



# AlgoSec FireFlow

## Requestor Guide

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# Welcome to FireFlow

AlgoSecFireFlow automates the security policy change lifecycle, from the time a change request is submitted to auditing the change made. Use FireFlow to make changes on your security policies ensures that device changes are approved, necessary, and implemented as intended.

## Change request lifecycles

FireFlow translates each request made into an actionable policy change, and then analyzes any related devices, routers, and VPNs to verify that the change is indeed needed.

FireFlow identifies the exact rules that need changing, checking the impact of the request on the overall network security. FireFlow makes these change to identify potential risks.

FireFlow ActiveChange enables you to make the change on the device directly from FireFlow. After the change is made, either manually or via ActiveChange, FireFlow validates the change made to ensure that it matches the request correctly.

## Default templates and workflows

FireFlow's templates and workflows enable you to carry each change request through the following default steps:

- [Request changes](#)
- [Validate changes](#)
- [Manage change requests](#)

While FireFlow's templates and workflows are highly customizable, the out-of-the box defaults are fully functional for standard and common tasks. For more details, see [Request templates and workflows](#).

## FireFlow users

FireFlow users include the following:

- **Unprivileged users.** Includes requestors, who can only open change requests and track the status of their own requests. Requestors have a minimized FireFlow interface, showing only the elements available to them.
- **Privileged users.** Includes all other FireFlow users, such as network operators, security officers, and FireFlow administrators. Privileged users have access to more areas of the UI, depending on their user configuration.

## Navigate around FireFlow

Use FireFlow's main menu on the left to navigate around FireFlow and determine the details shown in the workspace.

- To hide and un-pin the main menu, click ◀ at the top of the screen. Click ▶ to show the menu again and keep it pinned.
- On each page in the workspace, click ▶ to expand details for each area. Click ▼ to hide it again.

# Logins and other basics

This topic describes the very basics of working with ASMS, such as logging in and out and supported browsers.

## Supported browsers

View ASMS in one the following web browsers, at screen resolution of **1920x1080** or above.

- **Mozilla Firefox**
- **Google Chrome**
- **Microsoft Edge**
- **Internet Explorer 11** and higher. Internet Explorer 8.0 is supported for FireFlow requestors only.

## Log in to ASMS

Log in to ASMS from any desktop computer using the credentials provided by an AFA administrator.

Do the following:

1. In your browser, navigate to **https://<algosec\_server>** where **<algosec\_server>** is the ASMS server IP address or DNS name.

If a warning message about the web server's certificate appears, click **Accept** or **OK**. For more details, contact your network administrator.

The **Security Management Suite** login page appears.

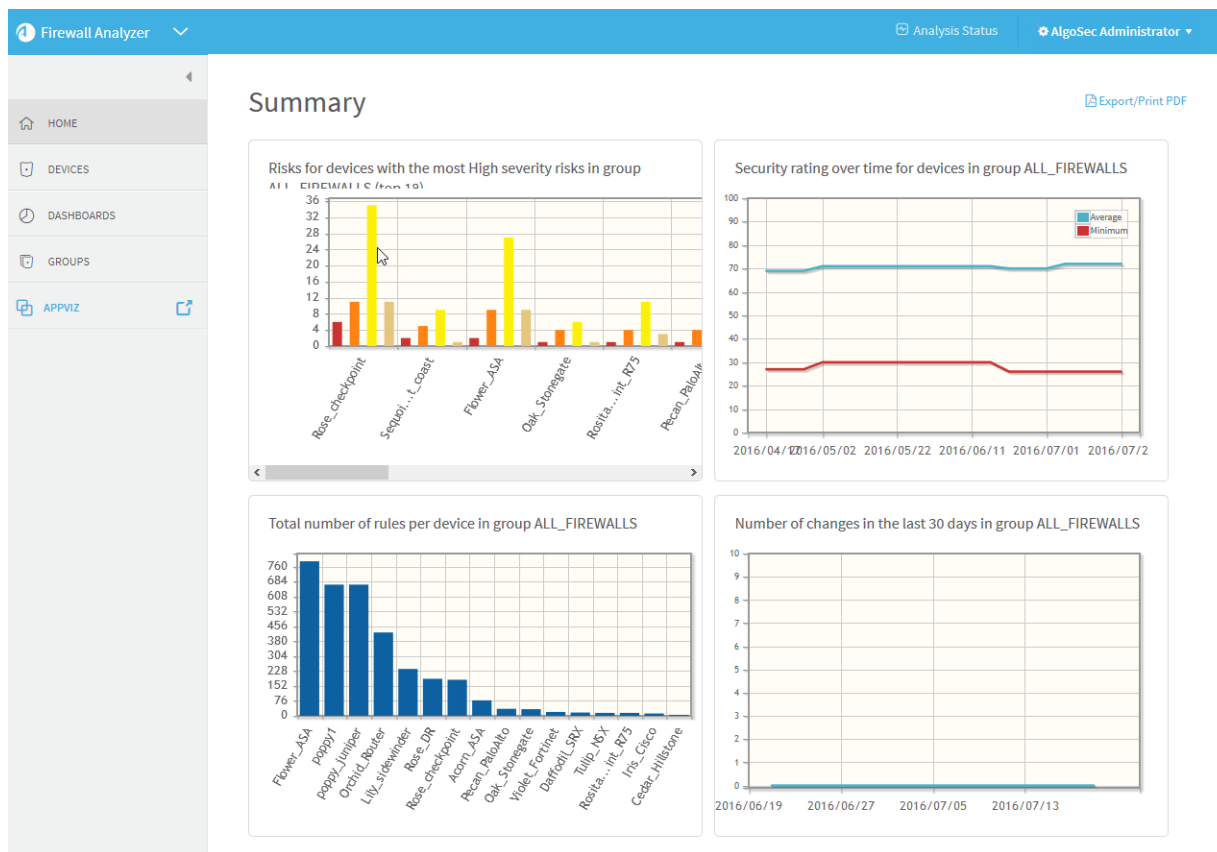


The screenshot shows the login interface for the algosec Security Management Suite. At the top right, there is a link labeled "About". The logo for "algosec" is prominently displayed, with the "a" in a blue circle. Below the logo, the text "Security Management Suite" is centered. There are two input fields: "User Name" and "Password". Below these fields is a blue "Login" button.

2. In the **Username** and **Password** fields, enter your username and password, and click **Login**.

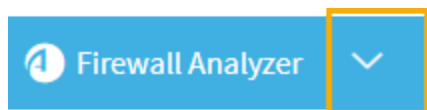
You are logged in, and ASMS displays AFA by default.

For example:

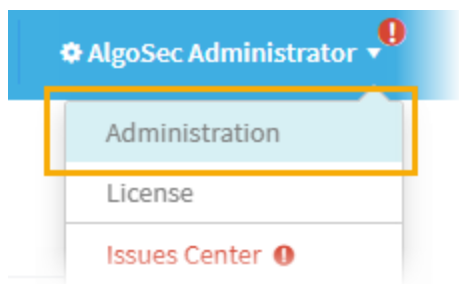


## Switch ASMS products

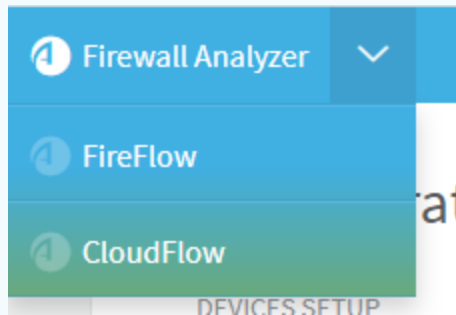
If you are a user in multiple ASMS products, such as AFA, FireFlow, and AppViz, switch between products using the dropdown at the top-left, above the main menu.



If you are an administrator for any of these products, the relevant administration menu is available from your user dropdown at the top-right:





**Note:** CloudFlow is now accessible from inside ASMS. Click the dropdown at the top-left and select **CloudFlow**.



For more details, see our [CloudFlow Help Center](#).

## Adjust your screen space

To adjust the screen space available for your main workspace, hide, display, or change the size of the main menu on the left.

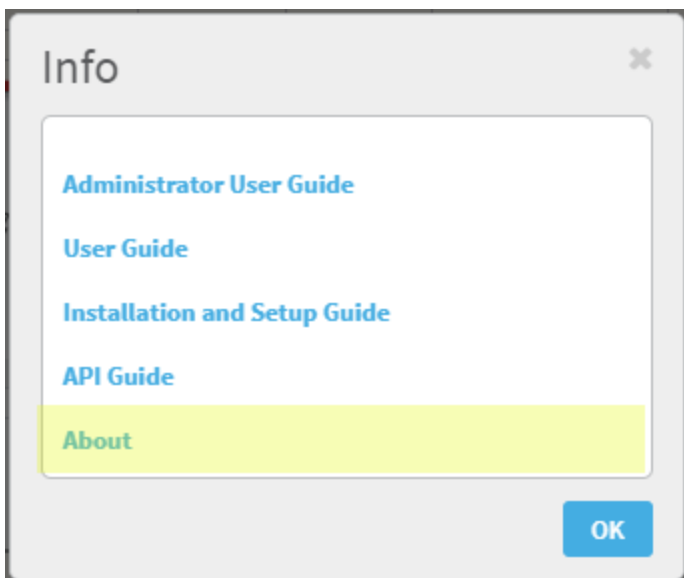
- **To adjust the size of the main menu**, hover between the menu and the workspace and drag the border left or right.
- **To collapse the menu entirely**, click  at the top. When collapsed, click  to expand it again.

## View ASMS product details

This procedure describes how you can identify your AFA, FireFlow, or AppViz installation version and build number.

