

ProVision 7.4.0

ProVision 7.4.0

ProVision 7.4.0 is a major release with new features, improvements and bug fixes.

Major Features and Improvements in this release:

- New Features
 - New Admin Settings Interface
 - New Resource Lists Interface
 - Constraints
- Additional Features / Improvements
 - DNS Improvements
 - S64 DNS Server Configuration Rollback
 - Save Import File
 - Import Zone Comments
 - New Report Types
 - IPAM Runout Report
 - DHCP Server Report
 - DHCP Pools Report
 - Additional Improvements
 - ProVision IPAM-As-WHOIS
 - GEO IP Exporter
 - IPAM Auto AS-Resource
 - IPAM IPv6 Sparse Allocation Schemes
 - IPAM Aggregate Notes
 - Chart View Select Top Node
 - Dashboard Log Widget
 - Logging Improvements
- Bug Fixes/Minor Improvements


Contact 6connect at info@6connect.com to schedule a demo or get more information.

New Features

New Admin Settings Interface

IM - 3723: Update Admin Preferences UI to utilize sub-tabs, improve backend.

The Admin Preferences area has been updated with a new UI and updated backend. Each module area can be accessed by its own sub-tab button, available at the top of the page.


IPAM Admin ▾ Data Import Users API ▾ Scheduler Log Approvals ▾ Constraints Exit Admin

Admin Settings

Application

Authentication

DNS

Peering

Templates

ProVision Status

This product is licensed to
and expires in 316 days.

Manage License

Display EULA

Application Settings

Time Zone:

UTC ▾

MySQL timezone:

PDT

Company Name:

6connect QA 7.4.0 (LT)

Generic name:

Customer List

Header Image:

/images/topbar-logo.png

64 x 38px

Choose File

No file chosen

Support Email:

Support Phone:

Path to PHP:

/usr/bin/php

✓

Path to Nmap:

/usr/bin/nmap

Nmap Options:

-oG {{file}} -sn {{netblock}}

Customer label:

Custom ID

Delete Logs after:

90

days

Save Changes

Backup Settings

Location mysqldump:

/usr/bin/mysqldump

✓

File permissions:

0755

Save Changes

Manual Backup

Backup Location:

☒ 6connect Cloud
☐ Alternate Server

Backup Now

Logging Options

Local Syslog Enable:

OFF

Remote Log IP:

Remote Log Port:

1515

Remote Log Method:

UDP ▾

Remote Log Backup IP:

Remote Log Backup Port:

Remote Log Backup Method:

UDP ▾

For details, see [Admin Preferences](#).

New Resource Lists Interface

IM - 3481: Updated the Resource Lists UI to support bulk edits, custom columns and other new features

CFR - 32: Bulk Edit for Resources

CFR - 85: User Customization of Resource List Columns

CFR - 98: Mass reassign of resources to a different Parent Resource

CFR - 164: User Customization of # of resource per page / pagination

IM - 1498: Update Add Resource Button(s) to be more consistent with other UI areas

IM - 1908: Multi-Edit of Resource Attributes

IM - 2653: Bulk Resource Assign

IM - 3481: Update Resource List interface

The Resource Lists interface has been updated to better coordinate with the IPAM UI, allowing for a greater variety of customization and new features to be included.

Dashboard
Resources
DNS
DHCP
IPAM
Peering
Reporting

Search or type help

Resources
Entries
Sections
Categories
Contacts
Customers
Add Section
Clone
Settings

Resource list 17

Sections
export
show filters

Items per page 100
Search by name...
match name

<input type="checkbox"/>	Id	Slug	Name	Parent Id	Parent Name	Category Id	Category Name	Created	Modified	
<input type="checkbox"/>	235	point-to-point	Backbone Point to Point	1	TLR	-	-	2015-04-14 21:43:01	2020-06-15 04:52:30	
<input type="checkbox"/>	102	circuit	Circuit	1	TLR	-	-	2013-08-07 16:38:12	2020-06-15 04:52:29	
<input type="checkbox"/>	67	contact	Contact	1	TLR	-	-	2013-08-06 20:27:04	2020-06-15 04:52:29	
<input type="checkbox"/>	97	datacenter	Datacenter	1	TLR	-	-	2013-08-06 20:41:43	2020-06-15 04:52:29	
<input type="checkbox"/>	72	firewall	Firewall	1	TLR	-	-	2013-08-06 20:27:04	2020-06-15 04:52:29	
<input type="checkbox"/>	94	lir	LIR	1	TLR	-	-	2013-08-06 20:27:05	2013-08-06 20:27:05	
<input type="checkbox"/>	73	physical-interface	Physical Interface	1	TLR	-	-	2013-08-06 20:27:04	2020-06-15 04:52:29	
<input type="checkbox"/>	75	rack	Rack	1	TLR	-	-	2013-08-06 20:27:04	2020-06-15 04:52:29	
<input type="checkbox"/>	66	resource-holder	Resource Holder	1	TLR	65	Customer	2013-08-06 20:27:04	2020-06-16 13:48:24	
<input type="checkbox"/>	76	router	Router	1	TLR	-	-	2013-08-06 20:27:04	2020-06-15 04:52:29	

