



PeeringDB

PeeringDB Workshop

How is PeeringDB organised?

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Agenda

- Please always use the tutorial DB at <https://tutorial.peeringdb.com>
- What is PeeringDB?
- Organisation
 - History
 - Association
 - Committees

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.”

Why should I have a record in PeeringDB?

- As a network a PeeringDB record makes it easy for other networks to find you, and helps you to establish peering / interconnection
- As a colocation provider a PeeringDB record creates visibility, and helps you to attract additional networks and Ixes
- As an IX a PeeringDB record provides information about your participants, and colocations where your service is available
- Provides a user friendly GUI and a powerful API for automatisation



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 <http://lists.peeringdb.com/cgi-bin/mailman/listinfo/pdb-gov>
 - More information available at <http://gov.peeringdb.com/>

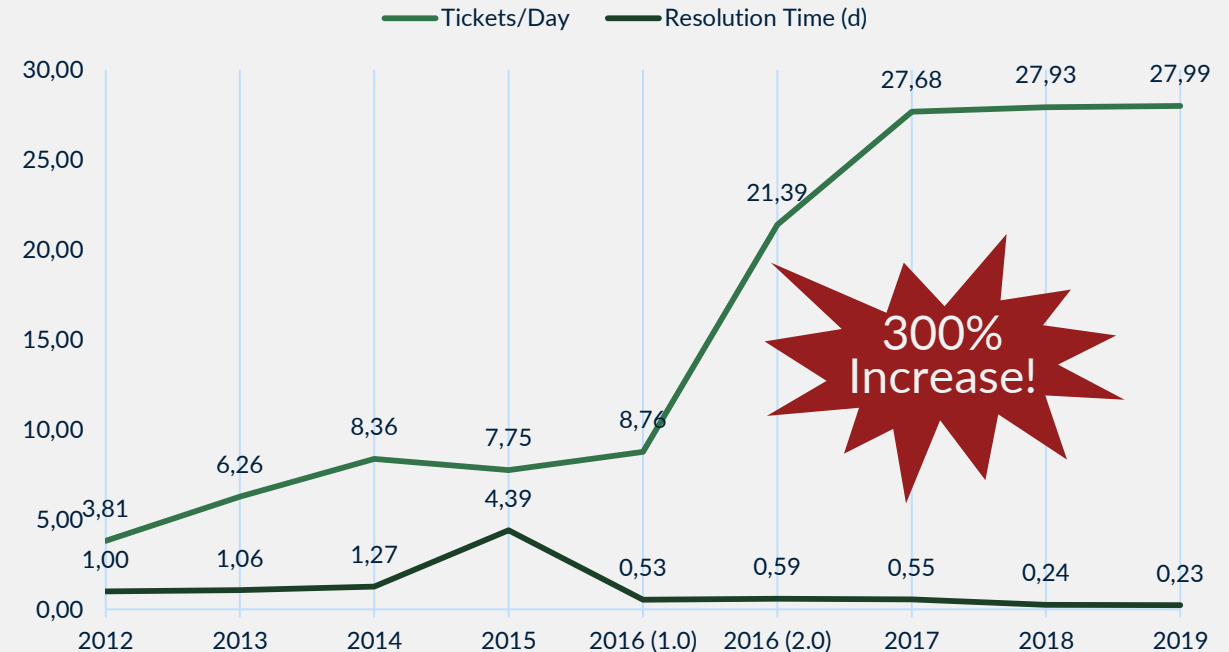
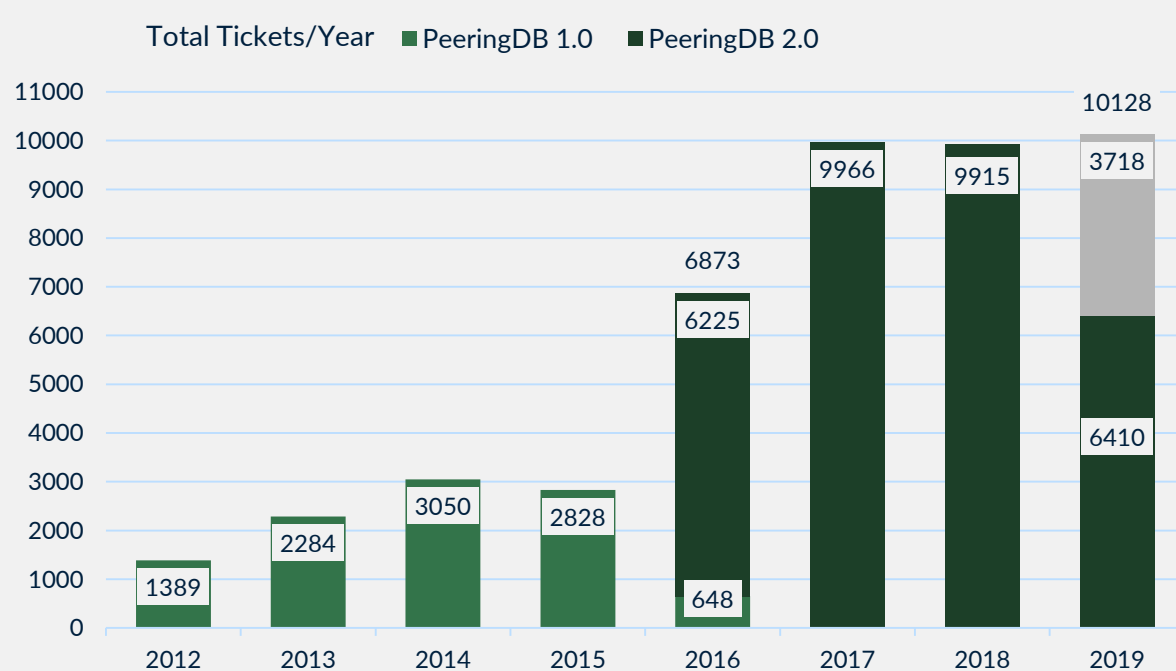
Governance

- The Members
 - Any corporation, limited liability company, partnership or other legal business entity may be a Member
 - One (virtual / online) member meeting per year
- The Board
 - Sets strategic directions and overlooks financial issues
 - Half of the board is elected every year
- The Committees
 - Responsible for the day to day work
 - Admin Committee
 - Operations Committee
 - Outreach Committee
 - Product Committee

Committees

Admin Committee	Operations Committee	Outreach Committee	Product Committee
<ul style="list-style-type: none">• Manage administration of user accounts and PeeringDB records• Answer support tickets• Cleansing and completion of PeeringDB records <p>Leads: Stefan Funke (Chair)</p> <p>Contact: admincom@lists.peeringdb.com</p>	<ul style="list-style-type: none">• Manage PeeringDB infrastructure <p>Leads: Job Snijders (Chair) and Aaron Hughes (Vice Chair)</p> <p>Contact: pdb-ops@lists.peeringdb.com</p>	<ul style="list-style-type: none">• Manage marketing and social media• Develop and maintain presentations, workshops and webinars• Coordinate presentations and attendance at events <p>Leads: Greg Hankins (Chair) and Bijal Sanghani (Vice Chair)</p> <p>Contact: outreachcom@lists.peeringdb.com</p>	<ul style="list-style-type: none">• Manage roadmap and development priorities• Ask for input from the community on desired features• Write SoWs to solicit bids to complete requested features <p>Leads: Stephen McManus (Chair) and Matt Griswold (Vice Chair)</p> <p>Product Manager: Filiz Yilmaz</p> <p>Contact: productcom@lists.peeringdb.com</p>

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 PeeringDB Sponsor!

- Diamond Sponsorship - \$25,000 / year



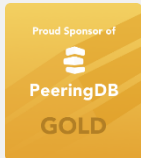
- Limited to 2 sponsors
- Very large logo on top line of Sponsors page with URL
- Diamond Sponsor badge display on all records
- Social media promotion

- 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

Microsoft Diamond Sponsor

Organization	Microsoft Corporation
Also Known As	8068 8069
Company Website	
Primary ASN	8075

DE-CIX Frankfurt Platinum Sponsor

Organization	DE-CIX Management GmbH
Long Name	Deutscher Commercial Internet Exchange
City	Frankfurt
Country	DE
Continental Region	Europe
Media Type	Ethernet



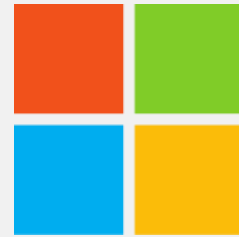
Proud Sponsor of

PeeringDB  Gold

Contact sponsorship@peeringdb.com for sponsorship info!

