

# Peering Exchanges

## Working with Peering Exchanges

The screenshot shows the 'Peering' section of a dashboard. The 'Exchanges' tab is selected, displaying a table of exchange information. The table has columns for Name, IPv4, IPv6, City, Current Peers, Unapproved Peers, and Sessions. The data row shows Equinix Palo Alto with 7 current peers, 94 unapproved peers, and 10 sessions.

Name	IPv4	IPv6	City	Current Peers	Unapproved Peers	Sessions
Equinix Palo Alto	198.32.176.0/24	2001:504:d::/64	Palo Alto	7	94	10

From this tab, you can access exchange settings to set ASN / Peering DB info, view the current exchange list and peer status, and view details for each exchange.

- Working with Peering Exchanges
- IXs Overview
  - Exchange Settings
    - ASNs
    - Request Email Address
    - PeeringDB Account
  - Exchange Details
    - Exchange Details Tab:
    - Exchange Sessions Tab:
    - Communications Tab:
      - Menu Actions
    - Peering Maintenance Email
  - Additional Information

## IXs Overview

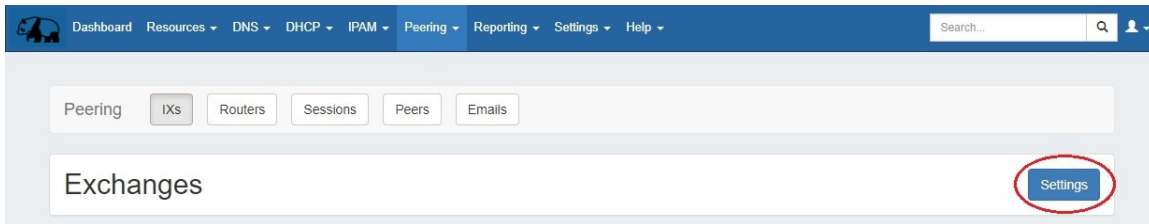
The Exchanges subtab features the list of exchanges currently set in ProVision, with IP type, city, peers, and active session counts.

This screenshot is identical to the one above, showing the 'IXs Overview' section of the dashboard. It displays the 'Exchanges' tab with a table of exchange information, including details for Equinix Palo Alto.

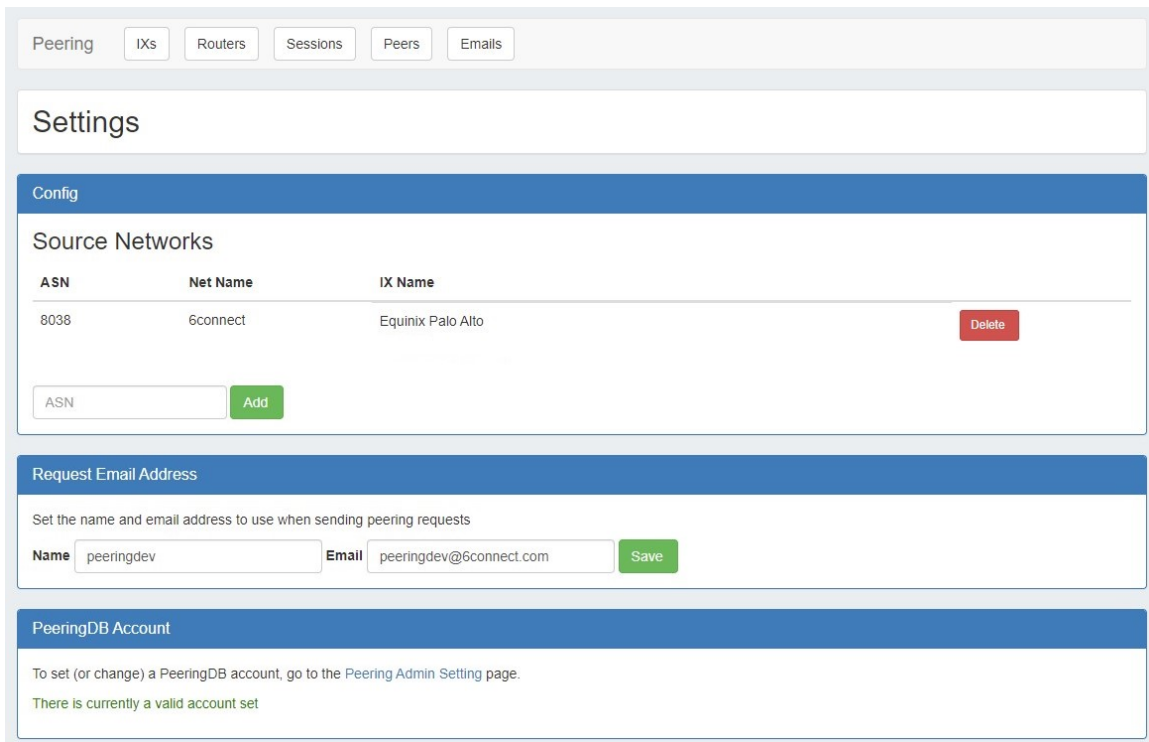
Name	IPv4	IPv6	City	Current Peers	Unapproved Peers	Sessions
Equinix Palo Alto	198.32.176.0/24	2001:504:d::/64	Palo Alto	7	94	10

