

Approval Permission Groups

Approvals Permission Groups

The screenshot shows the IPAM Admin interface with the 'Approvals' tab selected. Under 'Approvals', the 'Permission Groups' subtab is active. The interface displays a table of permission groups with columns for Name, Enabled status, Users count, Last update, and Actions. There are 7 groups listed. A search bar 'Filter by group...' is located at the top right of the table.

Name	Enabled	Users	Last update	Actions
Global Admins	yes	3	2013-Aug-06 22:27:05	assign
Global Read-Only	yes	0	2013-Aug-06 22:27:05	assign
Approver Group	yes	2	2021-Sep-22 08:14:38	assign
Approver Admin Group	yes	2	2021-Sep-22 08:29:18	assign
Limited 1 - QA Test Resource	yes	1	2021-Oct-05 17:07:36	assign

The **Approvals** Tab **Permission Groups** subtab is where admins may view and manage assignments, actions, and settings for Approvals permission groups.

Currently, **Approvals** is available only for **DNS / DHCP** related actions, while we gather feedback and use cases to inform possible future updates. If you are interested in providing feedback, a use case, or requests for future additions to the Approvals system, please contact feedback@6connect.com.

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Permission Groups - Overview

The **Permission Groups** sub-tab contains areas to manage a User Group's level of approval permissions ("Policy"), and on what actions they apply. By default, all existing User Groups are displayed under Approvals - Permission Groups. However, you may assign Approval policies to few or as many of the groups as you want.

There are two tabs available under Permission Groups - **Groups** and **Actions**. Both tabs provide similar levels of functionality to view and assign policies, but they differ in organization.

Use the **Groups** tab view if you want to:

- Assign a policy to a specific group that includes multiple action types
- View, edit, or remove the policies associated with any or all action types for a group
- Enable/disable a group's Notification setting

Use the **Actions** tab view if you want to:

- View how many or what groups are assigned policies for a specific action type
- Want to confirm that an action type has group assignments covering both the "Submit" and "Approve" policies
- View, edit, or remove policies associated with a specific action family or action type
- Assign a single policy to a one or more groups for a specific family-action type

Before using the functions available from the **Permission Groups** page, you may wish to review the [Approvals](#) documentation page for information on best practices for setting up User Groups for use with Approvals, policy definitions, and workflows.

Groups

In the **Groups** tab, each User Group is listed with details on the status, number of users, and last updated time.

Name	Enabled	Users	Last update	Actions
Global Admins	yes	3	2013-Aug-06 22:27:05	assign
Global Read-Only	yes	0	2013-Aug-06 22:27:05	assign
Approver Group	yes	2	2021-Sep-22 08:14:38	assign
Approver Admin Group	yes	2	2021-Sep-22 08:29:18	assign
Limited 1 - QA Test Resource	yes	1	2021-Oct-05 17:07:36	assign
Deny Action Group	yes	1	2021-Nov-09 11:29:28	assign
Approver Admin Group 2	yes	0	2021-Nov-22 20:39:36	assign

From here, you may either click on "Assign" to assign action policies to the Group, or view/edit existing settings by clicking on the Group Name to open the Group Details page.

Group Assignment (Assign Button)

Clicking the "Assign" button for a group brings up a checklist to select one or more actions to apply a policy to for that Group.

Group Assignment: **QA Test Group 1**

Select one or more items from the checklist to apply a change policy to this Group.

Family/Action

▼ ☐ DNS Zones

- ☒ DNS Zone Add **Submit Action**
- ☒ DNS Zone Update **Submit Action**
- ☒ DNS Zone Delete **Deny Action**
- ☒ DNS Zone Push **Submit Action**
- ☒ DNS Zone Change Group **Submit Action**

▼ ☐ DNS Groups

- ☐ DNS Group Add
- ☐ DNS Group Update

Policy

Select a policy ▼

Assign **Close**

Select a policy, select one or more Family/Actions to apply the policy to, and then click "Assign".

