Reporting

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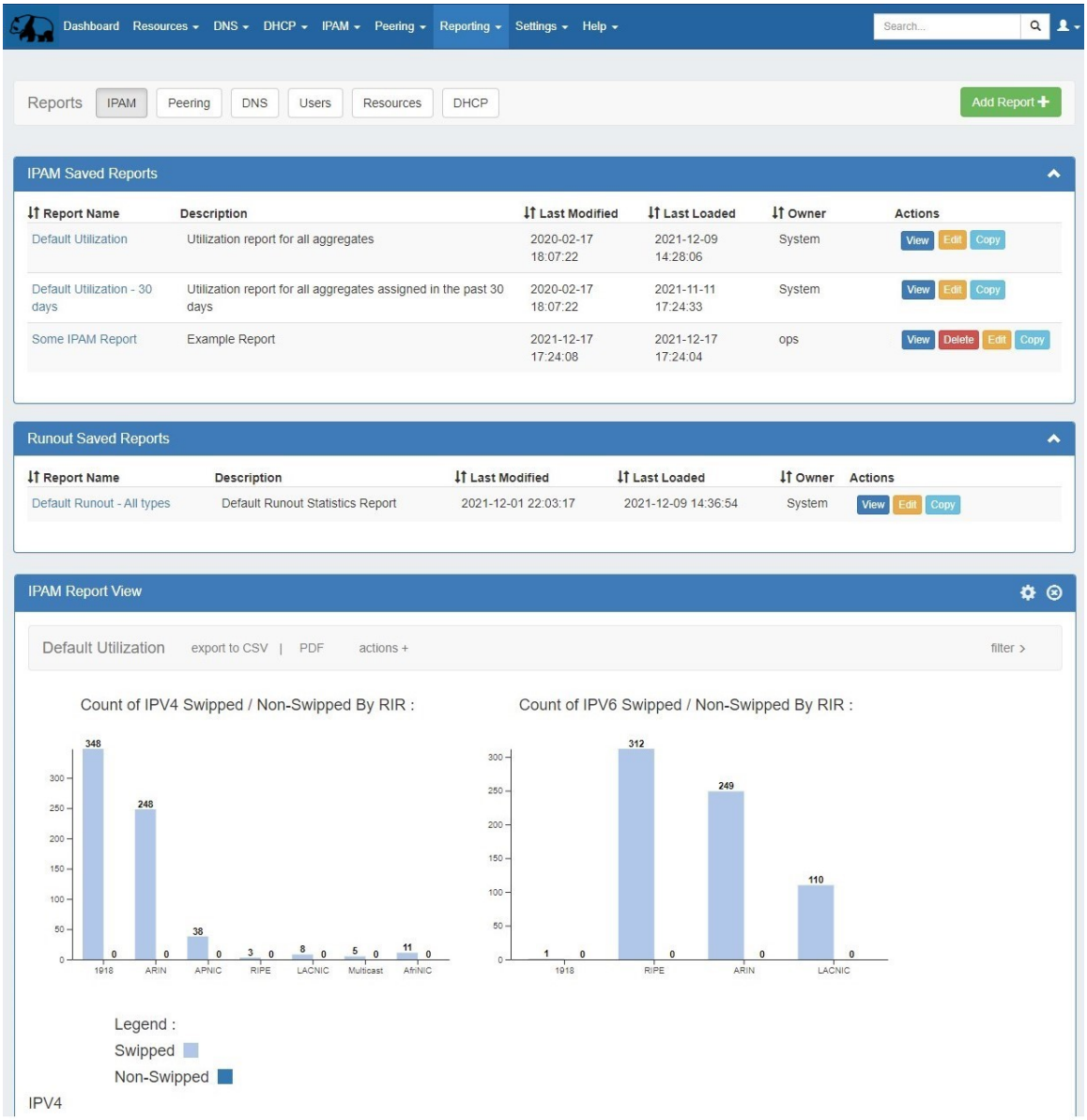
The **Reporting** tab provides reports for IPAM, Peering, DNS, Activity, Resources, and DHCP.



To view reports for a module (IPAM, Peering, DNS, Activity, 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
- Report Ownership, Permissions, and Coordination
  - Report Ownership
  - Report Permissions
  - Global Admin Permissions Override
  - Coordination & Best Practices
- Available Reports
  - IPAM Utilization Reports
  - IPAM Runout Report
  - Peering Reports
  - DNS Reports

    - Activity Reports
    - Resource Reports
    - DHCP Server Report
    - DHCP Pools Report
- Additional Information

Reporting Overview

The **Reporting** tab contains reports for five modules - IPAM, Peering, DNS, Activity (Logs), Resources, and DHCP.

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

- Fifteen default system reports for IPAM, Peering, DNS, Activity, Resources, and DHCP
- Customizable user-created reports
- IPAM Utilization, Runout, 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 Ownership, Permissions, and Coordination

Reports and User Permissions

Admin level users ("Admin" permissions on TLR) may view all data in all reports, as well as perform report actions such as creating, editing, copying, and deleting reports if the "Reporting Permissions Override" setting is selected in Admin Preferences.

Non-admin / Limited permission users may view reports, but will only be shown the reports and data/modules for which they have permissions to view.

Non-Admin users may not create new reports, or edit, copy, or delete system reports or reports created by other users.

Report Ownership

Default reports will display with "System" as the owner, and may be viewed and copied by all users with access to the report, but are not deletable. Admin level users may edit default reports.