Additional Updates include:

- Bulk resource edit
- Customizable column locations
- Custom columns from resource attributes
- Column sorting
- Additional filter and display options
- Custom resource lists
- Updated Contacts list

For details on using the new Resource List Views, see [Resources](#), [Working with Entries](#), and [Customizing Resource Views](#)

Constraints

CFR - 165: Added a Constraints system for setting admin-designated field limitations to ProVision IPAM fields.

Constraints allows Admin users to configure custom field validation and limitations into IPAM fields. Many constraint types are available, such as mathematical comparison operators, length, enumeration, pre-set lists, RegEx, IPv4/IPv6, Phone, email, hostname, FQDN, Mac Address, and URL.

[IPAM Admin](#)
[Data Import](#)
[Users](#)
[API](#)
[Scheduler](#)
[Log](#)
[Approvals](#)
[Constraints](#)
[Exit Admin](#)

[Constraints](#)
[Configuration](#)

Settings

Configuration

Add constraint

Constraints

Registered constraints 2

Filter by Type: none

Search...

0 items selected.

<input type="checkbox"/>	ID	Name	Compare	Updated	Options
<input type="checkbox"/>	210468	10 character minimum	Length Min	06/17/2020 16:14:13	<div>Delete</div> <div>Edit</div> <div>Test</div>
<input type="checkbox"/>	210470	Less than 6 characters	Length Max	06/18/2020 13:12:42	<div>Delete</div> <div>Edit</div> <div>Test</div>

Displaying 1 to 2 of 2 items

For details, see [Constraints](#).

Additional Features / Improvements

DNS Improvements

S64 DNS Server Configuration Rollback

CFR - 180: S64 DNS Servers now supports configuration rollback

To enable configuration rollback for S64 DNS Servers, go to the *Server Settings* page for the desired server, then toggle "Enable Configuration Rollback" to "on". Once set, ProVision will create a backup configuration file during push to use for a rollback.

Enable Configuration Rollback:

ON

If the Configuration Rollback is enabled on push, ProVision will move the current configuration and zone files to a different files with prefix _backup. In case of failure you can restore the previous configuration with prefix _backup.

To perform a rollback after a push, click the "Rollback Config" button on the server settings page.

Dashboard Resources DNS DHCP IPAM Peering Reporting

Search or type help

DNSv3 DNS Groups DNS Servers DNS Zones DNS Records

Server Settings : S64 Rollback Test

Push Zones Schedule Push **Rollback Config**

Edit the comment.

Common Settings

Display Name:

S64 Rollback Test

This is the server name that will appear in the DNS interface.

For additional information, see [link here](#).

Save Import File

CFR - 179-a: Added a DNS Admin setting - "Save Import File", which retains original DNS zone import files for download under Zone View page "Backup Files and Attachments"

To enable saving import files, go to Admin Preferences DNS Settings sub-tab. From there, select "Import Settings" in the DNS Global Settings module.

Toggle "Keep Import File" into the ON position, then select "Save Changes".

Admin Settings Application Authentication **DNS** Peering Templates

DNS Global Settings

DNSSEC Settings

Dynamic Updates

Backup Settings

Import Settings

Keep Import File: **ON**

If enabled it will keep the zone import file inside the zone.

Save Changes

Proceed with a [.zone file import](#) from the zone's View Zone Page.

Once the import has completed, the original zone import file will display in the View Zone page under "Zone Backups and Attached Files".

File Name	Date	Action
zone_import_1583267662	03/03/2020 14:34:22	Download

Backup Date

2020-03-03 11:35:54

To download the original file, click "Download" for the import file.

Import Zone Comments

CFR - 179-b: Comments contained in DNS Zone Import files will now be appended into the DNS Zone page "Comments" field.

DNS Zone Import will also import comments contained in the .zone file, such as an internal change log (such as in the image below).

```
zone_import_1583267662 -comment
;
;*****
; L I S T   O F   C H A N G E S
;
; DATE      NAME      DESCRIPTION
; 2020040101 John Doe   created file
; 2020040102 John Doe   added update
; 2020050402 Jane Doe   abc changed
;
;*****
$TTL 86400
```

When imported by selecting the "Import Zone" button on the View Zone page, these comments are added to ProVision's zone comments field:

testadd.