## Exchange Settings

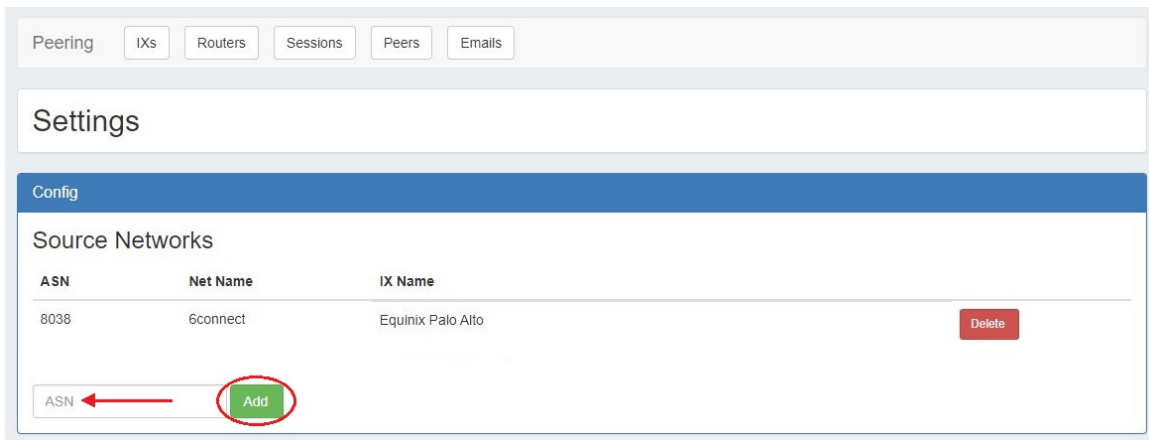
Clicking the "Settings" Button opens the Exchange Settings page.



Here, you can add or remove ASNs, add or edit PeeringDB account settings:



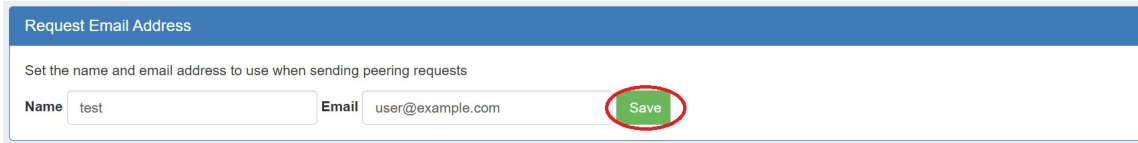
## ASNs



- Add an ASN by typing a valid ASN into the Config - ASN box, and then click "Add".
- Delete an ASN by clicking the red "Delete" icon for the row under Source Networks.