Thank you to our sponsors!

Diamond
Sponsor



Microsoft

Platinum
Sponsors



Gold
Sponsors



Silver
Sponsors



DE-CIX Academy

PeeringDB Workshop

Learning the Ropes

arnold@peeringdb.com

PeeringDB

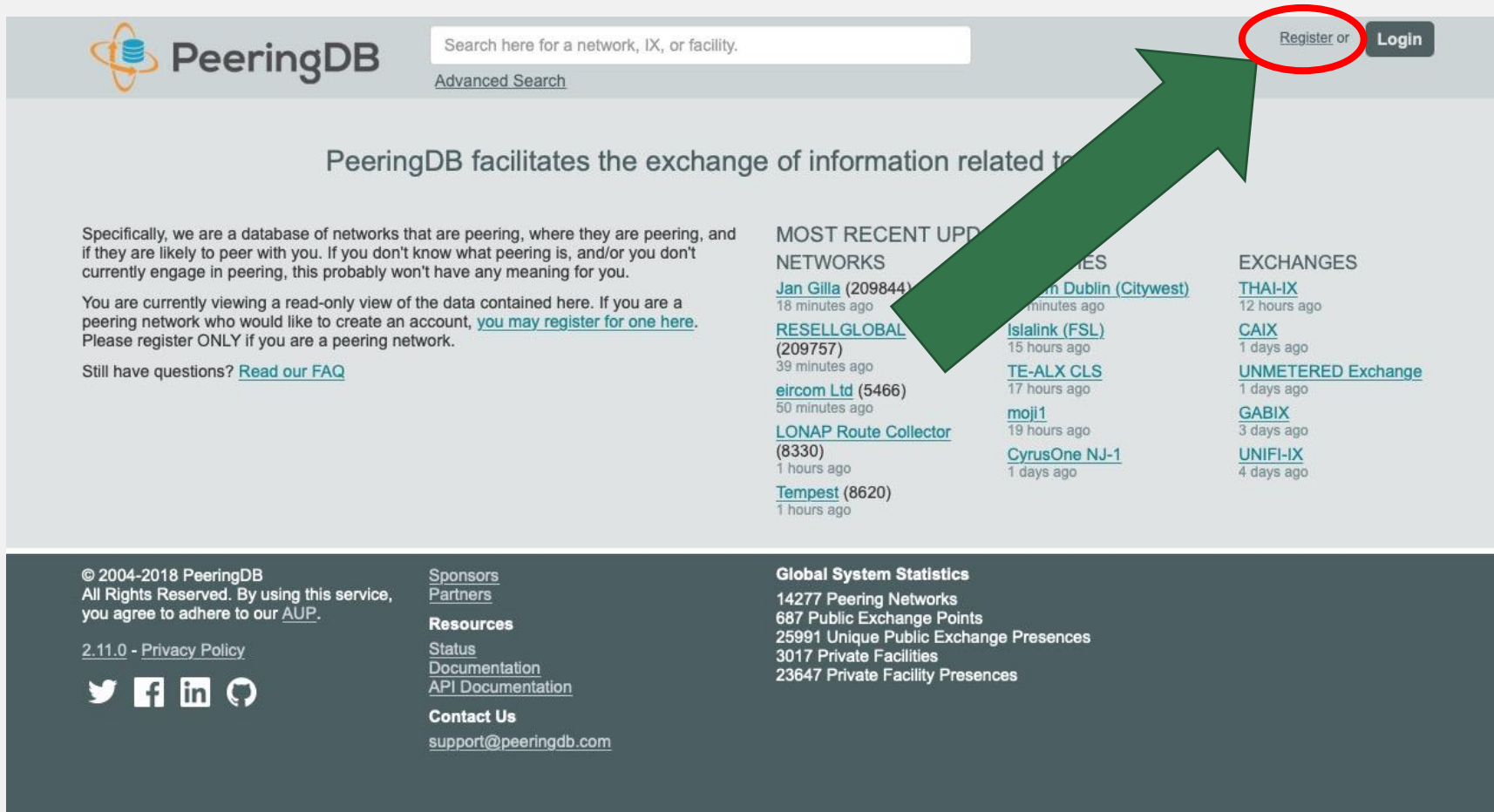


Where

Agenda

- Please always use the tutorial DB at <https://tutorial.peeringdb.com>
- Registering
 - Yourself
 - Your organization
- Adding information
 - About your organization
 - About your network / Autonomous System
 - Adding your peering policy
- Internet Exchanges and Facilities
 - Add where your network is present
- Retrieve information
 - Present what you have learned about another network

Registering



The screenshot shows the PeeringDB homepage. A large green arrow points from the bottom left towards the top right, specifically highlighting the 'Register or Login' button in the top right corner, which is circled in red. The page header includes the PeeringDB logo, a search bar with the placeholder text 'Search here for a network, IX, or facility.', and a link to 'Advanced Search'. The main content area features a heading 'PeeringDB facilitates the exchange of information related to' followed by a paragraph explaining the database's purpose and a link to register. Below this, there are three columns of 'MOST RECENT UPDATES' for NETWORKS, EXCHANGES, and a third column. The footer contains copyright information, social media links, and global system statistics.

PeeringDB Search here for a network, IX, or facility. [Advanced Search](#) [Register or](#) [Login](#)

PeeringDB facilitates the exchange of information related to

Specifically, we are a database of networks that are peering, where they are peering, and if they are likely to peer with you. If you don't know what peering is, and/or you don't currently engage in peering, this probably won't have any meaning for you.

You are currently viewing a read-only view of the data contained here. If you are a peering network who would like to create an account, [you may register for one here](#). Please register ONLY if you are a peering network.

Still have questions? [Read our FAQ](#)

MOST RECENT UPDATES

NETWORKS

- [Jan Gilla \(209844\)](#) 18 minutes ago
- [RESELLGLOBAL \(209757\)](#) 39 minutes ago
- [eircom Ltd \(5466\)](#) 50 minutes ago
- [LONAP Route Collector \(8330\)](#) 1 hours ago
- [Tempest \(8620\)](#) 1 hours ago

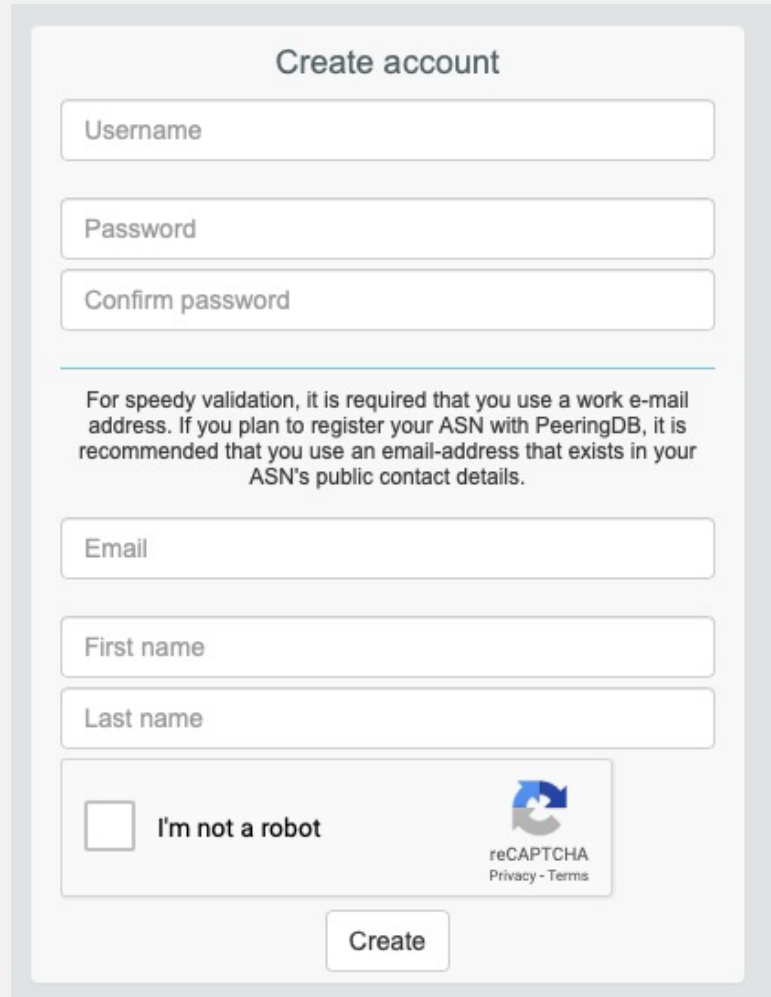
EXCHANGES

- [THAI-IX](#) 12 hours ago
- [CAIX](#) 1 days ago
- [UNMETERED Exchange](#) 1 days ago
- [GABIX](#) 3 days ago
- [UNIFI-IX](#) 4 days ago