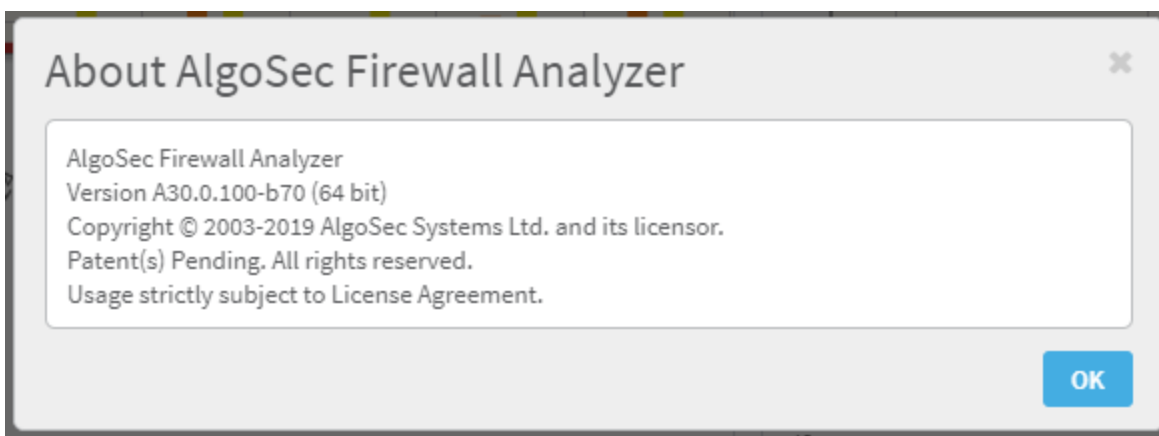
Do the following:

1. In the toolbar, click your username and then select **About** or **Info**.
2. For example, if you're in AFA, in the **Info** dialog, click **About**.



The **About** dialog appears, showing details about the product you have installed.

For example:



**Note:** If you are running the FIPS 140-2 compliant version of AFA, this information is indicated in the window.

## Log out of ASMS

Log out of ASMS by clicking your username at the top right, and selecting **Logout**.

You are logged out of all ASMS products available to you.

**Note:** If Single Sign On is configured, you must browse to the **Logout** page hosted on your IdP to log out.

For more details, see the *AlgoSec Firewall Analyzer Administrator Guide*.



# FireFlow for requestors

FireFlow requestors only have permissions to send requests for FireFlow requesting a device change to be made, and view and reply to their own change requests.

This topic provides an index of topics that are relevant for FireFlow requestors.

## General FireFlow information

Requestors should understand the basics of working in FireFlow and the types of change requests and workflows supported.

For details, see:

- [Logins and other basics](#)
- [Welcome to FireFlow](#)
- [Configure user preferences](#)
- [Request templates and workflows](#)

## Request and view changes

FireFlow requestors can use a variety of methods to request changes, depending on system and user configuration.

For details, see:

- [Request changes](#)
- [Change request field references](#)
- [Change request wizards](#)

Once a change request is submitted, view and track it's status as needed. For details, see:

- [Manage change requests](#)
- [View change requests](#)
- [Search for change requests](#)
- [Verify change request results](#)

- [Resolve or return change requests](#)
- [Respond to change requests](#)

# Configure user preferences

This topic describes how to configure your own FireFlow user preferences.

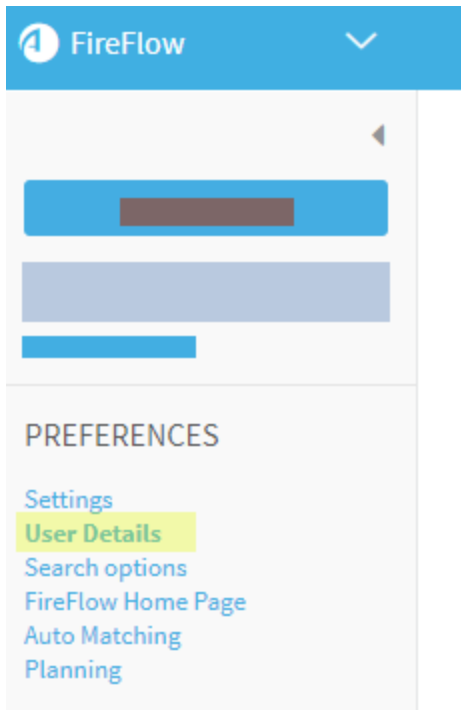
## Access the Preferences page

To access your user preferences page, do the following:

1. In the main menu on the left, click **PREFERENCES**.

If you are a **requestor**, FireFlow will take you directly to the **Preferences** fields.

If you are a **privileged user**, you may need to click **User Details** on the left. For example:



**Note:** If the system is configured to import user information from an LDAP server upon each login, FireFlow reminds you that changes to these settings may be overridden then next time you log in.

In such cases, you must make these changes in the LDAP server instead of FireFlow.

2. Modify the fields as needed. For details, see [User preferences fields](#).
3. Click **Save Preferences**.

## User preferences fields

Enter details in the following fields as needed.

### Identity fields

<b>Email</b>	Your email address. This field is read-only.
<b>Full Name</b>	Your full name. This field is read-only.
<b>Nickname</b>	Type your nickname.
<b>Language</b>	Select the desired FireFlow interface language. All fields will be displayed in the selected language.
<b>Timezone</b>	Select the time zone in which you are located. To use the default time zone defined in FireFlow, select <b>System Default</b> .

### Location fields

<b>Organization</b>	Type the name of your organization.
<b>Address 1</b>	Type your primary mailing address.
<b>Address 2</b>	Type your secondary mailing address.
<b>City</b>	Type your city.
<b>State</b>	Type your state.
<b>Zip</b>	Type your zip code.
<b>Country</b>	Type your country.

## Phone number fields

<b>Home</b>	Type your home telephone number.
<b>Work</b>	Type your work telephone number.
<b>Mobile</b>	Type your mobile telephone number.
<b>Pager</b>	Type your pager number.

## Additional information

This area displays any custom fields defined for your system.

## Signature

Enter a string that you'd like appended to all your comments and replies in FireFlow.

# Request templates and workflows

The lifecycle of a FireFlow change request differs, depending on the request template used, and the workflow configured for that template.

This topic describes the lifecycles provided by the default request templates and workflows.

FireFlow administrators can also configure changes and create custom request templates and workflows.

## Default request templates

FireFlow provides the following request templates out-of-the box, each configured for one or more default workflows. The links in this section reference descriptions of the default stages included in each of these workflows.

For details about how to perform related procedures for each stage, see [Default lifecycle stages](#).

**Tip:** Custom workflows can also be configured for default templates as relevant.

## Requestor change requests

The following change request templates are open to all FireFlow users.

Name	Description
<b>Traffic change requests</b>	<p>Used to request changes in network traffic. By default, related to the following workflows:</p> <ul style="list-style-type: none"> <li>• <b>Basic</b></li> <li>• <b>Standard</b></li> <li>• <b>Multi-Approval</b></li> <li>• <b>Parallel-Approval</b></li> <li>• <b>Automatic Traffic Change</b></li> </ul> <p>For details, see <a href="#">Traffic change workflow</a>.</p>

Name	Description
<b>IPv6 traffic change requests</b>	Used to create traffic change requests for IPv6 traffic, for Cisco devices only. By default, related to the <b>Traffic Change Request (IPv6)</b> workflow. For details, see <a href="#">IPv6 traffic change workflow</a> .
<b>Multicast traffic change requests</b>	Used to create multicast traffic change requests, for Cisco devices only. By default, related to the <b>Traffic Change Request (Multicast)</b> workflow. For details, see <a href="#">Multicast traffic change workflow</a> .
<b>Web filter change requests</b>	Used to request changes in web filtering. By default, related to the <b>Web-Filter</b> workflow. For details, see <a href="#">Web filtering change workflow</a> .
<b>New device configuration change requests</b>	Used to create requests for new device configurations. By default, related to the <b>New Device Configuration</b> workflow.
<b>Generic change requests</b>	Used to create generic change requests, unrelated to traffic changes, device/object changes, enabling or disabling device rules, or web filtering. By default related to the <b>Generic</b> workflow. For details, see <a href="#">Generic change workflow</a> .

## Privileged change request templates

The following change request templates are open to privileged users only.

Name	Description
<b>Object Change (single device) requests</b>	Used to create change requests for object changes on a single device. By default, related to the <b>Object Change</b> workflow. For details, see <a href="#">Object change workflow</a> .

Name	Description
<b>Object Change (multiple devices) requests</b>	<p>Used to create change requests for object changes on a multiple devices.</p> <p>By default, related to the <b>Object Change Multi Device</b> workflow.</p> <p>Supported only via API.</p> <p>For details, see <a href="#">Multi-device object change workflow</a>.</p>
<b>Rule Removal requests</b>	<p>Used to create change requests to remove a network policy rule.</p> <p>By default, related to the <b>Rule Removal</b> workflow.</p> <p>For details, see <a href="#">Rule removal workflow</a>.</p>
<b>Rule Modification requests</b>	<p>Used to create change requests to modify a network policy rule.</p> <p>By default, related to the <b>Rule Modification</b> workflow.</p> <p>For details, see <a href="#">Rule modification workflow</a>.</p>
<b>Recertification requests</b>	<p>Used to create requests to recertify Allow traffic added as the result of a traffic request.</p> <p>Available only to network operations users only.</p> <p>By default, related to the <b>Request-Recertification</b> workflow.</p> <p>For details, see <a href="#">Re-certification workflow</a>.</p>

## Default workflows

When a FireFlow user opens a new change request, FireFlow uses the workflow assigned to the request's configured template. If a request template has no workflow configured, FireFlow uses a set of rules to determine the workflow to use.

If these rules still cannot find the required workflow, FireFlow uses the Basic workflow by default.

The following tables describe FireFlow's built-in workflows, as they are configured out-of-the-box.

For more details, see [Default templates and workflows](#).



## Traffic change workflows

The following workflows are relevant for changes requested in traffic.

Workflow	Description
<b>Standard</b>	Default workflow, suitable for all traffic requests. Default stages include: Request, Plan, Approve, Implement, Validate, Match, Resolved, and Audit.
<b>Multi-Approval</b>	Used for traffic change requests that require sequential approval from multiple users, and includes the extra <b>Review</b> approval stage, performed by a controller user. Default stages include: Request, Plan, Approve, Review, Implement, Validate, Resolved, and Audit.
<b>Parallel-Approval</b>	Used for traffic change requests that require parallel approval from multiple users, and includes the extra <b>Review</b> approval stage, performed by a controller user. Default stages include: Request, Plan, Approve, Review, Implement, Validate, Resolved, and Audit.
<b>IPv6-Traffic</b>	Used for requests involving IPv6 traffic, for Cisco devices only. Default stages include: Request, Plan, Approve, Implement, Validate, Resolved, and Audit.
<b>Request-Recertification</b>	Used to determine whether <b>Allow</b> traffic added to a device policy as the result of an expired traffic change request is still relevant. If the rule is no longer relevant, a Rule Removal change request is created to remove it. Default stages include: Request, Certify, Implement, Validate, Resolved, and Audit.
<b>Multicast-Traffic</b>	Used for requests for Multicast traffic changes, for Cisco devices only. Default stages include: Request, Plan, Approve, Implement, Validate, Resolved, and Audit.

