

ProVision 8.2.0

ProVision 8.2.0

ProVision 8.2.0 is a major release with new features, improvements and bug fixes.

Major Features and Improvements in this release:

- ProVision 8.2.0
- New Features
 - DHCP Managed Servers
 - Additional Features
 - Updated Edit Section
 - Additional Features
 - IPAM Alerts Management
 - Additional Features / Improvements
 - Admin Log Improvements
 - DHCP Improvements
 - Additional Features
 - IPAM Gadget
 - Admin Manual Backup
 - Peering Maintenance Email
 - (8.1.1 Peering Update)
- API Updates
- Bug Fixes/Minor Improvements

Schedule a demo or get more information [here](#).

New Features

DHCP Managed Servers

CFR - 232: Added a native ProVision system for DHCP Managed Servers, that includes VM creation, monitoring, and server management.

The Managed Servers tab allows for DHCP servers to be created, installed, managed, and monitored from within ProVision.

The screenshot displays the 'Managed Servers' interface. At the top right, there is an 'Add Server' button. Below it, a blue header bar contains the text 'Managed Servers'. The main content area features a 'Managed Servers List' with a 'Refresh Table' icon and a search box labeled 'Search by name...'. The table has columns for 'Server Name', 'Requests (2 min)', 'DNS', 'Monitor', 'DHCP', and 'State'. Two rows are visible: 'CentOS' with '0 requests' (red bar) and 'Stopped' state, and 'Ubuntu 22.04 - 128 1' with '4 requests' (green bar) and 'Running' state. Below the table, it says 'Displaying 1 to 2 of 2 items.' and includes 'Previous', '1', and 'Next' navigation buttons.

Server Name	Requests (2 min)	DNS	Monitor	DHCP	State
CentOS	0 requests	-	-	-	Stopped
Ubuntu 22.04 - 128 1	4 requests	v0.21	v0.20	IPv4: v0.13 - IPv6:	Running

Managed Servers has been updated with DHCP support, including the same features that were available for DNS Managed Servers. When creating a new managed server, you may select to create as DNS, DHCP, or both.

Additional Features

Sub-features of DHCP Managed Servers include:

- Ability to create and install DHCP VMs from either the command line or ProVision GUI
- Managed Server Monitoring
- Data Retention settings

Updated Edit Section

IM - 4263: Improved the usability, access, and organization of the Edit Section page, and its interaction with Fields and the Fields Gadget.

Edit Section has been reorganized into three tabs: "Basic Information", to perform quick edits to the section name or category, "Manage Fields" to update or assign fields to the section, and "Manage Gadgets" to add, edit, relocate, or remove gadgets associated with the section.

In addition, expansive improvements have been made to fields including field search, improved reuse, and the ability to auto-add a field to the Fields Gadget by default for that section.

Note: To improve data integrity, protected System Fields (starting with "6c-") are no longer available to add to sections. Previously added system fields have been duplicated and converted to custom fields.

Edit Section

Basic Information
Manage Fields **7**
Manage Gadgets **1**

Add fields to Section by selecting fields from the left lists to the right side list. It is preferable to reuse existing fields in catalog whenever possible to improve pattern matching between resources. Fields grayed out in the catalog have already been assigned. The fields you add will be placed at the beginning of the right list, then you can preview or edit field attributes on the edit view. Save to persist changes.

Catalog ⌵

Filter...

Show Custom fields only

- 2nd Email (2nd-email-6832-733579)
+
- 2nd Phone (2nd-phone-6834-733579)
+
- A Side Interface (a-side-interface-9313-3315532)
+
- A Side Router (a-side-router-9312-3315532)
+
- Abuse POC (abuse-poc-9306-3315532)
+
- Admin Contact (admin-contact-9301-3315532)
+
- Admin POC (admin-poc-9304-3315532)
+
- API Key (api-key-9298-3315532)
+
- AS-Name (as-name-6848-733579)
+
- AS-Name (as-name-6857-733579)
+
- ASN (asn-9297-3315532)
+
- Asset Tag (asset-tag-8580-2259455)
+
- Asset Tag (asset-tag-9288-3315532)
+
- Carrier (carrier-9309-3315532)
+
- Cat Colors (cat-colors-9643-3380493)
+
- Checkboxes (no-slug)
+
- Checkboxes 1 (checkboxes-1-7225-1056510)
+
- Choice Box (no-slug)
+
- Choice Box 1 (choice-box-1-7216-1009837)
+

Assigned Fields ⌵

Phone Main (phone-main-6802-733579) ✎ 🗑

Default on Gadget

Type a value...

Organization ID (organization-id-6822-733579) ✎ 🗑

Default on Gadget

Type a value...