Global System Statistics

- 14277 Peering Networks
- 687 Public Exchange Points
- 25991 Unique Public Exchange Presences
- 3017 Private Facilities
- 23647 Private Facility Presences

Registering



The screenshot shows the 'Create account' form on the PeeringDB website. It includes input fields for Username, Password, Confirm password, Email, First name, and Last name. Below the email field is a note: 'For speedy validation, it is required that you use a work e-mail address. If you plan to register your ASN with PeeringDB, it is recommended that you use an email-address that exists in your ASN's public contact details.' At the bottom, there is a reCAPTCHA 'I'm not a robot' checkbox and a 'Create' button.

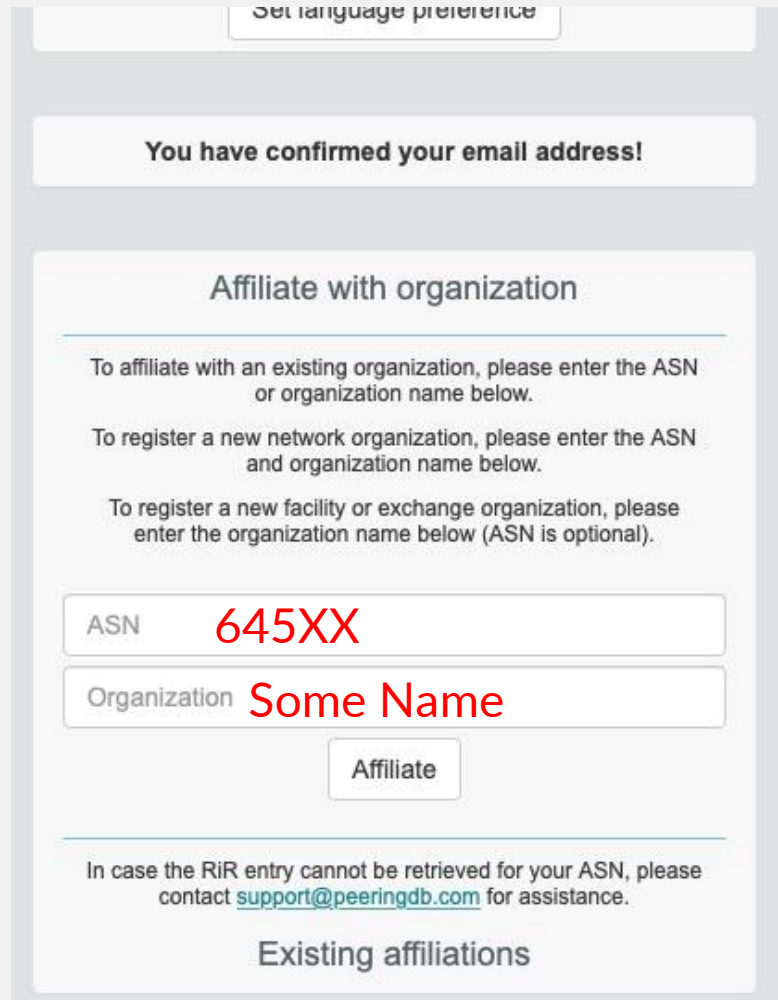
- Choose an username
- Password must be at least 10 characters long
- Use a **real work e-mail address**
 - Ideally the one you registered teh ASN with
- And put in your first and last name
- You receive a confirmation email
- Click on the link in the email

Registering

The screenshot displays the PeeringDB registration process. It features three main sections: 1. 'Select language' with a dropdown menu set to 'English' and a 'Set language preference' button. 2. 'Email Confirmation' with a red warning message stating that access to other features requires email confirmation, followed by a message that a confirmation link has been sent and a 'Resend Confirmation Email' button. 3. 'Change email address' with a note about using a work email for validation and a form with 'Email' and 'Password' input fields.

- You can choose a language
 - If your language is not available yet and you want to help – let us know!
 - Not all languages are fully translated
- To re-send the confirmation email, click the button
- Further options here:
 - Change email address
 - Change password
- You have to click the link in the email to continue!

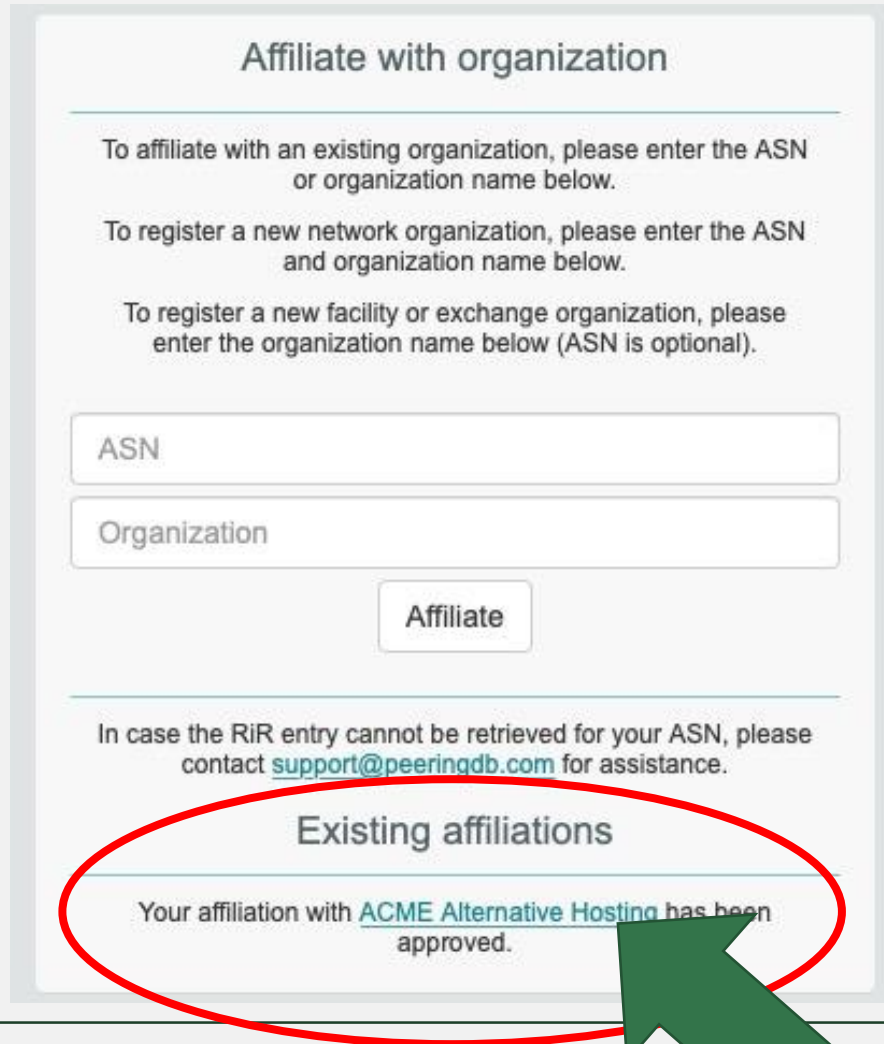
Registering



The screenshot shows the PeeringDB registration interface. At the top, there is a button labeled 'Set language preference'. Below it, a message states 'You have confirmed your email address!'. The main section is titled 'Affiliate with organization'. It contains three instructions: 'To affiliate with an existing organization, please enter the ASN or organization name below.', 'To register a new network organization, please enter the ASN and organization name below.', and 'To register a new facility or exchange organization, please enter the organization name below (ASN is optional)'. There are two input fields: 'ASN' with the value '645XX' and 'Organization' with the value 'Some Name'. Below these fields is an 'Affiliate' button. At the bottom, there is a note: 'In case the RiR entry cannot be retrieved for your ASN, please contact support@peeringdb.com for assistance.' and a section titled 'Existing affiliations'.