Workflow	Description
<b>Automatic-Traffic-Change</b>	Used for traffic requests with <b>Allow</b> traffic only. Lifecycle changes proceed automatically. Default stages include: Request, Plan, Approve, Implement, Validate, Match, Resolved, and Audit.

## Device and rule change workflows

The following workflows are used for changes requested on devices or device rules.

Workflow	Description
<b>Change-Object</b>	Used for requests to add, remove, or modify device objects. Default stages include: Request, Approve, Implement, validate, Resolved, and Audit.
<b>Object-Change-Multi-Device</b>	Used for requests to change device objects on multiple devices. Available only for change requests opened via API. Default stages include: Request, Plan, Approve, Implement, Validate, Resolved, and Audit.
<b>Rule-Removal</b>	Used for requests to remove or disable device rules. Default stages include: Request, Approve, Implement, Validate, Resolved, and Audit.
<b>Rule-Modification</b>	Used for requests to modify a rule's fields, such as source, destination, or service. Default stages include: Request, Approve, Implement, Validate, Match, Resolved, and Audit.
<b>Bulk-Rules-Addition</b>	Used for requests to add many rules to a device. Default stages include: Request, Plan, Implement, Resolved, Match, and Audit.

## Other workflows

The following workflows are used on changes requested for anything other than traffic, device, or rules.

Workflow	Description
<b>Generic</b>	Used for requests not related to traffic. No device change planning or matching device changes to the request are required. Default stages include: Request, Approve, Implement, Validate, Resolved, and Audit.
<b>Web-Filter</b>	Used for requests to filter Web connections. Relevant for Symantec Blue Coat devices only. Default stages include: Request, Plan, Approve, Implement, Validate, Resolved, and Audit.

## Default lifecycle stages

The following table lists each default lifecycle stage with action items for users, and the types of FireFlow users who perform that stage.

Stage	Description
<b>Request</b>	Performed by all FireFlow users. For details, see <a href="#">Request changes</a> .
<b>Plan</b>	Performed by network operators.
<b>Approve</b>	Performed by network operators or information security officers.
<b>Review</b>	Performed by controllers only.
<b>Implement</b>	Performed by network operators only.
<b>Validate</b>	Performed by network operators only.
<b>Match</b>	Performed by information security officers.
<b>Resolved</b>	Performed by network operators only.

## Generic change workflow

This topic describes the events that occur in each stage in a default generic change workflow.

**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the Request stage, a requestor submits a request for a generic change, initiating the FireFlow change request lifecycle. This stage consists of the following steps:

1. The requestor selects a template on which to base their request.
2. If the template specifies a workflow, FireFlow assigns the request to that workflow.
3. The requestor submits the request to FireFlow.
4. FireFlow receives the request information and creates a *change request*.
5. If a workflow has not yet been assigned, FireFlow assigns a workflow. For more details, see [Request templates and workflows](#).
6. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.
7. FireFlow sends an email message informing the requestor that the change request was created, and specifying the change request ID in the format [FireFlow #<number>], for example [FireFlow #49].

## Approve

In the Approve stage, a user with the information security role determines the security risks entailed in satisfying the request. This stage consists of the following steps:

1. The *default assignee* of the role handling change requests in the Approve stage (by default, the Information Security role) is assigned as the change request's owner.
2. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the information security role.

- An information security user chooses to take responsibility for the change request.
3. The information security user initiates a manual check to determine whether there would be any risks entailed in implementing the requested change.
  4. The information security user does one of the following:
    - Approves the change request and sends it on to the next stage.
    - Rejects the change request. In this case the change request returns to the start of the Approve stage.
    - Rejects and closes the change request. In this case, an email message is sent to the requestor, indicating that the request is denied.
    - Contacts the requestor and asks for more information.

## Implement

In the Implement stage, the network operations user plans and executes request implementation. This stage consists of the following steps:

1. The change request's ownership is returned to the network operations user.
2. The network operations user implements the requested changes.
3. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, the requestor checks that the request was implemented, and the network operations user resolves the change request. This stage consists of the following steps:

1. The network operations user composes an email message in FireFlow, notifying the requestor that the requested changes were implemented.
2. FireFlow sends the email to the requestor.
3. The requestor checks that the requested change was implemented and the desired result was achieved.

4. One of the following things happens:

- If the desired result was not achieved, the requestor responds via an email message or via the Web interface, and the network operations user then re-initiates the implementation stage.
- If the desired result was achieved, the requestor responds via an email message or via the Web interface, and the network operations user then resolves the change request.
- If the requestor does not respond, the network operations user can choose to resolve the change request anyway.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Resolved

Once the change request has been validated, it enters the Resolved stage.

## Audit

The Audit stage for generic change request lifecycles is identical to the Audit stage for traffic change request lifecycles. See Audit (see [Audit](#)).

## Traffic change workflow

This topic describes the events that occur in each stage in a default traffic change workflow.

**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the Request stage, a requestor submits a request for a device traffic change, initiating the FireFlow change request lifecycle. This stage consists of the following steps:

1. The requestor selects a template on which to base their request.
2. If the template specifies a workflow, FireFlow assigns the request to that workflow.
3. The requestor submits the request to FireFlow.

The request **must** include information about the relevant source, destination, service/application, and action for the change. For example, the requestor may submit the following request:

Source ⓘ 10.254.7.40 ✕	Destination ⓘ 52.128.23.143 ✕	Service ⓘ ssh ✕	Action Allow ▼
User ⓘ any ✕		Application ⓘ any ✕	

4. FireFlow receives the request information and creates a *change request*.
5. If a workflow has not yet been assigned, FireFlow assigns a workflow. For more details, see [Request templates and workflows](#).
6. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.
7. FireFlow sends an email message informing the requestor that the change request was created, and specifying the change request ID in the format [FireFlow #<number>], for example [FireFlow #49].
8. FireFlow checks the traffic specified in the change request against the network security policy. If the traffic is already allowed (in case of a request to allow traffic), then FireFlow automatically closes the change request and sends you an email indicating that the change request was closed.

## Plan

In the Plan stage, a user with the network operations role plots out the technical changes needed in order to satisfy the change request. This stage consists of the following steps:

1. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the network operations role.
  - A network operations user chooses to take responsibility for the change request.
  - Conditional logic was configured to dynamically choose the responsible role, based on request properties.
2. FireFlow initiates a query on the indicated device group (by default, the ALL\_FIREWALLS group) to identify relevant devices or policies.

If the requestor did not provide adequate information, the network operations user contacts the requestor to clarify the request details and then modifies the request details as needed.
3. The network operations user uses the FireFlow initial plan results to identify the devices or policies that are relevant to the requested change.
4. If the network user modified the traffic, FireFlow tests whether the requested traffic is already allowed. If the traffic is already allowed, the network operations user closes the change request, and FireFlow sends an email message to the requestor indicating that the change request was closed.
5. If there is more than one device or policy that is relevant to the change, the network operations user selects the devices or policies on which to implement the change.
6. The network operation user confirms the devices, sending the change request to the next stage.
7. If the network operations user selected multiple devices or policies, FireFlow will generate sub-requests for each.

## Approve

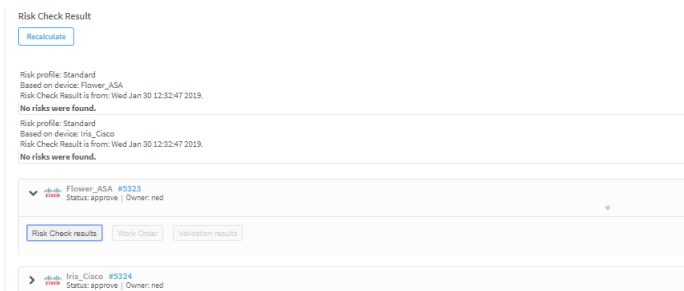
In the Approve stage, a user with the information security role determines the security risks entailed in satisfying the request. This stage consists of the following steps:



1. The *default assignee* of the role handling change requests in the Approve stage (by default, the Information Security role) is assigned as the change request's owner.
2. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the information security role.
  - An information security user chooses to take responsibility for the change request.
  - Conditional logic was configured to dynamically choose the responsible role, based on request properties.
3. If the change request includes an "Allow" action, FireFlow initiates a risk check, to determine whether implementing the requested Allow traffic change will introduce risks.

FireFlow returns the number and severity of risks detected:

In the case of policy-based requests, the risk check runs on one of the devices with the policy.



The user can view a risk assessment of each risk:

**Risk Assessment**

**I26 FTP can enter your network (x1)**

**Findings**

ftp\_control is allowed to cross into your internal network segments. [Details](#)  
 Number of Outside IP addresses that have access: 1  
 Number of exposed Inside addresses: 1

FTP is the File Transfer Protocol. Normally, machines from the outside should not be able to access the FTP servers on your internal network segments. Serious vulnerabilities have been found in many versions of FTP server software. You may have many FTP servers on your internal networks and it is difficult to ensure that they are all properly hardened. Allowing access from the **Outside** to the internal FTP servers is risky, since a compromised or infected machine could access or damage the data on these servers.

This risk has a **CVSS** base score in the range of 2.0-3.9. To be considered PCI DSS compliant, the PCI **Data Security Standard: Requirements and Security Assessment Procedures**, Version 3.0 (November 2013) require that a scan must not contain any vulnerability that has been assigned a **Common Vulnerability Scoring System (CVSS)** base score equal to or higher than 4.0.

Note: If this risk is not relevant in your environment, you may use the AlgoSec Firewall Analyzer customization suite to reduce its severity level, all the way down to "Ignore" if necessary. If the risk is flagged for traffic that you trust and require for your business, use the customization suite's "Trusted Traffic" feature to mark the traffic as such. Your changes will take effect with the next AFA report you generate.

