



**PeeringDB**

# What's New and What's Next

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# 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
  - 511 addresses subscribed to the Governance mailing list as of June 17, 2025
  - Each year half of the board is up for election
  - 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 Treasurer



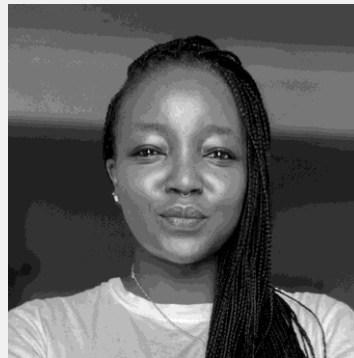
Alexandre Corso – Director  
(Term Expires 2027)



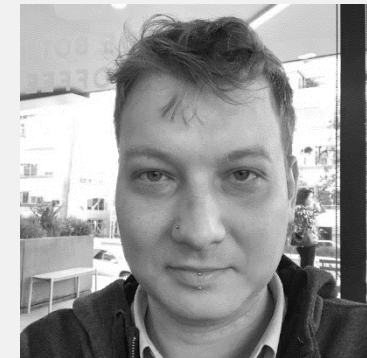
Aaron Hughes –President  
(Term Expires 2026)



Livio Morina – Vice President  
(Term Expires 2027)



Isabel Odida – Director  
(Term Expires 2027)



Job Snijders – Director  
(Term Expires 2026)

# Committees

Admin Committee	Operations Committee	Outreach Committee	Product Committee
<ul style="list-style-type: none"><li>• Manage administration of user accounts and PeeringDB records</li><li>• Answer support tickets</li><li>• Cleansing and completion of PeeringDB records</li></ul> <p>Leads: Chriztoffer Hansen (Chair) and Peter Helmenstine (Vice Chair) Contact: <a href="mailto:admincom@lists.peeringdb.com">admincom@lists.peeringdb.com</a></p>	<ul style="list-style-type: none"><li>• Manage PeeringDB infrastructure</li></ul> <p>Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair) Contact: <a href="mailto:pdb-ops@lists.peeringdb.com">pdb-ops@lists.peeringdb.com</a></p>	<ul style="list-style-type: none"><li>• Manage marketing and social media</li><li>• Develop and maintain presentations, workshops and webinars</li><li>• Coordinate presentations and attendance at events</li></ul> <p>Leads: Ben Ryall (Chair) Contact: <a href="mailto:outreachcom@lists.peeringdb.com">outreachcom@lists.peeringdb.com</a></p>	<ul style="list-style-type: none"><li>• Manage roadmap and development priorities</li><li>• Ask for input from the community on desired features</li><li>• Write SoWs to solicit bids to complete requested features</li></ul> <p>Leads: Jack Carrozzo (Chair) and Matt Griswold (Vice Chair) Product Manager: Leo Vegoda Contact: <a href="mailto:productcom@lists.peeringdb.com">productcom@lists.peeringdb.com</a></p>

# 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](https://docs.peeringdb.com/gov/misc/2025-01-23-PeeringDB_Strategic_Plan_2024-2025.pdf)
- Board also approved a 50% increase in 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	29,148	31,597	2,449	8.4
Organizations	27,714	30,008	2,834	10.2
Users	41,975	46,657	4,682	11.2

# PeeringDB: CH and Neighbouring Countries

CC	IXP/OP	ASN	LASN	Colo/OP	ASN	LASN	TASN	TLASN	PDB	RIR	Routed
AT	6/6	187	88	55/42	226	109	280	123	185	746	628
CH	12/12	885	191	82/53	333	172	985	220	341	1059	787
DE	55/40	1886	605	327/147	1493	617	2435	791	1244	3098	2421
FR	25/19	688	354	219/109	737	395	956	467	710	1922	1451
IT	20/14	577	408	101/72	515	367	684	446	582	1291	1090
LI	2/2	49	8	4/4	6	4	50	8	16	28	26

CC: Country Code

OP: Operator

LASN: Local ASN

TASN: Total ASN (IXP+Colo)

PDB: PeeringDB

Routed: in DMZ

IXP: Internet Exchange

ASN: Autonomous System

Colo: Colocation

TLASN: Total Local ASN

RIR: Regional Internet Registry



# 2024 New Feature Highlights

- Users told 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/](https://docs.peeringdb.com/howto/v2_search/))
  - Still work in progress