- Once your email is confirmed:
- Get affiliated with an organization
 - Your company
 - Which is already in PeeringDB
- Or is new to PeeringDB
 - Can be an ISP – enter your AS number!
 - Or a Datacenter
 - Or an Internet Exchange

Registering



Affiliate with organization

To affiliate with an existing organization, please enter the ASN or organization name below.

To register a new network organization, please enter the ASN and organization name below.

To register a new facility or exchange organization, please enter the organization name below (ASN is optional).

ASN

Organization

Affiliate

In case the RIR entry cannot be retrieved for your ASN, please contact support@peeringdb.com for assistance.

Existing affiliations


Your affiliation with [ACME Alternative Hosting](#) has been approved.


- Once approved, you can edit your organization
- Click on your organization to continue...

Your Organization

- Enter information about your organization – click on edit

ACME Alternative Hosting


Some of the data on this page is incomplete, please update the fields marked with  to improve data quality.

Website 

Address 1 

Address 2

Location 

Country Code 

Notes

Facilities

Filter

Name ▼

Country
City

Nothing matched your filter
You may filter by Name, Country or City

Networks

Filter

Name ▼

ASN

[ACME Alternative Hosting](#)

64501

Exchanges

Filter

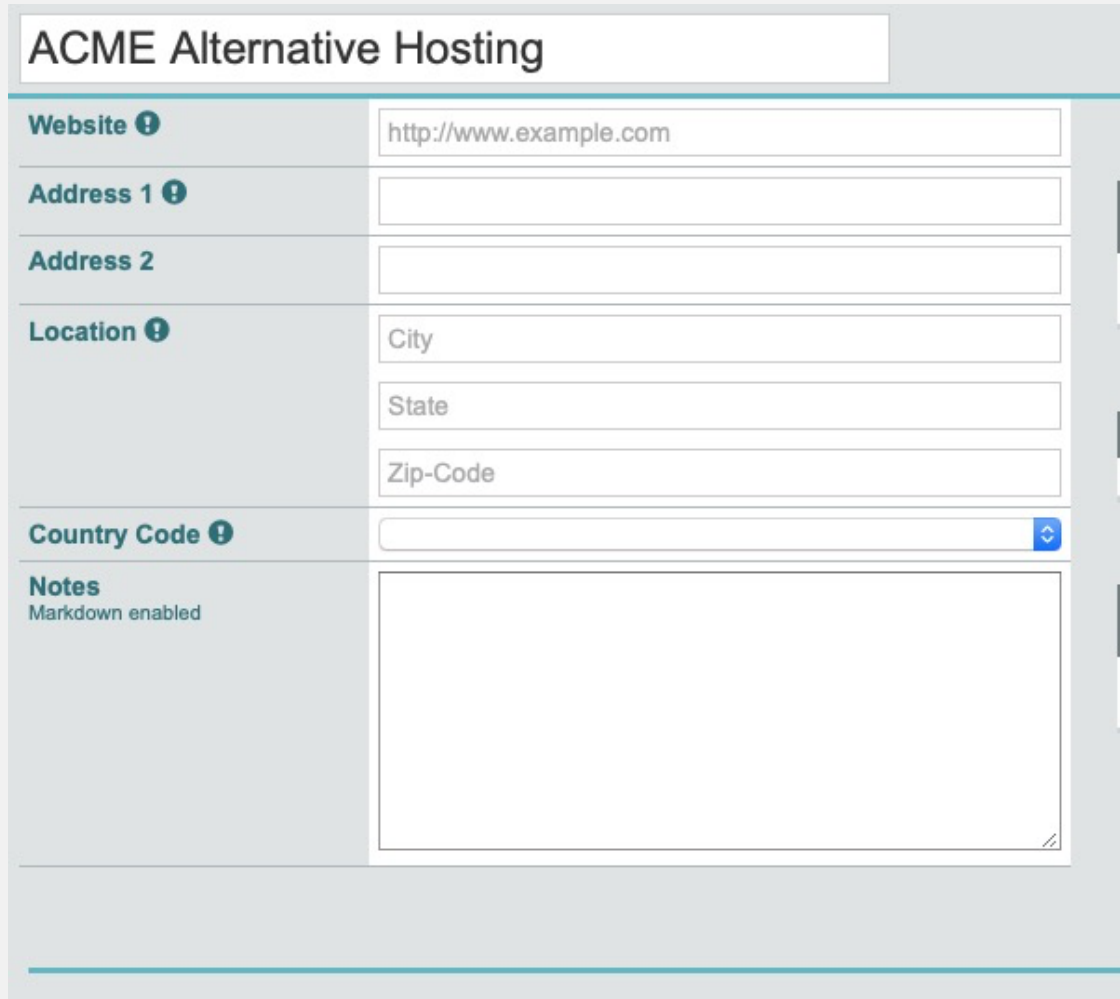
Name ▼

Country
City

Nothing matched your filter
You may filter by Name, Country or City

Edit

Your Organization

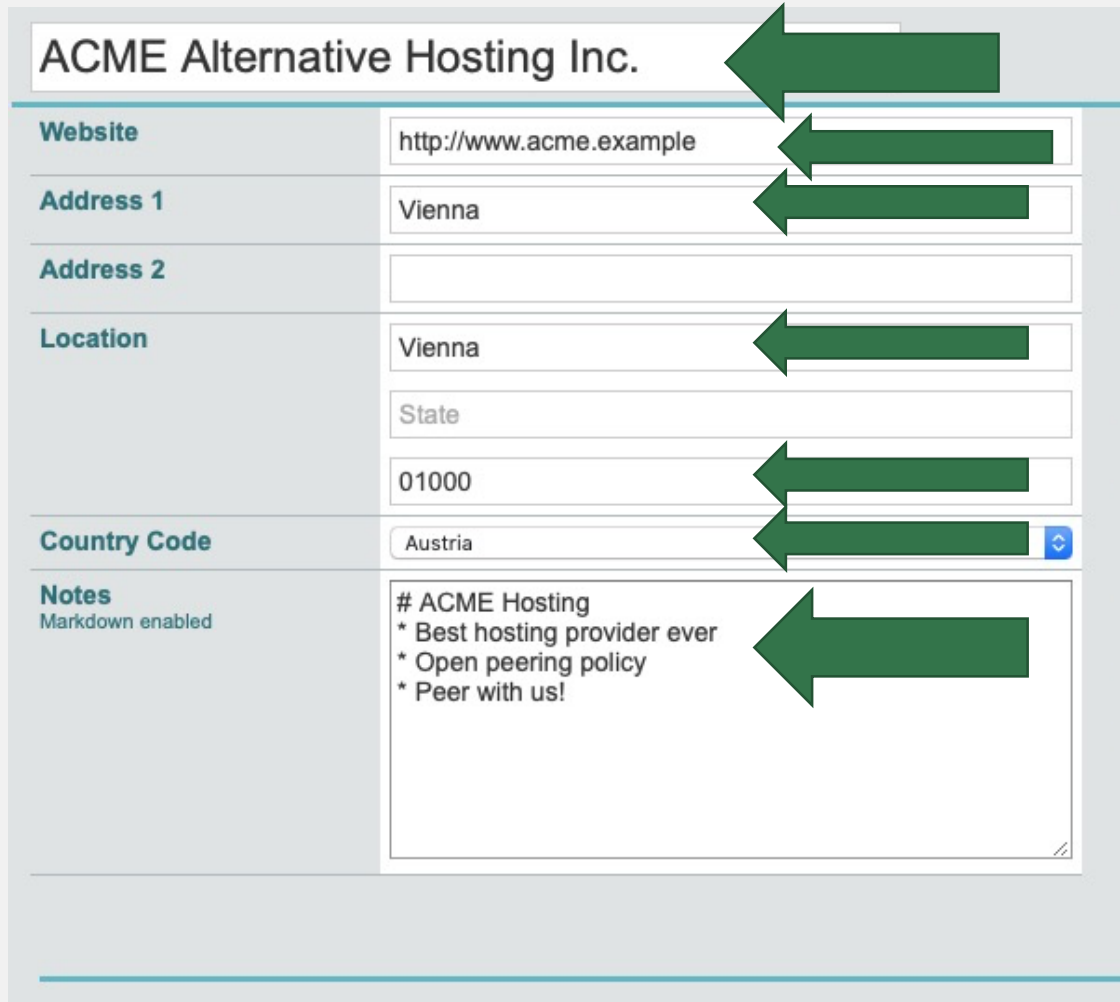


The screenshot shows the 'ACME Alternative Hosting' form in PeeringDB. The form is divided into several sections: 'Website' with a text input containing 'http://www.example.com'; 'Address 1' and 'Address 2' with empty text inputs; 'Location' with three stacked text inputs for 'City', 'State', and 'Zip-Code'; 'Country Code' with a dropdown menu showing a flag icon; and 'Notes' with a large text area and the text 'Markdown enabled'.