**Remedy**

Review the rules that allow ftp\_control access from the **Outside** into your internal networks and eliminate them. If you need to transfer information from the internal network segments to outside servers, consider using a "push"-based solution which is initiated by the internal machines.

[Show All Risks](#)

4. If the change request includes a "Drop" action, the following happens:
  - a. The network operations user initiates a search for change requests whose traffic will be blocked by the "Drop" action.
  - b. FireFlow returns a list of related change requests.
  - c. The network operations user then specifies which of the related change requestors (and optionally other users) should receive a notification that the traffic will be blocked.

Notify Requestors

The following users have made change requests that depend on the traffic currently requested to be dropped. Please select the users you wish to notify about the planned policy change.

Requestor	Name	Email Address	Related Change Requests
<input checked="" type="checkbox"/> admin	AlgoSec Administrator	admin@company.com	1202, 1203, 1329, 1333, 1508, 2018, 2019, 2020, 2021, 2022, 2024, 2025, 2052, 3731, 3734, 3736, 3738, 3741, 3743, 4304, 4305
<input checked="" type="checkbox"/> ned	Ned NetOps	ned@company.com	1961, 1962, 1963, 1964, 1965, 1966, 1967, 1968, 2354, 2355, 4006, 4007, 4012, 4013, 4015, 4016, 4022, 4023, 4025, 4037, 4038, 4348, 4353, 4356, 4357, 882, 911

- d. FireFlow sends an email to the selected requestors.
  - e. The requestors respond via an email message or the web interface.
5. The information security user does one of the following:

- Approves the change request and sends it on to the next stage.
- Rejects the change request and returns it to the Plan stage.
- Rejects and closes the change request. In this case, an email message is sent to the requestor, indicating that the request is denied.
- Contacts the requestor and asks for more information.

## Review

If the request uses the Multi-Approval or Parallel-Approval workflow, then its lifecycle includes a Review stage, in which a controller reviews the change request. This stage consists of the following steps:

1. The controller examines the change request.
2. The controller then composes an email message in FireFlow, notifying the requestor that the change request was reviewed and approved for implementation.

To: "AlgoSec Administrator" <admin@company.com> (admin)

Cc: (comma-delimited list of email addresses)

Bcc: (comma-delimited list of email addresses)

Subject: Drop traffic

Message: Your request has been approved and reviewed

Attach:  No file chosen

3. FireFlow sends the email to the requestor.
4. The change request is sent on to the next stage.

## Implement

In the Implement stage, the network operations user plans and executes request implementation.

This stage consists of the following steps:

1. The change request's ownership is returned to the network operations user.
2. FireFlow creates a work order and displays a list of recommendations for

implementing the requested change.

Work Order Recommendations [Find out why](#)

[Recalculate](#) [Edit](#)

Last Updated: Thu Jan 31 2019 9:16:12 AM

1. Add rule:

Device	DC_82
--------	-------

	Source	Destination	Service	Action	Remark
New Rule Values	16.47.71.62	10.176.57.161	tcp/21	deny	FireFlow #4478
Change Request Details	16.47.71.62/32	10.176.57.161/32	tcp/21	deny	

3. The network operations user can edit the work order.

For most devices, the user can edit the list of recommendations. For all devices, the user can add notes to the work order, to be viewed by the implementing team.

4. The network operations user implements the requested changes on the security device according to the work order, by doing one of the following:

- The user manually implements the changes or implements the changes using the relevant management system (for example, Check Point Dashboard or Juniper NSM).
- The user implements the changes from FireFlow using ActiveChange.

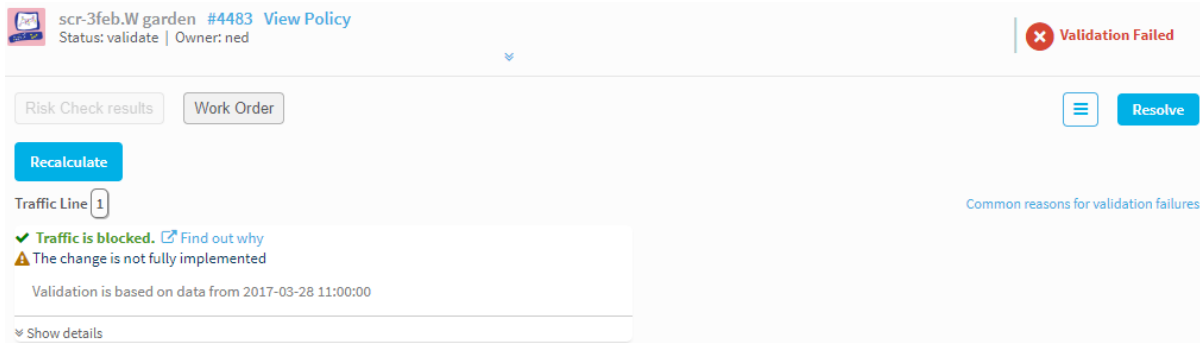
**Note:** In order to use ActiveChange, it must be licensed and enabled.

5. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, FireFlow validates the implemented device policy changes against the change request and presents validation results to the network operation user. The requestor then checks that the request was implemented, and the network operations user resolves the change request. This stage consists of the following steps:

1. FireFlow validates the implemented device policy changes against the change request.



2. The validation process checks both that the requested traffic is not allowed or blocked, and also that the changes were done according to the work order.
3. If validation indicates that the implemented changes did *not* achieve the desired result specified in the change request, then the network operations user re-initiates the Implement stage.
4. For the Standard, Multi-Approval, or Parallel-Approval workflows:

Once the changes have been successfully validated, the network operations user composes an email message in FireFlow, notifying the requestor that the requested changes were implemented.
5. FireFlow sends the email to the requestor.
6. The requestor checks that the requested change was implemented and the desired result was achieved.
7. One of the following happens:
  - If the desired result was not achieved, the requestor responds via an email message or via the Web interface, and the network operations user then re-initiates the implementation stage.
  - If the desired result was achieved, the requestor responds via an email message or via the Web interface, and the change request is resolved automatically.

- If the requestor does not respond, the network operations user can choose to resolve the change request anyway.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Match

According to a configurable schedule, FireFlow automatically checks all devices for rule changes and determines the following:

- Each change is associated with a change request.
- Each change request is associated with a change.
- Each change is associated with the *correct* change request.
- The scope of each change matches the approved scope in the associated change request.

If there are no problems with a given change request, FireFlow automatically marks it as matched.

For control purposes, an information security user periodically checks that all change requests were matched successfully, and resolves any problems that FireFlow may have detected during auto matching. The Match stage consists of the following steps:

1. The information security user checks whether FireFlow detected any matching problems with the validated change requests in the system.

▼ Action Required - 46956	<a href="#">Customize</a>
▶ 46744 Changes Without Request	
▶ 211 Change <-> Change Request Mismatch	
▶ 1 Changes Wider than Request	
▶ 0 Change Requests Partially Implemented	

2. If a problem is detected for a change request, the information security user does one of the following:
  - Re-opens the change request.
  - Manually approves the mismatch.

**Note:** It is recommended to perform these steps on a weekly or monthly basis.

## Resolved

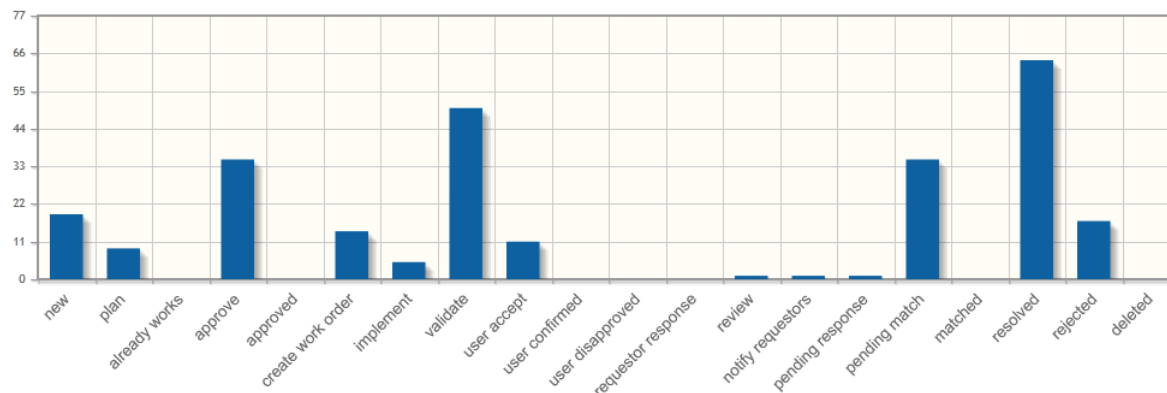
Once the change request has been matched to the relevant change(s), it enters the Resolved stage.

## Audit

FireFlow enables you to perform a variety of auditing tasks, including:

- Viewing the full history of any change request, including who requested the change, who approved the change request, what device rule changes were implemented, and comments on the change request.
- Searching and filtering according to dates, requestor, device, and other criteria.
- Generating a variety of reports, including reports based on:
  - Change request owner
  - Change request status
  - Create, due, update, or resolve date, for a daily, monthly, or annual period
  - Specific fields in the request
  - SLA parameters

Reports can be viewed in FireFlow or exported to a .csv file (that can be viewed in Excel, for example).



## IPv6 traffic change workflow

This topic describes the events that occur in each stage in a default IPv6 traffic change workflow.

This type of traffic change is supported only for Cisco devices.

**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the Request stage, a requestor submits a request for an IPv6 traffic change, initiating the FireFlow change request lifecycle. This stage consists of the following steps:

1. The requestor selects a template on which to base their request.
2. If the template specifies a workflow, FireFlow assigns the request to that workflow.
3. The requestor submits the request to FireFlow.

The request may include information about the relevant source, destination, service, and action for the change. For example, the requestor may submit the following request:



	Source	Destination	Service	Action
1.	2001:db8:85a3::8a2e:370:7334	any	ssh	<input checked="" type="radio"/> Allow <input type="radio"/> Drop

Show NAT

[+ Add Traffic](#)

4. FireFlow receives the request information and creates a *change request*.
5. If a workflow has not yet been assigned, FireFlow assigns a workflow. For more details, see [Request templates and workflows](#).
6. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.
7. FireFlow sends an email message informing the requestor that the change request was created, and specifying the change request ID in the format [FireFlow #<number>], for example [FireFlow #49].