# 2024 New Feature Highlights

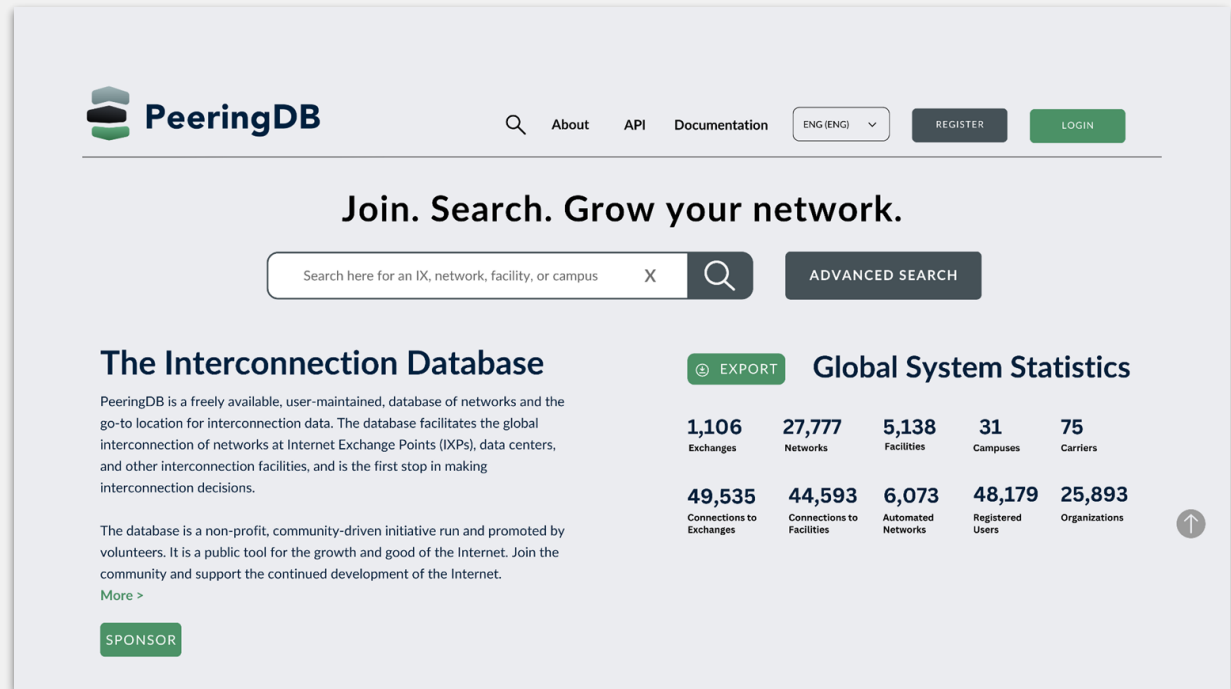
- peeringdb-py enhancements
  - Run queries locally on your infrastructure to avoid query limits and to get the best response time
  - Reduces PeeringDB load (= cost)
  - HOWTO: Install peeringdb-py (<https://docs.peeringdb.com/howto/peeringdb-py/>)
- Keyhole Markup Language (KML) export of geographic 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/](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: provides L1 or L2 services in a Facility
    - Different from a Network which is for L3 services with an ASN
    - Idea is to provide L1/L2 service pathes between two facilities
    - 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/](https://docs.peeringdb.com/release_notes/release_notes_2024/))