Username (username-6844-733579) ✎ 🗑

Default on Gadget

Type a value...

Company Name (company-name-6801-733579) ✎ 🗑

Default on Gadget

Type a value...

Model (model-6839-733579) ✎ 🗑

Default on Gadget

7600 Series

Make (make-6838-733579) ✎ 🗑

Default on Gadget

Arista

Operating System (operating-system-7594-1535294) ✎ 🗑

Default on Gadget

Type a value...
OS

Delete

Preview Form
Cancel
Save

Additional Features

Sub-features include:

- CFR - 274: Auto field enabling: Allows users to choose which fields are available in the Fields Gadget by default for all section entries.
- IM - 4799: Added method to access Edit Section from Resource List filter panel.
- IM - 4918: Field Catalog: Limited available fields to custom user created fields.

Section Edit:

Users can now access the edit screen from a section's entry list. Open the filter panel at top and click the link at the bottom of the panel.

Resources Entries Sections Categories Contacts Customers ... Add Entry Clone Settings ⚙

Resource list 1

Entries export ▾ chart view hide filters 2 - Items per page 100 ▾ Search by name... Q match name

Section: Some New Section x ▾ Category: Select a category... ▾ Resource Type: Entry x ▾

Parent: Select a parent... ▾ Attribute name: name... ▾ Attribute Value: value... ▾

🔗 Edit Some New Section section here ←

<input type="checkbox"/>	Id	↕ Slug	↕ Name	↕ Parent Id	↕ Parent Name	↕ Category Id	↕ Category Name	↕ Created
<input type="checkbox"/>	7603	qa-test-resource-8-76...	QA Test Resource 8	7021	QA Test Resource 2	-	-	2022-12-02 16

Customizing Sections:

The Basic Information tab allows users to edit a Section name or Category. Click "Save" to retain any changes.

Resources / Sections / Some New Section / Edit

Edit Section

Basic Information Manage Fields 0 Manage Gadgets 1

Edit basic section information.

Common settings

Name* Some New Section ←

Change the section name

Category QA Test Category ←

Add section to category

* Indicates required fields

Delete Cancel Save

The Manage Fields tab is where users designate fields that will be available in the Field Gadget. Users can also enable chosen fields be added to the gadget by default, making data standardization for resources easier.

To search for a specific field, type a field name into the searchbox. Fields already added to the section are shaded grey. You may add duplicate fields to a section, but this is discouraged and a confirmation message will prompt you to confirm that you wish to add the duplicate field. To add a field to a section, click on the + icon and it will be added at the top of the "Assigned Fields" section. To remove a field, click the delete (trash can) icon.

Edit Section

Basic Information | **Manage Fields 4** | Manage Gadgets 1

Add fields to Section by selecting fields from the left lists to the right side list. It is preferable to reuse existing fields in catalog whenever possible to improves pattern matching between resources. Fields grayed out in the catalog have already been assigned. The fields you add will be placed at the beginning of the right list, then you can preview or edit field attributes on the edit view. Save to persist changes.

Catalog

name

Show Custom fields only

- AS-Name (as-name-6848-733579)
- AS-Name (as-name-6857-733579)
- Company Name (company-name-6801-733579)
- domain-Name (domain-name-6854-733579)
- First name (first-name-6787-626784)
- First Name (first-name-6829-733579)
- Last name (last-name-6786-626784)
- Last Name (last-name-6830-733579)
- Net Name Prefix (net-name-prefix-9307-3315532)
- Username (username-6844-733579)
- VLAN-Name (vlan-name-6851-733579)

Assigned Fields

- Company Name (company-name-6801-733579)
Type a value...
- Model (model-6839-733579)
7600 Series
- Make (make-6838-733579)
Arista
- Operating System (operating-system-7594-1535294)
Type a value...
OS

Users can add custom fields of various types (text input, text area, choice box, radios, checkbox, encrypted data, date input) to a section. To view only unedited custom fields, enable the toggle below the search box.

Edit Section

Basic Information | **Manage Fields 4** | Manage Gadgets 1

Add fields to Section by selecting fields from the left lists to the right side list. It is preferable to reuse existing fields in catalog whenever possible to improves pattern matching between resources. Fields grayed out in the catalog have already been assigned. The fields you add will be placed at the beginning of the right list, then you can preview or edit field attributes on the edit view. Save to persist changes.

Catalog

Filter...