ACME Alternative Hosting	
Website ⓘ	<input type="text" value="http://www.example.com"/>
Address 1 ⓘ	<input type="text"/>
Address 2	<input type="text"/>
Location ⓘ	<input type="text" value="City"/>
	<input type="text" value="State"/>
	<input type="text" value="Zip-Code"/>
Country Code ⓘ	<input type="text" value=""/>
Notes Markdown enabled	<div></div>

- Lets focus on the left side of the screen
- Enter the required information (use either your Sheet or your real company information)
- Use the notes field to promote your company as a peer (if you want to)
 - You can use Markdown (see handout for URL)

Your Organization



ACME Alternative Hosting Inc.

Website

Address 1

Address 2

Location

Country Code


Notes
Markdown enabled

ACME Hosting
* Best hosting provider ever
* Open peering policy
* Peer with us!

- You can also change your company name
- Enter some information and click “Save”

Network Information

- Now it gets interesting
- With your basic company information now in, let's add information about your network
- Click on your network name – beside your AS number on the right side

 **PeeringDB** [Advanced Search](#) asmith

ACME Alternative Hosting Inc. Edit

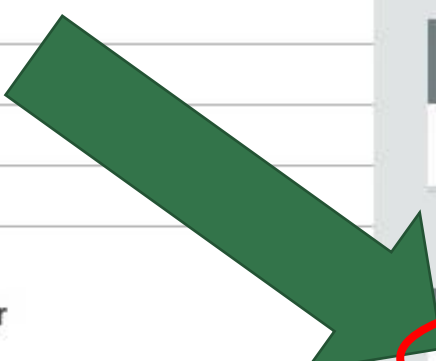
Website	http://www.acme.example
Address 1	Vienna
Address 2	
Location	Vienna 01000
Country Code	Austria
Notes	ACME Hosting <ul style="list-style-type: none">• Best hosting provider ever• Open peering policy• Peer with us!

Facilities Filter

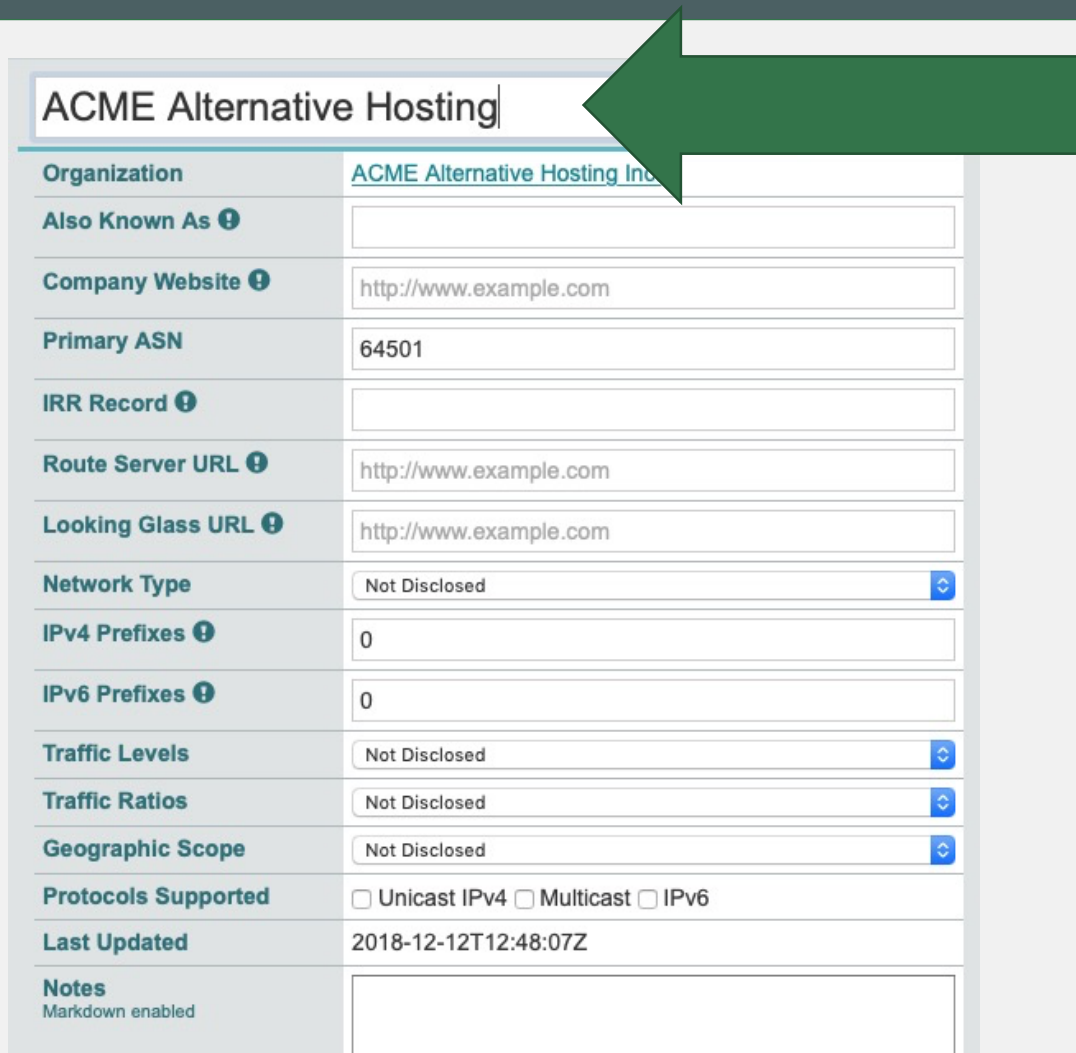
Name ▼	Country	City
Nothing matched your filter You may filter by Name, Country or City		

Networks Filter

Name ▼	ASN
ACME Alternative Hosting	64501



Network Information



ACME Alternative Hosting

Organization	ACME Alternative Hosting Inc
Also Known As ⓘ	
Company Website ⓘ	http://www.example.com
Primary ASN	64501
IRR Record ⓘ	
Route Server URL ⓘ	http://www.example.com
Looking Glass URL ⓘ	http://www.example.com
Network Type	Not Disclosed
IPv4 Prefixes ⓘ	0
IPv6 Prefixes ⓘ	0
Traffic Levels	Not Disclosed
Traffic Ratios	Not Disclosed
Geographic Scope	Not Disclosed
Protocols Supported	<input type="checkbox"/> Unicast IPv4 <input type="checkbox"/> Multicast <input type="checkbox"/> IPv6
Last Updated	2018-12-12T12:48:07Z
Notes Markdown enabled	

- Again, click on „Edit“ (top right)
- Here is a lot of information to enter
- Most is self-explanatory
- But some is not that obvious
 - Title here is your **network name**
 - Does not have to be the same as your company name
 - Some companies run more than one network
 - Or use a different name for their networking business

Network Information

ACME Alternative Hosting	
Organization	ACME Alternative Hosting Inc
Also Known As ⓘ	
Company Website ⓘ	http://www.example.com
Primary ASN	64501
IRR Record ⓘ	
Route Server URL ⓘ	http://www.example.com
Looking Glass URL ⓘ	http://www.example.com
Network Type	Not Disclosed
IPv4 Prefixes ⓘ	0
IPv6 Prefixes ⓘ	0
Traffic Levels	Not Disclosed
Traffic Ratios	Not Disclosed
Geographic Scope	Not Disclosed
Protocols Supported	<input type="checkbox"/> Unicast IPv4 <input type="checkbox"/> Multicast <input type="checkbox"/> IPv6
Last Updated	2018-12-12T12:48:07Z
Notes Markdown enabled	