If there are policies already assigned to a group, these checkboxes are preselected and the policy assigned to each is shown next to the action. To change a policy for a specific action, choose a new policy from the dropdown.

Group Assignment: **QA Test Group 1**

Select one or more items from the checklist to apply a change policy to this Group.

Family/Action

▼ ☐ DNS Zones

- ☒ DNS Zone Add **Submit Action**
- ☒ DNS Zone Update **Submit Action**
- ☐ DNS Zone Delete **Deny Action**
- ☒ DNS Zone Push **Submit Action**
- ☒ DNS Zone Change Group **Submit Action**

▼ ☐ DNS Groups

- ☐ DNS Group Add
- ☐ DNS Group Update

Policy

Submit Action ▼

Users in *QA Test Group 1* will have the actions selected above submitted to Pending Approvals for the change to be approved or denied. A second Permission Group must exist with the "Must Approve Action" policy assigned that includes the selected Family / Action(s) for the submittal to succeed.

Assign **Close**

This will deselect the checkbox next to the action, allowing it to be selected again.

Group Assignment: **QA Test Group 1**

Select one or more items from the checklist to apply a change policy to this Group.

Family/Action

▼ ☐ DNS Zones

☒ DNS Zone Add
☒ DNS Zone Update
☒ DNS Zone Delete
☒ DNS Zone Push
☒ DNS Zone Change Group

▼ ☐ DNS Groups

☐ DNS Group Add
☐ DNS Group Update

Policy

Submit Action

Users in **QA Test Group 1** will have the actions selected above submitted to Pending Approvals for the change to be approved or denied. A second Permission Group must exist with the "Must Approve Action" policy assigned that includes the selected Family / Action(s) for the submittal to succeed.

Click "Assign" to save the policy change.

Group Details Page

From the list of Permission Groups, click on a Group name to bring up the permission details for that Group.

Approvals
Pending Approvals
Permission Groups

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Actions

back

List of actions assigned to **Test Group A**:

Test Group A

Filter by Family: DNS Groups

Family	Method	Enable Notifications	Policy	Actions
DNS Groups	ADD	<input checked="" type="checkbox"/>	Approve Action	<input type="button" value="remove"/>
DNS Groups	UPDATE	<input checked="" type="checkbox"/>	Approve Action	<input type="button" value="remove"/>
DNS Groups	DELETE	<input checked="" type="checkbox"/>	Approve Action	<input type="button" value="remove"/>
DNS Groups	PUSH	<input checked="" type="checkbox"/>	Approve Action	<input type="button" value="remove"/>
DNS Groups	BULKMOVEZONES	<input checked="" type="checkbox"/>	Approve Action	<input type="button" value="remove"/>

Here, you may view, edit, or remove current policy assignments, and enable/disable notification emails for each action type. The list of assigned actions for the group may be sorted by Family or Method, and filtered by Family (here: "DNS Groups").

Actions

The **Actions** Tab lists the group permissions organized by Family/Action type.

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Actions

List of actions grouped by family (click on family name to expand):

DNS Zones

DNS Groups

Action	Submit Action	Approve Action	Deny Action	Actions
ADD	1	2	1	<div>view groups</div> <div>assign group</div>
UPDATE	1	2	0	<div>view groups</div> <div>assign group</div>
DELETE	1	2	1	<div>view groups</div> <div>assign group</div>
PUSH	2	2	0	<div>view groups</div> <div>assign group</div>
BULKMOVEZONES	1	2	0	<div>view groups</div> <div>assign group</div>

DNS Records

Expanding a Family shows the available actions, and a matrix of how many groups are assigned under each policy.

Actions - View Groups Page

Clicking the "View Groups" button from the Actions tab shows the list of each group assigned to that action, with the option to unassign a group from that action.