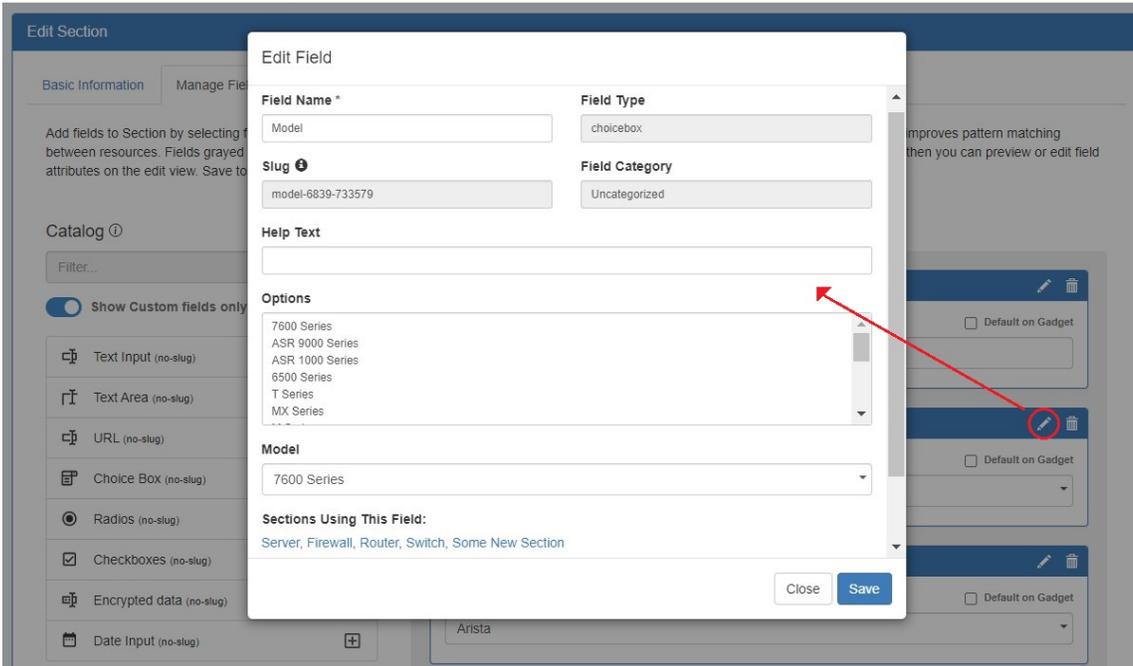
Show Custom fields only

- Text Input (no-slug)
- Text Area (no-slug)
- URL (no-slug)
- Choice Box (no-slug)
- Radios (no-slug)
- Checkboxes (no-slug)
- Encrypted data (no-slug)
- Date Input (no-slug)