- Use this field for an alternative name
- Or an „old“ name if you changed names
- Or leave it empty
- Company website – remember this is PeeringDB
 - Put in the URL your peers should see
- AS number – your main one
 - If you have more, you can add a 2nd entry later
 - This field will probably be removed

Network Information

ACME Alternative Hosting	
Organization	ACME Alternative Hosting Inc.
Also Known As ⓘ	ACME Hosting
Company Website ⓘ	http://www.acme.example
Primary ASN	64501
IRR Record ⓘ	AS64501:AS-ACME-HOSTING
Route Server URL ⓘ	http://www.example.com
Looking Glass URL ⓘ	http://www.example.com
Network Type	Not Disclosed
IPv4 Prefixes ⓘ	0
IPv6 Prefixes ⓘ	0
Traffic Levels	Not Disclosed
Traffic Ratios	Not Disclosed
Geographic Scope	Not Disclosed
Protocols Supported	<input type="checkbox"/> Unicast IPv4 <input type="checkbox"/> Multicast <input type="checkbox"/> IPv6
Last Updated	2018-12-12T12:48:07Z
Notes Markdown enabled	

- IRR Record

- Your AS-Macro (also called AS-Set)
- You have registered in *IRR* database
- Of your RIR (Regional Internet Registry)

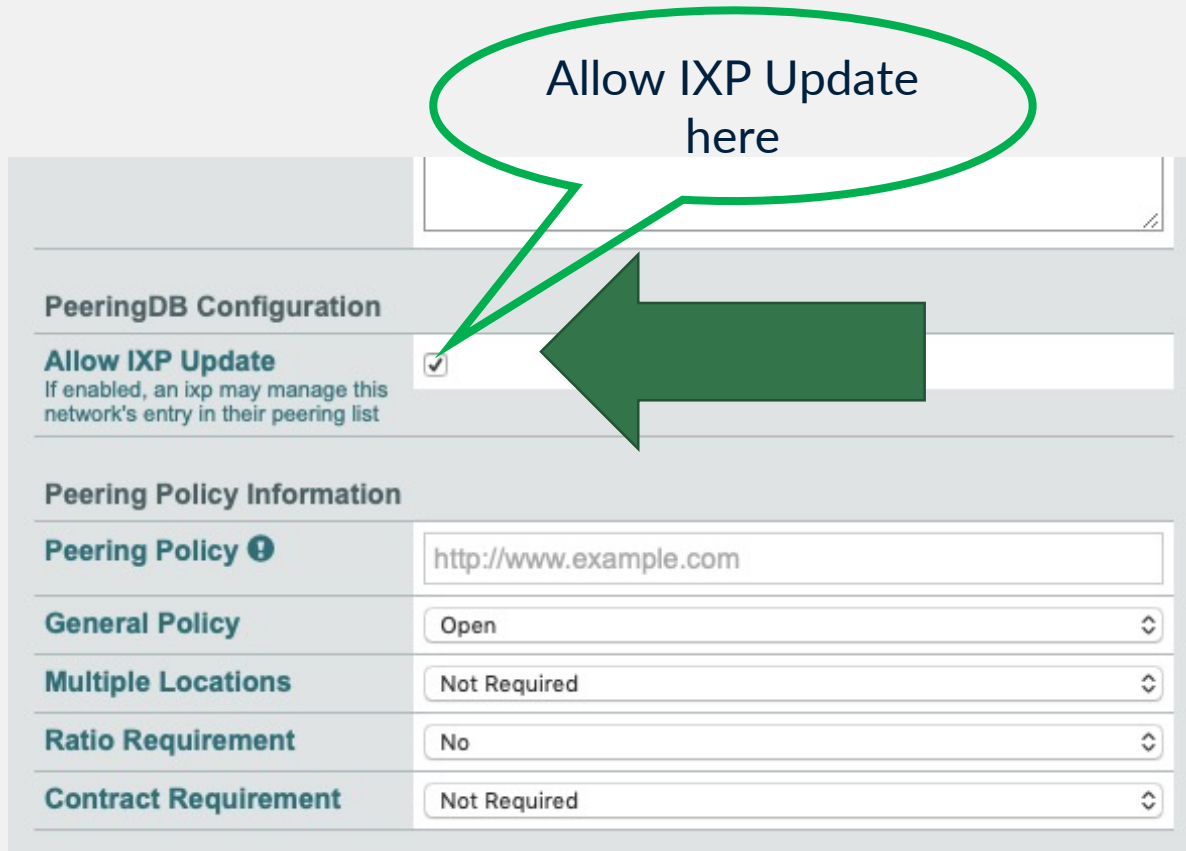
- Route Server URL - if you have one
- Looking Glass URL

Network Information

ACME Alternative Hosting	
Organization	ACME Alternative Hosting Inc.
Also Known As ⓘ	ACME Hosting
Company Website ⓘ	http://www.acme.example
Primary ASN	64501
IRR Record ⓘ	AS64501:AS-ACME-HOSTING
Route Server URL ⓘ	http://www.example.com
Looking Glass URL ⓘ	http://www.example.com
Network Type	Content
IPv4 Prefixes ⓘ	3
IPv6 Prefixes ⓘ	3
Traffic Levels	100-1000Mbps
Traffic Ratios	Mostly Outbound
Geographic Scope	Regional
Protocols Supported	<input checked="" type="checkbox"/> Unicast IPv4 <input type="checkbox"/> Multicast <input checked="" type="checkbox"/> IPv6
Last Updated	2018-12-12T12:48:07Z
Notes Markdown enabled	

- Fill in the rest
 - Either according to your sheet
 - Or choose your real network
- In „Notes“ you can use Markdown
 - You can give your peers free text information
 - Like details about your peering policy
 - More about your peering policy further down below

Peering Information



Allow IXP Update here

PeeringDB Configuration

Allow IXP Update
If enabled, an ixp may manage this network's entry in their peering list

☒

Peering Policy Information

Peering Policy ⓘ

General Policy

Multiple Locations

Ratio Requirement

Contract Requirement

- Now we add information about Peering!
- Important: Allowing IXP Update helps maintaining DB accuracy
 - So please allow if you trust your IXPs
- Use the dropdowns to publish your peering policy
- In case of selective/restrictive you may use the notes field above

Contact Information

Contact Information

Role ▼	Name Visibility	Phone E-Mail
<input checked="" type="checkbox"/> Abuse	Abuse Desk Public	abuse@acme.example
Role	NOC	
Name	Network Operations	
Email	noc@acme.example	
Phone	+43 1 2341668	
Visibility	Users	

Add Contact

- **Very important!**
- To inform peers how to contact you
 - In a number of roles
- You can add as many as you need
 - „Add Contact“ to store and next
 - Public, for logged in users, or private
- You do not have to fill out all fields
- But please:
keep contact info up to date
- Do not forget to „save“ when complete

Review what you have entered

- You now have entered:
 - Information about your organization, like:
 - Address
 - Website
 - Free form text
 - Network information
 - Your AS number
 - Number of prefixes you announce,
 - Traffic info
 - Peering information, like peering policy
 - Contacts for your peers
- Please check if everything is correct

Add peering at an IXP

Public Peering Exchange Points

Exchange ▼ ASN	IPv4 IPv6	Speed RS Peer
Nothing matched your filter You may filter by Exchange, ASN or Speed		
Exchange	<input type="text" value="VIX AT Vienna Internet Exchange"/>	
Local ASN	<input type="text" value="64501"/>	
IPv4	<input type="text" value="192.203.0.222"/>	
IPv6	<input type="text" value="2001:7f8:30:0:1:1:6:fbf5"/>	
Speed (mbit/sec)	<input type="text" value="1000"/>	
RS Peer	<input checked="" type="checkbox"/>	

- Click on „Edit“ at the top right again
- Enter an IXP name in Exchange
 - And select the IXP you are connected to from the list
- Enter speed, IPv4 and IPv6
- Select “RS Peer” if you are peering with the route server
- **Click on „Add Exchange Point“!**
- And then click on „save“.

