



PeeringDB

PeeringDB Operations & Product Update

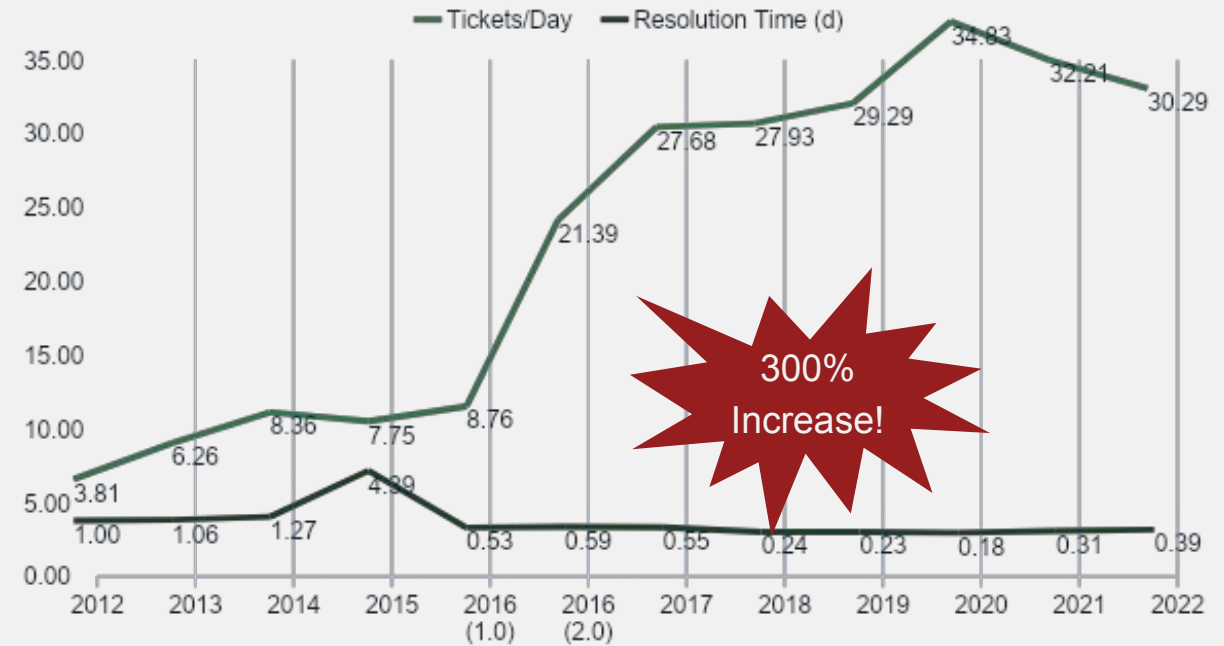
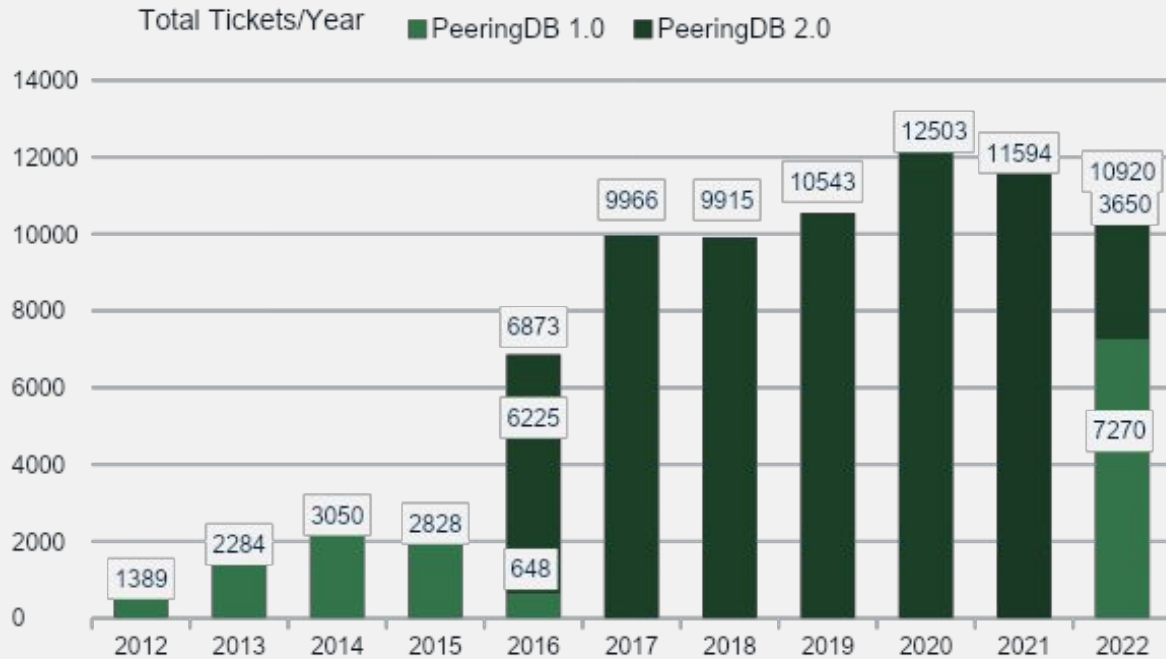
Ben Ryall
ben@peeringdb.com