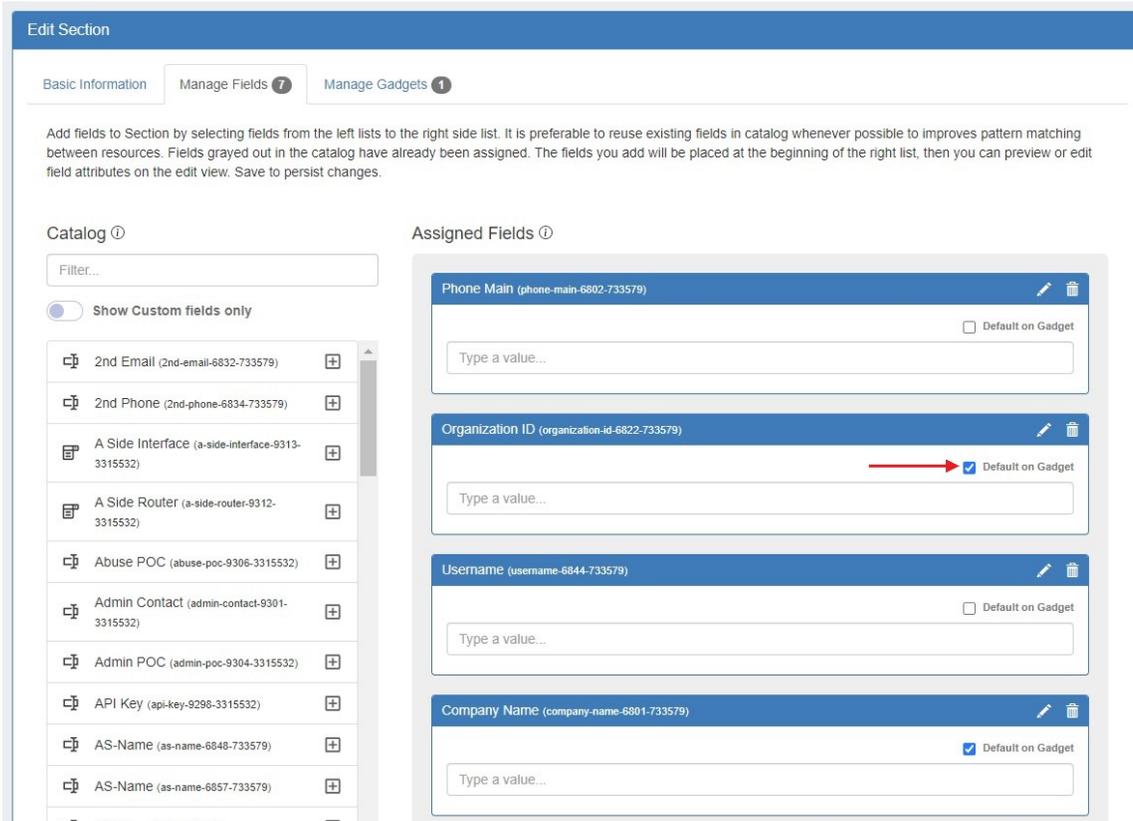
Assigned Fields

- Company Name (company-name-6801-733579)
Type a value...
- Model (model-6839-733579)
7600 Series
- Make (make-6838-733579)
Arista
- Operating System (operating-system-7594-1535294)
Type a value...
OS

Once fields are added to a section, they may be renamed and have other attributes updated by clicking on the edit icon.



To designate a field be added to the Field Gadget by default, select the checkbox "Default on Gadget".



The fields will be added to the Field Gadget for every resource assigned to the section. Default fields cannot be deleted from the Field Gadget.

Non-default fields will be available to add to the gadget on a per resource basis.

The Manage Gadgets tab allows users to add, edit, relocate, or remove gadgets associated with the section. Simply select the gadget you want to show for that section and hit "Add Gadget".

The "Save" function for each tab works independently. If you add or remove fields in the "Manage Fields" tab, then move to the "Manage Gadgets" tab to add or remove gadgets, and then save from there your field changes will not be saved. You must save from each tab to retain changes to each area.

IPAM Alerts Management

IM - 3282: Module to view and manage all currently set IPAM alerts.

Users can set IPAM alerts from the Alerts Management page as well as view alerts set from IPAM Manage Aggregate.

Settings IPAM Admin Data Import Users API Scheduler Scanning Log Approvals Constraints Exit Admin Search... [User Icon]

Alerts Management Add alert

Active Alerts 3

IPAM Alerts items per page 50 Search by CIDR [Q]

<input type="checkbox"/>	⇅ CIDR	⇅ ID	Recipient Email	Availability alert	Assigned	Options
<input type="checkbox"/>	10.2.0.0/24	109923		10%	0%	Edit Remove
<input type="checkbox"/>	63.251.0.0/21	16325		2%	86%	Edit Remove
<input type="checkbox"/>	1006.4567.:/32	108323		3%	0%	Edit Remove

Displaying 1 to 3 of 3 items.

Previous 1 Next

Creating an IPAM Alert:

To access Alerts Management from the Admin section, select "Alerts Management" from the IPAM Admin tab dropdown menu or IPAM Management page.

To create a new alert, click "Add Alert" at upper right.

Alerts Management Add alert

Active Alerts 3

IPAM Alerts items per page 50 Search by CIDR [Q]

<input type="checkbox"/>	⇅ CIDR	⇅ ID	Recipient Email	Availability alert	Assigned	Options
<input type="checkbox"/>	10.2.0.0/24	109923	@6connect.com	10%	0%	Edit Remove
<input type="checkbox"/>	63.251.0.0/21	16325	@6connect.com	2%	86%	Edit Remove
<input type="checkbox"/>	1006.4567.:/32	108323	@6connect.com	3%	0%	Edit Remove

Displaying 1 to 3 of 3 items.

Previous 1 Next

Select an aggregate or IP block from the dropdown and enter an email address and level for the alert. Click "Save Alert" to save or clear to start over.

Add alert ✕

Search for addresses

10.0.0.0/24 - APNIC ✕ ▼

Used space: 13% ALERT LEVEL

Write a value for the alert level.

Alert configuration

Send an alert email when available space falls below a specified level.

Email

username@your_domain.com ←

Level (%)

Type a percentage number ←

Clear Cancel Save Alert

To edit an existing alert, click the "Edit" button in the Options column. You can then edit the email and alert level.

Active Alerts 3

IPAM Alerts items per page 50 Q

<input type="checkbox"/>	⇅ CIDR	⇅ ID	Recipient Email	Availability alert	Assigned	Options
<input type="checkbox"/>	10.2.0.0/24	109923	@6connect.com	10%	0%	Edit Remove
<input type="checkbox"/>	63.251.0.0/21	16325	@6connect.com	2%	86%	Edit Remove
<input type="checkbox"/>	1006.4567.:/32	108323	@6connect.com	3%	0%	Edit Remove

Displaying 1 to 3 of 3 items.

