

What's New and What's Next

Yolandi Cloete yolandi@peeringdb.com

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 an email address associated with your ASN /company



Governance and Membership

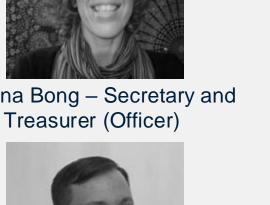
- PeeringDB is a United States 501(c)(6) volunteer organization that is 100% funded by sponsorships
- Healthy organization, building financial reserves and executing the long-term strategic plan
- Membership rules
 - A corporation, limited liability company, partnership or other legal business entity 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
 - 506 addresses subscribed to the Governance mailing list as of March 21, 2025
 - Each year half of the board is up for election. Meeting and election are on April 10, 2025
 - Governance list is at https://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov
 - More information available at https://docs.peeringdb.com/gov/



Board of Directors and Officers



Shawna Bong - Secretary and





Christopher Malayter – President (Term Expires 2025)



Aaron Hughes – Vice President (Term Expires 2026)



Livio Morina - Director (Term Expires 2025)



Rahul Makhija - Director (Term Expires 2025)



Job Snijders – Director (Term Expires 2026)

Committees

| Admin Committee | Operations Committee | Outreach Committee | Product Committee |
|---|--|--|--|
| Manage administration of user accounts and PeeringDB records Answer support tickets Cleansing and completion of PeeringDB records | Manage PeeringDB infrastructure | Manage marketing and social media Develop and maintain presentations, workshops and webinars Coordinate presentations and attendance at events | Manage roadmap and development priorities Ask for input from the community on desired features Write SoWs to solicit bids to complete requested features |
| Leads: Chriztoffer Hansen (Chair) and Peter Helmenstine (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) Contact: outreachcom@ lists.peeringdb.com | Leads: Jack Carrozzo (Chair) and Matt Griswold (Vice Chair) Product Manager: Leo Vegoda Contact: productcom@ lists.peeringdb.com |



New 2024-2025 Strategic Plan

- The 2024-2025 strategic direction and organizational objectives were published in January
 - Maintaining services
 - Developing new features
 - Engaging with the community
 - Ensuring the long-term stability of the organization
- Full version is here: https://docs.peeringdb.com/gov/misc/2025-01-23-PeeringDB_Strategic_Plan_2024-2025.pdf
- Board also approved a 50% increase is hours available for combined development and operations



2024 Year in Review

| | 2023 | 2024 | Difference | % Increase | |
|---------------|---------------------|-------|------------|------------|--|
| Campuses | - | 556 | n/a | n/a | |
| Carriers | - | 8,164 | n/a | n/a | |
| Exchanges | 1,152 | 1,239 | 87 | 7.6 | |
| Facilities | 5,282 | 5,633 | 351 | 6.7 | |
| Networks | etworks 29,148 | | 2,449 | 8.4 | |
| Organizations | rganizations 27,714 | | 2,834 | 10.2 | |
| Users | ers 41,975 | | 4,682 | 11.2 | |



PeeringDB in Central and Eastern Europe

| CC | IXP/OP | ASN | LASN | Colo/OP | ASN | LASN | TASN | TLASN | PDB | RIR | Routed |
|------|--------|------|------|---------|------|------|------|-------|------|------|--------|
| АТ | 6/6 | 187 | 88 | 55/42 | 225 | 109 | 279 | 123 | 185 | 746 | 627 |
| BG | 7/7 | 211 | 92 | 29/14 | 200 | 71 | 301 | 104 | 149 | 732 | 658 |
| СН | 12/12 | 886 | 191 | 82/53 | 332 | 172 | 985 | 220 | 341 | 1059 | 787 |
| CZ | 5/4 | 275 | 124 | 32/25 | 180 | 118 | 322 | 145 | 203 | 692 | 592 |
| DE | 55/40 | 1887 | 604 | 327/147 | 1490 | 616 | 2433 | 790 | 1244 | 3098 | 2416 |
| HR | 2/2 | 36 | 23 | 12/6 | 37 | 16 | 50 | 24 | 33 | 173 | 143 |
| HU | 1/1 | 98 | 46 | 6/6 | 92 | 47 | 126 | 55 | 81 | 303 | 237 |
| MD | 2/2 | 23 | 19 | 5/4 | 11 | 7 | 25 | 19 | 33 | 210 | 150 |
| PL | 16/14 | 846 | 646 | 78/45 | 583 | 455 | 937 | 682 | 848 | 2466 | 2132 |
| RO | 9/9 | 159 | 89 | 44/34 | 147 | 74 | 210 | 104 | 163 | 1097 | 926 |
| SK | 4/3 | 94 | 48 | 6/6 | 60 | 25 | 117 | 50 | 65 | 227 | 193 |
| _ UA | 26/21 | 418 | 279 | 53/43 | 233 | 186 | 451 | 289 | 459 | 2015 | 1614 |

