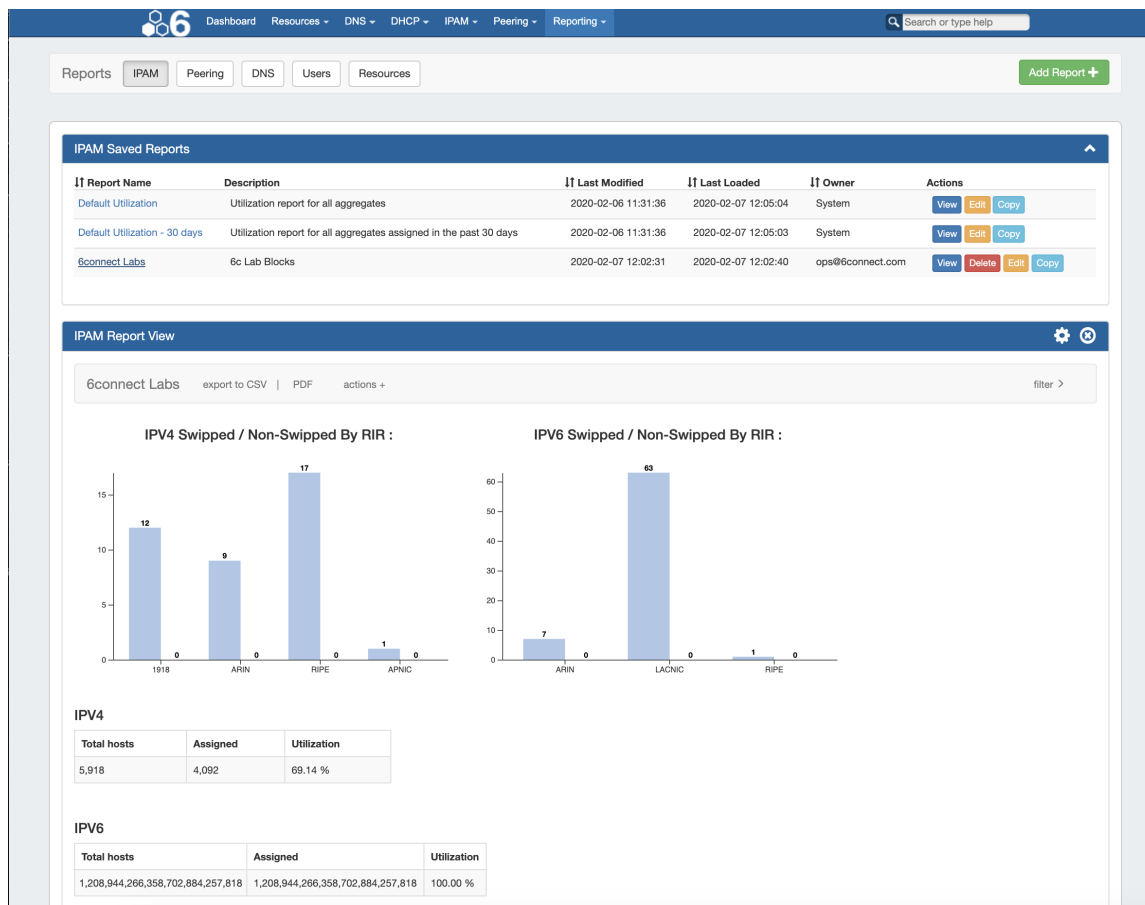# Reporting

Reporting

The ProVision **Reporting** tab provides reports for IPAM, Peering, DNS, Users, and Resources for admin users.

> ⓘ Non-admin users accessing the **Reporting** tab will be directed to Reporting v1, where they can view and generate IPAM, User Activity, and Customer List reports applicable to that user's permission level.
>
> Both this page (Reporting) and Working with Reports covers the admin-level Reporting v2 system. Non-admin users should refer to the Reporting v1 documentation.

To view reports for ProVision modules (IPAM, Peering, DNS, Users, and Resources), click on the applicable sub-tab button at the top of the page, or select it from the **Reporting** Tab dropdown menu.

Reporting Overview

Reporting v2, accessible to admin users from the **IPAM** tab, contains reports for five ProVision modules - IPAM, Peering, DNS, Users, and Resources. Default reports are available for each module sub-tab, and users may create their own customized report from the existing templates. Once created, reports may be exported on-demand, or have exports scheduled to be sent to a user at regular intervals.