Previous 1 Next

To remove a single alert, click the "Remove" button in the Options column.

Alerts Management Add alert

Active Alerts 3

IPAM Alerts items per page 50 Search by CIDR

<input type="checkbox"/>	⇅ CIDR	⇅ ID	Recipient Email	Availability alert	Assigned	Options
<input type="checkbox"/>	10.2.0.0/24	109923	@6connect.com	10%	0%	Edit Remove
<input type="checkbox"/>	63.251.0.0/21	16325	@6connect.com	2%	86%	Edit Remove
<input type="checkbox"/>	1006.4567./32	108323	@6connect.com	3%	0%	Edit Remove

Displaying 1 to 3 of 3 items.

Previous 1 Next

To remove multiple alerts, select one or more via the checkboxes on the left and select "Delete all" from the action menu in the top bar.

Active Alerts 3

IPAM Alerts Selected 3 items Actions items per page 50 Search by CIDR

<input type="checkbox"/>	⇅ CIDR	ID	Recipient Email	Availability alert	Assigned	Options
<input checked="" type="checkbox"/>	63.251.0.0/21	16325	@6connect.com	2%	86%	Edit Remove
<input checked="" type="checkbox"/>	10.2.0.0/24	109923	@6connect.com	10%	0%	Edit Remove
<input checked="" type="checkbox"/>	1006.4567./32	108323	@6connect.com	3%	0%	Edit Remove

Displaying 1 to 3 of 3 items.

Previous 1 Next

Additional Features / Improvements

Admin Log Improvements

IM - 4859, IM - 4900: UI update and expanded view options to improve usability.

The Logs page has been redesigned for improved filtering and general usability. Filter are now accessed via the "Filters" button at upper right.

Settings IPAM Admin Data Import Users API Scheduler Scanning Log Approvals Constraints Exit Admin

Search...

Logs

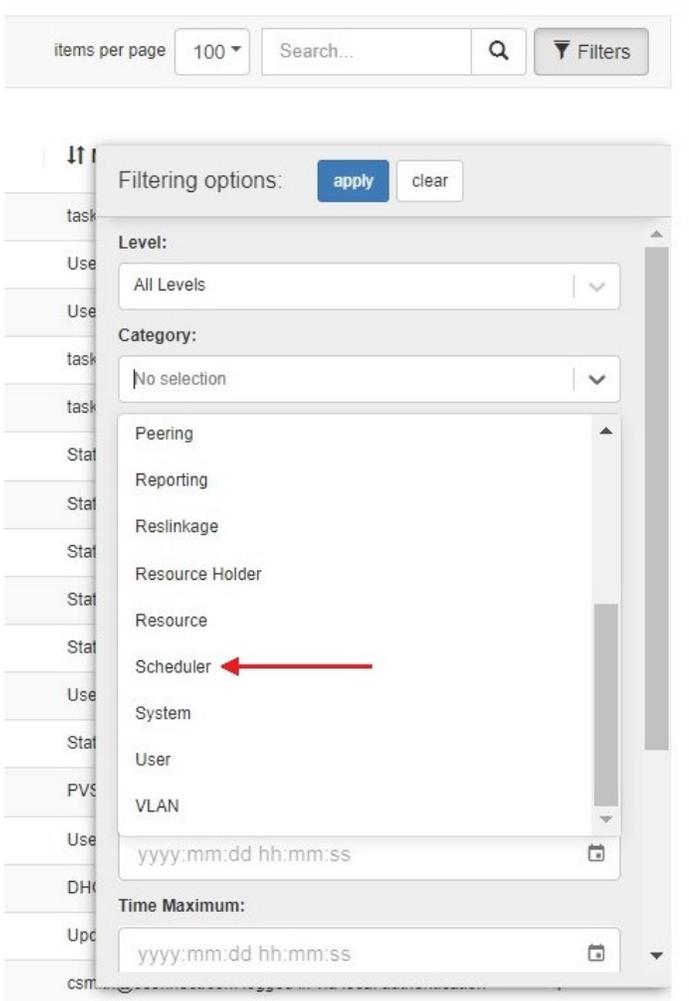
Results 7321

Options Visual mode Export to CSV Items per page 100 Search... Filters

Time	User	IP	Level	Category	Message	Options
2023-01-06 19:40:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 19:30:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 19:20:01	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 19:10:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 19:00:03	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 18:50:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 18:40:03	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 18:30:03	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 18:20:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 18:10:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 18:00:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 17:50:03	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 17:40:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 17:30:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 17:20:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	
2023-01-06 17:10:02	daemon	localhost	info	Scheduler	task_id=3 task=IPAM Alerts action=finished message=0 alert sent	

IM - 4617: Added separate cron task category.