CC: Country Code

IXP: Internet Exchange

OP: Operator

ASN: Autonomous System

LASN: Local ASN Colo: Colocation

TASN: Total ASN (IXP+Colo)

TLASN: Total Local ASN

PDB: PeeringDB

RIR: Regional Internet Registry

Routed: in DMZ



2024 New Feature Highlights

- Users tell us that search and data quality are important to them, and this was a big development area in 2024
- Networks whose ASN has been reclaimed by an RIR or NIR are automatically removed now
- v2 search
 - Introduced new v2 search functionality early last year with several enhancements over many releases
 - Key features
 - Use natural language queries in combination with the name in a geographic region
 - Search for a network prefixed with "AS", partial matches show all relevant networks
 - Search for exchanges based on the facilities they are in
 - Search for campuses in in a geographic region, also displays a list of facilities
 - HOWTO: v2 Search (https://docs.peeringdb.com/howto/v2_search/)
 - Still work in progress



2024 New Feature Highlights

- peeringdb-py enhancements
 - Run queries locally on your infrastructure to avoid query limits and to get the best response time
 - Reduces PeeringDB load (= cost)
 - HOWTO: Install peeringdb-py (https://docs.peeringdb.com/howto/peeringdb-py/)
- Keyhole Markup Language (KML) export of geographic data
 - Very cool and very popular to import into GIS applications
 - Covered in many PeeringDB Updates presentations last year (https://docs.peeringdb.com/presentations/)
 - Better Search and Export (https://docs.peeringdb.com/blog/better_search_and_export/)
- VM deployments moved to containerized deployments
 - Reduced computing costs, adjusts compute resources dynamically and manages spending
 - Containerized Deployment (https://docs.peeringdb.com/blog/containerize/)



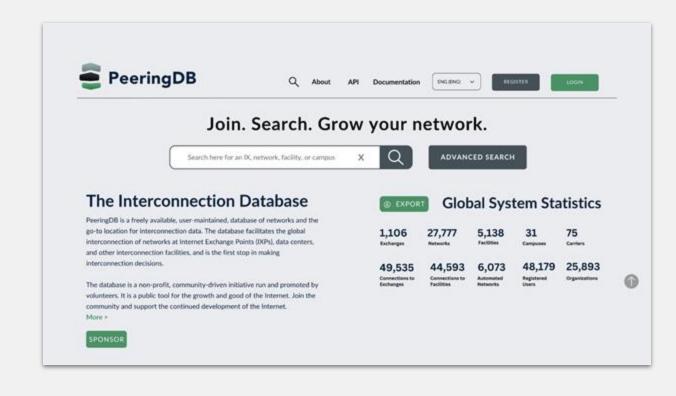
2024 New Feature Highlights

- New Carrier and Campus objects
 - Carrier: for provides offering L1 or L2 services in a Facility
 - Different from a Network which is for L3 services with an ASN
 - HOWTO: Get Started with PeeringDB as a Carrier Operator (https://docs.peeringdb.com/howto/get-started-carrier/)
 - Campus: two or more Facilities owned by the same organization with inter-Facility cross connects
 - HOWTO: Get Started with PeeringDB as a Facility or Campus Operator (https://docs.peeringdb.com/howto/get-started-facility/)
- Many other smaller enhancements, bug fixes, and security updates
 - Refer to the 2024 Release Notes for complete details (https://docs.peeringdb.com/release_notes/release_notes_2024/)



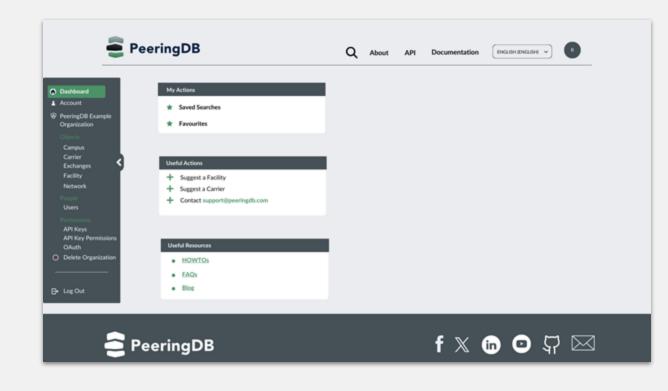
2025 Roadmap: Web UI

- We adjusted our web UI rollout process based on feedback
- We previewed the new UI on separate site but got no feedback, so are doing a phased rollout:
 - PeeringDB volunteers
 - 20% of users
 - Everyone
- Users will get an "opt-out" switch in their profile and be encouraged to share feedback on what to adjust



2025 Roadmap: Saved Searches, Notifications

- We're discussing (#1736) adding a "planned" status with a date
- It would integrate with notifications
- You could share a planned operational date for any object type
- Others could be notified of plans they are interested in