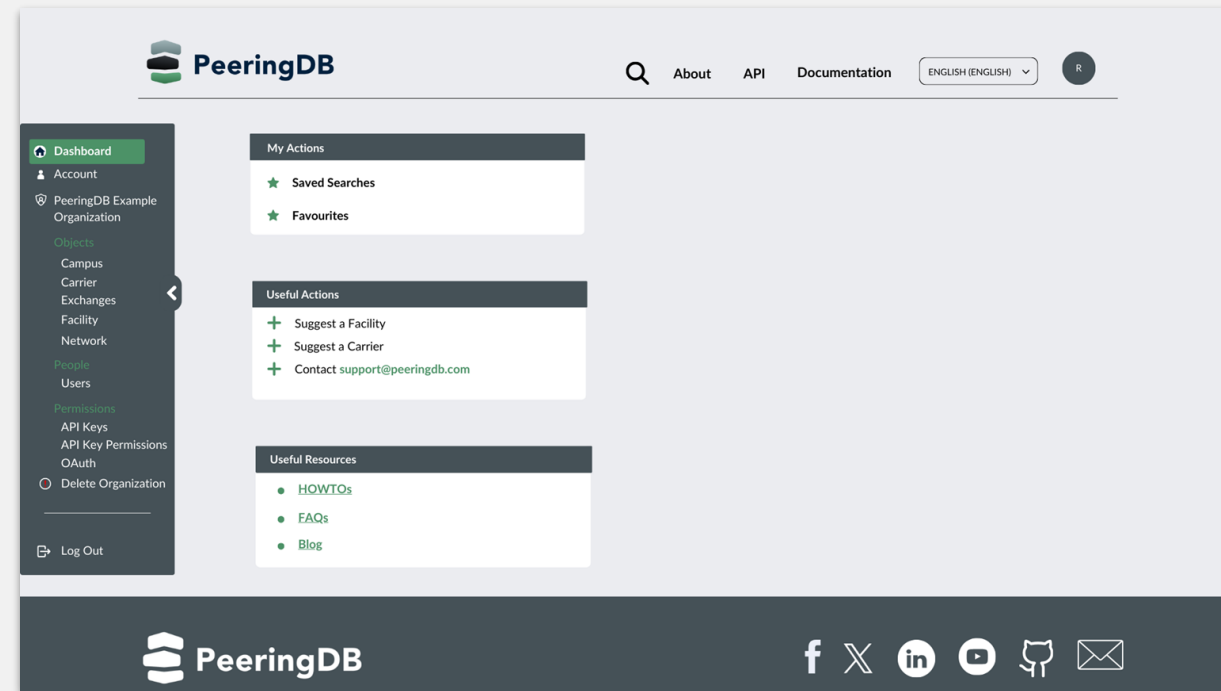
# 2025 Roadmap: Web UI

- 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



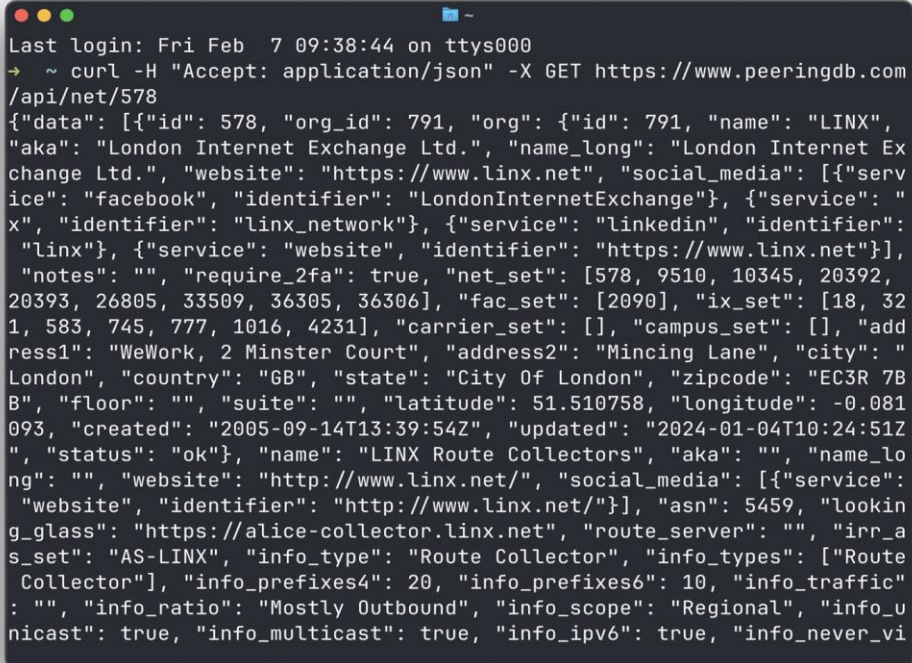
# 2025 Roadmap: Saved Searches, Notifications