User-created reports will display with the creator's username in the owner field, and are able viewed and copied by anyone who has view permissions for that report, but only the report owner (and global admins) may edit / delete user created reports.

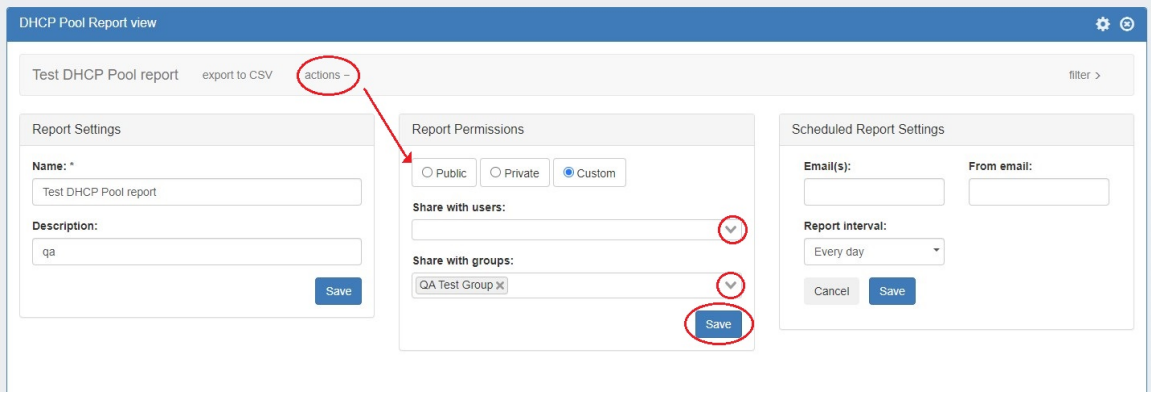
Reports may be hidden to other users by setting the report permissions to "private" or "custom", with the caveat that global admin users may override set permissions on reports.

Report Permissions

A Report Permissions module is available under report actions, allowing the user to set view permissions to one of the following:

- Public: Any user may view the report
- Private: Only the report owner can view the report
- Custom:
    - Share with Users: Only the specified users may view the report.
    - Share with Groups (Admin only): Only the users in the selected group(s) may view the report.

To set custom permissions, select the radio button for "Custom" and select either user(s) or group(s) to share with via the dropdowns. Be sure to click "Save" before exiting.



The Report Permissions module only affects report view permissions. It does not give access to edit / delete actions beyond what the user's permissions typically allow (non-admin level users will not gain "Edit" access, for example).

In addition to the selected Report Permissions settings, viewable report data is also subject to the permissions level of the User Group of the current user, and any admin-level viewing restrictions for specific data (such as log-based reports).

Reporting Permissions Hierarchy:

TLR Global Admins, with enabled Permissions Override:

- May create new reports.
- System reports may be viewed, copied, and edited.
- Can view, edit, copy, and delete all user reports, regardless of report permission settings.

TLR Global Admins, without Permissions Override (Includes "Read-Only" TLR Admins):

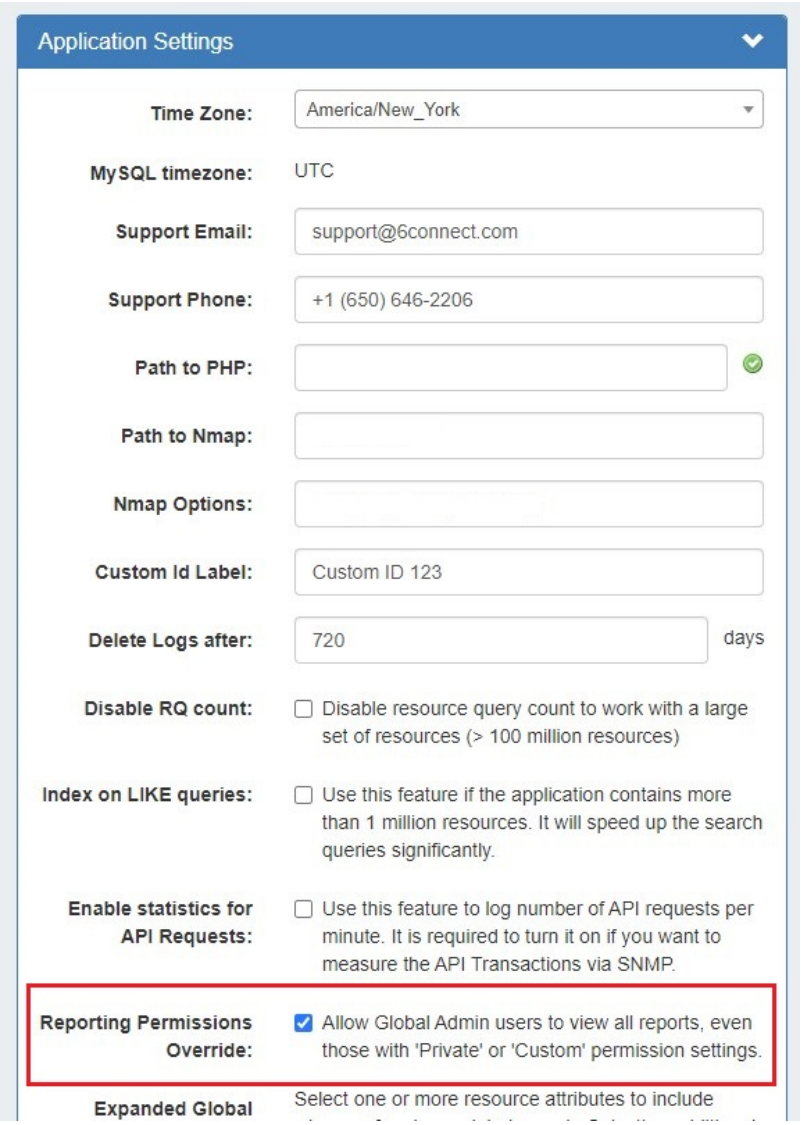
- May create new reports.
- System reports may be viewed, copied, and edited.
- Can view, edit, copy, and delete any user reports which they have permission to access (reports set to "Public, or the admin is included under "Custom" permissions).