Default Group

Some Group

+

Push Zone Now

Schedule Push

Export Zone

Import Zone

```
;*****
; L I S T   O F   C H A N G E S
;
; DATE      NAME      DESCRIPTION
; 2020040101 John Doe   created file
; 2020040102 John Doe   added update
; 2020050402 Jane Doe   abc changed
;
;*****
```

Advanced Settings >

New Report Types

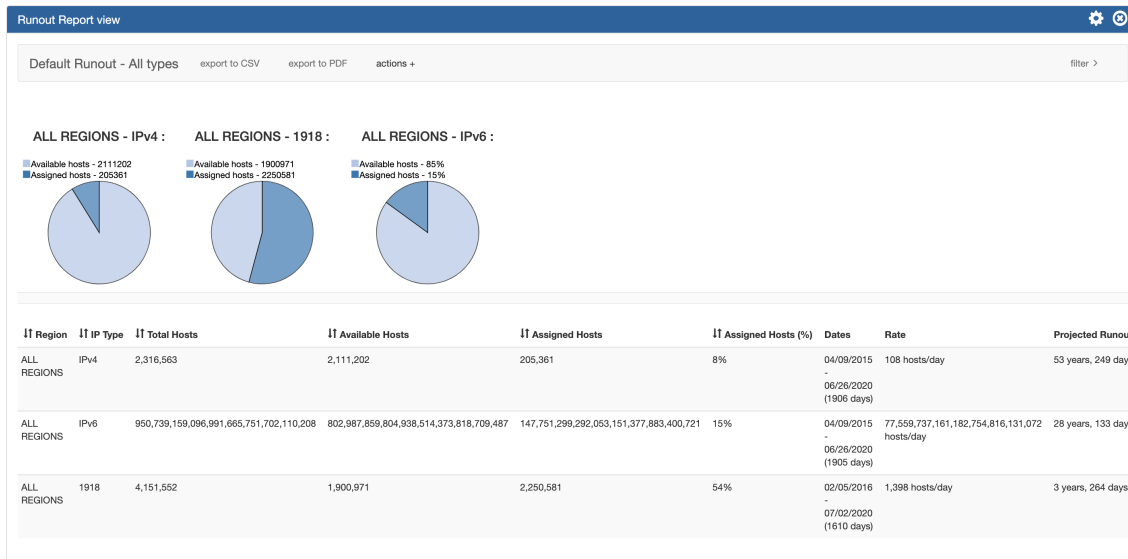
The following default reports have been added to the **Reporting** Tab:

IPAM Runout Report

CFR - 186: Added the IPAM Runout Report type to the Reporting Tab.

Runout Saved Reports					
Report Name	Description	Last Modified	Last Loaded	Owner	Actions
Default Runout - All types	Default Runout Statistics Report	2020-07-10 21:55:25	2020-07-10 21:54:45	System	View Edit Copy
Copy of Default Runout - IPv4		2020-07-10 21:54:25	2020-07-10 21:54:16	ops@6connect.com	View Delete Edit Copy

The IPAM Runout Report displays available/assigned host statistics and projected runout for the selected block type(s) and region(s).



DHCP Server Report

IM - 3705 a: Added the DHC Servers Report type to the Reporting Tab.

DHCP Servers Saved Reports					
Report Name	Description	Last Modified	Last Loaded	Owner	Actions
Default DHCP Server	Default DHCP Server Report	2020-06-18 19:30:48	2020-07-07 00:04:12	System	View Edit Copy

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, Domain, or by last modified date.

DHCP Server Report view										
Default DHCP Server export to CSV actions + filter >										
Page 1 from 1										
Name	ID	Groups	Server	Type	IP Type	Parent	IPv4	IPv6	Last updated	
6c QA DHCP Server	210523	Default Group, QA Group	test-tools-fmt.6connect.com	ISC	ipv4	TLR	12289	0	6/26/2020 8:02:10 PM	

DHCP Pools Report

IM - 3705 b: Added the DHC Pools Report type to the Reporting Tab.

DHCP Pools Saved Reports					
Report Name	Description	Last Modified	Last Loaded	Owner	Actions
Default DHCP Pool	Default DHCP Pool Report	2020-07-07 00:05:33	2020-07-07 00:05:29	System	View Edit Copy

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.

DHCP Pool Report view

Default DHCP Pool

export to CSV

actions +

filter >

1

Page 1 from 1

Server	ID	Name	Type	Range min	Range max	IP	MAC	Groups	Last updated
6c QA DHCP Server	210463	somepool	subnet	172.27.80.1	172.27.95.254	-	-	-	6/17/2020 3:22:00 PM
6c QA DHCP Server	210464	somepool2	subnet	172.27.96.1	172.27.111.254	-	-	-	6/17/2020 3:24:04 PM
6c QA DHCP Server	210525	testpool	subnet	172.31.144.1	172.31.159.254	-	-	-	6/26/2020 2:19:01 PM
6c QA DHCP Server	210526	testhost	host	10.124.5.5	10.124.5.3	10.124.5.4/32	00:11:22:33:44:55	-	6/26/2020 2:19:20 PM

Additional Improvements

ProVision IPAM-As-WHOIS

CFR - 169: Added support for utilizing ProVision IPAM as a WHOIS server.