- 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

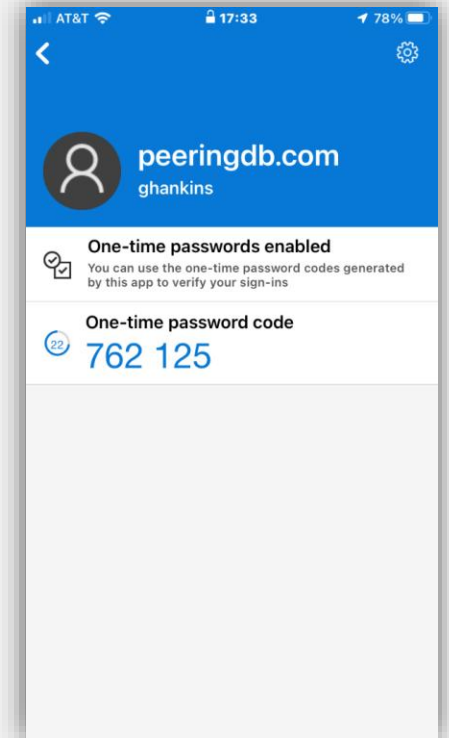
- Refactor v2 search code with improved automated testing
  - Results should be completer and more relevant
- Web search → API query link
  - Help less technical users develop one liners that improve their efficiency
- Implement search filters, e.g. hide IXPs without an ixfac
  - Give users more control 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 Exchange Ltd.", "website": "https://www.linx.net", "social_media": [{"service": "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, 321, 583, 745, 777, 1016, 4231], "carrier_set": [], "campus_set": [], "address1": "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": -0.081093, "created": "2005-09-14T13:39:54Z", "updated": "2024-01-04T10:24:51Z", "status": "ok"}, {"name": "LINX Route Collectors", "aka": "", "name_long": "", "website": "http://www.linx.net/", "social_media": [{"service": "website", "identifier": "http://www.linx.net/"}], "asn": 5459, "looking_glass": "https://alice-collector.linx.net", "route_server": "", "irr_as_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_unicast": true, "info_multicast": true, "info_ipv6": true, "info_never_v1": true}]}
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# 2025 Roadmap: MFA

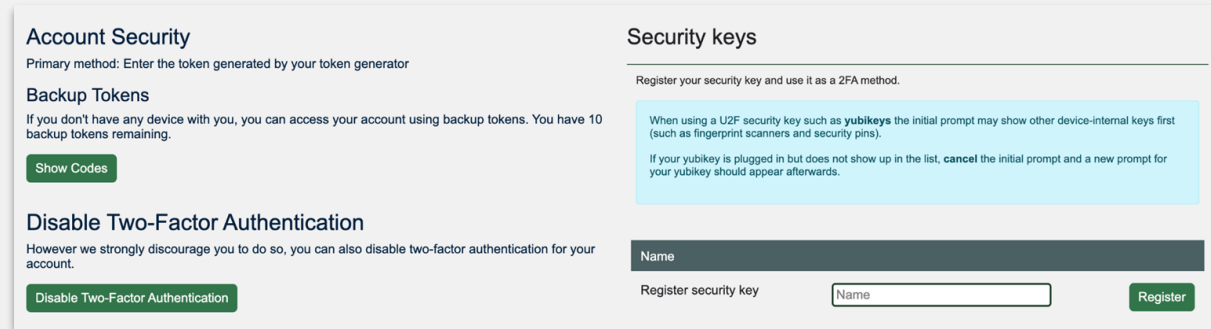
- Multi-factor authentication (MFA) has been available for many years and is now mandatory
- Two-factor authentication (2FA)
  - Using time-based one-time password (TOTP) - no SMS, no email
  - Provision for backup codes and recovery tokens
- Fast IDentity Online (FIDO) Universal 2nd Factor (U2F) 2FA 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**



The screenshot displays two side-by-side panels from a web application. The left panel, titled 'Account Security', contains three sections: 'Primary method: Enter the token generated by your token generator', 'Backup Tokens' (with a note about 10 remaining tokens and a 'Show Codes' button), and 'Disable Two-Factor Authentication' (with a warning and a 'Disable Two-Factor Authentication' button). The right panel, titled 'Security keys', includes instructions on registering a security key as a 2FA method, a light blue informational box about U2F keys and prompts, a 'Name' input field, and a 'Register security key' section with a 'Name' input field and a 'Register' button.



# 2025 Roadmap: Analysis

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

LOGO

# 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

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