Non-Admins (including TLR level non-admin, or users in groups with only resource-level permissions):

- May not create new reports.
- May not view Activity reports.
- May view or copy existing reports which they have permission to access.
- Can view, edit, copy, and delete reports which they own.

Global Admin Permissions Override

Global Admins may view all reports, even those with Private or Custom settings, by enabling the "Reporting Permissions Override" in the Admin section Application Settings module.



Coordination & Best Practices

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

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:

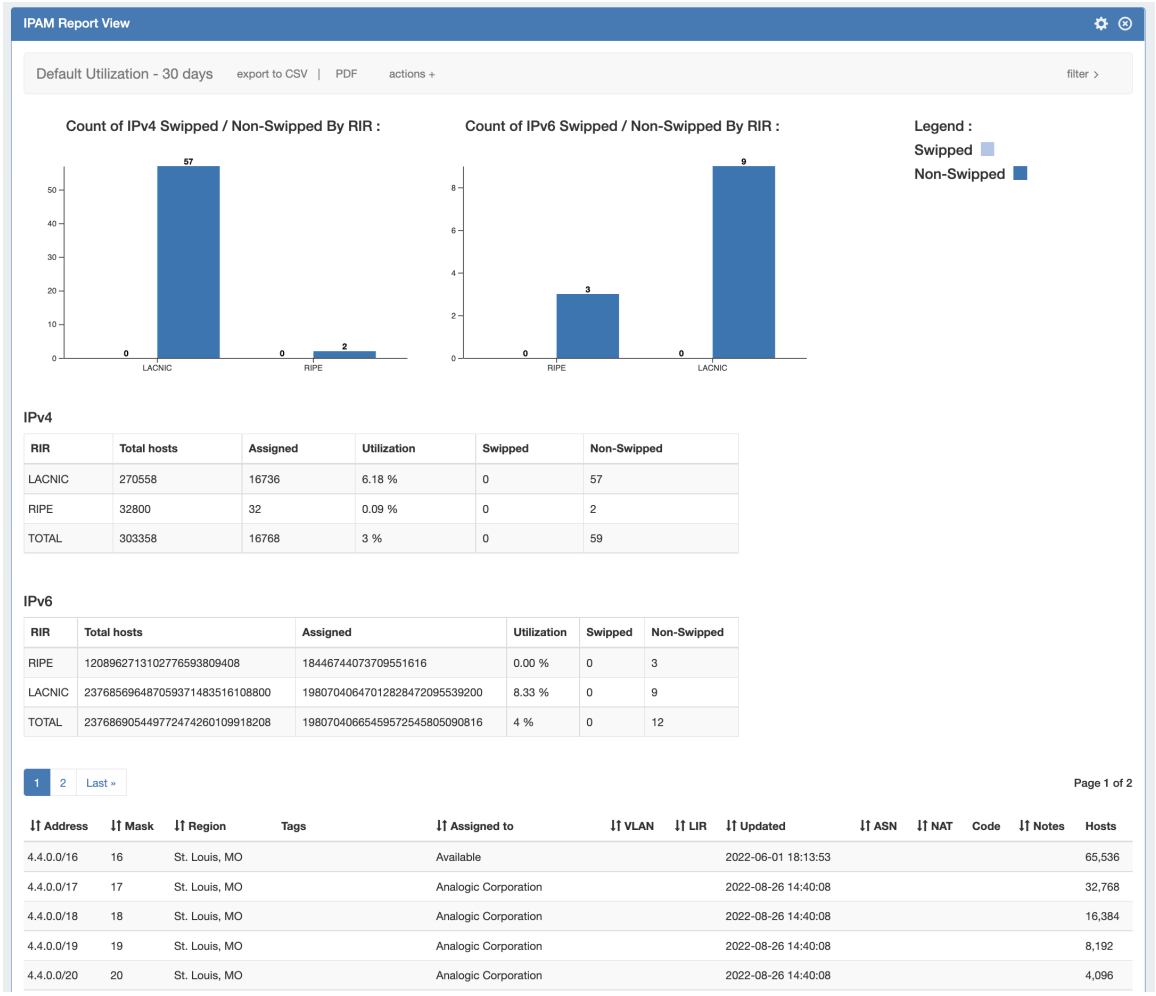
- If you are not the report's owner, confirm the report edit with the report owner prior to saving
- If there is a user listed as receiving scheduled exports of that report under Schedule Report Settings, verify that the report change will not negatively impact the planned use of the scheduled report(s).

