?