## Plan

In the Plan stage, a user with a network operations role plots out the technical changes needed in order to satisfy the change request. This stage consists of the following steps:

1. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the network operations role.
  - A network operations user chooses to take responsibility for the change request.
2. The network operations user confirms the devices that are relevant to the requested change.
3. The network operation user sends the change request on to the next stage.
4. If the network operations user selected multiple devices, FireFlow generates a sub-request for each.

## Approve

In the Approve stage, a user with the information security role determines the security risks entailed in satisfying the request. This stage consists of the following steps:

1. The *default assignee* of the role handling change requests in the Approve stage (by default, the Information Security role) is assigned as the change request's owner.
2. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with information security role.
  - An information security user chooses to take responsibility for the change request.
3. The information security user does one of the following:
  - Approves the change request and sends it on to the next stage.
  - Rejects the change request and returns it to the Plan stage.
  - Rejects and closes the change request. In this case, an email message is sent to the requestor, indicating that the request is denied.
  - Contacts the requestor and asks for more information.

## Implement

In the Implement stage, the network operations user plans and executes request implementation.

This stage consists of the following steps:

1. The change request's ownership is returned to the network operations user.
2. FireFlow creates a work order and displays a list of recommendations for implementing the requested change.
3. The network operations user edits the list of recommendations and adds notes to the work order.
4. The network operations user manually implements the requested changes on the

devices according to the work order.

5. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, the requestor checks that the request was implemented, and the network operations user resolves the change request. This stage consists of the following steps:

1. The network operations user composes an email message in FireFlow, notifying the requestor that the requested changes were implemented.
2. FireFlow sends the email to the requestor.
3. The requestor checks that the requested change was implemented and the desired result was achieved.
4. One of the following things happens:
  - If the desired result was not achieved, the requestor responds via an email message or via the Web interface, and the network operations user then re-initiates the implementation stage.
  - If the desired result was achieved, the requestor responds via email message or via the Web interface, and the network operations user then resolves the change request.
  - If the requestor does not respond, the network operations user can choose to resolve the change request anyway.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Resolved

Once the change request has been validated, it enters the Resolved stage.

## Audit

The Audit stage for IPv6 traffic change request lifecycles is identical to the Audit stage for traffic change request lifecycles. See [Audit](#).

## Multicast traffic change workflow

This topic describes the events that occur in each stage in a default Multicast traffic change workflow.

This type of traffic change is supported only for Cisco devices.

**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the Request stage, a requestor submits a request for a device multicast traffic change, initiating the FireFlow change request lifecycle. This stage consists of the following steps:

1. The requestor selects a template on which to base their request.
2. If the template specifies a workflow, FireFlow assigns the request to that workflow.
3. The requestor submits the request to FireFlow.

The request may include information about the relevant source, destination, service, and action for the change. For example, the requestor may submit the following request.

4. FireFlow receives the request information and creates a *change request*.
5. If a workflow has not yet been assigned, FireFlow assigns a workflow. For more details, see [Request templates and workflows](#).
6. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.

7. FireFlow sends an email message informing the requestor that the change request was created, and specifying the change request ID in the format [FireFlow #<number>], for example [FireFlow #49].

## Plan

In the Plan stage, a user with the network operations role plots out the technical changes needed in order to satisfy the change request. This stage consists of the following steps:

1. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the network operations role.
  - A network operations user chooses to take responsibility for the change request.
2. The network operations user chooses or confirms the already chosen devices that are relevant to the requested change.
3. The network operation user sends the change request on to the next stage.
4. FireFlow will generate a separate change request for each device or policy to be modified.

## Approve

In the Approve stage, a user with the information security role determines the security risks entailed in satisfying the request. This stage consists of the following steps:

1. The *default assignee* of the role handling change requests in the Approve stage (by default, the Information Security role) is assigned as the change request's owner.
2. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the information security role.
  - An information security user chooses to take responsibility for the change request.

3. The information security user does one of the following:
  - Approves the change request and sends it on to the next stage.
  - Rejects the change request and returns it to the Plan stage.
  - Rejects and closes the change request. In this case, an email message is sent to the requestor, indicating that the request is denied.
  - Contacts the requestor and asks for more information.

## Implement

In the Implement stage, the network operations user plans and executes request implementation.

This stage consists of the following steps:

1. The change request's ownership is returned to the network operations user.
2. FireFlow creates a work order and displays a list of recommendations for implementing the requested change.
3. The network operations user edits the list of recommendations and adds notes to the work order.

For multicast traffic requests, the user must edit the work order to choose the relevant ACLs and rule locations for the CLI commands to be generated.
4. The network operations user manually implements the requested changes on the device according to the work order.
5. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, the requestor checks that the request was implemented, and the network operations user resolves the change request. This stage consists of the following steps:

1. The network operations user composes an email message in FireFlow, notifying the requestor that the requested changes were implemented.
2. FireFlow sends the email to the requestor.
3. The requestor checks that the requested change was implemented and the desired result was achieved.
4. One of the following things happens:
  - If the desired result was not achieved, the requestor responds via an email message or via the Web interface, and the network operations user then re-initiates the implementation stage.
  - If the desired result was achieved, the requestor responds via an email message or via the Web interface, and the network operations user then resolves the change request.
  - If the requestor does not respond, the network operations user can choose to resolve the change request anyway.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Resolved

Once the change request has been validated, it enters the Resolved stage.

## Audit

The Audit stage for Multicast traffic change request lifecycles is identical to the Audit stage for traffic change request lifecycles. See Audit (see [Audit](#)).

## Re-certification workflow

This topic describes the events that occur in each stage in a default re-certification change.






**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the Request stage, a network operations user submits a request to recertify an expired traffic change request, initiating the FireFlow change request lifecycle. This stage consists of the following steps:

1. The network operations user views a list of change requests that are due to be recertified.

▼ 4 Change Requests that are due to be recertified Customize

Id	Subject	Requestor	Workflow	Device Name	Already Works Devices	Expired	Created	Last Updated
543	green pepper project	ned@company.com	Standard	 Violet_Fortinet	Violet_Fortinet	Mon Jan 14 2013	8 years ago	3 weeks ago
885	Web application access (incl facebook)	admin@company.com	Standard	 Poppy_juniper		Wed May 30 2012	7 years ago	3 weeks ago
770	TCP/258 access	rachel@company.com	Standard	 Flower_ASA  Iris_Cisco		Wed May 16 2012	7 years ago	3 years ago
459	thompson-to-shiva	ned@company.com	Standard	 Rose_checkpoint	Rose_checkpoint	Tue Jan 17 2012	8 years ago	5 years ago

2. The network operations user then selects the change request to recertify.

**Note:** It is possible to select multiple change requests to recertify.

3. FireFlow creates a *change request* and assigns the request to the Request-Recertification workflow.
4. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.

## Certify

In the Certify stage, the network operations user determines the network issues entailed in satisfying the request. This stage consists of the following steps:







1. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the network operations role.
  - A network operations user chooses to take responsibility for the change request.
2. The network operations user initiates a search for change requests whose traffic intersects that of the Allow traffic that was added by the expired change request.

FireFlow returns a list of related change requests:

Related Change Requests

The following change requests are supported by the traffic being recertified

Information is based on data from Thu Jan 31 14:39:19 2019

Id	Subject	Requestor	Policy to be changed	Device Name	Already Works on Devices	Status	Owner	Created	Last Updated
4023	(No subject)	ned@company.com		 Flower_ASA		implement	ned	2 years ago	2 years ago
4024	(No subject)	ned@company.com		 Iris_Cisco		implement	ned	2 years ago	2 years ago
4022	(No subject)	ned@company.com		 Flower_ASA  Iris_Cisco		implement	ned	2 years ago	2 years ago

3. The network operations user then specifies which of the related change requestors (and optionally other users) should receive a notification that the Allow traffic will be deleted.
4. FireFlow sends an email to the selected requestors.
5. The requestors respond via email message.
6. The network operations user does one of the following:
  - Extends the due date of the change request, giving related change requestors more time to respond.
  - Certifies the traffic, sending the change request on to the Resolved stage.
  - Plans the traffic's removal, sending the change request on to the next stage.

## Implement

In the Implement stage, the network operations user plans and executes request implementation. This stage consists of the following steps:

1. FireFlow creates a work order and displays a list of recommendations for implementing the requested change.

**Work Order Recommendations**

Please disable rule 36:

NAME	SOURCE	DESTINATION	SERVICE	ACTION	COMMENT
	GP_NW_BAI_LAN GP_NW_SLI_LAN	NW_Garden_ICN_003	TCP https	accept	FireFlow #322: Added by Sally

**Implementation Notes** [Edit](#)

Implementation (no value)  
Notes:

2. The network operations user edits the work order, by adding notes to the work order.
3. The network operations user implements the requested changes on the device or policy according to the work order, by using the relevant management system (for example, Check Point Dashboard or Juniper NSM) to implement the changes.
4. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, the network operation user validates the implemented removal of the Allow traffic against the recertification request. This stage consists of the following steps:

1. The network operations user validates the implemented Allow traffic removal against the change request.

Requested action	Status
Disable rule	Rule was either removed or disabled as planned from device Flower_ASA

Validation is based on data from 2019-01-04 01:05:52  
The information is based on data from the last report

2. If validation indicates that the traffic is still allowed, then the network operations user re-initiates the Implement stage.
3. Once the Allow traffic's removal has been successfully validated, the network operations user resolves the change request.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Resolved

Once the Allow traffic has been certified or the recertification request has been validated, the change request enters the Resolved stage.

## Audit

The Audit stage for rule removal request lifecycles is identical to the Audit stage for traffic change request lifecycles. See Audit (see [Audit](#)).

## Object change workflow

This topic describes the events that occur in each stage in a default object change workflow.

**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the Request stage, a privileged user submits a request for a device object change, initiating the FireFlow change request lifecycle. This stage consists of the following steps:

1. The requesting privileged user selects a template on which to base their request.
2. If the template specifies a workflow, FireFlow assigns the request to that workflow.
3. The requesting privileged user submits the request to FireFlow.