## Request Email Address

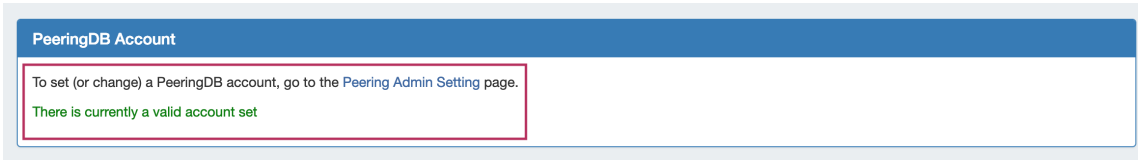
To add a name and email address for Peering Request emails enter the information and click save.



The 'Request Email Address' form has a blue header. Below it, a message states: 'Set the name and email address to use when sending peering requests'. There are two input fields: 'Name' with the value 'test' and 'Email' with the value 'user@example.com'. A green 'Save' button is circled in red.

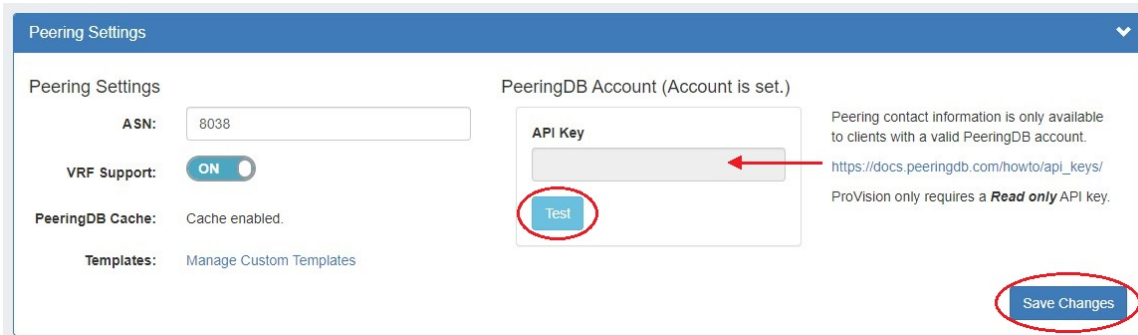
## PeeringDB Account

If a valid PeeringDB account is already set, a message will display confirming the valid account.



The 'PeeringDB Account' section has a blue header. Below it, a message box with a pink border contains the text: 'To set (or change) a PeeringDB account, go to the [Peering Admin Setting](#) page. There is currently a valid account set'.

If no account is set, or the current account is invalid, follow the link to the **Peering Admin Settings** page to test and add a PeeringDB account.



The 'Peering Settings' form has a blue header with a dropdown arrow. It is divided into two main sections. The left section, 'Peering Settings', includes: 'ASN:' with a text box containing '8038'; 'VRF Support:' with a toggle switch set to 'ON'; 'PeeringDB Cache:' with the text 'Cache enabled.'; and 'Templates:' with a link 'Manage Custom Templates'. The right section, 'PeeringDB Account (Account is set.)', includes an 'API Key' text box, a 'Test' button circled in red, and a 'Save Changes' button circled in red. A red arrow points from the 'Test' button to the 'API Key' text box. To the right of the 'API Key' text box, there is explanatory text: 'Peering contact information is only available to clients with a valid PeeringDB account. [https://docs.peeringdb.com/howto/api\\_keys/](https://docs.peeringdb.com/howto/api_keys/) ProVision only requires a **Read only** API key.'

Enter the PeeringDB credentials and click "Test". Remember to save your changes.

## Exchange Details

Clicking on an exchange in the exchange list will bring up an exchange details page, where Exchange Details, Session Details, and Exchange Communications may be viewed and managed.

Exchanges

Settings

Filter...