ProVision now supports utilization as a WHOIS server via REST API requests.

ProVision supports utilization as a WHOIS server via REST API requests. You can query Resources, Contacts, and IP Blocks, just like a traditional WHOIS server, only ours serves data from the ProVision database.

This feature provides an alternate route to provide ProVision data to legacy workflows on your network. If a team is used to query WHOIS, they can query Provision. If a system needs to talk to WHOIS, it can talk to ProVision-as-WHOIS.

Setup

The ProVision WHOIS Server is a thin client for our REST API that listens on port 43 and accepts WHOIS requests that gets forwarded to our API. It is written in Python 3 using the **socketserver** module, and uses the ProVision endpoint **/api/ipam/whois** to receive all requests from the WHOIS server.

The main business logic is located in **services/WhoisService.php**

Running the Server manually

The server is located at **whois_server/main.py** in the ProVision repository.

Running the server can be done with: **sudo python3 main.py** (We need root because we are binding to port 43)

Quering the WHOIS server

1. install whois if not present (sudo apt-get install whois)
2. whois -h 127.0.0.1 query

Installing the WHOIS server as a service

Different Linux distributions might have different ways to setup a service that runs on startup.

systemd

There is a Unit file for systemd in the repository: **whois_server/provision_whois.service** that is used when a service is created in systemd env.

- 1) Edit the file to setup the proper path to the python server/file

```
ExecStart=/usr/bin/python3 /root/whois_server/main.py
WorkingDirectory=/root/whois_server/
```

- 2) Copy the file to **/etc/systemd/system** (on CentOS this directory should be: **/lib/systemd/system**) -

sudo cp whois_server/provision_whois.service /etc/systemd/system/provision_whois.service

3) Start the service with **service provision_whois start**

4) Verify that is working with **service provision_whois status** and making a test query **whois -h 127.0.0.1 query**

The systemd services are run as root, so there shouldn't be issues with binding to port 43.

[init.d](#)

There is also init.d file located at **whois_server/provision_whois**

1) Edit the file to setup the proper path to the python server/file

```
DAEMON_OPTS="/var/www/projects/whois/app.py"
```

2) Copy the file to **/etc/init.d/**

3) **chmod +x /etc/init.d/provision_whois -v**

4) Verify that is working with **service provision_whois status** and making a test query **whois -h 127.0.0.1 query**

GEO IP Exporter

CFR - 192: Added the ability to add GeoIP location information to the Contact Info Gadget for a resource, and export location data for resources with assigned blocks to .csv

ProVision now supports the entering and export of IETF format-compliant GeoIP data for resources which have assigned IP blocks.

The Geo IP Exporter may be enabled as a scheduled task (See: [Scheduler Tab](#)) that, at run time, searches the ProVision instance for resources which have IP addresses and an address provided in the Contact Info Gadget, then saves the resulting .csv to the ProVision root directory.

If a resource has an assigned IP address, and either Geo IP location data or a Mailing Address entered in the Contact Info Gadget, then the data will be included in the .csv output. If an IP address is not associated with the resource, or if neither Geo IP / Mailing Address has been provided, the resource will be skipped.

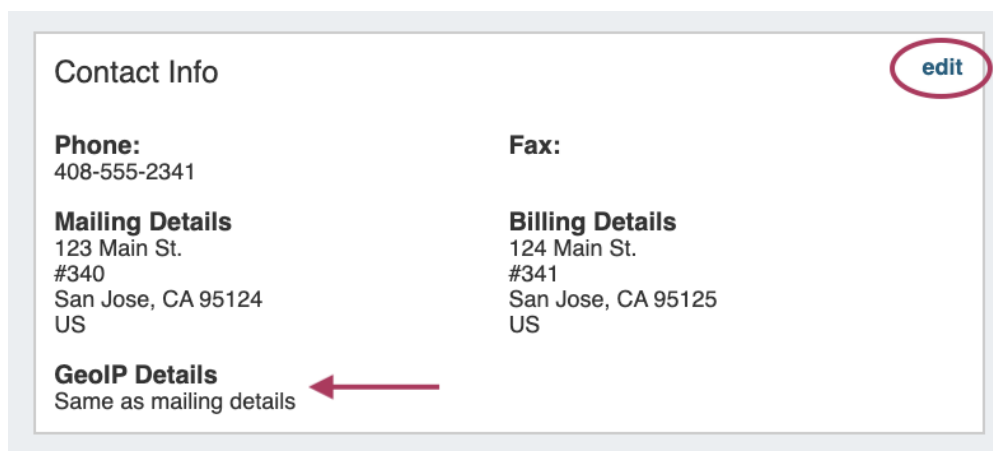
This feature includes updates to the following areas:

- Updates to the Contact Info Gadget to provide Geo IP fields
- A Geo IP Export Scheduler Task
- Writes files to the ProVision root directory

For additional information, expand the walkthrough below:

1) Enter GEO IP data to Resources

Add GEO IP location data to a Resource by selecting "Edit" for the Contact Info Gadget.



