

# Introduction to PeeringDB



## What is Peering DB?

- 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



## Angola and its Neighbours

Country	IX	<b>Facilities</b>	Networks at IXes	Networks in Facilities	Networks total	%	Networks in PeeringDB	Networks in RIR
AO	2	4	18	8	22	31%	17	55
CD	2	2	4	0	4	28%	11	40
CG	1	2	5	2	7	47%	8	17
NA	1	0	5	0	5	19%	3	16
ZM	1	3	2	0	2	15%	3	20



### The GUI // Profile View



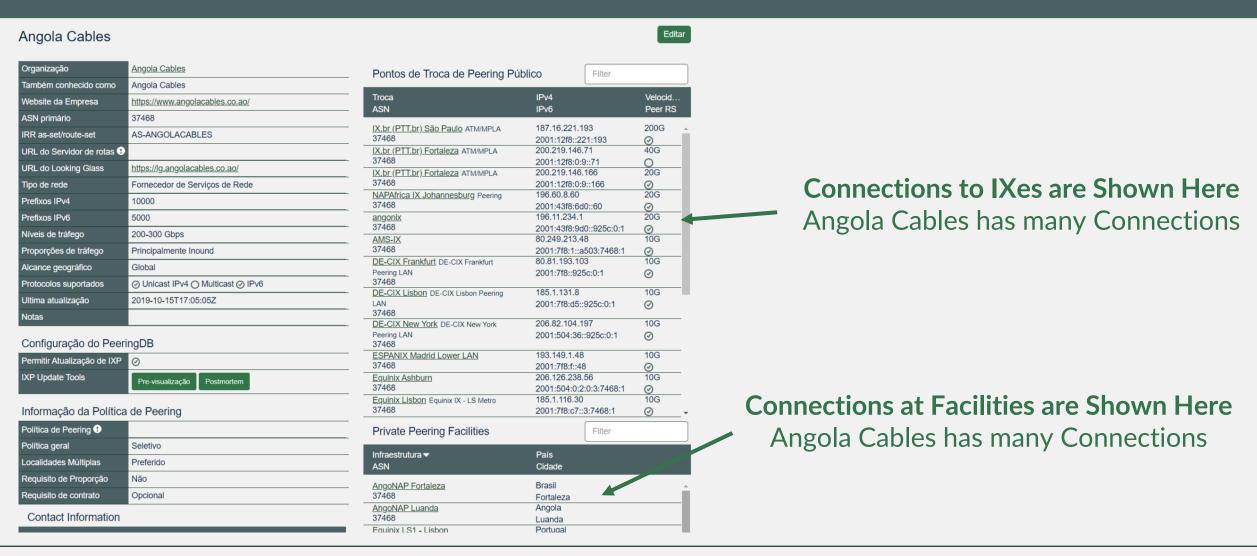


## The GUI // org view



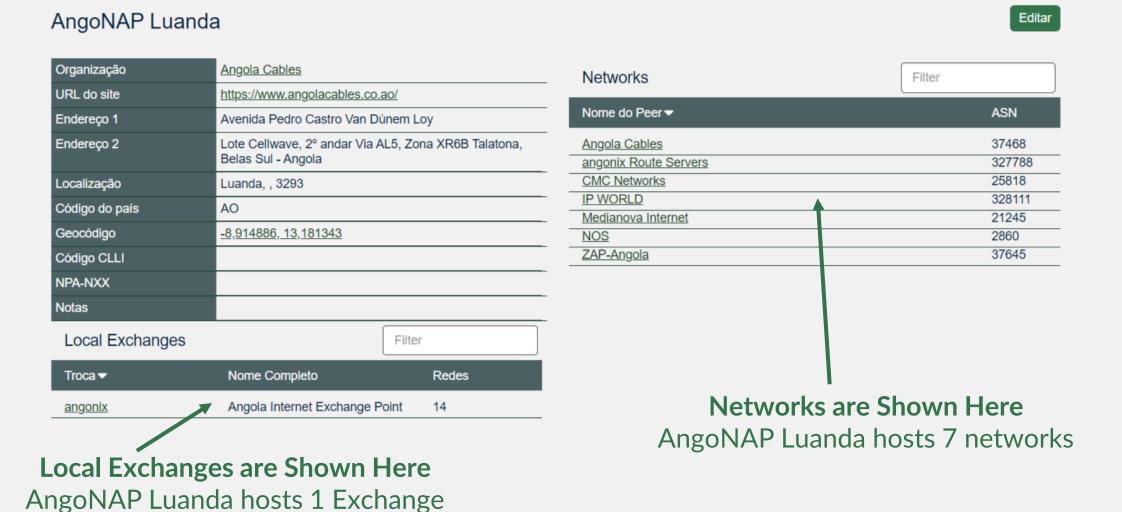


### The GUI // net view



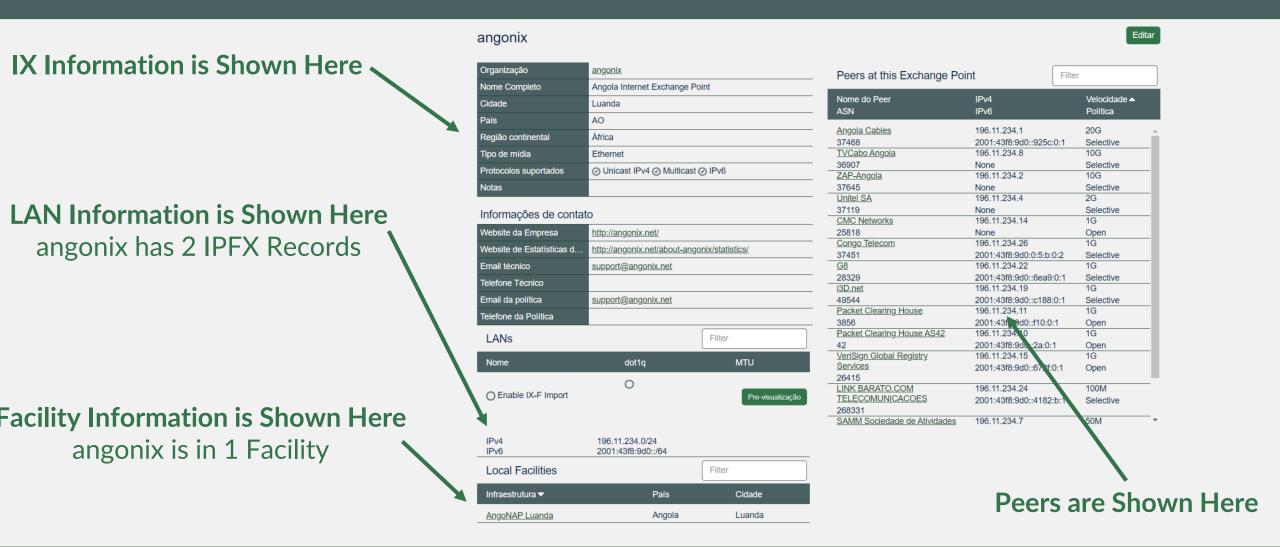


### The GUI // fac view





### The GUI // ix View





### **RESTful API Designed for Automation**

- All operations are supported and are designed to be automated
  - Read
  - Create
  - Update
  - Delete
- Each object type has an associated tag
  - Basic types: org, net, ix, fac, poc, as\_set
  - Derived types: ixfac, ixlan, ixpfx, netfac, netixlan
- List of objects: <a href="https://peeringdb.com/apidocs/">https://peeringdb.com/apidocs/</a>
- API documentation: <a href="http://docs.peeringdb.com/api\_specs/">http://docs.peeringdb.com/api\_specs/</a>



## Quick Example Output in JSON

- List all networks: curl -sG https://peeringdb.com/api/net
- Specific: <a href="https://peeringdb.com/api/net/7245?pretty&depth=0&fields=id,org\_id,name,asn,created,updated">https://peeringdb.com/api/net/7245?pretty&depth=0&fields=id,org\_id,name,asn,created,updated</a>

```
"meta": {},
"data": [
  "id": 7245,
  "org id": 9949,
  "name": "angonix Route Servers",
  "asn": 327778,
  "created": "2014-09-12T08:14:51Z",
  "updated": "2017-04-09T17:11:48Z"
```



### **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
  - 344 addresses subscribed to the Governance mailing list (as of April 16, 2019)
  - Governance list is at <a href="http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov">http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov</a>
  - More information available at <a href="http://gov.peeringdb.com/">http://gov.peeringdb.com/</a>