Equinix Ashburn  
Ashburn

Equinix Chicago  
Chicago

Equinix Dallas  
Dallas

Equinix Los Angeles  
Los Angeles

Equinix San Jose  
San Jose

Equinix Palo Alto  
Palo Alto

Exchange Details

Equinix Palo Alto

Details

Sessions

Communications

Organization	2
Long Name	Equinix Internet Exchange Palo Alto
City	Palo Alto
Country	US
Region	North America
Media Type	Ethernet
Protocols	Unicast IPv4 Multicast IPv6
Notes	

Contact Information

Company Website

https://ix.equinix.com

Traffic Stats Website

Technical Email

servicesupport@equinix.com

Peers at this Exchange Point

AARNet  
ASN 7575

Selective

Academia Sinica Network(ASNet)  
ASN 9264

Open

Advanced Wireless Network Co. Ltd. (IIG)  
ASN 45430

Selective

Akamai Prolexic DDoS Mitigation  
ASN 32787

Selective

Akamai Technologies  
ASN 20940

Open

The "Settings" button takes you back to the **Exchange Settings** page.

The left side of the page displays a filterable list of all exchanges currently added to ProVision - to narrow the list down, simply type the first few letters of the exchange name into the "Filter" box, and click on your desired exchange to view its details.

Exchange Details Tab:

The exchange details tab provides general information about the exchange, obtained from PeeringDB.

It includes organization information, contact information, LAN, and a list of Peers at the exchange point.

Exchange Details

## Equinix Palo Alto

Details

Sessions

Communications

Organization	2
Long Name	Equinix Internet Exchange Palo Alto
City	Palo Alto
Country	US
Region	North America
Media Type	Ethernet
Protocols	Unicast IPv4 Multicast IPv6
Notes	

Contact Information

Company Website	<a href="https://ix.equinix.com">https://ix.equinix.com</a>
Traffic Stats Website	
Technical Email	<a href="mailto:servicesupport@equinix.com">servicesupport@equinix.com</a>
Technical Phone	+1-866-811-8720
Policy Email	<a href="mailto:servicesupport@equinix.com">servicesupport@equinix.com</a>
Policy Phone	

LAN

IPv4	198.32.176.0/24
IPv4	198.32.175.0/24
IPv4	198.32.177.0/24
IPv6	2001:504:d::/64

Peers at this Exchange Point

AARNet

ASN 7575

Selective

Academia Sinica Network(ASNet)

ASN 9264

Open

Advanced Wireless Network Co. Ltd. (IIG)

ASN 45430

Selective

Akamai Prolexic DDoS Mitigation

ASN 32787

Selective

Akamai Technologies

ASN 20940

Open

alibaba

ASN 45102

Open

Amazon.com

ASN 16509

Selective

Apple Inc.

ASN 714

Selective

BBOI (365 Data Centers)

ASN 19151

Selective

Bharti Airtel

ASN 9498

Selective

Biznet Networks

ASN 17451

Open

Clicking on the name of any peer in the under the "Peers at this Exchange Point" list will open the **Peer Details** page.

## Exchange Sessions Tab:

The sessions tab lists ProVision sessions associated with the exchange, detailing the ASN, IP, Router, Peer Group, and session state.

Exchange Details

## Equinix Palo Alto

[Details](#)
[Sessions](#)
[Communications](#)

Sessions

Add Session

Peer Name	Peer ASN	Peer IP	Router	Peer Group	State	
Amazon.com	16509	198.32.176.36	QA Cisco Lab 1	dev-v4-peer-group	not configured	
Apple Inc.	714	2001:504:d::714:1	QA Cisco Lab 2	dev-v6-peer-group	not configured	

From here, you may:

- Add sessions to this exchange by clicking "Add Session".
- Click on the Peer Name to go to the [Peer Details](#) page for that Peer.
- Click on the Router Name to view [Router Details](#).
- Manage the session by clicking on the "GoTo" Arrow button at the right side of the list to open the [Session Details](#).

## Communications Tab:

The Communications tab is where you can manage communications actions and mark status of peers.