Contact Info edit

Phone: 408-555-2341	Fax:
Mailing Details 123 Main St. #340 San Jose, CA 95124 US	Billing Details 124 Main St. #341 San Jose, CA 95125 US
GeoIP Details Same as mailing details	

Enter a separate address to denote as the GEO IP location, or you may select "Same as Mailing Address":

GeoIP Details

☐ GeoIP details same as mailing details

Country

Address

Town/City

State / County Postcode / Zip

2) Set up the Geo IP Export Scheduler Task

Create a Scheduler task to export GEO IP data:

[Add Task](#)

Task Detail - Export GEO IP

Name:

Task:

Settings: No custom settings available for this task

Start:

End:

Schedule/Repeat Settings

Repeat Settings For This Task:

- Saturday at 08:00 PDT [Delete](#)

Add Repeat Setting

Repeat Type: ☐ Hourly ☒ Daily ☐ Weekly ☐ Monthly ☐ None (one-time)

Repeat Time:

☐ Sun ☐ Mon ☐ Tue ☐ Wed ☐ Thu ☐ Fri ☒ Sat

[Add Repeat Setting](#)

[Cancel](#) [Save Task](#)

3) Run the Scheduler Task / File Access

Run the GEO IP scheduler task, either via "Run Now" or as a scheduled run - the task will search for resources with an assigned IP address, and either Geo IP location data or a Mailing Address entered in the Contact Info Gadget, and add the data to the .csv output.

Export GEO IP	2020-Jul-31	Saturday at 08:00 PDT	2020-07-31 11:17:36 PDT	Details	View History	Run Now	Delete
---------------	-------------	-----------------------	-------------------------	-------------------------	------------------------------	-------------------------	------------------------

Once the task has completed, the GEO IP data will be written to the ProVision root directory as "geoip_feed.csv":

```

:~$ cd /var/www/html/ && .7.4.0$ ls -lt
-rw-r--r--  1 www-data www-data   13132 Jul 31 21:26 geoip_feed.csv

```

IPAM Auto AS-Resource

CFR - 188: Added a new "SystemAS" section to automatically create a resource for ASN's entered in IPAM Manage.

ProVision now automatically creates an AS resource for ASN's entered into IPAM Manage (formatted as "AS1234" or "1234").

Manage aggregate														
Advanced Search - export to CSV										filter >				
IT Address	IT NAT	IT Region	IT Tags	IT Assigned to	IT Custo...	IT ASN	IT Updated	IT LIR	IT Notes	IT VLAN	IT Metad...	IT Metad...	IT Metad...	IT Metad...
0.0.0.0/23	-	San Francisco	12 Infra,16 QA	Test	14917	8038	2020-07-28 11:51	abc	Test Aggregate	4	-	-	-	-
0.0.0.0/24	-	-	A QA Entry	-	-	8038	2020-07-31 16:55	-	-	-	-	-	-	-
0.0.0.0/24	-	San Francisco	12 Infra,16 QA	Test	Arden Comp...	8038	2019-07-22 03:35	abc	Test Aggregate	4	-	-	-	-
0.0.0.0/8	-	-	available	-	-	-	2020-07-28 17:31	-	-	-	-	-	-	-

An ASN in IPAM Manage will link to the created resource, which will display all IP Blocks in ProVision with that ASN value. SystemAS resources may not be edited, however they may be deleted by an admin if desired.

