

Peering Exchanges

Working with Peering Exchanges

The screenshot shows the 'Peering' section of a dashboard with tabs for IXs, Routers, Sessions, Peers, and Emails. The 'Exchanges' tab is active, displaying a table of exchange details. 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 Equinix Internet Exchange 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

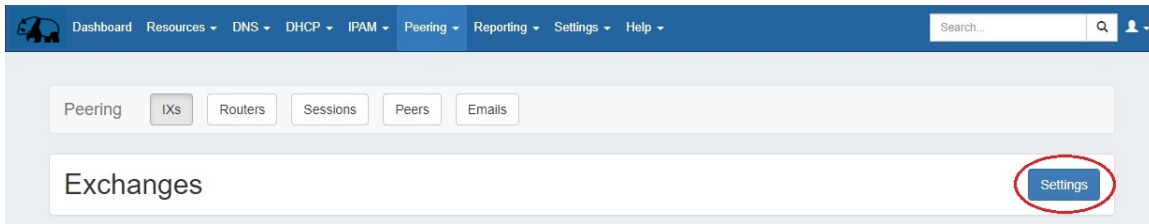
The Exchanges subtab features the list of exchanges currently set in ProVision, with IP type, city, peers, and active session counts.

This screenshot is identical to the one above, showing the 'IXs' tab selected in the dashboard. It displays the same table of exchange details for Equinix Palo Alto.

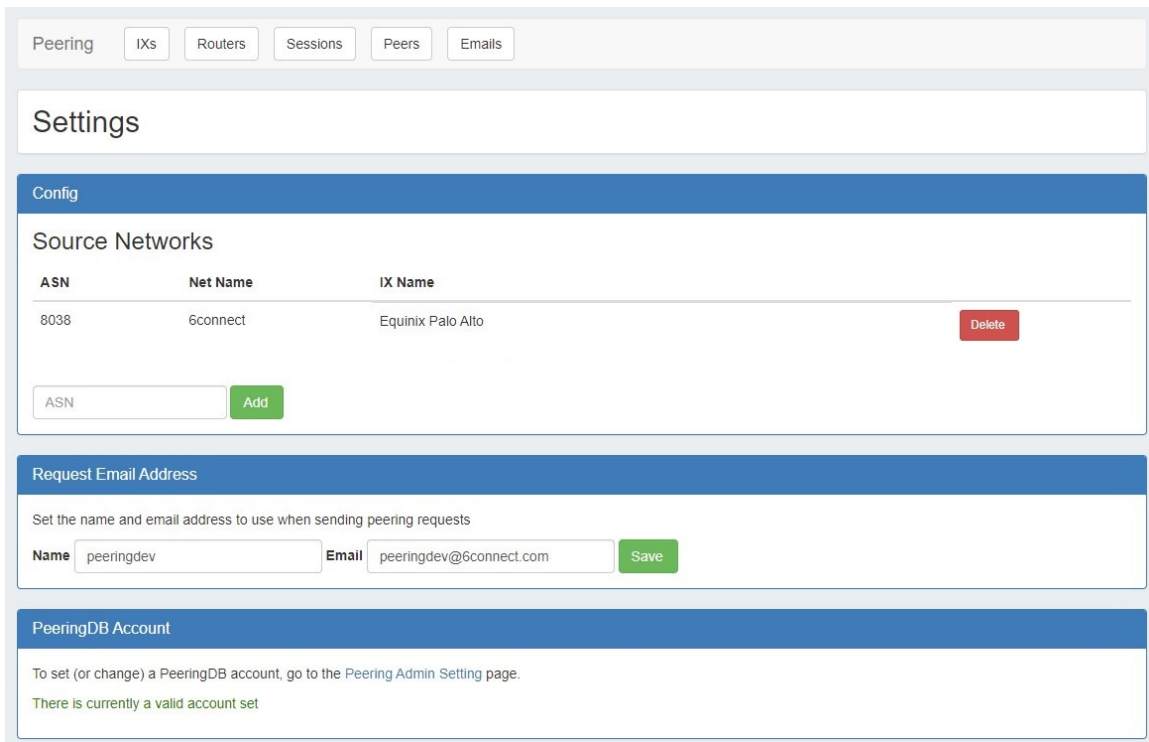
Name	IPv4 IPv6	City	Current Peers	Unapproved Peers	Sessions
Equinix Palo Alto Equinix Internet Exchange Palo Alto	198.32.176.0/24 2001:504:d::/64	Palo Alto	7	94	10