The "Scheduler" category allows filtering of automated cron tasks.



IM - 4842: Updated clock picker filter.

DHCP Improvements

IM - 4883: Added DHCP Classes support with integrated matching templates.

Dashboard Resources DNS DHCP Servers IPAM Peering Reporting Settings Help Search...

DHCP DHCP Groups DHCP Servers DHCP Pools DHCP Classes DHCP Logging

DHCP Class List [Add Class](#)

Class Name	Class Match	IP Type	Parent Resource	Actions
CiscoRouters	none	IPv4	TLR	Delete Perms
JuniperRouters	none	IPv6	TLR	Delete Perms
TestClass	genericoptions	IPv4	TLR	Delete Perms

Additional Features

DHCP Options support for both DHCPv4 and DHCPv6 and added additional option definitions.

DHCP Multiple Ranges Support (with options per range).

DHCP Reservations support for different identifier types (Mac Address, DUID, Client Id, Circuit ID, Flex ID (Kea)).

DHCP Reservations now reserve also the subnet from the IPAM and support Options per reservation.

IM - 4884: Improvements to DHCP Reservations, Subnets, and session handling to prevent replication issues.

IPAM Gadget

CFR - 285: Expanded sub-assignable block suggestions to IPAM Gadget Smart Browse.

Sub-assignable blocks suggestions

No matching block found. Here is a list of Resources with suitable blocks that are sub-assignable.

Resource	actions
London Metro Area - 95.172.94.0/24	Use this resource
Amsterdam Metro Area - 77.242.206.0/23	Use this resource
Frankfurt Metro Area - 95.172.69.0/24	Use this resource
Paris Metro Area - 77.242.203.0/24	Use this resource
LON003 - 95.172.77.128/25	Use this resource
hosttest4 - 31.186.242.96/27	Use this resource

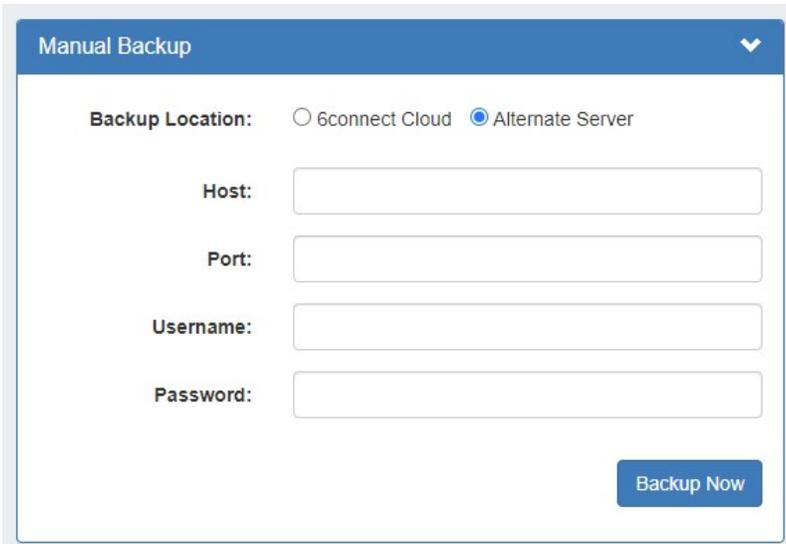
[Close](#)

If no available blocks are found meeting the Smart Assign filter conditions, but one or more subassignable blocks are found, a modal will inform the user and suggest resources with allocations that meet that criteria. To assign the suggested block, simply click "Use this resource".

Admin Manual Backup

IM - 5029: Simplified "Alternate Server" backup option.

Users can now enter credentials for a specific server to use for backups. Enter Host, Port, Username, and Password info and click "Backup Now".