2025 Roadmap: Search

- Refactor v2 search code with improved automated testing
 - Results should be completer and more relevant
- Web search → API query link
 - Help less technical users develop one liners that improve their efficiency
- Implement search filters, e.g. hide IXPs without an ixfac
 - Give users more control over what they see
 - Will apply to authenticated web and user API Key usage
 - Once developed, other filters can be added as needed
- Implement Advanced Search in v2
 - Another step towards removing legacy search

```
Last login: Fri Feb 7 09:38:44 on ttys000

    curl -H "Accept: application/json" -X GET https://www.peeringdb.com

/api/net/578
{"data": [{"id": 578, "org_id": 791, "org": {"id": 791, "name": "LINX",
"aka": "London Internet Exchange Ltd.", "name_long": "London Internet Ex
change Ltd.", "website": "https://www.linx.net", "social_media": [{"serv
ice": "facebook", "identifier": "LondonInternetExchange"}, {"service":
x", "identifier": "linx_network"}, {"service": "linkedin", "identifier"
 "linx"}, {"service": "website", "identifier": "https://www.linx.net"}]
 "notes": "", "require_2fa": true, "net_set": [578, 9510, 10345, 20392,
20393, 26805, 33509, 36305, 36306], "fac_set": [2090], "ix_set": [18, 32
1, 583, 745, 777, 1016, 4231], "carrier_set": [], "campus_set": [], "add
ress1": "WeWork, 2 Minster Court", "address2": "Mincing Lane", "city": "
London", "country": "GB", "state": "City Of London", "zipcode": "EC3R 7B
B", "floor": "", "suite": "", "latitude": 51.510758, "longitude": -0.081
093, "created": "2005-09-14T13:39:54Z", "updated": "2024-01-04T10:24:51Z
  "status": "ok"}, "name": "LINX Route Collectors", "aka": "", "name_lo
ng": "", "website": "http://www.linx.net/", "social_media": [{"service":
 "website", "identifier": "http://www.linx.net/"}], "asn": 5459, "lookin
g_glass": "https://alice-collector.linx.net", "route_server": "", "irr_a
s_set": "AS-LINX", "info_type": "Route Collector", "info_types": ["Route
 Collector"], "info_prefixes4": 20, "info_prefixes6": 10, "info_traffic"
 "", "info_ratio": "Mostly Outbound", "info_scope": "Regional", "info_u
nicast": true, "info_multicast": true, "info_ipv6": true, "info_never_vi
```



2025 Roadmap: MFA

- Multi-factor authentication (MFA) has been available for many years and is now mandatory
- Two-factor authentication (2FA)
 - Using time-based one-time password (TOTP) no SMS, no email
 - Provision for backup codes and recovery tokens
- Fast IDentity Online (FIDO) Universal 2nd Factor (U2F)
 2FA support
 - 2FA without relying on a TOTP app
- HOWTO: https://docs.peeringdb.com/howto/authenticate/







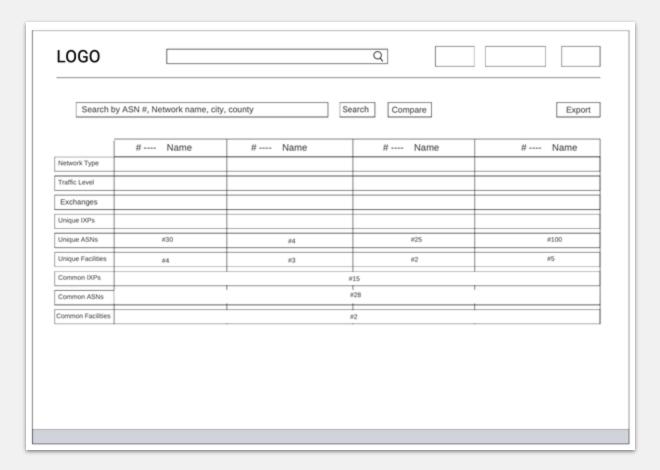
2025 Roadmap: MFA

- We are keeping anonymous use but will require MFA for all authenticated users
 - We are integrating MFA management in the user profile so managing options is easier
 - API users will need to create an API Key, no more username and password authentication
- More blog posts and announcements will be made on social media in advance
- Direct communications to users who haven't set up MFA
- Mandatory as of July 1, 2025



2025 Roadmap: Analysis

- Adding a web tool to help users compare interconnection opportunities at facilities
- Add ASNs, add locations, view and export results



2025 Roadmap: Operations and Bug Fixes

- We're working on making both the API and website more responsive
 - You can sync using peeringdb-py to keep queries local and integrate PeeringDB data with other sources
- We'll be developing
 - Additional support tools
 - Minor features
 - Bug fixes



Thank you to our sponsors!

Sponsor







Microsoft

Platinum Sponsors



















Gold

















































Silver **Sponsors**





















2025-03-27