The request includes information about a device object to create, delete, or modify.

For example, the requesting privileged user may submit the following request:

Object Type: NETWORK SERVICE

Action: 1.  New  Edit  Add Values to Group  Remove Values from Group  Delete

Object Name: ArcSight-Support

New Values: 10.2.10.34  
Type or doubleclick

Scope:  Local  Global

**Note:** Check Point devices have a more extensive list of possible actions.

4. FireFlow receives the request information and creates a *change request*.
5. If a workflow has not yet been assigned, FireFlow assigns a workflow. For more details, see [Request templates and workflows](#).
6. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.
7. FireFlow sends an email message informing the requesting privileged user that the change request was created, and specifying the change request ID in the format [FireFlow #<number>], for example [FireFlow #49].

## Plan

In the Plan stage, a user with the network operations role plots out the technical changes needed in order to satisfy the change request. This stage consists of the following steps:

1. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with network operations role.
  - A network operations user chooses to take responsibility for the change request.
2. FireFlow initiates a search for rules that would be affected by the requested object

change.

FireFlow returns a list of affected rules:

Affected Rules

All relevant policies were examined for rules that will be affected by the requested object changes.  
 The change will affect 1 rules in the following devices (and all other devices that share their policies): Rose\_checkpoint

Firewall	Object	Affected rules	Policy
Rose_checkpoint	Management_Services	5	scr-3feb.W

[Details](#)

You can view details by clicking the details link:

Rules that contain host group GP\_Dthomson Export:

Note: Following the suggested object removal the rules with light-blue highlighted objects below will exchange the suggested object with "Any" and introduce more traffic through the firewall.

RULE	NAME	SOURCE	DESTINATION	SERVICES	ACTION	COMMENT	COUNT	LAST USE	PERCENTAGE	INSTALL	DOCUMENTATION
1	48 (Global)	GP_Dthomson	★ Any	top-1853-MSM-Messenger NetMeeting	accept	FireFlow #344: Microsoft Windows Update	0	N/A	0.000%	rose_checkpoint	
2	49 (Global)	GP_Dthomson	Shiva	★ Any	accept	FireFlow #345: Microsoft Windows Update	0	N/A	0.000%	rose_checkpoint	

## Approve

The Approve stage consists of the following steps:

1. The *default assignee* of the role handling change requests in the Approve stage (by default, the Information Security role) is assigned as the change request's owner.
2. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the information security role.
  - An information security user chooses to take responsibility for the change request.
3. The information security user does one of the following:
  - Approves the change request and sends it on to the next stage.
  - Rejects the change request. In this case the change request returns to the start of the Approve stage.
  - Rejects and closes the change request. In this case, an email message is sent

to the requesting privileged user, indicating that the request is denied.

- Contacts the requestor and asks for more information.


## Implement

In the Implement stage, the network operations user plans and executes request implementation. This stage consists of the following steps:

1. The change request's ownership is returned to the network operations user.
2. FireFlow creates a work order and displays a list of recommendations for implementing the requested change.

Work Order

**Work Order Recommendations**

1.  Add Values to Service Group:

Device:	Rose_checkpoint
Name	Values to Add
Management_Services	ldap

Requested scope is Local.

**Implementation Notes**

Implementation *(no value)*

Notes:

3. The network operations user edits the work order, by adding notes to the work order.
4. The network operations user implements the requested changes on the security device according to the work order, by using the relevant management system (for example, Check Point Dashboard or Juniper NSM) to implement the changes.
5. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, the network operation user validates the implemented device object changes against the change request. This stage consists of the following steps:

1. The network operations user validates the implemented device policy changes against the change request.

Object Change Validation

**Results**

Some of the objects were not updated as planned in device .

Validation is based on data from 2019-01-31 11:09:11.  
If the changes were made after this time, please try to revalidate again in a few minutes, to allow the data to be refreshed.

Action	Status	Details
Add IPs to Object h-1.1.1.2	The change was not detected on this device	IPs not found: 1.1.1.1

2. If validation indicates that the implemented changes did *not* achieve the desired result specified in the change request, then the network operations user re-initiates the Implement stage.
3. The network operations user composes an email message in FireFlow, notifying the requestor that the requested changes were implemented.
4. FireFlow sends the email to the requesting privileged user.
5. The network operations user resolves the change request.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Resolved

Once the change request has been validated, it enters the Resolved stage.

## Audit

The Audit stage for object change request lifecycles is identical to the Audit stage for traffic change request lifecycles. See Audit (see [Audit](#)).

## Multi-device object change workflow

This topic describes the events that occur in each stage in a default multi-device object change workflow.

**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the **Request** stage, a privileged user submits a request for a multi-device object change, initiating the FireFlow change request lifecycle.

**Note:** A multi -device object change request cannot be created in the Web Interface. It can only be created with the FireFlow REST API.

If licensed, AppChange, layered over AppViz can also initiate these change requests when editing an object. This option depends on your AppViz configuration.

This stage consists of the following steps:

1. The requesting privileged user initiates the request via a REST call, directly or from AppViz.

The request includes information about a device object to create, delete, or modify.

2. FireFlow receives the request information and creates a *change request*.
3. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.
4. FireFlow sends an email message informing the requesting privileged user that the change request was created, and specifying the change request ID in the format **[FireFlow #<number>]**, for example **[FireFlow #49]**.

The change request ID number additionally appears in the response of the REST call.

## Plan

Multi device object change requests automatically continue through the plan stage to the approve stage.

## Approve

The Approve stage consists of the following steps:



1. The *default assignee* of the role handling change requests in the Approve stage (by default, the Information Security role) is assigned as the change request's owner.
2. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the information security role.
  - An information security user chooses to take responsibility for the change request.
3. FireFlow initiates a search for rules that would be affected by the requested object change.

FireFlow returns a list of affected rules:

4. The information security user does one of the following:
  - Approves the change request and sends it on to the next stage.
  - Rejects the change request. In this case the change request returns to the start of the Approve stage.
  - Rejects and closes the change request. In this case, an email message is sent to the requesting privileged user, indicating that the request is denied.
  - Contacts the requestor and asks for more information.

## Implement

The Implement stage for multi-device object change requests is similar to that of single-device object change requests, with the addition of ActiveChange support, depending on the device type.

## Validate

In the Validate stage, the network operation user validates the implemented device object changes against the change request. This stage consists of the following steps:

1. The network operations user validates the implemented device policy changes against the change request.

2. If validation indicates that the implemented changes did *not* achieve the desired result specified in the change request, then the network operations user re-initiates the Implement stage.
3. The network operations user composes an email message in FireFlow, notifying the requestor that the requested changes were implemented.
4. FireFlow sends the email to the requesting privileged user.
5. The network operations user resolves the change request.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Resolved

Once the change request has been validated, it enters the Resolved stage.

## Audit

The Audit stage for object change request lifecycles is identical to the Audit stage for traffic change request lifecycles. See Audit (see [Audit](#)).

## Rule removal workflow

This topic describes the events that occur in each stage in a default rule removal change workflow.

**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the Request stage, a privileged user submits a request to remove or disable one or more device rules, initiating the FireFlow change request lifecycle.

This stage consists of the following steps:

1. The requesting privileged user selects a template on which to base their request.
2. If the template specifies a workflow, FireFlow assigns the request to that workflow.
3. The requesting privileged user submits the request to FireFlow.

The request includes information about one or more device rules to remove or disable. For example, the requestor may submit the following request:

Reselect Rules					
NAME	SOURCE	DESTINATION	SERVICE	ACTION	COMMENT
++ Internal_Net_10	GP_ile.vered.net	TCP http	Encrypt	Access to Web Learning servers at Garden	
++ Internal_Net_233	FW_ILE	TCP https		FireFlow #307: PC_il2.vered.net Removed 2007/03/5 DT	
FW_ILE	rose_checkpoint	TCP ftp		per Bill	
rose_checkpoint				VPN pass through to ILE 2007/03/09	

Requested action:  Disable rule  
 Remove rule

4. FireFlow receives the request information and creates a *change request*.
5. If a workflow has not yet been assigned, FireFlow assigns a workflow. For more details, see [Request templates and workflows](#).
6. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.
7. FireFlow sends an email message informing the requesting privileged user that the change request was created, and specifying the change request ID in the format [FireFlow #<number>], for example [FireFlow #49].

## Approve

In the Approve stage, the network operations user determines the network issues entailed in satisfying the request. This stage consists of the following steps:

1. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the network operations role.
  - A network operations user chooses to take responsibility for the change request.
2. The network operations user initiates a search for change requests whose traffic





intersects that of the selected device rule.

FireFlow returns a list of related change requests:

Related Change Requests

The following change requests are supported by the traffic being recertified

Information is based on data from Thu Jan 31 14:39:19 2019

Id	Subject	Requestor	Policy to be changed	Device Name	Already Works on Devices	Status	Owner	Created	Last Updated
4023	(No subject)	ned@company.com		 Flower_ASA		implement	ned	2 years ago	2 years ago
4024	(No subject)	ned@company.com		 Iris_Cisco		implement	ned	2 years ago	2 years ago
4022	(No subject)	ned@company.com		 Flower_ASA  Iris_Cisco		implement	ned	2 years ago	2 years ago

- The network operations user then specifies which of the related change requestors (and optionally other users) should receive a notification that the rule will be deleted.

Notify Requestors

The following users have requested change requests that are supported by the selected rules. Please select the users to notify about the rules removal.

Requestor	Name	Email Address	Related Change Requests	Related Rules Id
<input checked="" type="checkbox"/> ned	Ned NetOps	ned@company.com	2354	

- FireFlow sends an email to the selected requestors.
- The requestors respond via an email message or the web interface.
- The network operations user does one of the following:
  - Approves the change request and sends it on to the next stage.
  - Rejects and closes the change request. In this case, an email message is sent to the requesting privileged user, indicating that the request is denied.
  - Contacts the requestor and asks for more information.
  - Extends the due date of the change request, giving users more time to respond.

## Implement






In the Implement stage, the network operations user plans and executes request implementation.