Exchange Settings

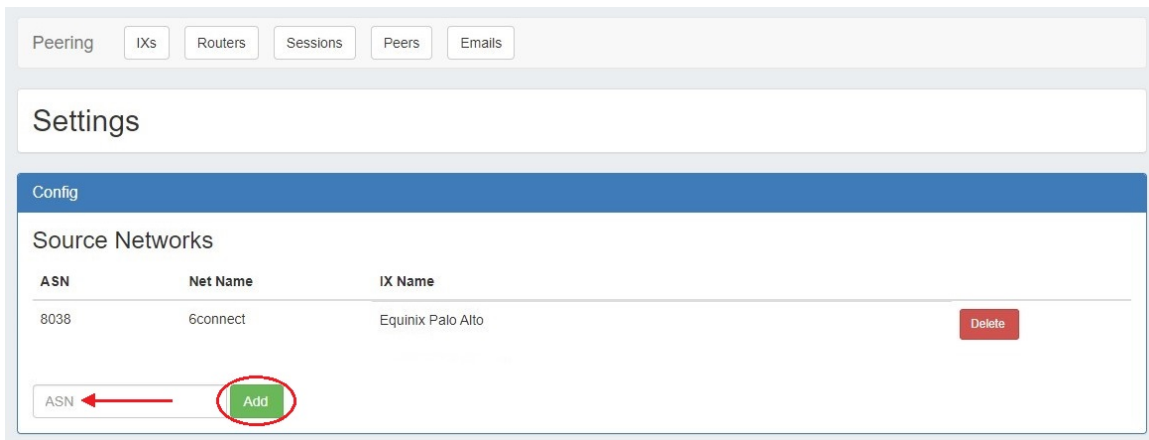
Clicking the "Settings" Button opens the Exchange Settings page.



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.

Request Email Address

Set the name and email address to use when sending peering requests

Name

test

Email

user@example.com

Save

PeeringDB Account

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

PeeringDB Account

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.

Peering Settings

Peering Settings

ASN:

8038

VRF Support:

ON

PeeringDB Cache:

Cache enabled.

Templates:

Manage Custom Templates

PeeringDB Account (Account is set.)

API Key

Test

Peering contact information is only available to clients with a valid PeeringDB account.

https://docs.peeringdb.com/howto/api_keys/

ProVision only requires a **Read only** API key.

Save Changes

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

DetailsSessionsCommunications

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	https://ix.equinix.com
Traffic Stats Website	
Technical Email	servicesupport@equinix.com
Technical Phone	+1-866-811-8720
Policy Email	servicesupport@equinix.com
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	Action
	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	Action Mark Approved Mark Existing Peer Mark Not Qualified Mark Rejected Reset Status Send Request

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.

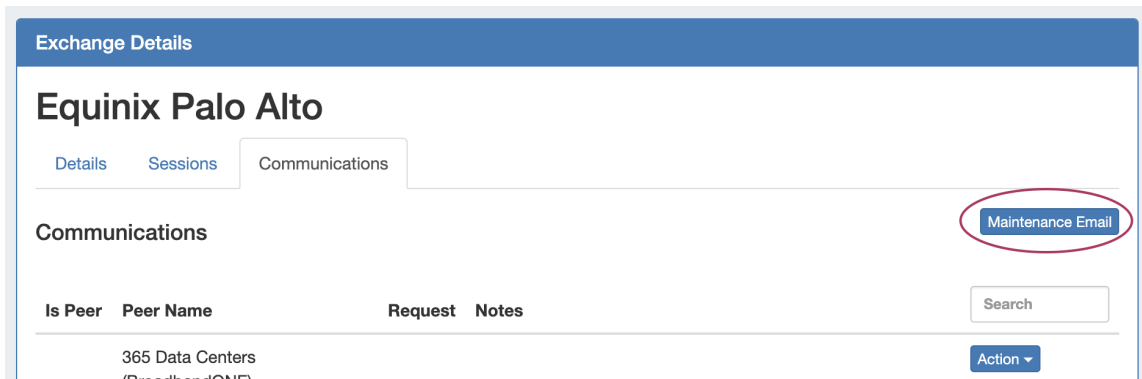
Resend Request: Resends the peering request.

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 the 'Send Email' form. It has the following fields and options:

- From:** A text field containing 'Operations <ops+pdb@6connect.com>'.
- Subject:** An empty text field.
- Body:** A large empty text area for the email body.
- To:** Radio button options:
 - ☒ Marked as Peer
 - ☐ Has session
 - ☐ Both
- Buttons:** 'Send' and 'Cancel' buttons at the bottom right.

When done, click "Send".

Additional Information

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