## **Committees**

Admin Committee	Operations Committee	Outreach Committee	Product Committee	
<ul> <li>Manage administration of user accounts and PeeringDB records</li> <li>Answer support tickets</li> <li>Cleansing and completion of PeeringDB records</li> </ul>	Manage PeeringDB infrastructure	<ul> <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>	<ul> <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>	
Leads: Stefan Funke (Chair)  Contact: admincom@ lists.peeringdb.com	Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair) Contact: <a href="mailto:pdb-ops@lists.peeringdb.com">pdb-ops@lists.peeringdb.com</a>	Leads: Greg Hankins (Chair) and Bijal Sanghani (Vice Chair) Contact: outreachcom@lists.peeringdb.com	Leads: Stephen McManus (Chair) and Matt Griswold (Vice Chair) Product Manager: Filiz Yilmaz Contact: productcom@ lists.peeringdb.com	



### **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

## Become a Peering DB 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

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Organization	Microsoft Corporation	
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#### DE-CIX Frankfurt Platinum Sponsor

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City	Frankfurt		
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Continental Region	Europe		
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Contact sponsorship@peeringdb.com for sponsorship info!

## Thank you to our sponsors!

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Silver Sponsors































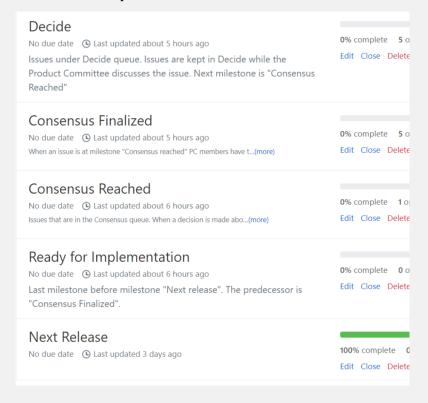






### **Feature Workflow**

- All features tracked using GitHub at <a href="https://github.com/peeringdb/peeringdb/issues">https://github.com/peeringdb/peeringdb/issues</a> with the ZenHub overlay
  - Anyone can open a feature requests, there are no internal or hidden requests
  - Open and transparent process for feature development
  - Workflow is at http://docs.peeringdb.com/workflow/
- Product Committee feature 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 Process

- Announced at least one week in advance with all changes to give the community notice
  - Beta site is already running the development version for testing
  - Announced on PDB Announce list, Twitter, Facebook
- Released on Wednesdays at 0400Z and avoids
  - Mondays and Fridays
  - International holidays

11/23/2019

- Large conferences and events (APRICOT, EPF, GPF, NANOG, RIPE, etc.)
- List of current changes (release notes) for each version are on GitHub at https://github.com/peeringdb/peeringdb/milestones

### **Beta Development**

- Beta server
  - Available at https://beta.peeringdb.com/
  - Runs the latest beta software version
  - Full access over HTTP and the API
  - Database is local to the beta server only, changes are not reflected on the production servers
- Latest changes
  - Available at <a href="https://beta.peeringdb.com/changes">https://beta.peeringdb.com/changes</a>
  - Redirects to the list of issues on GitHub
  - Documents all of the changes in the current beta version
- Anyone can log bugs and feature requests in GitHub at https://github.com/peeringdb/peeringdb/issues



### Recent Development Highlights

### Product Committee Decision Making process

- Renewed process to act faster on issues
- Product Committee Members to shepherd discussions
- Logging decisions on Github for info dissemination and transparency purposes \

### Translations

- Process documented internally to streamline the release of translated strings
- Languages will be released at 80% maturity level
- Working on external website to help translators ongoing

### Vendor selection Process

Currently under discussion

11/23/2019

Increase vendor diversity



## **Product Update**

- Focusing on the backlog issues, bugs and translations
- Recent versions:
  - 2.15 released on 28 August 2019
  - 2.16 released on 18 September 2019
  - 2.17 due on 04 December 2019

#### Fixes:

- IANA reserved ASNs are not listed in PeeringDB
- Better IP address validation
- Links to maps.google.com in translations
- Oauth correctly sets next URL (had priority due to IXP Manager release)
  - Info on Oauth at <a href="https://docs.peeringdb.com/oauth/">https://docs.peeringdb.com/oauth/</a>
- Newlines in JavaScript Markdown renderer behave same as in the Python renderer