Presence at a datacenter

Private Peering Facilities

Filter

Facility ▼	Country
ASN	City
<input checked="" type="checkbox"/> ITandTEL TechCenter Linz 64501	AT Linz

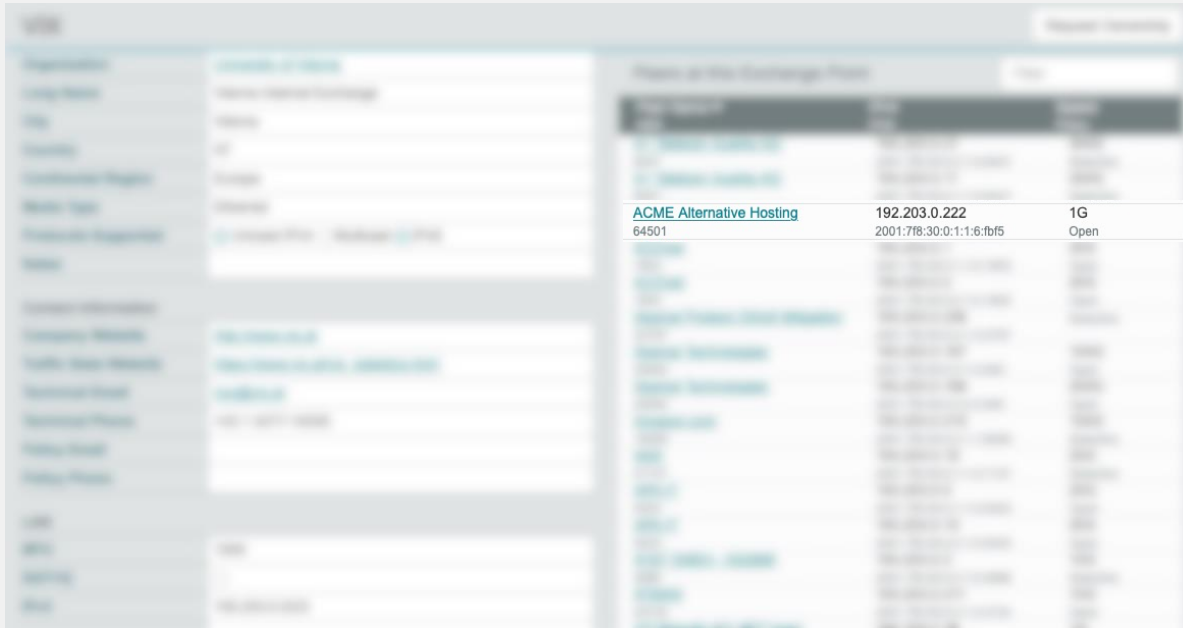
Facility

Klagenfurt

- Kelag Klagenfurt
Arnulfplatz 2
- Klagenfurt Stadtwerke
Gabelsbergerstrasse 50a

- Now again click on „edit“
- Scroll down and enter a city or datacenter name in „Facility“
- Select the facility you are in from the list and....
- ...click on „Add Facility“
- When you have added all facilities click on „Save“

Check what you have entered



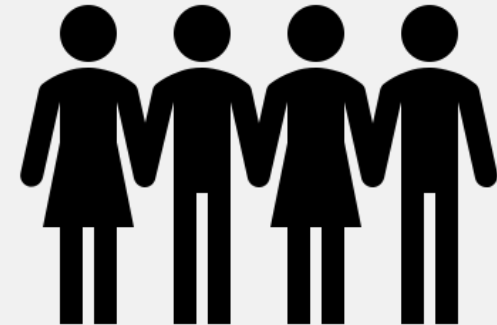
The screenshot shows the PeeringDB interface. On the left is a sidebar with navigation links. The main area displays a table of IXP entries. One entry is highlighted in blue.

IXP Name	IP Address	Capacity	Status
ACME Alternative Hosting	192.203.0.222	1G	Open

- Click on the name of the IXP you entered
- Find your entry in the list
- Do the same for the facilities you are in

Now lets see if others find you...

- Write your AS number on a sheet of paper
- All stand up and form a circle
- Give the person opposite to you your AS number
- and receive their AS number
- Use PeeringDB to learn about
 - Their organization
 - Their network



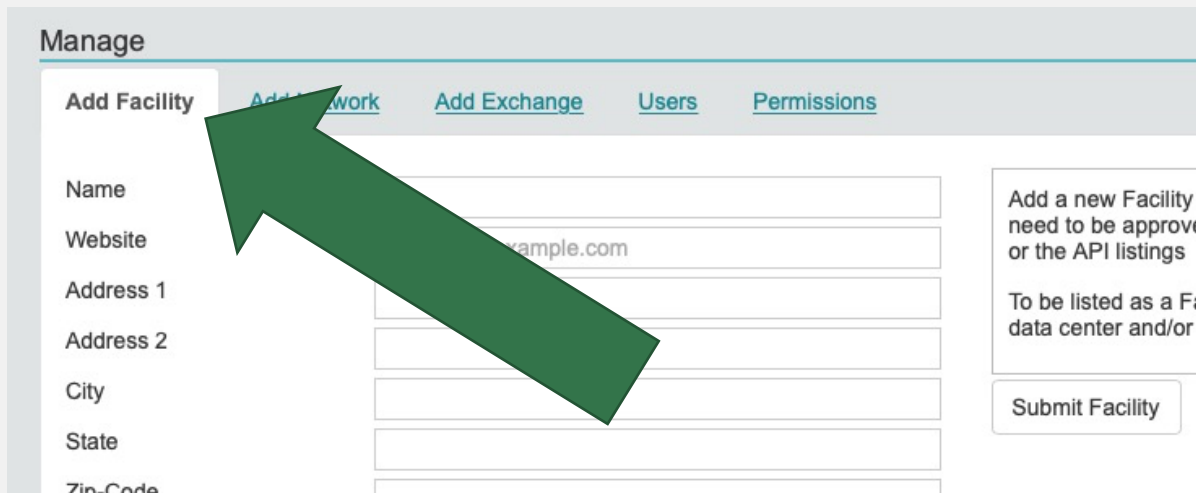
What to find out

- You should answer the following questions:
 - What is the main business of their organization / network
 - What is their peering policy
 - What is the size of the networks in terms of
 - Traffic
 - Prefixes
 - Where are they present
 - IXPs
 - Facilities
 - Would you peer with them?
 - According to your own peering policy
 - Why? / Why not?

Present what you have learned

- Present to the group what you have learned
- About the organization and network you have received
- The person who has entered the information checks
 - If everything is correct
 - If anything important is missing

Add your facility



The screenshot shows the 'Manage' section of the PeeringDB interface. At the top, there is a navigation bar with links: 'Add Facility', 'Add Network', 'Add Exchange', 'Users', and 'Permissions'. The 'Add Facility' link is highlighted with a large green arrow. Below the navigation bar, there is a form with fields for 'Name', 'Website', 'Address 1', 'Address 2', 'City', 'State', and 'Zip-Code'. To the right of the form, there is a text box that says 'Add a new Facility need to be approve or the API listings' and 'To be listed as a F: data center and/or'. Below this text box is a 'Submit Facility' button.

- If you run your own datacenter
- Why not add it to PeeringDB?
- Go to your organization page
- Scroll down to „Manage“
- Choose „Add Facility“

Add your facility

Manage

Add Facility

[Add Network](#)[Add Exchange](#)[Users](#)[Permissions](#)

Name	<input type="text" value="ACME Alternative Datacenter"/>
Website	<input type="text" value="http://www.acme.example"/>
Address 1	<input type="text" value="Old Road 301"/>
Address 2	<input type="text"/>
City	<input type="text" value="Vienna"/>
State	<input type="text"/>
Zip-Code	<input type="text" value="A-1001"/>
Country	<input type="text" value="Austria"/>
CLLI Code	<input type="text"/>
NPA-NXX	<input type="text"/>

