What’s new on PeeringDB?

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livio@peeringdb.com
PeeringDB is a freely available, user-maintained, database of networks and carriers, and the go-to location for interconnection data. It facilitates the global interconnection of networks at IXPs, data centers, and other interconnection facilities. It is the first stop in making interconnection decisions.

Global System Statistics
- 1118 Exchanges
- 28318 Networks
- 5212 Facilities
- 34 Campuses
- 98 Carriers
- 50717 Connections to Exchanges
- 45875 Connections to Facilities
- 6290 Automated Networks
- 49570 Registered Users
- 26388 Organizations
<table>
<thead>
<tr>
<th>Committees</th>
<th>Admin Committee</th>
<th>Operations Committee</th>
<th>Outreach Committee</th>
<th>Product Committee</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<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></td>
<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></td>
<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>
<tr>
<td>Leads</td>
<td>Patrick Gilmore (Chair)</td>
<td>Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair)</td>
<td>Leads: Ben Ryall (Chair) and Bijal Sanghani (Vice Chair)</td>
<td>Leads: Stephen McManus (Chair) and Matt Griswold (Vice Chair)</td>
</tr>
<tr>
<td>Contact</td>
<td><a href="mailto:admincom@lists.peeringdb.com">admincom@lists.peeringdb.com</a></td>
<td><a href="mailto:pdb-ops@lists.peeringdb.com">pdb-ops@lists.peeringdb.com</a></td>
<td><a href="mailto:outreachcom@lists.peeringdb.com">outreachcom@lists.peeringdb.com</a></td>
<td><a href="mailto:productcom@lists.peeringdb.com">productcom@lists.peeringdb.com</a></td>
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</tbody>
</table>
• 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
We are looking for volunteers

• For Admin Committee
  • who speak languages other than English

• For Operations Committee
  • Small and highly trusted
  • Experience with containers is a plus

• Apply to stewards@lists.peeringdb.com
Documentation Updates

- Started series of HOWTOs
  - https://docs.peeringdb.com/howtos/
- Regular blogs on new features
  - https://docs.peeringdb.com/blogs/
- Announced on social media
  ** FOLLOW US **

Create entries
- Get Started with PeeringDB as a Exchange Operator
- Get Started with PeeringDB as a Facility Operator
- Get Started with PeeringDB as a Network Operator

Manage entries
- Manage Organizational Policy
- Manage User Permissions

Search
- Get Started with Search in PeeringDB
- Work Within PeeringDB’s Query Limits

Authentication and security
- Authenticate to PeeringDB
- Get Started with API Keys
- Report a Security Issue

Other
- Get Started with Developing for PeeringDB
- Setup a PeeringDB Development Environment
- What is AS112?
Product Development Workflow

- All issues tracked using GitHub at [https://github.com/peeringdb/peeringdb/issues](https://github.com/peeringdb/peeringdb/issues)
  - Anyone can open a feature requests or file a bug report
  - Open and transparent process for product development
  - Workflow is at [http://docs.peeringdb.com/workflow/](http://docs.peeringdb.com/workflow/)

- Product Committee issue process
  - Evaluate and prioritize the requests
  - Request a quote for development costs
  - Request budget from the board
  - Manage implementation and scheduling

- Your input is needed on features!
# Release Schedule

<table>
<thead>
<tr>
<th>Release number</th>
<th>Internal testing</th>
<th>Beta release</th>
<th>Production release</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.51.0</td>
<td>2023-09-06</td>
<td>2023-09-13</td>
<td>2023-09-20</td>
</tr>
<tr>
<td>2.52.0</td>
<td>2023-10-18</td>
<td>2023-10-25</td>
<td>2023-11-06</td>
</tr>
<tr>
<td>2.53.0</td>
<td>2023-11-22</td>
<td>2023-11-29</td>
<td>2023-12-01</td>
</tr>
</tbody>
</table>
New Object “Carrier”

• New pillar of data besides network, facility and ix
• A “Carrier” provides high capacity L1/L2 links between facilities.
• API: carrier and carrierfac
• A carrier presence in a facility must be approved by a facility admin
New Object “Carrier”