Approvals

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back

List of groups assigned to this action:

DNS Record Add \ add

#	Group Name	Policy	Actions
0	QA Test Group Approvees	Submit Action	<div>unassign</div>
1	QA Test Group Approvers	Approve Action	<div>unassign</div>
2	Test Group A	Approve Action	<div>unassign</div>

Actions - Assign Groups

The "Assign Group" button on the Actions tab lets you assign a Group and Policy to that action.

DNS Groups / update

Group

× QA Test Group 1

×

Policy

Submit Action

Select a policy

Submit Action

Approve Action

Deny Action

This performs the same function as the earlier assignment window, but is organized to only assign a single group/policy to that action, instead of assigning multiple actions to a group.

Working with Approval Permission Groups

Sort or Filter the Group List

Sort the Permission Groups list by Name, Enabled, or Users by clicking on the column name.

Groups Actions

Permission Groups 7

Filter by group...

⌵ Name	⌵ Enabled	⌵ Users	Last update	Actions
Global Admins	yes	3	2013-Aug-06 22:27:05	assign
Global Read-Only	yes	0	2013-Aug-06 22:27:05	assign
Approvee Group	yes	2	2021-Sep-22 08:14:38	assign

To Filter the list, type all or part of the group name into the "Filter by Group" box, and the list will automatically narrow to show results.

Groups Actions

Permission Groups 2

Global

⌵ Name	⌵ Enabled	⌵ Users	Last update	Actions
Global Admins	yes	3	2013-Aug-06 22:27:05	assign
Global Read-Only	yes	0	2013-Aug-06 22:27:05	assign

Displaying 1 to 2 of 2 items

View/Edit Existing Assignments

Viewing and editing existing assignments may be done from either the **Groups** tab or the **Actions** tab:

Groups Tab

To view details for a permission group, click on the Group Name from the Permission Groups list.

Actions & Permissions

Groups

Actions

Permission Groups 7

Filter by group...

↑↓ Name	↑↓ Enabled	↑↓ Users	Last update	Actions
Global Admins	yes	5	2013-Sep-09 20:38:28	assign
Global Read-Only	yes	0	2013-Sep-09 20:38:28	assign
Test Group A	yes	1	2019-Feb-12 15:07:00	assign

The **Group Details** page will open, displaying all Family-Action types currently assigned to the Group

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List of actions assigned to **Test Group A**:

Test Group A

Filter by Family: DNS Groups

↑↓ Family	↑↓ Method	Enable Notifications	Policy	Actions
DNS Groups	ADD	<input checked="" type="checkbox"/>	Approve Action	remove
DNS Groups	UPDATE	<input checked="" type="checkbox"/>	Approve Action	remove
DNS Groups	DELETE	<input checked="" type="checkbox"/>	Approve Action	remove
DNS Groups	PUSH	<input checked="" type="checkbox"/>	Approve Action	remove
DNS Groups	BULKMOVEZONES	<input checked="" type="checkbox"/>	Approve Action	remove

Click on the "Policy" dropdown to select a different policy to apply for the action, or click the "Remove" button to remove the policy assignment completely. Changes will be automatically applied and saved.

Test Group A				
				Filter by Family: DNS Groups ▾
Family	Method	Enable Notifications	Policy	Actions
DNS Groups	ADD	✓	Approve Action ▾	remove
DNS Groups	UPDATE	✓	Submit Action Approve Action Deny Action	remove
DNS Groups	DELETE	✓	Approve Action ▾	remove
DNS Groups	PUSH	✓	Approve Action ▾	remove
DNS Groups	BULKMOVEZONES	✓	Approve Action ▾	remove

Actions Tab

You may also view or edit current assignments as organized by action, from the **Actions** Tab.

On the Actions page, expand a Family to view the actions under each family, and how many Groups are assigned for each policy.