This stage consists of the following steps:

1. FireFlow creates a work order and displays a list of recommendations for implementing the requested change.

**Work Order Recommendations**

Please disable rule 36:

NAME	SOURCE	DESTINATION	SERVICE	ACTION	COMMENT
	 GP_NW_BAI_LAN  GP_NW_SLI_LAN	 NW_Garden_ICN_003	 TCP https	 accept	FireFlow #322: Added by Sally

**Implementation Notes** [Edit](#)

Implementation (no value)  
Notes:

2. The network operations user edits the work order, by adding notes to the work order.
3. The network operations user implements the requested changes on the security device according to the work order, by doing one of the following:
  - The user manually implements the changes or implements the changes using the relevant management system (for example, Check Point Dashboard or Juniper NSM).
  - The user implements the changes from FireFlow using ActiveChange.

**Note:** In order to use ActiveChange, it must be licensed and enabled.

4. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, the network operation user validates the implemented rule removal/disablement against the change request. This stage consists of the following steps:

1. The network operations user validates the implemented rule removal/disablement against the change request.

Requested action	Status
Disable rule	Rule was either removed or disabled as planned from device Flower_ASA

Validation is based on data from 2019-01-04 01:05:52  
The information is based on data from the last report

2. If validation indicates that the specified rule was not removed/disabled, then the network operations user re-initiates the Implement stage.
3. Once the rule removal/disablement has been successfully validated, the network operations user resolves the change request.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Resolved

Once the change request has been validated, it enters the Resolved stage.

## Audit

The Audit stage for rule removal request lifecycles is identical to the Audit stage for traffic change request lifecycles. See Audit (see [Audit](#)).

## Rule modification workflow

This topic describes the events that occur in each stage in a default rule modification change workflow.

**Note:** FireFlow is fully configurable, and your system may differ.

## Request

In the Request stage, a privileged user submits a request to modify a device rule, initiating the FireFlow change request lifecycle. This stage consists of the following steps:

1. The requesting privileged user selects a template on which to base their request.
2. If the template specifies a workflow, FireFlow assigns the request to that workflow.
3. The requesting privileged user submits the request to FireFlow.

The request includes information about which device rule to modify, and how it should be modified. For example, the requestor may submit the following request:

Select Rule

NAME	SOURCE	DESTINATION	SERVICE	ACTION	COMMENT
	scr1401.scr.tpub.com_INT	* Any	ftp	accept	Eagle Flight Pagation Server. Need to bypass eSafe for FTP.

1.

Type or doubleclick Type or doubleclick Type or doubleclick

4. FireFlow receives the request information and creates a *change request*.
5. If a workflow has not yet been assigned, FireFlow assigns a workflow. For more details, see [Request templates and workflows](#).
6. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.
7. FireFlow sends an email message informing the requesting privileged user that the change request was created, and specifying the change request ID in the format [FireFlow #<number>], for example [FireFlow #49].

## Approve

In the Approve stage, a user with the information security role determines the security risks entailed in satisfying the request. This stage consists of the following steps:

1. The *default assignee* of the role handling change requests in the Approve stage (by default, the Information Security role) is assigned as the change request's owner.
2. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the information security role.

- An information security user chooses to take responsibility for the change request.
3. If the change request includes an "Allow" action, FireFlow initiates a risk check, to determine whether implementing the requested Allow traffic change would introduce risks.

FireFlow returns the number and severity of risks detected. The user can view a risk assessment of each risk:

**Risk Assessment**

 I26 FTP can enter your network (x1)

**Findings**

ftp\_control is allowed to cross into your internal network segments. [Details](#)

Number of Outside IP addresses that have access: 1  
Number of exposed Inside addresses: 1

FTP is the File Transfer Protocol. Normally, machines from the outside should not be able to access the FTP servers on your internal network segments. Serious vulnerabilities have been found in many versions of FTP server software. You may have many FTP servers on your internal networks and it is difficult to ensure that they are all properly hardened. Allowing access from the **Outside** to the internal FTP servers is risky, since a compromised or infected machine could access or damage the data on these servers.

This risk has a **CVSS** base score in the range of 2.0-3.9. To be considered PCI DSS compliant, the [PCI Data Security Standard: Requirements and Security Assessment Procedures](#), Version 3.0 (November 2013) require that a scan must not contain any vulnerability that has been assigned a [Common Vulnerability Scoring System](#) (CVSS) base score equal to or higher than 4.0.

Note: If this risk is not relevant in your environment, you may use the AlgoSec Firewall Analyzer customization suite to reduce its severity level, all the way down to "Ignore" if necessary. If the risk is flagged for traffic that you trust and require for your business, use the customization suite's "Trusted Traffic" feature to mark the traffic as such. Your changes will take effect with the next AFA report you generate.

**Remedy**

Review the rules that allow ftp\_control access from the **Outside** into your internal networks and eliminate them. If you need to transfer information from the internal network segments to outside servers, consider using a "push"-based solution which is initiated by the internal machines.

[Show All Risks](#)

4. If the change request includes a "Drop" action, the following things happen:
  - a. The network operations user initiates a search for change requests whose traffic will be blocked by the "Drop" action.
  - b. FireFlow returns a list of related change requests.
  - c. The network operations user then specifies which of the related change requestors (and optionally other users) should receive a notification that the traffic will be blocked.
  - d. FireFlow sends an email to the selected requestors.
  - e. The requestors respond via email message or Web interface.
5. The information security user does one of the following:



- Approves the change request and sends it on to the next stage.
- Rejects the change request and returns it to the Plan stage.
- Rejects and closes the change request. In this case, an email message is sent to the requestor, indicating that the request is denied.
- Contacts the requestor and asks for more information.

## Implement

In the Implement stage, the network operations user plans and executes request implementation. This stage consists of the following steps:

1. FireFlow creates a work order and displays a list of recommendations for implementing the requested change.

**Work Order Recommendations**

Recalculate Edit

Last Updated: Thu Jan 31 2019 12:58:26 PM

1. Modify rule:

Device	Daffodil_SRX
From Zone	Ext
To Zone	Int
Rule	2511-1 <a href="#">View Policy</a>

	Source	Destination	Service	Action	Description
Modify Rule Values	ip-10.131.12.5	ip-10.135.12.5	junos-tcp-any	Permit	FireFlow #4049
	<del>10.1.1.2</del>	a_10.135.12.66			
		1.1.1.1/32			
Change Request Details	ip-10.131.12.5	ip-10.135.12.5 a_10.135.12.66 1.1.1.1	junos-tcp-any tcp/80	Permit	

values to add to the existing rule.

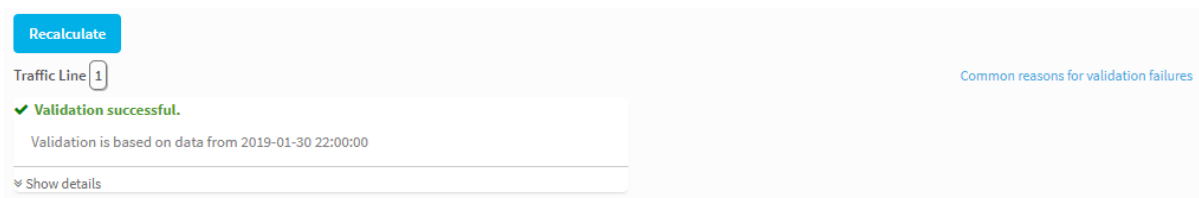
2. If the rule has changed while the change request was being processed, the network operations user will have the option to re-plan. Re-planning updates the rule values in FireFlow.
3. The network operations user edits the work order, by adding notes to the work order.

4. The network operations user implements the requested changes on the security device according to the work order, by using the relevant management system (for example, Check Point Dashboard or Juniper NSM) to implement the changes.
5. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, the network operation user validates the implemented rule modification against the change request. This stage consists of the following steps:

1. The network operations user validates the implemented rule modification against the change request.



2. If validation indicates that the specified rule was not modified, then the network operations user re-initiates the Implement stage.
3. Once the rule modification has been successfully validated, the network operations user resolves the change request.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Match

According to a configurable schedule, FireFlow automatically checks all devices for rule changes and determines the following:

- Each change is associated with a change request.
- Each change request is associated with a change.
- Each change is associated with the *correct* change request.

- The scope of each change matches the approved scope in the associated change request.

If there are no problems with a given change request, FireFlow automatically marks it as matched.

For control purposes, an information security user periodically checks that all change requests were matched successfully, and resolves any problems that FireFlow may have detected during auto matching. The Match stage consists of the following steps:

1. The information security user checks whether FireFlow detected any matching problems with the validated change requests in the system.

▼ Action Required - 46956	Customize
▶ 46744 Changes Without Request	
▶ 211 Change <-> Change Request Mismatch	
▶ 1 Changes Wider than Request	
▶ 0 Change Requests Partially Implemented	

2. If a problem is detected for a change request, the information security user does one of the following:
  - Re-opens the change request
  - Manually approves the mismatch

**Note:** It is recommended to perform these steps on a weekly or monthly basis.

## Resolved

Once the change request has been validated, it enters the Resolved stage.

## Audit

The Audit stage for rule modification request lifecycles is identical to the Audit stage for traffic change request lifecycles. See Audit (see [Audit](#)).

## Web filtering change workflow

This topic describes the events that occur in each stage in a default web filtering change workflow.

**Note:** FireFlow is fully configurable, and your system may differ.

### Request

In the Request stage, a requestor submits a request to filter a URL, initiating the FireFlow change request lifecycle. This stage consists of the following steps:

1. The requestor selects a template on which to base their request.
2. If the template specifies a workflow, FireFlow assigns the request to that workflow.
3. The requestor submits the request to FireFlow.

The request includes information about the relevant user group, URL, category, and action for the Web filtering rule. For example, the requestor may submit the following request:

	UserGroup	URL	Category	Action
1.	Domain Admins	www.algosec.com	Type or doubleclick	<input checked="" type="radio"/> Allow <input type="radio"/> Block

[+ Add More Web Filtering](#)

4. FireFlow receives the request information and creates a *change request*.
5. If a workflow has not yet been assigned, FireFlow assigns a workflow. For more details, see [Request templates and workflows](#).
6. The *default assignee* of the role handling new change requests (by default, the Network Operations role) is assigned as the change request's *owner*.
7. FireFlow sends an email message informing the requestor that the change request was created, and specifying the change request ID in the format [FireFlow #<number>], for example [FireFlow #49].