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 Utilization Reports



RIR	Total hosts	Assigned	Utilization	Swipped	Non-Swipped
LACNIC	270558	16736	6.18 %	0	57
RIPE	32800	32	0.09 %	0	2
TOTAL	303358	16768	3 %	0	59

RIR	Total hosts	Assigned	Utilization	Swipped	Non-Swipped
RIPE	1208962713102776593809408	18446744073709551616	0.00 %	0	3
LACNIC	2376856964870593714835161088 00	19807040647012828472095539200	8.33 %	0	9
TOTAL	2376869054497724742601099182 08	19807040665459572545805090816	4 %	0	12

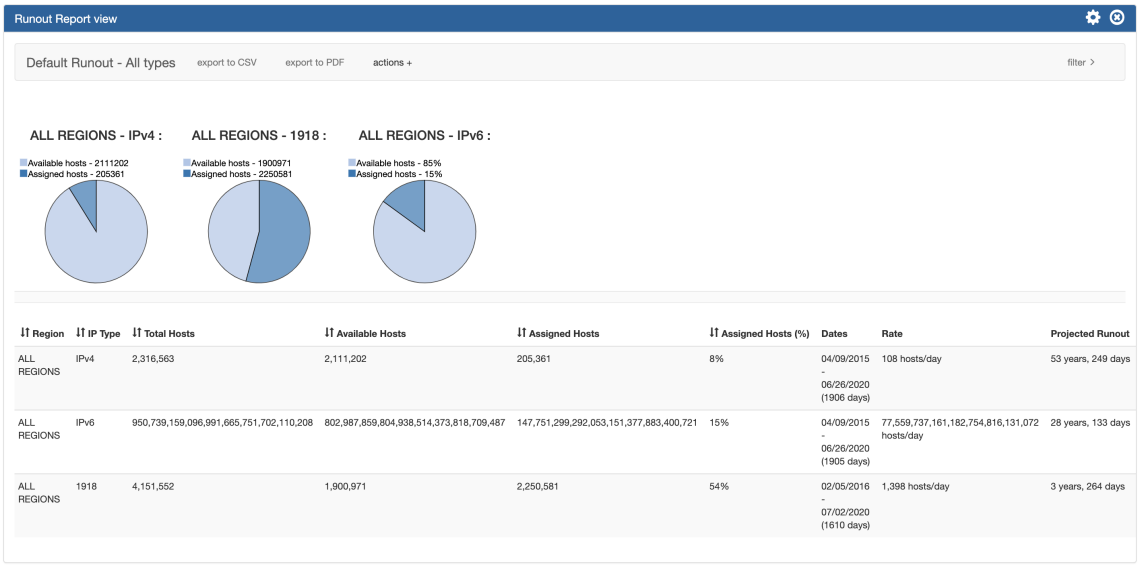
1 2 Last »

Address	Mask	Region	Tags	Assigned to	VLAN	LIR	Updated	ASN	NAT	Code	Notes	Hosts
4.4.0.0/16	16	St. Louis, MO		Available			2022-06-01 18:13:53					65,536
4.4.0.0/17	17	St. Louis, MO		Analogic Corporation			2022-08-26 14:40:08					32,768
4.4.0.0/18	18	St. Louis, MO		Analogic Corporation			2022-08-26 14:40:08					16,384
4.4.0.0/19	19	St. Louis, MO		Analogic Corporation			2022-08-26 14:40:08					8,192
4.4.0.0/20	20	St. Louis, MO		Analogic Corporation			2022-08-26 14:40:08					4,096

IPAM Utilization reports display IPv4/IPv4 utilization charts organized by RIR and SWIP status, and provide a listing of 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

IPAM Runout Report



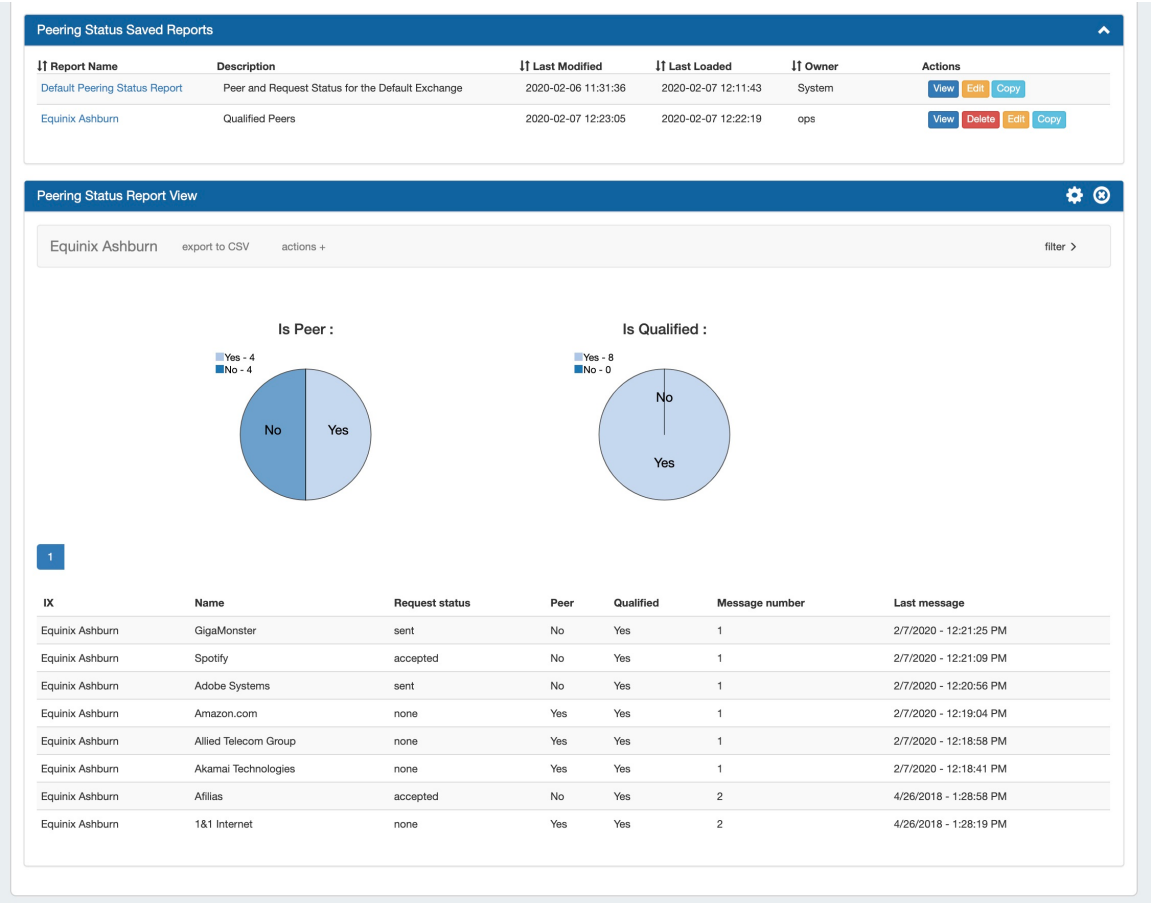
Region	IP Type	Total Hosts	Available Hosts	Assigned Hosts	Assigned Hosts (%)	Dates	Rate	Projected Runout
ALL REGIONS	IPv4	2,316,563	2,111,202	205,361	8%	04/09/2015 - 06/26/2020 (1906 days)	108 hosts/day	53 years, 249 days
ALL REGIONS	IPv6	950,739,159,096,991,665,751,702,110,208	802,987,859,804,938,514,373,818,709,487	147,751,299,292,053,151,377,883,400,721	15%	04/09/2015 - 06/26/2020 (1905 days)	77,559,737,161,182,754,816,131,072 hosts/day	28 years, 133 days
ALL REGIONS	1918	4,151,552	1,900,971	2,250,581	54%	02/05/2016 - 07/02/2020 (1610 days)	1,398 hosts/day	3 years, 264 days