Resources / Entries / AS8038
Export as CSV

AS8038
ID: 15409
Section: SystemAS
Category: Uncategorized

IPAM

Direct assign

Smart assign

IP Blocks
filter +

IT Address	IT NAT	IT Region	IT Tags	IT Custo...	IT ASN	IT Updated	IT LIR	IT Notes	IT VL
0.0.0.0/23	-	San Francisco	12 Infra,16 QA	Test	8038	2020-07-28	abc	Test Aggregate	4
0.0.0.0/24	-	-	-	-	8038	2020-07-31	-	-	-
0.0.0.0/24	-	San Francisco	12 Infra,16 QA	Test	8038	2019-07-22	abc	Test Aggregate	4
0.0.2.0/23	-	San Francisco	12 Infra,16 QA	Test	8038	2020-02-12	abc	Test	4
0.0.4.0/22	-	Sofia	12 Infra,16 QA	Test	8038	2020-07-28	abc	Test Aggregate	4
0.0.8.0/29	-	San Francisco	12 Infra,16 QA	Test	8038	2019-07-24	abc	Test Aggregate	4
0.0.8.8/29	-	San Francisco	12 Infra,16 QA	Test	8038	2019-07-24	abc	Test Aggregate	4
0.0.8.16/28	-	San Francisco	12 Infra,16 QA	Test	8038	2020-02-12	abc	Test Aggregate	4
0.0.8.32/27	-	San Francisco	12 Infra,16 QA	Test	8038	2019-07-24	abc	Test Aggregate	4
0.0.8.64/26	-	San Francisco	12 Infra,16 QA	Test	8038	2020-07-28	abc	Test Aggregate	4
0.0.8.128/25	-	San Francisco	12 Infra,16 QA	Test	8038	2019-07-24	abc	Test Aggregate	4
0.0.9.0/24	-	San Francisco	12 Infra,16 QA	Test	8038	2019-07-24	abc	Test Aggregate	4
0.0.10.0/23	-	San Francisco	12 Infra,16 QA	Test	8038	2019-07-24	abc	Test Aggregate	4
0.0.12.0/22	-	San Francisco	12 Infra,16 QA	Test	8038	2019-06-22	abc	Test Aggregate	4
0.0.16.0/22	-	San Francisco	12 Infra,16 QA	Test	8038	2019-06-22	abc	Test Aggregate	4

Displaying 1 to 15 of 24 blocks

1 2

IPAM IPv6 Sparse Allocation Schemes

CFR - 184: Added scheme options (Leftmost, Rightmost, Center) to IPv6 Sparse Allocation. See: [IPAM Configuration](#)

Admins may now denote a system default Sparse Allocation scheme to use for IPv6 Sparse Allocation. Available values are Leftmost, Center, and Rightmost. If not otherwise specified, Leftmost is the ProVision Default.

To edit the Sparse Allocation Scheme, select the desired scheme in [IPAM Configuration](#), then enable sparse allocation for the desired IPv6 aggregate. The Sparse allocation scheme is applied to the aggregate when sparse allocation is enabled for the aggregate, thus, pre-existing sparse allocation schemes will not be altered by later changes.

IPAM Configuration

Holding Tank Days

0

IPv4 Block Scanner Enable

☒

IPv4 Block Scanner Max Block Size

/20

RIPE Database

☒ RIPE ☐ TEST

Show /32 or /128 mask for statics

☒

Merge after unassign

☒

When enabled, ProVision will automatically merge unassigned blocks into the largest possible block within an aggregate

Automatic Merge respects Tags & Regions

☒

When enabled, the automatic merge performed after an unassign will stop if the two blocks do not have identical tags and regions.

Enable Map View

☒

Default Tag Selection Mode

☒ Standard ☐ Strict ☐ Exclude

Sparse Allocation Block Size

/64

Sparse Allocation Type

Leftmost

Update

Back To IPAM Admin

If you wish to change the scheme for an existing sparse allocated-enabled aggregate, you must disable sparse allocation for the aggregate. Edit the selected scheme, re-enable sparse allocate for the aggregate. To verify which scheme is applied to aggregates, you may view the aggregate and scheme details in the [Numbering Authority](#) Sparse Allocate listings.

Numbering Authority

Numbering Authority is a configurable set of values and the associated functions to track which values have been handed out and which are still available.

Create New Numbering Domain

Filter by Type: IPv6 Sparse Allocation

Search...

↕ Name	↕ Reuse values	↕ Type	Actions
Automatic Numbering Domain for IP Id: 34169	Yes	IPv6 Sparse Allocation	<div>Get Next Value</div> <div>View Assigned Values</div> <div>Delete</div>
		Starting IPv6: ABCD:EF01:2345:: Starting Block Prefix: 48 Increments: 64 Allocation type: undefined	
Automatic Numbering Domain for IP Id: 34871	Yes	IPv6 Sparse Allocation	<div>Get Next Value</div> <div>View Assigned Values</div> <div>Delete</div>
		Starting IPv6: AAAA:BBBB:2345:: Starting Block Prefix: 48 Increments: 64 Allocation type: undefined	
Automatic Numbering Domain for IP Id: 6267	Yes	IPv6 Sparse Allocation	<div>Get Next Value</div> <div>View Assigned Values</div> <div>Delete</div>
		Starting IPv6: 2001:506:6000:: Starting Block Prefix: 35 Increments: 64 Allocation type: leftmost	