- Add a carrier object via your organization “Manage” section
- Add a presence via the carrier object
- Introduced in 2.43.0 (Current 2.51.0)
- See also the blog about the carrier object
New Object “Campus”

- The campus object allows to structure two or more facilities
  - Not well defined in terms of size
  - All facilities should be interconnectable with “cheap” interconnections
  - All facilities must belong to the same owner

- API: campus

- A campus is only shown with at least two members

- Add a campus object via your organization “Manage” section
Account Security

- Two-factor authentication (2FA) (2.21.0)
  - Using time-based one-time password (TOTP) - no SMS, no email
  - Setup via User Profile
  - Highly recommended
  - Provision for backup codes and recovery tokens
- Fast IDentity Online (FIDO) Universal 2nd Factor (U2F) 2FA support (2.33.0)
  - Allowing users to enable 2FA without relying on a TOTP app
- HOWTO: [https://docs.peeringdb.com/howto/authenticate/](https://docs.peeringdb.com/howto/authenticate/)
IX-F JSON Import

• Finalize tasks from Data Ownership Task Force
  • ATM, only notifications are sent out to networks and IXes
  • Todo: automatically remove stale connections to an IX
    • Almost done, see Github issue #1360

• Why don’t more IXP provide an IX-F JSON and enable it?

<table>
<thead>
<tr>
<th>Total Number of IXP inEurope</th>
<th>376</th>
<th>100.0%</th>
</tr>
</thead>
<tbody>
<tr>
<td>IXP with IX-F JSON URL</td>
<td>130</td>
<td>34.6%</td>
</tr>
<tr>
<td>IX-F JSON Import enabled</td>
<td>97</td>
<td>25.8%</td>
</tr>
</tbody>
</table>

Data retrieved from PeeringDB on 2023-03-10 06:57 UTC
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

PeeringDB Configuration
- Allow IXP Update

Networks Click “Allow IXP Update” in Network Record

<table>
<thead>
<tr>
<th>Name</th>
<th>DOT1Q</th>
<th>MTU</th>
</tr>
</thead>
<tbody>
<tr>
<td>DE-CIX Frankfurt Peering LAN</td>
<td></td>
<td>1500</td>
</tr>
<tr>
<td>IXF Member Export URL</td>
<td></td>
<td></td>
</tr>
<tr>
<td>IPv4</td>
<td>80.81.192.0/21</td>
<td></td>
</tr>
<tr>
<td>IPv6</td>
<td>2001:7f8::/64</td>
<td></td>
</tr>
</tbody>
</table>

IXPs Set Export URL in Exchange Record
<table>
<thead>
<tr>
<th>Category</th>
<th>Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>IXP/Operators</td>
<td>23/18</td>
</tr>
<tr>
<td>Facilities/Operators</td>
<td>202/102</td>
</tr>
<tr>
<td>Networks at IXP</td>
<td>632</td>
</tr>
<tr>
<td>French Networks at IXP</td>
<td>332</td>
</tr>
<tr>
<td>Networks in Facilities</td>
<td>665</td>
</tr>
<tr>
<td>French Networks in Facilities</td>
<td>361</td>
</tr>
<tr>
<td>Total Networks (IXP and Facilities)</td>
<td>872</td>
</tr>
<tr>
<td>Total French Networks (IXP and Facilities)</td>
<td>437</td>
</tr>
<tr>
<td>French Networks in PeeringDB</td>
<td>651</td>
</tr>
<tr>
<td>French Networks in any RIR</td>
<td>1943</td>
</tr>
<tr>
<td>PeeringDB/RIR</td>
<td>33.5%</td>
</tr>
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</table>
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- Interlan
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- lacnic
- linx
- Netrality Data Centers
- NetNOD
- Newby Ventures
- NIX-CZ
- NLIX
- NYIX
- STAACLAR
- swissIX
- XIX
- QRATORLABS
- RIPE NCC
- Teraco
- AfriNIC
- Zenlayer
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  - Social media promotion

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  - Platinum Sponsor badge display on all records
  - Social media promotion

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  - 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!
Questions?
Need help? Contact support@peeringdb.com
Got a feature idea? Contact productcom@lists.peeringdb.com