Reporting Features

- Ten default system reports for IPAM, Peering, DNS, Users, and Resources
- Customizable user-created reports
- IPAM Utilization and Peering Status charts
- Export reports to .csv and/or pdf
- Schedule reports to be emailed at selected intervals
- Safely view existing reports and apply filters without overwriting saved report settings, or chose to permanently save changes.
- Copy existing reports to use as editable templates
- IPAM reports include integration with IPAM metacolumn data and IPAM Column settings

Report Permissions, Ownership, and Coordination

In Reporting v2, any admin user may view, manage, and edit any individual report. Default reports will display with "System" as the owner, and may be viewed, edited, and copied, but are not deletable. User-created reports will display with the creator's username in the owner field, and are able viewed, deleted, edited and copied. Report "ownership", as a concept, only extends to displaying the creator of the report - there are no report actions that are "locked" to any specific user or access restrictions in place per report, outside of the normal viewing permissions.

Although it is possible to edit and save both default reports and reports created by other users, it is recommended to either coordinate the changes with the report's owner, or create a new copy of the existing report to use for modifications.

(i) **Report Editing Etiquette**

You may view existing reports at any time, including freely adjusting and applying filters on a temporary basis (by selecting filters clicking Apply) as well as immediately export those results, without overwriting the existing report filter settings.

However, *saving* new filter settings to an existing report (by applying the new filters -> Gear Icon Save) **permanently** overwrites the report's default filter settings.

Before saving changes to an existing report, it is recommended to perform some basic due diligence:
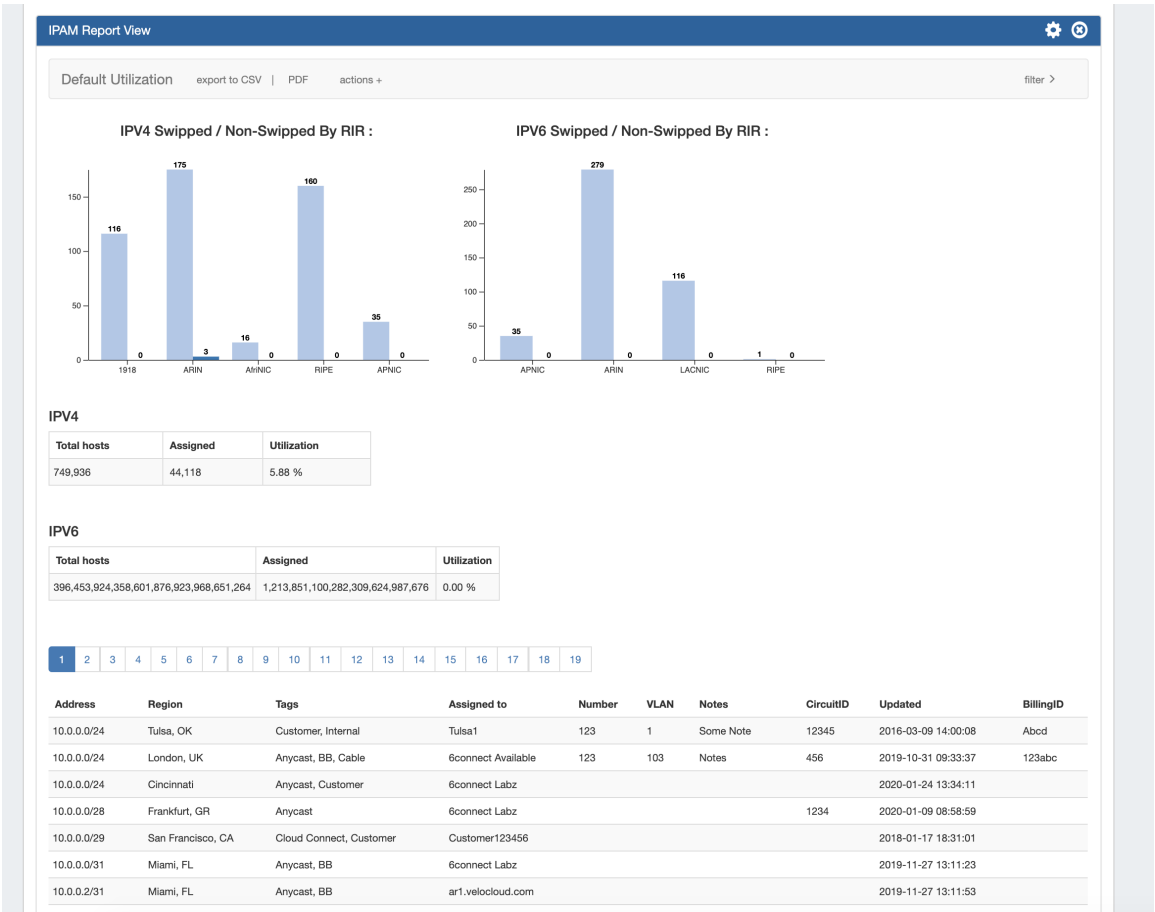
- If you are not the report's owner, confirm the report edit with the report owner prior to saving
- If there is a user listed as receiving scheduled exports of that report under Schedule Report Settings, verify that the report change will not negatively impact the planned use of the scheduled report(s).