IPAM Aggregate Notes

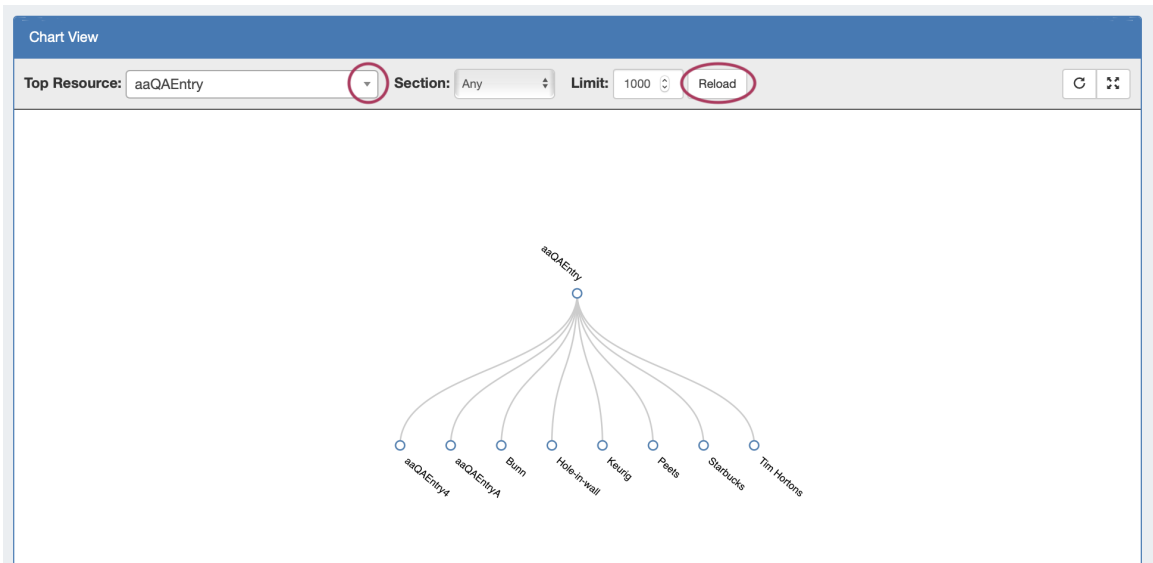
IM - 3809: Added display of IPAM Aggregate notes to the Top - Level Aggregate listing.

IPAM Notes applied to the topmost aggregate block now display in the IPAM sidebar, under the aggregate.

Aggregate Blocks	
All	IPv4
IPv6	DHCP
Listing ipv4 aggregate blocks	
Filter by cidr...	
more filters >	
0.0.0.0/6	
0.0.0.0/18	Test Aggregate
0.0.0.0/24	
2.2.40.0/24	
4.5.0.0/18	
5.5.0.0/20	test

Chart View Select Top Node

IM - 3778: Users can now select a specific resource as the "Top Node" in Resources Chart View.



A specific resource may be selected as the "Top Node" when viewing Resources Chart View, to focus in on a specific sub-tree of the resource hierarchy. Top node selections apply only to that page view session, and are not permanent.

Dashboard Log Widget

IM - 3123: Added a new "Logs" Widget option to the Dashboard.

The Logs Dashboard Widget displays the most recent 'x' number of logs for a specified search term, such as resource name, task, id number, username, and so forth.

Logs				
Time	User	IP	Log level	Message
06/04/2020 21:05	ops@6connect.com	96.35.59.123	Informational	Backup via curl complete: {"success":1,"message":"Backup upload sucessful."}
03/03/2020 14:28	daemon	localhost	Informational	State ID: dns-1583267309 Resource ID: 15321 : Executing backup of the current zones...
03/03/2020 14:22	daemon	localhost	Informational	State ID: dns-1583266923 Resource ID: 15321 : Executing backup of the current zones...
02/27/2020 05:06	daemon	localhost	Informational	State ID: 111 Resource ID: 15321 : Executing backup of the current zones...
02/27/2020 04:51	daemon	localhost	Informational	State ID: 111 Resource ID: 15321 : Executing backup of the current zones...
02/27/2020 04:47	daemon	localhost	Informational	State ID: 111 Resource ID: 15321 : Executing backup of the current zones...
02/27/2020 04:40	daemon	localhost	Informational	State ID: 111 Resource ID: 15321 : Executing backup of the current zones...
02/27/2020 04:39	daemon	localhost	Informational	State ID: dns-1582799951 Resource ID: 15321 : Executing backup of the current zones...
02/27/2020 04:32	daemon	localhost	Informational	State ID: dns-1582799569 Resource ID: 15321 : Executing the backup of the current zones...
02/27/2020 04:09	daemon	localhost	Informational	State ID: dns-1582798153 Resource ID: 15321 : Executing the backup of the current zones...

Once the Logs Widget has been added to a Dashboard, edit it by clicking the wrench icon in the upper right side of the Widget.

In the Edit menu, you may edit the Logs Widget name, enter a search term, select number of results to display, and select a log level to filter results by.

Logs

Title

Logs

Resource ID/search term :

backup

Limit results to :

10

Log level :

All levels

Cancel

Apply

When complete, click "Apply" to save your changes.

For information on how to add the Logs Widget to the Dashboard, see [Customizing the Dashboard](#).