What is PeeringDB?

PeeringDB is a freely available, user-maintained, database of networks, 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.



Support Ticket Statistics



- 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

Recent Volunteer Contributions

- Focus on volunteer contributions
- Security changes from Amazon
- UX changes from Google
- Various other changes from individuals

HOWTO: Get Started with Developing for PeeringDB

Technology

We use Python with Django and MySQL. Django manages interaction with the database. We publish all our code on GitHub. We have documented how to set up our development environment.

What to develop

PeeringDB users can request features and report bugs by creating issues on GitHub. Review open issues to either find a project you'd like to work on, or to see if there's an existing issue for the feature you want.

If you want to develop a feature that has not been discussed on GitHub, you should either create an issue or contact us to discuss what you need. You can send a message to productcom@lists.peeringdb.com or contact any of the members of the Product Committee.

If you want to develop code for an issue that has achieved consensus on GitHub, we suggest starting with issues labeled as Good first issue. These are simple issues that will help you get a feel for PeeringDB.

Style

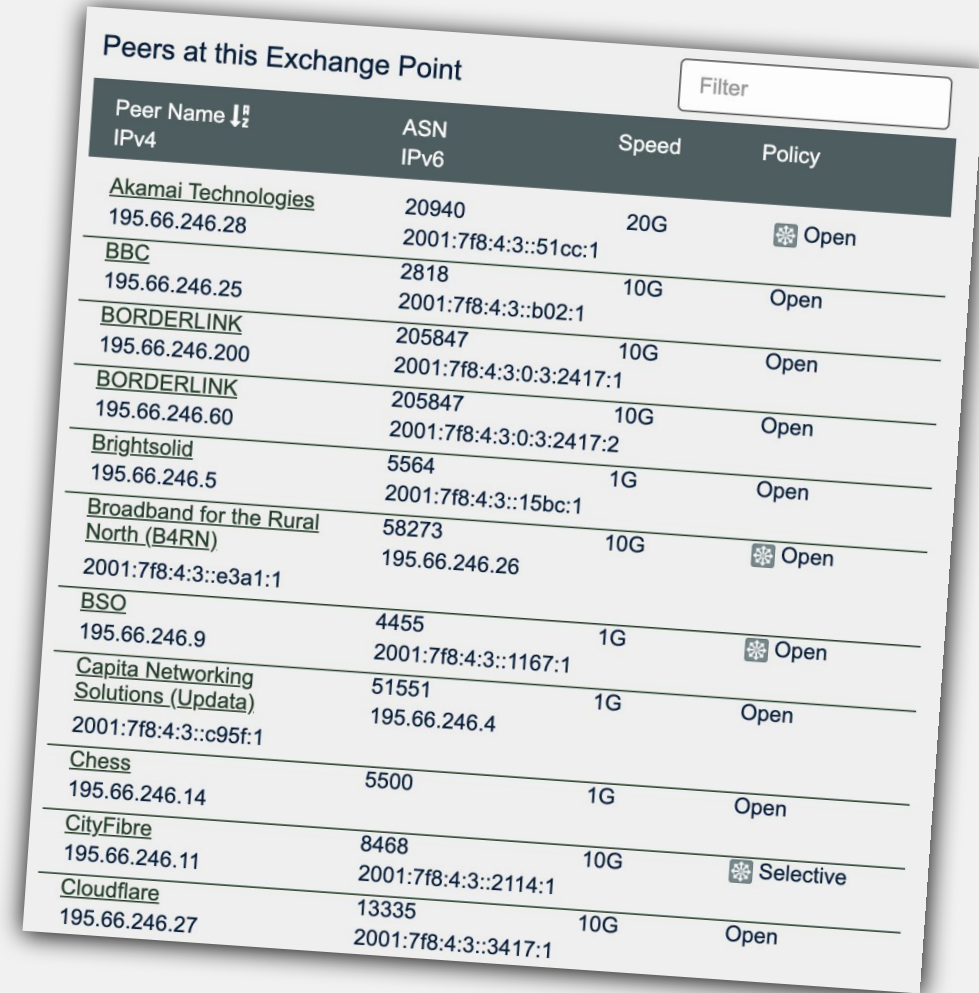
Before you start developing code look at how similar functions have been implemented. Use the same design as existing functions and develop unit tests for your code. We aim for 80% unit test coverage. You also need to run black on your code before submitting a Pull Request. We use black to ensure that all of our code has the same formatting. Reusing designs, developing unit tests, and using consistent formatting makes it easier for us to maintain the code over time.