Best Practices:

- Use the report Copy function whenever you are unsure of ownership or scheduled report repercussions
- If you only need a one-time export, temporarily adjust the filters on a default or existing report, and use the "Export to .csv/pdf" button
- Use the report's description field to communicate details, status, and restrictions to other users (such as "Do not edit - Report used for monthly status comparisons by Bob")
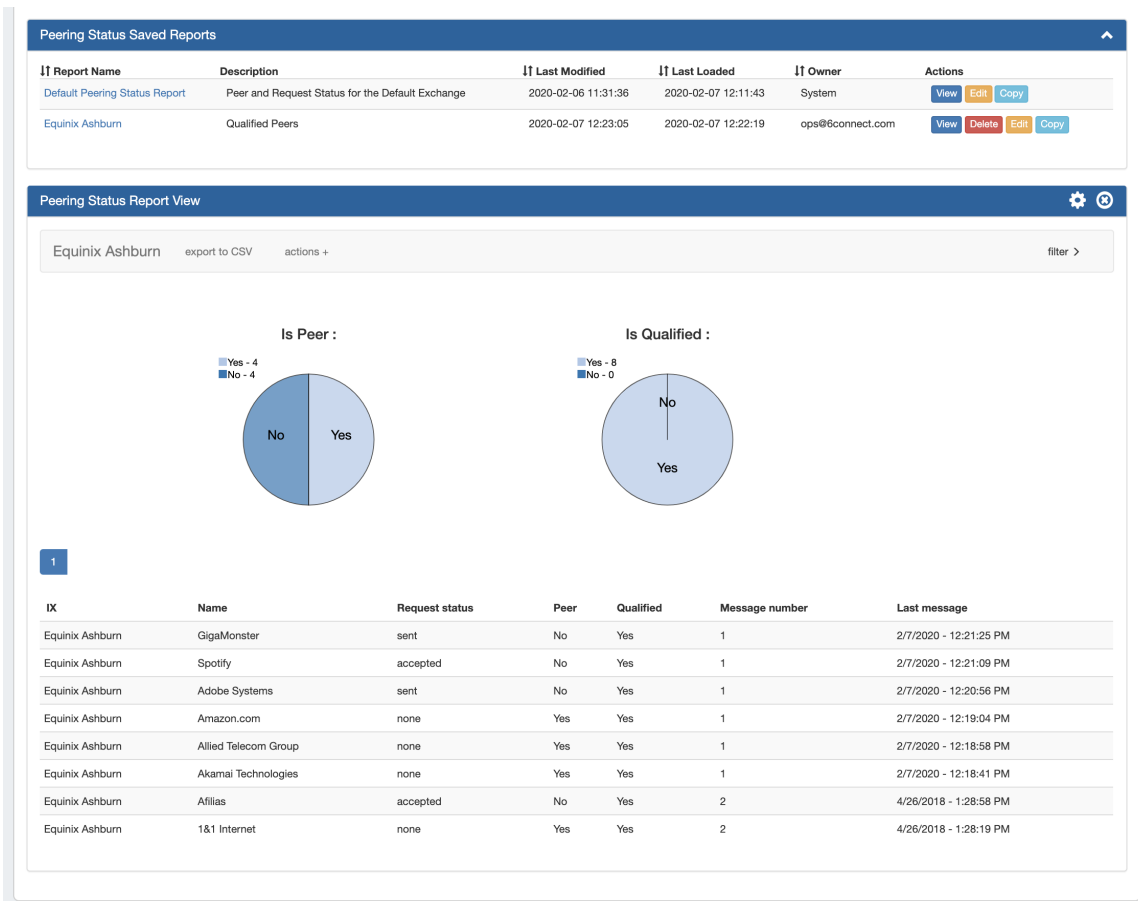

Available Reports

IPAM Reports

IPAM Report View ⚙ ⊗

Default Utilization   export to CSV | PDF   actions +   filter ›

IPV4 Swipped / Non-Swipped By RIR :	IPV6 Swipped / Non-Swipped By RIR :