The IPAM Runout Report displays IPv4/IPv6/1918 assigned/allocation pie charts, and lists available/assigned host statistics and projected runout for the selected block type(s) and region(s).

The Default report include:

- Default Runout - All Types: IPAM Runout report for all block types and regions.

Peering Reports



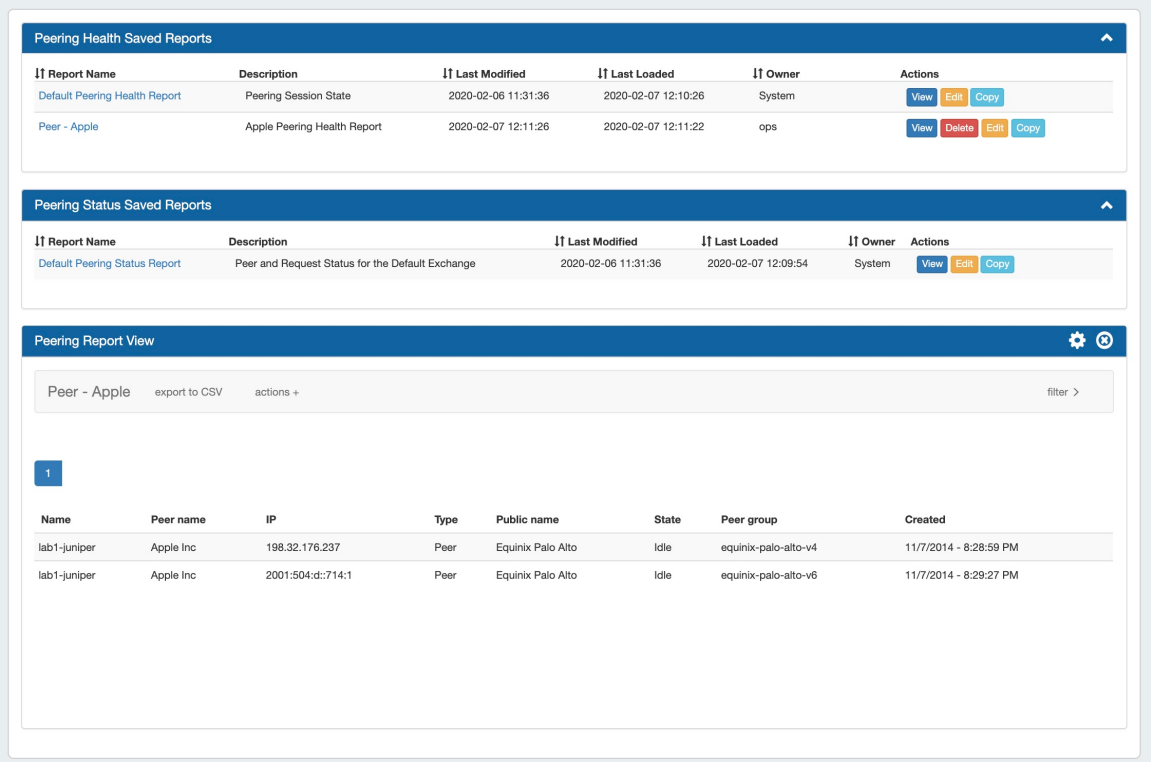
Two peering report types are available - Peering Health and Peering Status.

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, ASN, and session Created Date.