We keep the feature parity between the web interface and the API. A feature added to one needs to be added to the other.

The implementation details documented in issues should be detailed enough to use as documentation for the web interface. Documentation is also needed for the API. The minimum we need for API documentation is an example of how to format the request and a pointer to the document section to update.

Recent Product Improvements

- Better support tools
- Better IX-F Export handling
- Networks peering with Route Servers now more visible
- Organizational policy features allow to require your users to:
 - Enable MFA
 - Use a specific email domain
 - Periodically revalidate their accounts
- And users can associate multiple addresses with an account



Peer Name ↓	ASN	Speed	Policy
IPv4	IPv6		
<u>Akamai Technologies</u> 195.66.246.28	20940 2001:7f8:4:3::51cc:1	20G	❄️ Open
<u>BBC</u> 195.66.246.25	2818 2001:7f8:4:3::b02:1	10G	Open
<u>BORDERLINK</u> 195.66.246.200	205847 2001:7f8:4:3:0:3:2417:1	10G	Open
<u>BORDERLINK</u> 195.66.246.60	205847 2001:7f8:4:3:0:3:2417:2	10G	Open
<u>Brightsolid</u> 195.66.246.5	5564 2001:7f8:4:3::15bc:1	1G	Open
<u>Broadband for the Rural North (B4RN)</u> 2001:7f8:4:3::e3a1:1	58273 195.66.246.26	10G	❄️ Open
<u>BSO</u> 195.66.246.9	4455 2001:7f8:4:3::1167:1	1G	❄️ Open
<u>Capita Networking Solutions (Updata)</u> 2001:7f8:4:3::c95f:1	51551 195.66.246.4	1G	Open
<u>Chess</u> 195.66.246.14	5500	1G	Open
<u>CityFibre</u> 195.66.246.11	8468 2001:7f8:4:3::2114:1	10G	❄️ Selective
<u>Cloudflare</u> 195.66.246.27	13335 2001:7f8:4:3::3417:1	10G	Open