IPV4

Total hosts	Assigned	Utilization
749,936	44,118	5.88 %

IPV6

Total hosts	Assigned	Utilization
396,453,924,358,601,876,923,968,651,264	1,213,851,100,282,309,624,987,676	0.00 %

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19

Address	Region	Tags	Assigned to	Number	VLAN	Notes	CircuitID	Updated	BillingID
10.0.0.0/24	Tulsa, OK	Customer, Internal	Tulsa1	123	1	Some Note	12345	2016-03-09 14:00:08	Abcd
10.0.0.0/24	London, UK	Anycast, BB, Cable	6connect Available	123	103	Notes	456	2019-10-31 09:33:37	123abc
10.0.0.0/24	Cincinnati	Anycast, Customer	6connect Labz					2020-01-24 13:34:11	
10.0.0.0/28	Frankfurt, GR	Anycast	6connect Labz				1234	2020-01-09 08:58:59	
10.0.0.0/29	San Francisco, CA	Cloud Connect, Customer	Customer123456					2018-01-17 18:31:01	
10.0.0.0/31	Miami, FL	Anycast, BB	6connect Labz					2019-11-27 13:11:23	
10.0.0.2/31	Miami, FL	Anycast, BB	ar1.velocloud.com					2019-11-27 13:11:53	

IPAM Utilization reports display IPv4/IPv4 utilization charts organized by RIR and SWIP status, and provide a listing of ProVision blocks meeting the applied filter criteria. The report view includes the block data for all applied IPAM Columns, in the order set under IPAM Admin IPAM Columns . IPAM Reports may be exported to .csv (limit: 100,000 records; no chart provided) or PDF (limit: 1000 records; chart included). Default reports include:

- Default Utilization: IPAM utilization report for all aggregates
- Default Utilization - 30 days: IPAM utilization report for all aggregates assigned in the past 30 days

Peering Reports

Peering Status Saved Reports

⇅ Report Name	Description	⇅ Last Modified	⇅ Last Loaded	⇅ Owner	Actions
Default Peering Status Report	Peer and Request Status for the Default Exchange	2020-02-06 11:31:36	2020-02-07 12:11:43	System	View Edit Copy
Equinix Ashburn	Qualified Peers	2020-02-07 12:23:05	2020-02-07 12:22:19	ops@6connect.com	View Delete Edit Copy

Peering Status Report View

Equinix Ashburn   export to CSV   actions +   filter >

Is Peer :

■ Yes - 4
■ No - 4

No   Yes

Is Qualified :

■ Yes - 8
■ No - 0

No

Yes

1

IX	Name	Request status	Peer	Qualified	Message number	Last message
Equinix Ashburn	GigaMonster	sent	No	Yes	1	2/7/2020 - 12:21:25 PM
Equinix Ashburn	Spotify	accepted	No	Yes	1	2/7/2020 - 12:21:09 PM
Equinix Ashburn	Adobe Systems	sent	No	Yes	1	2/7/2020 - 12:20:56 PM
Equinix Ashburn	Amazon.com	none	Yes	Yes	1	2/7/2020 - 12:19:04 PM
Equinix Ashburn	Allied Telecom Group	none	Yes	Yes	1	2/7/2020 - 12:18:58 PM
Equinix Ashburn	Akamai Technologies	none	Yes	Yes	1	2/7/2020 - 12:18:41 PM
Equinix Ashburn	Afilias	accepted	No	Yes	2	4/26/2018 - 1:28:58 PM
Equinix Ashburn	1&1 Internet	none	Yes	Yes	2	4/26/2018 - 1:28:19 PM

Two new peering report types are available - Peering Health and Peering Status. Peering Health reports display the sessions existing in ProVision, with the associated fields of Router Name, Peer Name, IP, Session Type, Session State, Peer Group, and session Created Date. Peering Status reports are set per-exchange, and display pie charts for Peer Status/Qualification Status, as well as a data table of the Peer Name, Request Status, Peer Status, Qualification Status, Message Count, and Last Message Time.