For additional information on this and other Widgets, see [Working with Dashboard Widgets](#).

Logging Improvements

A number of minor improvements and fixes have been made to logging:

IM - 2617: "Logging" links from tab dropdown menus now automatically filter the Log Tab results to that category.

IM - 3732: Minor UI updates have been made to the Admin Logs page.

IM - 3800: Added log events for updates made to the Field Gadget.

IM - 3801: Overzealous logging of session timeouts have been removed.

IM - 3803: Log events indicating missing field types have been fixed by adding a field repair tool to the upgrade script (tools/verify_fields.php).

IM - 3807: Failed API Authentication attempts now create a log event.

IM - 3808: Added missing values for the "time" attribute in remote Syslog responses.

Bug Fixes/Minor Improvements

CFR - 159: Resource Report now includes filters to show linked resources (checkbox options) and search by attribute.

CFR - 161: Added partial search by phrase / term in field to Reporting resource reports.

IM - 1806: Added Host Count and sort options to IPAM Reporting.

IM - 2491: Updated the UI and page notification that occurs when a user logs in with no group permissions.

IM - 2792: Updated static resource dropdown selectors to a more user-friendly searchable/filterable selector menu.

IM - 3042: Updated IPAM Columns Mask/Host Count fields to correctly display Mask and Host Count, respectively.

IM - 3210: Minor UI adjustments made to the save button style and location in DNS Groups Default Group Parameters and Catalog Zone Settings.

IM - 3262: Updated the permissions handling of all pages to recognize Groups containing Admin access on TLR as having equal permissions to Global Admins.

IM - 3362: Added the ability to clear inputs ("x"s) when using DNS Record List page filters.

IM - 3363: Disabled the "Save Changes" button in DNS Edit ACLs, until savable changes have been entered.

IM - 3374: Scheduler page now correctly displays for TLR Admin users in Groups other than Global Admin.

IM - 3559: Updated information and style of scheduler notification emails to better coordinate with eachother.

IM - 3583: Limited permission users may now view Reporting v2 (but may not perform admin-level report actions)

IM - 3584: Restricted Field Gadget Add/Edit field actions for read-only users.

IM - 3620: Restricted access to VLAN Add/Delete/Update actions for read-only users.

IM - 3628: Updated style of pagination controls in Reporting Resource Reports.

IM - 3646: Relocated the "Loading" image to a more visible location in VLAN Add Domain / Add VLAN.

IM - 3656: Added the ability to remove a single VLAN for a block via an "x" clear-field option.

IM - 3657: Added the ability to remove VLANs for multiple blocks at a time via multiple block edit in IPAM Manage.

IM - 3659: VLAN Sidebar Quicknav now correctly works when navigating from a page other than the first Domain page.

IM - 3661: Resolved an issue preventing VLAN Metadata from being saved if no IP blocks were assigned to the VLAN.

IM - 3663: Removed the automatic display of the VLAN Advanced filter flyout when opening Domain Manage.

IM - 3687: Shortened the filter flyout in IPAM/VLAN Manage so that it can no longer overlap pagination.

IM - 3699: Removed an extra DNS Zone Restore button that would appear in DNS Zone Backup if multiple pages of records existed.

IM - 3707: Resolved a display error that would occur in the "IPAM Stats" dashboard widget Total Available 1918 Hosts field if multiple IPAM Stats widgets existed.

IM - 3708: Added the ability to add a new IPAM region, if all other regions were deleted.

IM - 3711: Clone Resource now correctly handles resource names that contain apostrophes.

IM - 3715: Updated Permissions to better handle caching of group permissions when a user is assigned to more than one Group.

IM - 3717: Resolved an IPAM search error that would load unrelated IP blocks when expanding search results via the "Load More" link.

IM - 3761: Updated user permissions to identify an Admin user as any user in a Group with "Admin" permissions on the TLR resource, instead of only users in the "Global Admin" Group.

IM - 3785: Resolved an issue in IPAM Manage where LIR changes would not propagate to children.

IM - 3788: Updated treeview to limit returned blocks to 8000 IPv4/IPv6 blocks, to prevent browser loading issues.

IM - 3793: The "Email" field once again displays in the Contact Gadget.

IM - 3794: Updated the IPAM gadget to no longer treat in-gadget links as an iframe module.

IM - 3810: IPAM Manage Multi-select Edit now supports bulk enable/disable of the the "Important" flag for blocks.

IM - 3811: All IPAM Column display name changes now correctly update in IPAM Manage filters.

IM - 3812: IPAM Aggregate "Merge" no longer requires a page refresh between consecutive merge attempts.

IM - 3814: Improved search handling of numeric-only search terms.

IM - 3816: Resolved an issue where searching for /32 blocks and following the resulting CIDR link does would not display the block in IPAM Manage.

IM - 3819: Updated error messaging in IPAM Manage when filtering by a single mask.