Approvals Pending Approvals Permission Groups				
Groups Actions				
List of actions grouped by family (click on family name to expand):				
DNS Zones				
DNS Groups				
Action	Submit Action	Approve Action	Deny Action	Actions
ADD	1	2	1	view groups assign group
UPDATE	1	2	0	view groups assign group
DELETE	1	2	1	view groups assign group
PUSH	2	2	0	view groups assign group
BULKMOVEZONES	1	2	0	view groups assign group
DNS Records				

Click "View Groups" to view the groups assigned for each action. To remove the policy / group assignment for the action, click "Unassign".

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List of groups assigned to this action:

DNS Record Add \ add

#	Group Name	Policy	Actions
0	QA Test Group Approvees	Submit Action	unassign
1	QA Test Group Approvers	Approve Action	unassign
2	Test Group A	Approve Action	unassign

Assign a new Permission Group policy

Three policy settings are available to assign to a Group / Action:

- **Submit Action:** Users in the group will have the selected actions submitted to Pending Approvals for the change to be approved or denied. A second Permission Group must exist with the "Approve Action" policy assigned to the same action for the submittal to succeed.
- **Approve Action:** A User in the group must approve or deny change requests submitted for the selected Family / Action(s), for any Group requiring "Submit Action" for the same action(s) in order for the change to execute. If multiple groups are set as "Approve Action" for the same type of change, then the change will be held as "Pending" or "Pending by Others" until a user from *each group* approves the change request.
- **Deny Action:** All users in the group will have the selected actions automatically denied at an attempted change.

Policies may be applied from either the Approvals **Groups** tab, or the **Action** tab, depending on whether you want to assign policies/actions to a specific group, or assign a group and policy to an action, respectively.

Assign a Policy from the Groups Tab

From Approvals **Permission Groups** Groups tab, Click the "Assign" button.

The Group Assignment checklist opens to select one or more actions to apply a policy to for that Group.

Group Assignment: **Test Group A**

Select one or more items from the checklist to apply a change policy to this Group.

Family/Action

☒ DNS Zones

Approve Action

☒ DNS Groups

Approve Action

☒ DNS Records

Approve Action

☒ DNS Servers

Approve Action

☐ DHCP Reservations

☐ DHCP Pools

☐ DHCP Servers

☐ DHCP Groups

☐ DHCP Classes

Policy

Approve Action

Users in *Test Group A* may approve or deny change requests submitted for the selected Family / Action(s), for any Group requiring "Action to be Approved" for the action(s).

Assign

Close

Select the policy to apply, select one or more Family/Actions, and then click "Assign".

Click the checkbox next to the family name (e.g. "DNS Servers")to quickly select all actions under that family!

Assign a Policy from the Actions Tab

From the [Approvals](#) **Permission Groups** Actions tab, click the "Assign Group" button for the Action you want to assign to a Group / Policy.

DNS Records				
Action	Submit Action	Approve Action	Deny Action	Actions
ADD	1	2	0	<div>view groups</div> <div>assign group</div>
UPDATE	1	2	0	<div>view groups</div> <div>assign group</div>
DELETE	1	2	0	<div>view groups</div> <div>assign group</div>

Select the Group(s) that you wish to assign, and select the policy to apply to the action. When done, click the "Assign" button to save.

DNS Records / add

Group

× QA Test Group 1 × QA Test Group 2 ←

Policy

Approve Action ←

Assign Close

Manage Approval Notifications for Groups

Email notifications of changes in status are an optional feature that may be enabled for a Permission Group for the desired action types.

The emails provide the current status, approval ID, links to the log event and change request details, and details on the user, time, and date.

Approval Request Status Change

LOG #106961 / Approval ID - #14630

A status change has occurred for which you are subscribed to receive notifications:

Request:
DNS Group Add on [TLR](#)

Status:

Pending by user limited (QA Limited Resource Perms) on 2019-02-12 12:50:27

This notification has been sent to all members of the group "Global Admins". To disable notifications for this group, [click here](#).