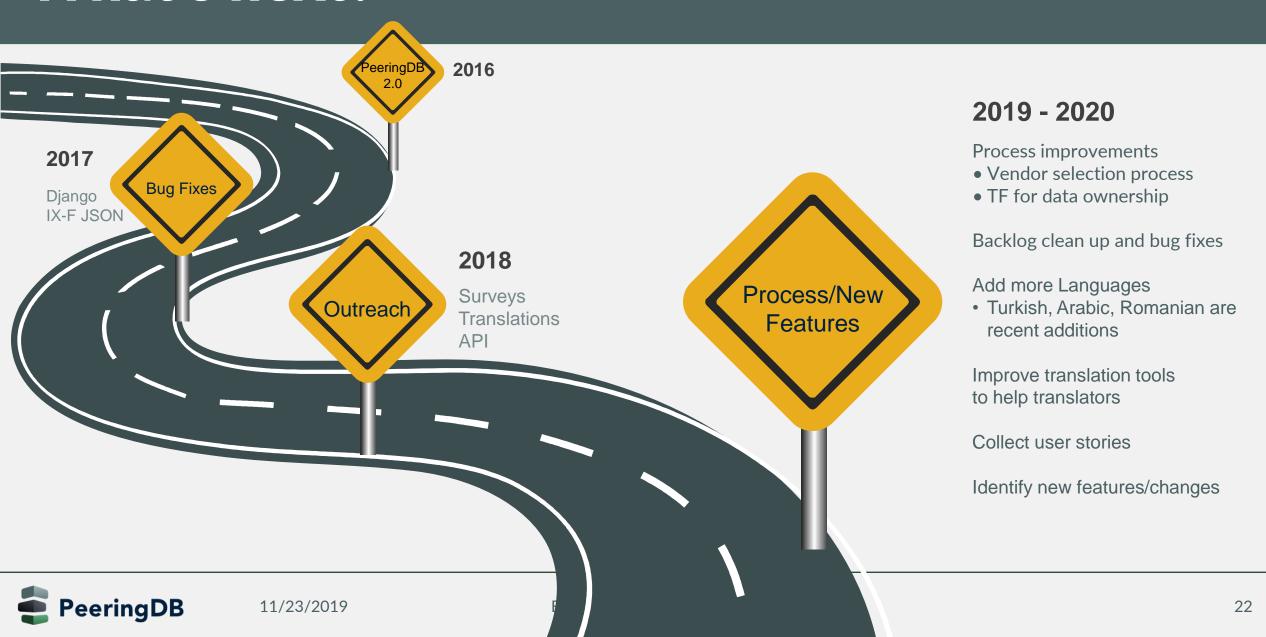
### **Next Release and Discussions**

- Focus still on the backlog issues, bug fixes and translations
- Discussions on
  - IX-F importer
  - Data deletion and how to retain deleted data for R&D purposes
- Data ownership
  - More and more discussion on who owns the data when more than one party is involved
    - ixfac, netfac, netixlan

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- Established a Task Force to work on a policy document
- Would you like to take part? Let us know!

### What's next?



### Information and Resources

- Announce list: <a href="http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-announce">http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-announce</a>
- Governance list: <a href="http://lists.peeringdb.com/cgibin/mailman/listinfo/pdb-gov">http://lists.peeringdb.com/cgibin/mailman/listinfo/pdb-gov</a>
- Technical list: <a href="http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-tech">http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-tech</a>
- User Discuss list: <u>http://lists.peeringdb.com/cgi-bin/mailman/listinfo/user-discuss</u>
- Docs, presentations, guides, tools: http://docs.peeringdb.com/

- Board and Officers: <u>stewards@lists.peeringdb.com</u>
- Admins: support@peeringdb.com
- Presentation requests: outreachcom@lists.peeringdb.com
- Uptime status: <a href="http://status.peeringdb.com/">http://status.peeringdb.com/</a>
- Bugs and feature requests: <a href="https://github.com/peeringdb/peeringdb/">https://github.com/peeringdb/peeringdb/</a>
  - Social media:
- https://www.facebook.com/peeringdb/
- in <a href="https://www.linkedin.com/company/peeringdb">https://www.linkedin.com/company/peeringdb</a>
- @PeeringDB