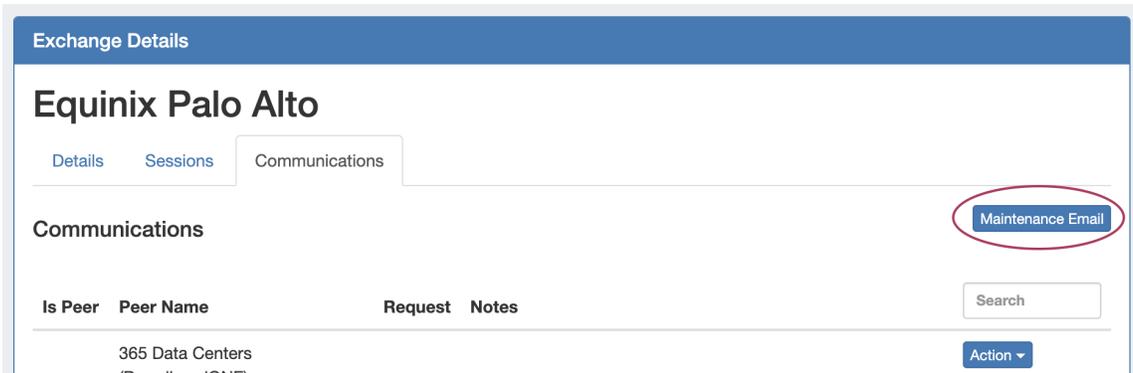
The image shows a 'Manual Backup' form with a blue header. Below the header, there are two radio buttons for 'Backup Location': '6connect Cloud' (unselected) and 'Alternate Server' (selected). Below this are four text input fields labeled 'Host:', 'Port:', 'Username:', and 'Password:'. At the bottom right of the form is a blue button labeled 'Backup Now'.

Peering Maintenance Email

(8.1.1 Peering Update)

IM - 4851: Added the ability to bulk send a Maintenance Email to Peers

Peering now allows you to send a mass Maintenance Email to all Peers from a single form.



The image shows the 'Exchange Details' page for 'Equinix Palo Alto'. The 'Communications' tab is selected. A blue button labeled 'Maintenance Email' is circled in red. Below the button is a table with columns 'Is Peer', 'Peer Name', 'Request', and 'Notes'. The table contains one row with the text '365 Data Centers (BroadbandONE)'. To the right of the table is a search box and an 'Action' dropdown menu.

Go to 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.

ng Settings Help

Send Email

From: Operations <ops+pdb@6connect.com>

Subject:

Body:

To:

- Marked as Peer
- Has session
- Both

Send Cancel

Co. Ltd.(IIG)

API Updates

Public APIv2 documentation is located at <https://cloud.6connect.com/APIv2/>.

CFR - 232: Expanded "pvsservers" endpoints to add:

- /pvsservers/services: List the services
- /pvsservers/addRoutinatorService: Add Routinator Service to Managed Server

IM - 4793: Added an endpoint to expand IPAM "Move" block function to child blocks.

IM - 4848: Expanded GET aggregate call to include aggregate utilization stats.

IM - 4849: Added ability to filter by permissions to POST /resources/query endpoint.

Bug Fixes/Minor Improvements

CFR - 282: Added ability to set an IPAM Alert when breaking down IP space for a Smart Assign Template.

CFR - 283: Altered Approval actions naming conventions for clarity.

IM - 530: Added Date Input custom field to Resources Section Edit field catalog.

IM - 3422: Added SSL support for database connections.

IM - 4364: Added ability to add users to or remove users from a User Group via the Group Details page.

IM - 4554: Scheduler MySQL Replication Monitor task automatically created when Admin setting is enabled.

IM - 4587: Improved Dashboard IP Aggregate Widget handling of multiple chart sizes and multiple widgets.

IM - 4595: Disallowed enabling "Allow sub assignments" toggle when creating a new aggregate until a resource is selected.

IM - 4608: Scheduler "Remove Old PHP Sessions" task is now automatically created and managed in the system, and has been removed from the scheduler task list.

IM - 4722: Fixed VLAN Advanced "Domain" and VLAN Name" column sorting.

IM - 4805: Updated History Gadget UI to more closely match Admin Log page.

IM - 4861: Updated IPAM grid chart assign to new resource modal "Parent" field that was static to a selectable dropdown.

IM - 4866: Removed redundant "VLAN" filter field from VLAN Manage page.

IM - 4872: Added "propagate to children" option to IPAM "Move" modal.

IM - 4873: Improved mask validation and error messaging when adding a Meta IPv6 Numbering Authority domain.

IM - 4881: Updated Peering routers SSH connectors.

IM - 3882: Updated Peering request handling, including the option for local customers to self-managed their DB or opt to use Peering DB's API via a scheduler sync task.

IM - 4889: Resolved inconsistency in Peer Group naming validation between Peering and Peer Groups Gadget.

IM - 4891: Fixed issue with that resulted in error when creating a new "Resource Entry" constraint.

IM - 4892: Removed deprecated CLI (Alpha) shell element that caused UI issues in Safari browser.

IM - 4893: Removed Reporting Activity reports tab from view for non-Admin users.

IM - 4894: Changed "User Activity" Reporting tab and report type to "Activity".

IM - 4896: Fixed issue with Reporting "Custom" permission settings not loading in report Actions panel.

IM - 4899: Made Holding Tank "pending" blocks a lighter font color to more easily differentiate from active blocks.

IM - 4901: Fixed issue with obfuscated values in Admin Logs.