In order to send email status notifications to groups associated with an Approval event:

1. A scheduler task ("Approvals - Process Subscription") must be created and running to process the notification and send the email
2. Notifications must be enabled for the Group, for the family-action type of the requested change

Set up the "Approvals - Process Subscription" Scheduler Task

Go to the [Scheduler](#) Tab, and verify that the "Approvals - Process Subscription" task has been created, is enabled, and is running at short, regular intervals appropriate to the needs of the users receiving the emails (recommended to run every 5 minutes).

If the task does not yet exist:

From the [Scheduler](#) Tab, click "Add Task"

Scheduler

Add Task

Server info

Server Time:

2021-12-30 20:05:23 UTC

Server Timezone:

UTC +00:00

Enter a Name for the task (including a reference to "Approvals Notifications" is recommended for clarity), select the task as "Approvals - Process Subscription", and enter an End date - or leave blank to run as a 'forever' task.

Tasks

Task Detail - Approvals Notifications

Name

Approvals Notifications

Task

Approvals - Process subscription events

Settings

No custom settings available for this task

Start

03-Jan-2022

End

For Repeat Settings, select how often you'd like the scheduler to check for new approvals changes and send the notification emails - every 5 or 10 minutes is recommended.

Schedule/Repeat Settings

Repeat Setting

Repeat Type

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

Every

☒ 5 min ☐ 10 min ☐ 15 min ☐ 20 min ☐ 30 min ☐ 60 min

Add +

Select your time interval and click "Add". Each instance of the selected time increment will display under "Repeat Settings for this task."

Review the list (deleting individual instances if desired), and click "Save Task" when done.

Repeat Settings For This Task:

• Every hour at :00

Delete

• Every hour at :05

Delete

• Every hour at :10

Delete

• Every hour at :15

Delete

• Every hour at :20

Delete

• Every hour at :25

Delete

• Every hour at :30

Delete

• Every hour at :35

Delete

• Every hour at :40

Delete

• Every hour at :45

Delete

• Every hour at :50

Delete

• Every hour at :55

Delete

Save Task

Cancel

The Approvals Email Notification task is now set up, active, and ready to process Approvals Event changes.

Tasks

Show: ☒ Active ☐ All

Name	Repeat Start	Repeat Info	Last Run	Active	
Approvals Notifications	2022-Jan-03	Every 5 minutes	Task has not been run yet	<input checked="" type="checkbox"/>	View History Details Run Now Delete

For additional information on working with the Scheduler, see [Scheduler Tab](#) documentation.

Enable Notifications

Once the Scheduler task is verified created and active, notifications must be enabled for the desired Groups / Actions for the status changes to be emailed to the appropriate Groups.

From the [Approvals](#) **Permission Groups** Groups tab, Click on the Group name that you wish to enable/disable notifications for.

In the Group Details page, click the checkbox under "Enable Notifications" to enable / disable status change notifications for the Group for the selected Family/Action types.

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List of actions assigned to **Test Group A**

Test Group A

Filter by Family: none

Family	Method	Enable Notifications	Policy	Actions
DNS Zones	ADD	<input type="checkbox"/>	Approve Action	remove
DNS Zones	UPDATE	<input checked="" type="checkbox"/>	Approve Action	remove
DNS Zones	DELETE	<input checked="" type="checkbox"/>	Approve Action	remove
DNS Zones	PUSH	<input checked="" type="checkbox"/>	Approve Action	remove
DNS Zones	CHANGEGROUP	<input checked="" type="checkbox"/>	Approve Action	remove
DNS Groups	ADD	<input checked="" type="checkbox"/>	Approve Action	remove

Additional Information

See the following areas for more information on Approvals and using Approvals with DNS and DHCP:

- [DNS Tab](#)
- [DHCP Tab](#)
- [Approvals](#)
- [Pending Approvals](#)
- [Scheduler Tab](#)