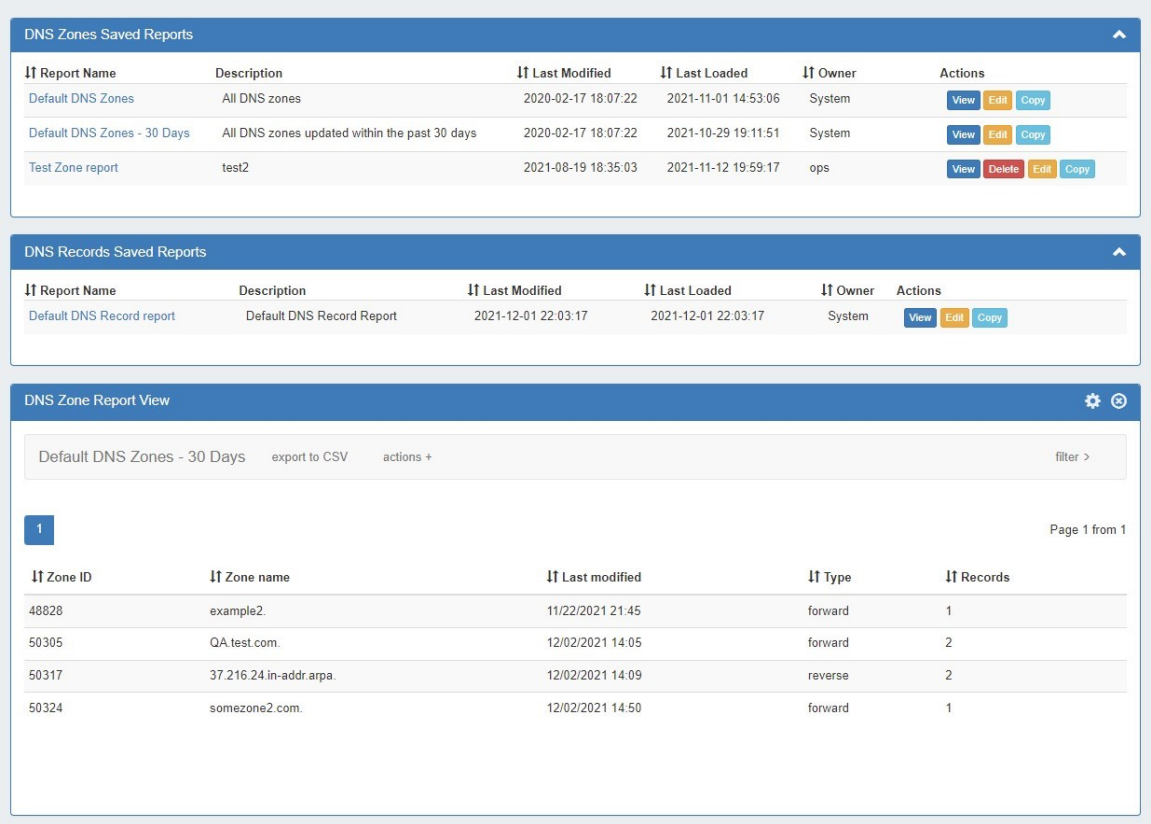
Peering Status reports are set per-exchange, and display pie charts for Peer Status/Qualification Status, as well as a data table of the Peer Name, Request Status, Peer Status, Qualification Status, Message Count, and Last Message Time.

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
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

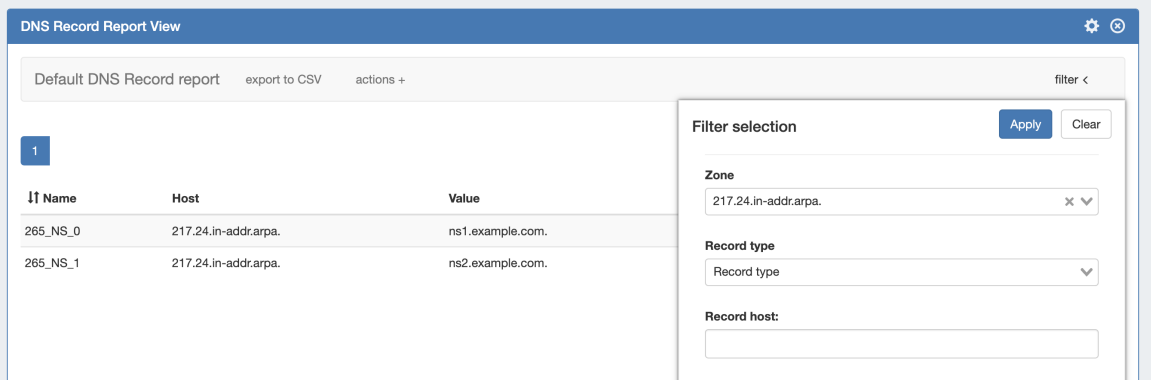
DNS Reports


DNS Zones Saved Reports
Report Name
Description
Last Modified
Last Loaded
Owner
Actions
Default DNS Zones
All DNS zones
2020-02-17 18:07:22
2021-11-01 14:53:06
System
View
Edit
Copy
Default DNS Zones - 30 Days
All DNS zones updated within the past 30 days
2020-02-17 18:07:22
2021-10-29 19:11:51
System
View
Edit
Copy
Test Zone report
test2
2021-08-19 18:35:03
2021-11-12 19:59:17
ops
View
Delete
Edit
Copy
DNS Records Saved Reports
Report Name
Description
Last Modified
Last Loaded
Owner
Actions
Default DNS Record report
Default DNS Record Report
2021-12-01 22:03:17
2021-12-01 22:03:17
System
View
Edit
Copy
DNS Zone Report View
Default DNS Zones - 30 Days
export to CSV
actions +
filter >
1
Page 1 from 1
Zone ID
Zone name
Last modified
Type
Records
48828
example2.
11/22/2021 21:45
forward
1
50305
QA.test.com.
12/02/2021 14:05
forward
2
50317
37.216.24.in-addr.arpa.
12/02/2021 14:09
reverse
2
50324
somezone2.com.
12/02/2021 14:50
forward
1