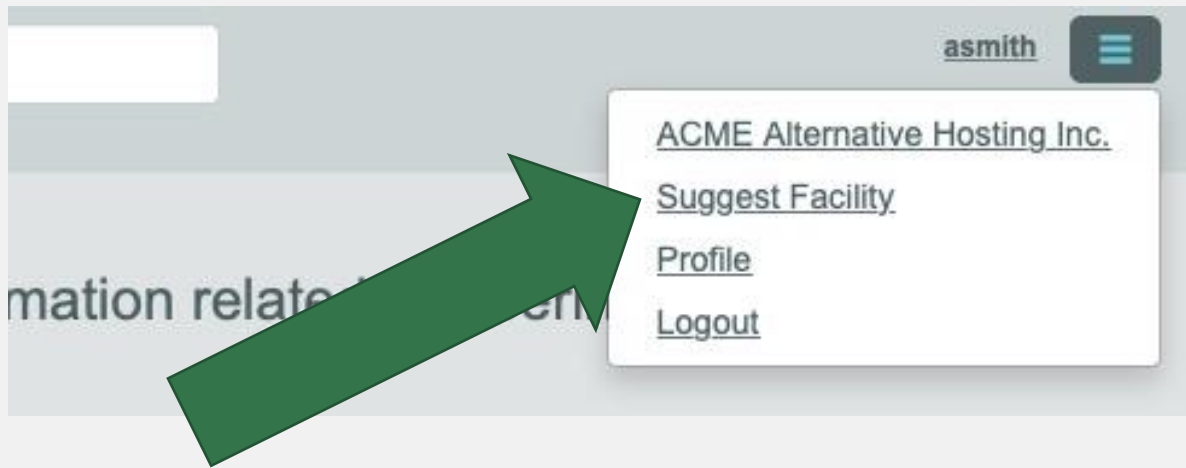
Add a new Facility to your Organization. Note that the newly created Facility will need to be approved by PeeringDB staff before it will appear in the search results or the API listings

To be listed as a Facility in PeeringDB we would expect that you offer colocation, data center and/or meet-me-room services to the public.

- Fill in applicable fields
- CLLI and NPA-NXX: for USA only
- Click „Submit Facility“
- Entry will be reviewed
- And added or declined

Suggesting a facility

- For facilities not your own
- But you are in or know about
- Choose „Suggest Facility“
- Needs to be reviewed by PeeringDB staff



Suggesting a facility

Name	<input type="text" value="ACME Alternative Datacenter"/>
Website	<input type="text" value="http://www.acme.example"/>
Address 1	<input type="text" value="Old Road 301"/>
Address 2	<input type="text"/>
City	<input type="text" value="Vienna"/>
State	<input type="text"/>
Zip-Code	<input type="text" value="A-1001"/>
Country	<input type="text" value="Austria"/>
CLLI Code	<input type="text"/>
NPA-NXX	<input type="text"/>

Suggest Facility to be added to the database. Your suggestion will be reviewed by the PeeringDB Administration Committee. It will then either be finalized and entered into the database, or declined. No further action is required on your part.

In order to be approved we would expect that the suggested Facility offers colocation, data center and/or meet-me-room services to the public.

[Suggest Facility](#)

- Fill in applicable fields
- CLLI and NPA-NXX: for USA only
- Click „Suggest Facility“
- Entry will be reviewed
- And added or declined

Adding users

- You do not have to be the only person working with PeeringDB
- Other users from your organization may also register!
- Users can be „admin“ or „member“
 - The first user automatically will be an „admin“
- Administrators are allowed to edit all fields (of your organization)
- Members rights can be as restrictive or as open as you need them to be
- Let's try it out
- Request affiliation with the organization you just presented

Affiliate with an organization

The screenshot shows the PeeringDB user interface. At the top, there is a search bar with the placeholder text 'Search for a network, IX, or facility.' and a 'Search' button. Below this is a 'Select language' dropdown menu currently set to 'English', with a 'Set language preference' button. A confirmation message states 'You have confirmed your email address!'. The main section is titled 'Affiliate with organization'. It contains three instructions: 'To affiliate with an existing organization, please enter the ASN or organization name below.', 'To register a new network organization, please enter the ASN and organization name below.', and 'To register a new facility or exchange organization, please enter the organization name below (ASN is optional)'. Below these instructions are two input fields: 'ASN' and 'Organization'. At the bottom right of the form is an 'Affiliate' button. Four green star-shaped callouts with numbers 1 through 4 are overlaid on the image: 1 points to the top right navigation area, 2 points to the 'ASN' input field, 3 points to the 'Organization' input field, and 4 points to the 'Affiliate' button.

- Go to your profile page (1)
- Request affiliation
 - Either use the AS number (2)
 - Or name and select (3)
 - Click on „Affiliate“ (4)
- Admin of organization gets an email
- And either approves or denies

Approve affiliation requests

- Go to your organization page
- Scroll down to the „manage“ section
- Click on the „Users“ tab
- Either approve or deny new users

Manage

[Add Facility](#) [Add Network](#) [Add Exchange](#) **Users** [Permissions](#)

Users requesting affiliation

Name	Email	Date	
Wolfgang Tremmel wtremmel	Confirmed wolfgang.tremmel@de-cix.net Yes	2018, Dec. 14	Approve Deny

Users in Organization

Name	Email	Group	
Adam Smith asmith	asmith@garf.de	admin	Remove

Save

User administration

Manage

[Add Facility](#) [Add Network](#) [Add Exchange](#) **Users** [Permissions](#)

Users requesting affiliation

Name User	Email Confirmed	Date
Currently no users requesting affiliation with ACME Alternative Hosting Inc.		

Users in Organization

Name User	Email	Group	
Adam Smith asmith	asmith@garf.de	admin	Remove
Wolfgang Tremmel wtremmel	wolfgang.tremmel@de-cix.net	member	Remove

Save

- Users can be admins or members
- Use the dropdown to change
- For members – you can add permissions
- Use the permissions tab to grant create, update and/or delete to selected of any entities
- Do not forget to „save“ your changes

Manage

[Add Facility](#) [Add Network](#) [Add Exchange](#) **Users** **Permissions**

Here you can grant permissions to regular members of your organization. Administrative users are not listed here as they have access to everything by default. Additionally, entities that are pending review cannot be permissioned out to users, and will not appear in the entity list.

Wolfgang Tremmel <wolfgang.tremmel@de-cix.net> wtremmel	Create	Update	Delete	
<div>Any Exchange</div> <div>Any Facility</div> <div>Any Network</div> <div>Facility - ACME Alternative Datacenter</div> <div>Network - ACME Alternative Hosting</div> <div>Organization and all Entities it owns</div>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<div>Add</div>

Save

Removing Users

- Be sure you are logged in as an admin
- Go to your organization page
- Scroll down to the „manage“ section
- Click on the „Users“ tab
- Click on „Remove“ on the right side
- And do not forget to „save“
- The user is only deleted from your organization

Manage

[Add Facility](#) [Add Network](#) [Add Exchange](#) **Users** [Permissions](#)

Users requesting affiliation


Name	Email	Date
User	Confirmed	

Currently no users requesting affiliation with ACME Alternative Hosting Inc.


Users in Organization


Name	Email	Group	
User			
Adam Smith asmith	asmith@garf.de	admin	Remove
Wolfgang Tremmel wtremmel	wolfgang.tremmel@de-cix.net	member	Remove


Save



More removing...

- If you leave an internet exchange:
 - please remove your peering IP addresses
- Go to your network page
- Click on „Edit“ (top right)
- Click on the  beside the entry of the exchange
- Confirm and do not forget to „Save“



Public Internet Exchange Points		Filter
Exchange AS	IPv4 IPv6	Speed RS Peer
 VIX 64501	192.203.0.222 2001:7f8:30:0:1:1:6:fbf5	1000 <input checked="" type="checkbox"/>
Exchange	<input type="text"/>	
Local ASN	64501	
IPv4	<input type="text"/>	
IPv6	<input type="text"/>	
Speed (mbit/sec)	0	
RS Peer	<input type="checkbox"/>	
Add Exchange Point		

More removing...

- Facilities, Contacts, all the same
- Click on „Edit“
- Click on the remove symbol at the entry
- Click on “Save”

Contact Information

Role ▼	Name Visibility
<input checked="" type="checkbox"/> Abuse	Abuse Desk
	Public

Role Abuse

Private Peering Facilities

Facility ▼
ASN
<input checked="" type="checkbox"/> ITandTEL TechCenter Linz 64501
<input checked="" type="checkbox"/> Klagenfurt Stadtwerke 64501

Facility

Removing – more information

- Objects are only *marked deleted*
- *You cannot simply re-add them*
- Please contact support@peeringdb.com if you need help



Facilities			Filter
Name ▼	Country	City	
<input checked="" type="checkbox"/> ACME Alternative Datacenter	Austria	Vienna	

Networks		Filter
Name ▼	ASN	
<input checked="" type="checkbox"/> ACME Alternative Hosting	64501	