Exchange Details

## Equinix Palo Alto

[Details](#)
[Sessions](#)
[Communications](#)

Communications

apple

Is Peer	Peer Name	Request	Notes	
	Apple Inc.	sent	(2019-03-04) - Session added: Apple Inc. (AS8038/) - (AS714/2001:504:d::714:1) (2019-02-11) - Request sent to <[redacted]> (2019-02-11) - Peer status reset (2019-02-11) - (2019-02-11) - Session deleted: Apple Inc. (AS8038/) - (AS714/2001:504:d::714:1) and removed router (2019-02-11) - (2019-02-11) - Session deleted: Apple Inc. (AS8038/) - (AS714/198.32.176.237) and removed router	<div>Action</div> <div> Mark Approved  Mark Existing Peer  Mark Not Qualified  Mark Rejected  Reset Status  Send Request </div>

Filter the Communications list by typing the peer name into the filter box at the top left.

Available communication and status options are available in the Action Menu - available actions are dependent on current status, so not all actions are available at all times.

## Menu Actions

**Mark Approved:** Marks the peer as approved. Available after receiving a request response.

**Mark Existing Peer:** Marks a peer as an existing one and removes the email request options.

**Mark Not Qualified Peer:** Marks a peer as "not qualified" and removes the email request options.

**Mark Rejected:** Marks the peer as rejected. Available after receiving a request response.

**Reset Status:** Resets the status of the peer, opening up the options to mark peer as existing, not qualified, or to send email requests.

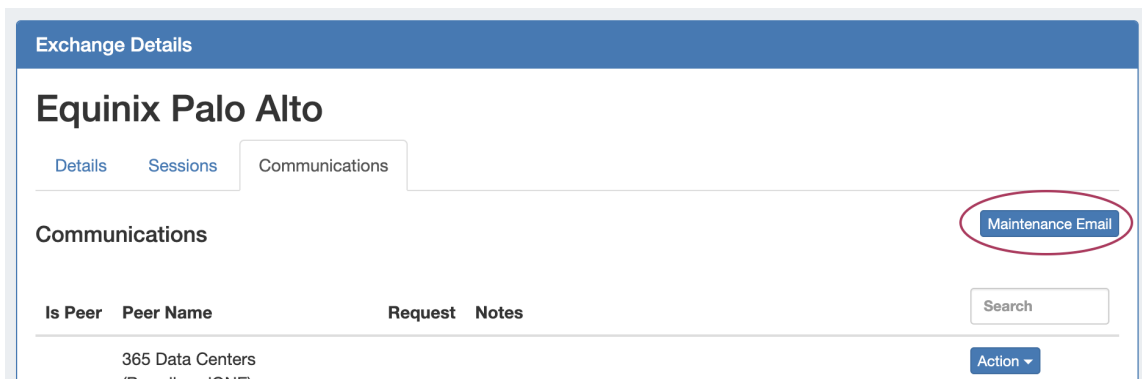
**Resend Request:** Resends the peering request.

**Send Request:** Sends an initial peering request email to the peering coordinator. The email template pre-populates data based on peeringdb data (To address, Subject line and Peering exchange information). You have the chance to edit the email prior to sending.

Actions taken from this menu will be logged and display in the "Notes" field of the Communications list. If a Peering Email account is set up in ProVision and used to send Peering Requests from this menu, the emails will be accessible in ProVision in the Peering Emails Tab Sent Folder. See [Peering Emails](#) for additional information.

## Peering Maintenance Email

To send a maintenance email out to all Peers, Go to the Peering Tab Selected Exchange Communications, and then click the "Maintenance Email" button.



Add a subject line and message body, and select whether to send the email to all "Marked as Peer", those with sessions, or both.

The screenshot shows a 'Send Email' form. It has fields for 'From:' (pre-filled with 'Operations <ops+pdb@6connect.com>'), 'Subject:', and 'Body:'. Below the 'Body:' field, there are radio buttons for 'To:'. The 'Marked as Peer' option is selected. The other two options are 'Has session' and 'Both'. At the bottom right, there are 'Send' and 'Cancel' buttons.

When done, click "Send".

## Additional Information

- Peering
- Peering Routers
- Peering Sessions
- Managing Peers
- Peering Emails