All Peering Reports may be exported to .csv (limit: 100,000 records; no chart provided). Default reports include:

- Default Peering Health Report: Displays the peering session state for all currently existing sessions in ProVision
- Default Peering Status: Displays Peer, Request, and Qualified status for the default (first available) exchange in ProVision

Peering Health Saved Reports

⇅ Report Name	Description	⇅ Last Modified	⇅ Last Loaded	⇅ Owner	Actions
Default Peering Health Report	Peering Session State	2020-02-06 11:31:36	2020-02-07 12:10:26	System	View Edit Copy
Peer - Apple	Apple Peering Health Report	2020-02-07 12:11:26	2020-02-07 12:11:22	ops@6connect.com	View Delete Edit Copy

Peering Status Saved Reports

⇅ Report Name	Description	⇅ Last Modified	⇅ Last Loaded	⇅ Owner	Actions
Default Peering Status Report	Peer and Request Status for the Default Exchange	2020-02-06 11:31:36	2020-02-07 12:09:54	System	View Edit Copy

Peering Report View

Peer - Apple export to CSV actions + filter >

`1`

Name	Peer name	IP	Type	Public name	State	Peer group	Created
lab1-juniper	Apple Inc	198.32.176.237	Peer	Equinix Palo Alto	Idle	equinix-palo-alto-v4	11/7/2014 - 8:28:59 PM
lab1-juniper	Apple Inc	2001:504:d::714:1	Peer	Equinix Palo Alto	Idle	equinix-palo-alto-v6	11/7/2014 - 8:29:27 PM

DNS Reports

DNS Zones Saved Reports

⇅ Report Name	Description	⇅ Last Modified	⇅ Last Loaded	⇅ Owner	Actions
Default DNS Zones	All DNS zones	2020-02-06 11:31:36	2020-02-06 11:31:36	System	View Edit Copy
Default DNS Zones - 30 Days	All DNS zones updated within the past 30 days	2020-02-06 11:31:36	2020-02-06 11:31:36	System	View Edit Copy
123 Labs	123 Zones	2020-02-07 12:25:39	2020-02-07 12:24:57	ops@6connect.com	View Delete Edit Copy

DNS Zone Report View

123 Labs export to CSV actions + filter >

`1`

Zone ID	Zone name	Last modified	Type	Records
3821	test123456.com.	7/16/2017 - 9:56:43 PM	forward	0
3871	test123456.com.	7/16/2017 - 9:56:44 PM	forward	0
3910	testing123.com.	7/16/2017 - 9:56:45 PM	forward	0
3985	somezone1234.com.	7/16/2017 - 9:56:46 PM	forward	0
3998	connect12345.com.	7/16/2017 - 9:56:46 PM	forward	0
4009	test123456.com.	7/16/2017 - 9:56:46 PM	forward	0
4023	cnn1234.com.	7/16/2017 - 9:56:47 PM	forward	0
4092	testing1234567.com.	7/16/2017 - 9:56:48 PM	forward	0
4393	1234tiempo.net.	8/28/2018 - 3:12:45 PM	forward	2

DNS Zone reports provide a list of zones existing in ProVision, along with the fields of Zone ID, Name, Last Modified Date, Forward/Reverse Type, and Record Count information. DNS Zone Reports may be exported to .csv (limit: 100,000 records). Default reports include:

- Default DNS Zones: All DNS zones in ProVision
- Default DNS Zones - 30 days: All DNS zones in ProVision modified within the past 30 days

User Reports

Users reports provide a listing of ProVision log events associated with user actions. Provided fields include the Timestamp, User, IP, Log Level, and the Action, and the report may be filtered to include one or more users / user groups, as well as basic data filters. User Reports may be exported to .csv (limit: 100,000 records). Default reports include:

- Default User Activity - 30 days: All ProVision user activity within the past 30 days
- Default User Activity - Year to date: All ProVision user activity for the current calendar year (ISO Standard/Gregorian calendar)

Resource Reports

Resource reports provide a list of all (non-DNS) ProVision resources, and field data from the Contact, Billing, Tech Info, and Resource Field Gadget(s) associated with the resource. The report may be filtered to include one or more Sections or Categories, as well filtered by resource name. Resource Reports may be exported to .csv (limit: 100,000 records). Default reports include:

- <u>Customer List Report:</u> ProVision resources which are of the "Resource Holder" Section and "Customer" Category.=
- <u>Default Resource Report:</u> All ProVision resource entries - matching resources listed in the Resource Tab -> Entries page list, and all applicable resource fields
  - TIP: Due to the large scope of the ProVision resource system and its fields, we strongly recommend using the Default Resource Report as starting template from which to further define more specific resource reports. Simply "Copy" the Default Resource Report, apply your desired Section/Category filter combination(s), and click the Gear Icon Save to create a more manageable data set.

> ⓘ Note: The number of entries able to be exported limited to 100,000 rows for .csvs, and 1000 rows for IPAM pdfs. If more rows are needed, the ProVision API may be used to retrieve larger datasets.

Additional Information

For more information on performing specific tasks in reporting, see:

- Working with Reports
- Reporting v1