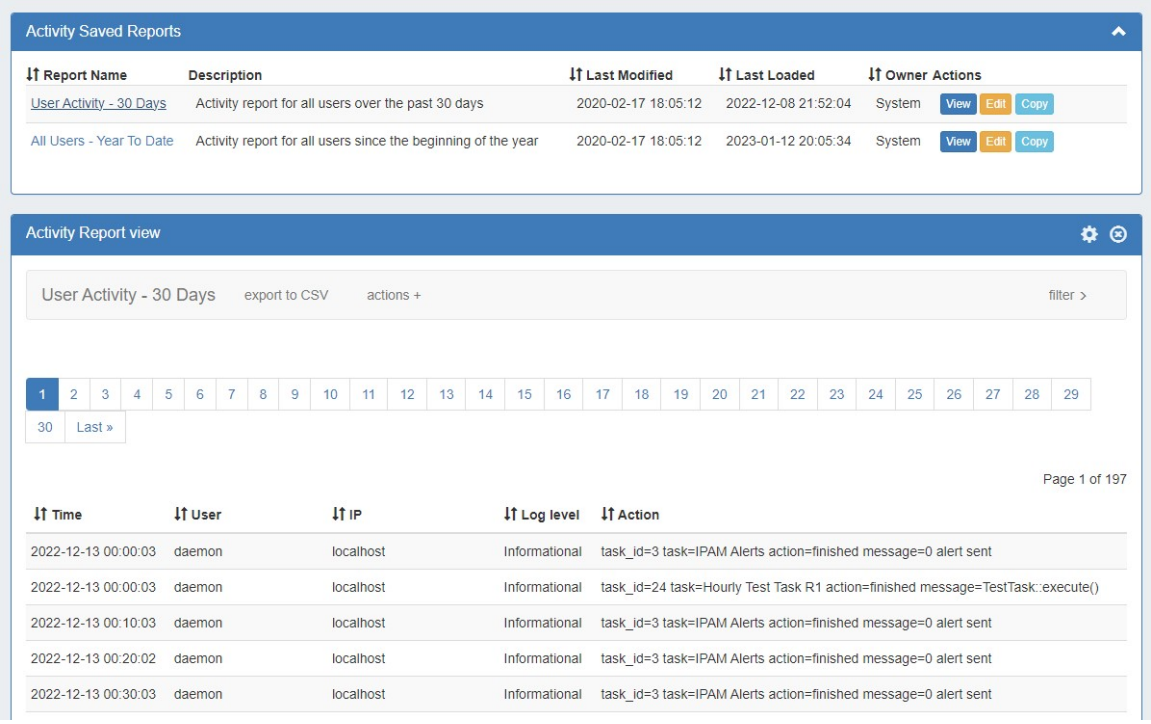
DNS Zone reports provide a list of zones, along with the fields of Zone ID, Name, Last Modified Date, Forward/Reverse Type, and Record Count information. DNS Zone Reports may be exported to .csv (limit: 100,000 records). Default reports include:

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

DNS Record reports provide a list of records which exist under the selected zone, including Name, Host, Value, Type, TTL, and Last Modified.