General Updates

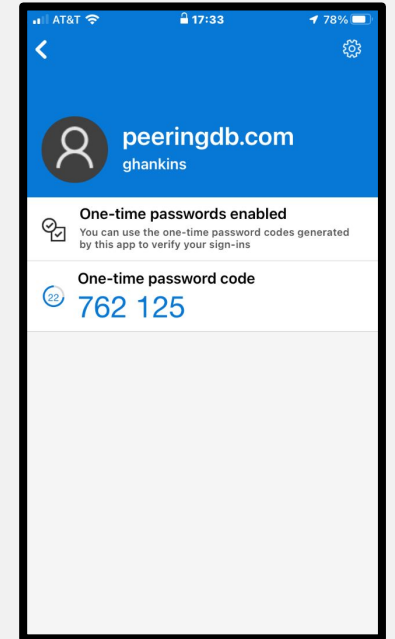
- <https://www.peeringdb.com> is enforced (2.35.0)
- Please check your scripts (e.g. -L for curl)
- Enables better delivery via CDNs
- Lots of bug fixes and small features
 - Users especially like the logo feature
 - Various counters for fac, ix and net objects
 - Updated fields allow for easy tracking of changes
 - netixlan_updated
 - netfac_updated
 - poc_updated

Authentication Changes

- API keys (2.26.0)
 - 256-bit random number, base-62 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
 - HOWTO: https://docs.peeringdb.com/howto/api_keys/
- Substantially rate-limit unauthenticated API queries (2.34.0)
 - Wild running scripts
 - Bad code
 - See [tech-list](#) for details
 - HOWTO: https://docs.peeringdb.com/howto/work_within_peeringdbs_query_limits/

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) support (2.33.0)
 - Allowing users to enable 2FA without relying on a TOTP app
- HOWTO: <https://docs.peeringdb.com/howto/authenticate/>




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)

SIX Seattle

Peers **355** Connections **409** Open Peers **244** Total Speed **16.0T** % with IPv6 **89**

Organization	Seattle Internet Exchange
Also Known As	
Long Name	Seattle Internet Exchange (MTU 1500)
City	Seattle
Country	US
Continental Region	North America
Media Type	Ethernet
Service Level	24/7 Support
Terms	Non-recurring Fees Only
Last Updated	2021-05-27T00:08:55Z
Notes 	SIX port fees: <ul style="list-style-type: none">• 100G: \$7.5k NRC, no MRC• 10G: \$1.5k NRC, no MRC• 1G: \$100 NRC, no MRC Translate »


Peers at this E


Peer Name ↓
IPv4

 [AARNet](#)

2001:504:16::1d

[Accel Net](#)
206.81.81.240

 [Access Communications operative](#)

 [Acronis US](#)








[Adobe Systems](#)
206.81.81.13

[Adobe Systems](#)
206.81.81.14

[Advanced Communications Technology](#)

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

NPFI-XXXX	
Last Updated	2022-04-20T20:03:43Z
Notes 	
	
Technical Email	support@aubix.net
Technical Phone 	
Sales Email	sales@aubix.net
Sales Phone 	
Property 	Owner
Diverse Serving Substations 	Yes
Available Voltage Services 	208 VAC
Health Check	

Searching

- Improvement from NANOG 83 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
- HOWTO: <https://docs.peeringdb.com/howto/search/>

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

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?

What's ahead?

- Regular updates with [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](#)
- Published release schedule on the Release Notes page

Release number	Internal testing	Beta release	Production release
2.41.0	2022-10-04	2022-10-11	2022-10-25
2.42.0	2022-11-01	2022-11-08	2022-11-15
2.43.0	2023-01-10	2023-01-17	2023-01-24
2.44.0	2023-01-31	2023-02-07	2023-02-21
2.45.0	2023-03-07	2023-03-14	2023-03-21

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PeeringDB

Questions?

Need help? Contact support@peeringdb.com

Got a feature idea? Contact productcom@lists.peeringdb.com