IM - 4903: Removed required Router field when adding a new VLAN.

IM - 4910: Corrected issue with DNS dynamic update process that added a template record when deleting a duplicate record.

IM - 4911: Improved handling of dynamic updates prior to zone TSIG relationship.

IM - 4912: Added SOA DDNS support to DNSv3.

IM - 4913: Improved logging of Dark Mode user preference.

IM - 4915: Fixed error when adding first new Radius server, minor UI improvement when adding new server.

IM - 4916: Resolved inconsistent handling of Resources "password" field input types.

IM - 4919: Added "Category" column to History Gadget.

IM - 4923: Standardized listing order of Approval actions within each family of actions.

IM - 4925: Fixed IPAM Tags page that limited viewing to 40 tags.

IM - 4928: DNS Autogenerator Gadget updated to directly prompt for hostname.

IM - 4930: Resolved several issues with DNS/DHCP servers related to linked groups; saving new server without default group resulted in error, linked groups did not save to new server, unlinking all groups from existing server did not save.

IM - 4931: Corrected some minor UI issues in Smart Assign Templates; filter conditions were not properly retained when editing a template and mask display was made more consistent with IPAM gadget filters.

IM - 4932: Fixed issue with Smart Assign Templates Domain and VLAN filters that resulted in error.

IM - 4933: Restricted field delete to the field view page.

IM - 4937: Added Smart Assign Templates and Alerts Management links to IPAM Admin page.

IM - 4939: Fixed Reporting "Share with Users" selector that was limited to 50 users.

IM - 4940: UI updates to "Add Aggregate" page, including "Back" and "Clear" buttons and a link to open newly created aggregate.

IM - 4942: Fixed DHCP Add Server "Parent" selector that did not load resources.

IM - 4944: Fixed IPAM Advanced "Masks" filter that repeated several times.

IM - 4947: Fixed Resource List column sorts that errored when no filters were applied.

IM - 4950: Updated label text on Managed Servers page.

IM - 4952: Improved validation for Resource List "Edit" modal that displayed success messages when no changes were saved and fixed Category field that was not clearable.

IM - 4953: Improved Resource View Gadget validation and messaging and fixed Category field that was not clearable.

IM - 4955: Added visual processing indicator to Managed Servers "Test Connection" button.

IM - 4956: Added informational text to Managed Servers "Add Server" page to indicate required steps.

IM - 4958: Fixed issue with Resource List Customer subtab filters.

IM - 4959: Disabled delete for required system resources.

IM - 4960: Resolved issue with Resource List multi-select that reset "Parent" selector of all selected resources to TLR.

IM - 4961: Fixed Resource List filters that did not return results from any except first page of list.

IM - 4962: Fixed Resource Chart View that errored when certain resources were set as the top node.

IM - 4973: Updated Admin Managed Server Settings test responses to standard formats.

IM - 4974: Fixed issue when adding an Enumeration constraint that failed to save UI binding options.

IM - 4975: Fixed error when multi-deleting Enumeration constraint child elements.

IM - 4987: Resolved Contacts Gadget viewing issues for limited permissions users.

IM - 4992: Fixed unresponsive encrypted data fields in Resource List "Edit Fields" modal.

IM - 4994: Fixed "Maintainer Password" field that was not decodable in Field Gadget and did not display correctly in "Edit Fields" modal.

IM - 4996: Fixed IPAM Gadget Smart Browse that did not respect Domain and VLAN filters.

IM - 4999: Updated IPAM Gadget action menu "Assign" option "Create and Assign" modal parent dropdown selector.

IM - 5002: Removed obsolete router field from Edit Domain panel and router column and filter from Domain Manage page.

IM - 5005: Fixed IPAM Utilization Report Resource filter field that was not returning results for multiple resources.

IM - 5018: Removed Pending Approvals module from DHCP "Add Server" page.

IM - 5019: Updated Dashboard IP Charts Widgets with improved mask selection options

IM - 5020: Fixed IPAM Gadget edit after assign link that was caching old data.

IM - 5024: Resolved issue with Direct Assign block suggestion parameters that resulted in a smaller block than requested being suggested.

IM - 5025: Fixed Smart Assign Templates conflict with IPAM block tree that resulted in disconnected parent/child blocks displayed in tree.

IM - 5026: Fixed Log page searchbox that was cleared when filters were cleared.

IM - 5031: Corrected display of IPAM Manage multi-select constraints that had no visual indicator that a constraint was applied.

IM - 5034: Corrected display of encrypted data fields in Resources Chart View "Quick View" modal.

IM - 5035: Fixed DNS issue that resulted in exported zone files being pushed to KNOT master and slave servers instead of only the master server.