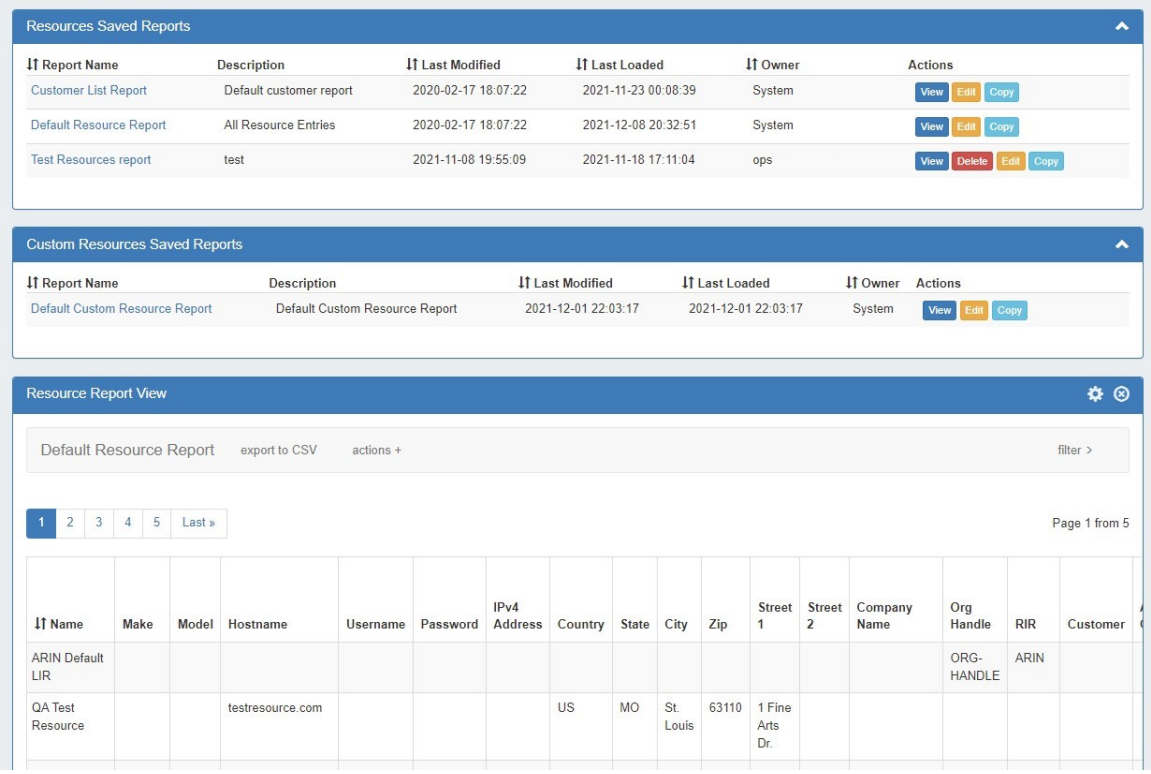
Activity Reports



Activity reports provide a listing of ProVision log events. 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. Activity Reports may be exported to .csv (limit: 100,000 records). Default reports include:

- Default User Activity - 30 days: All user activity within the past 30 days
- Default User Activity - Year to date: All 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. Additional attributes may be selected to display from the filter options, as well as whether or not to include resource children.

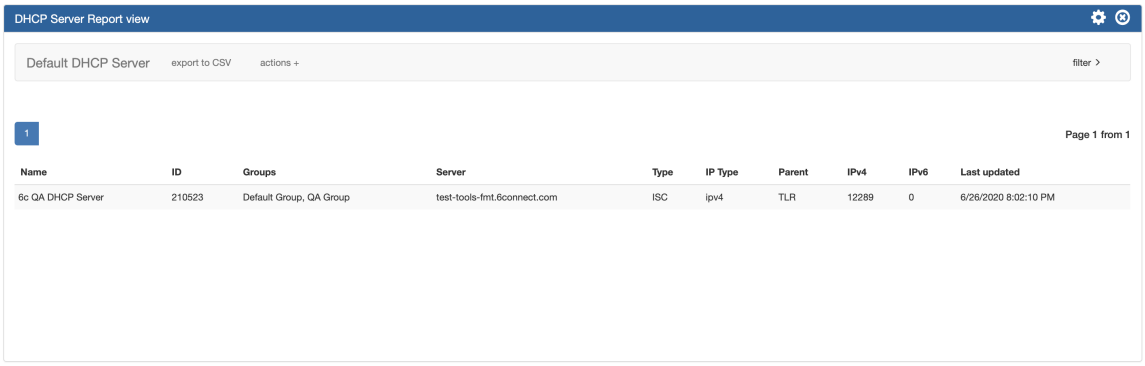
Custom Resource Reports allow for custom-filtered list of resources by Section or Category. Additional report columns may be displayed by selecting the desired attributes from the "attributes" selector from the report filter.

Resource Reports may be exported to .csv (limit: 100,000 records). Default reports include:

- Customer List Report: ProVision resources which are of the "Resource Holder" Section and "Customer" Category.=
- Default Resource Report: 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.
- Default Custom Resource Report: ProVision resources which are of the "Resource Holder" Section, with no attributes selected.

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.

DHCP Server Report

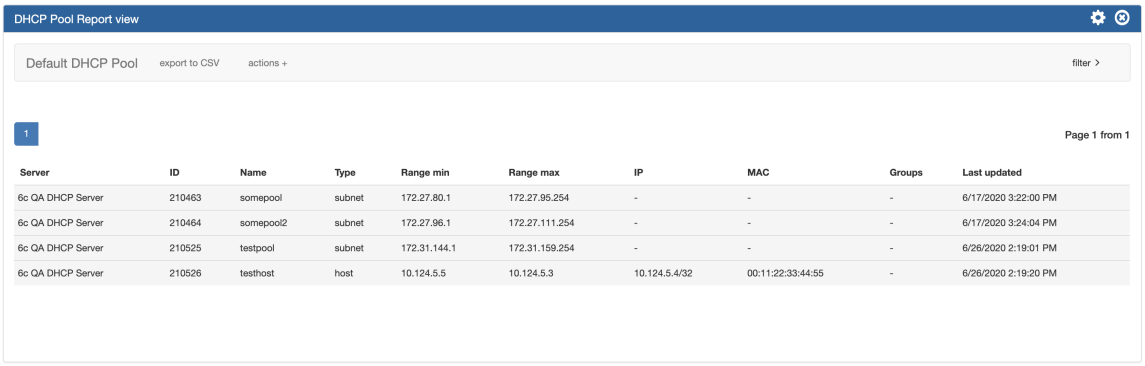


The DHCP Servers Report displays existing DHCP servers in ProVision, associated statistics, and last updated time. The DHCP Servers report can be filtered by Name, Server/Hostname, or by last modified date.

Default reports include:

- Default DHCP Server Report: All ProVision DHCP Servers, with no additional filters applied.

DHCP Pools Report



The DHCP Pools Report displays existing DHCP Pools in ProVision, type, ranges, IP/MAC, associated groups, and last updated time.

The DHCP Pools Report can be filtered by DHCP Server(s), name, type, or by last modified date.

Default reports include:

- Default DHCP Pool Report: ProVision DHCP Pools for the default server(s), both subnet and hosts, with no additional filters applied.

Additional Information

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

- Working with Reports