## Plan

In the Plan stage, a user with the network operations role plots out the technical changes needed in order to satisfy the change request. This stage consists of the following steps:

1. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the network operations role.
  - A network operations user chooses to take responsibility for the change request.
2. FireFlow initiates a query to identify relevant devices.
3. The network operations user uses FireFlow to confirm which devices are relevant to the requested change.


### › Web Filtering

#### Results

| Change requests will be opened for 1 selected devices out of 1

### ▼ Devices that Require Changes | 1 selected devices out of 1

Device

 BlueBell\_BlueCoat

In Path

### › Devices that Already Work (No Devices)

4. If the network user modified the Web filtering change request, FireFlow tests whether the requested URL is already allowed/denied to the specified users/user groups. If the URL is already allowed/denied, the network operations user closes the change request, and FireFlow sends an email message to the requestor indicating that the change request was closed.
5. If there is more than one device that is relevant to the change, the network operations user selects the devices on which to implement the change.
6. The network operation user sends the change request on to the next stage.

7. If the network operations user selected multiple devices, FireFlow will generate a sub-request for each.

## Approve

The Approve stage consists of the following steps:

1. The *default assignee* of the role handling change requests in the Approve stage (by default, the Information Security role) is assigned as the change request's owner.
2. The change request may change ownership in one of the following ways:
  - The change request owner assigns it to a user with the information security role.
  - An information security user chooses to take responsibility for the change request.
3. The information security user does one of the following:
  - Approves the change request and sends it on to the next stage.
  - Rejects the change request. In this case the change request returns to the start of the Approve stage.
  - Contacts the requestor and asks for more information.

## Implement

In the Implement stage, the network operations user plans and executes request implementation. If the request was created for multiple devices, this stage must be performed separately for each sub-request.

This stage consists of the following steps:

1. The change request's ownership is returned to the network operations user.
2. The network operations user chooses an organizational methodology to use for implementing the requested change.

BlueBell\_BlueCoat #2034  
 Status: create work order | Owner: ned

**Traffic**

UserGroup	URL	Relevant Category (optional)	Action
1. TechSupport	www.box.net	File Sharing	Allow

Organization Methodology:

- Add URL to Category
- Remove URL from Category
- Add a Policy URL Rule
- Add a Policy Category Rule

3. FireFlow creates a work order and displays a list of recommendations for implementing the requested change.

**Work Order Recommendations**

1. Remove URL from device category:
 

Device:	192_168_2_148
<b>Recommended Values</b>	
URL:	www.box.net
Category:	RequestURLCategory4
Change:	Remove

**Implementation Notes**

Implementation (no value)  
 Notes:

4. The network operations user edits the work order, by adding notes to the work order.
5. The network operations user implements the requested changes on the security device according to the work order.
6. The network operation user sends the change request on to the next stage.

## Validate

In the Validate stage, the network operation user validates the implemented device policy changes against the change request. The requestor then checks that the request was implemented, and the network operations user resolves the change request. This stage consists of the following steps:

1. The network operations user composes an email message in FireFlow, notifying the requestor that the requested changes were implemented.

To: "AlgoSec Administrator" <admin@company.com> (admin)

Cc:  (comma-delimited list of email addresses)

Bcc:  (comma-delimited list of email addresses)

Subject: Ticket Created From Blue Coat Exception page

Message:

Attach:  No file chosen

2. FireFlow sends the email to the requestor.
3. The requestor checks that the requested change was implemented and the desired result was achieved.
4. One of the following things happens:
  - If the desired result was not achieved, the requestor responds via an email message or via the Web interface, and the network operations user then re-initiates the implementation stage.
  - If the desired result was achieved, the requestor responds via an email message or via the Web interface, and the network operations user then resolves the change request.
  - If the requestor does not respond, the network operations user can choose to resolve the change request anyway.

At this point, the change request's lifecycle has effectively ended, and no further user action is required. However, the change request remains available in the system for auditing purposes, as described in the final stages.

## Resolved

Once the change request has been matched to the relevant change(s), it enters the Resolved stage.



## Audit

The Audit stage for Web filtering change request lifecycles is identical to the Audit stage for traffic change request lifecycles. See Audit (see [Audit](#)).

# Request changes

Relevant for: All FireFlow users

This topic provides a high level description of the various methods available for creating new change requests.

As the change request is processed, FireFlow will send you notification emails. For more details, see [Respond to change requests](#).

**Tip:** By default, many request fields are optional. We recommend entering values for as many fields as possible to enable the team to process your request efficiently.

## Request changes via FireFlow

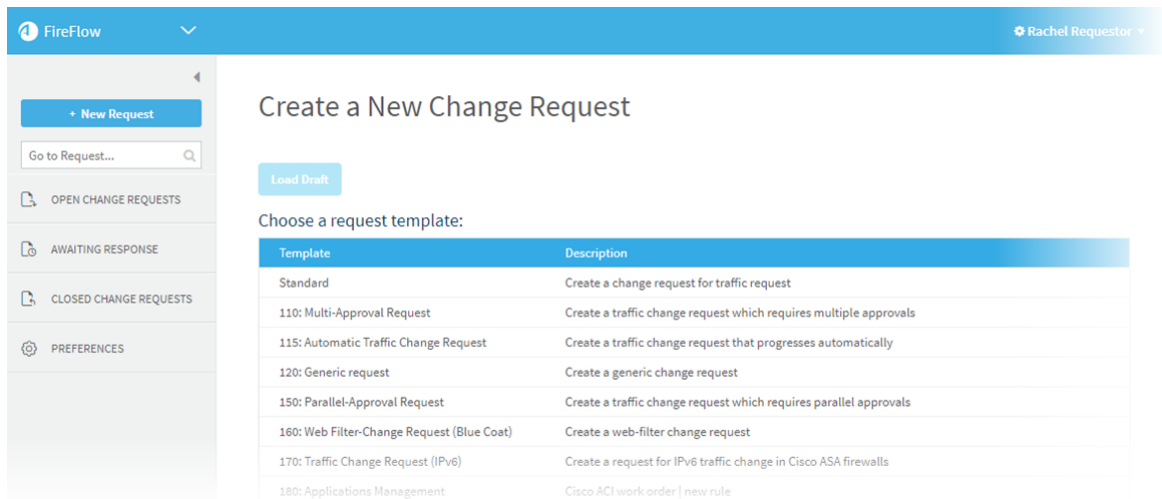
All FireFlow users can log in a submit a change request directly from FireFlow. The user interface will look different for FireFlow requestor users, displaying only the options available to them.

Do the following:

To submit a new change request, do the following:

1. In FireFlow, at the top left, click **+ New Request**. FireFlow displays a list of templates to choose from.

For example:



The screenshot shows the FireFlow interface for creating a new change request. The sidebar on the left contains a 'New Request' button and a search bar labeled 'Go to Request...'. Below the search bar are menu items for 'OPEN CHANGE REQUESTS', 'AWAITING RESPONSE', 'CLOSED CHANGE REQUESTS', and 'PREFERENCES'. The main content area is titled 'Create a New Change Request' and includes a 'Load Draft' button. Below this is a section 'Choose a request template:' followed by a table of templates.

Template	Description
Standard	Create a change request for traffic request
110: Multi-Approval Request	Create a traffic change request which requires multiple approvals
115: Automatic Traffic Change Request	Create a traffic change request that progresses automatically
120: Generic request	Create a generic change request
150: Parallel-Approval Request	Create a traffic change request which requires parallel approvals
160: Web Filter-Change Request (Blue Coat)	Create a web-filter change request
170: Traffic Change Request (IPv6)	Create a request for IPv6 traffic change in Cisco ASA firewalls
180: Applications Management	Cisco ACI work order   new rule

2. To load a recent draft, click **Load Draft** above the list of templates. Otherwise, click the template you want to use.

The **Create a New Change Request** page appears, displaying the fields configured for the selected template.

For example:

### Create a New Change Request

Back
Save Draft Next

**\* General**

Subject	Owner
<input type="text"/>	<input type="text"/>
Change request justification	Requestor*
<input type="text"/>	<input type="text" value="rachel@mycorp.com"/>
Due	Expires
<input type="text"/>	<input type="text"/>
Attachments	Device Name
<input type="button" value="+ Add files..."/>	<input type="text"/>

**\* Traffic**

[Import traffic from csv](#)

1	Source <input type="text" value="Type or select"/> User <input type="text" value="any x"/> NAT settings	Destination <input type="text" value="Type or select"/>	Service <input type="text" value="Type or select"/> Application <input type="text" value="any x"/>	Action <input type="text" value="Allow"/>
---	---	---	---	---

### 3. Enter the field values as needed.

- All **Traffic** fields are mandatory, as indicated by a red asterisk.
- IPv4 and IPv6 traffic cannot be mixed in the same traffic request.

### Upload a request spreadsheet

FireFlow enables you to upload a spreadsheet with request data. By default, change requests submitted via spreadsheet use the **120: Generic Request** template.

Do the following:

a. Prepare your file. Supported file types include:

- **xls** (Microsoft Excel up to 2003)
- **xlsx** (Microsoft Excel 2007 and up)
- **sxc** (OpenOffice 1.0 Spreadsheet)
- **ods** (OpenOffice Spreadsheet)
- **csv** (Coma-separated text values)

Sample files are saved to your FireFlow machine at **/usr/share/fireflow/local/extras**.

In the file, **Source**, **Destination**, **Protocol**, and **Port** columns are mandatory.

b. In the **Create a New Change Request** page, click **Add Files** to attach the spreadsheet to your request.

**Note:** By default, FireFlow creates a separate change request from each traffic line in the spreadsheet file. Your system may differ. For details, contact your FireFlow administrator.

For more details, see [Change request field references](#).

4. To save a draft and continue later, click **Save Draft**, and then click **OK**.

**Note:** FireFlow supports one draft per user. New drafts overwrite previous draft versions.

To create your request, click **Next**.

FireFlow creates your request and displays the request ID number linked from the top-right of your screen. Click the linked number to view the change request.

FireFlow also sends you an email notification and checks your request.


- **If the traffic already works**, FireFlow automatically closes the request and sends you another confirmation email.
- **If the request requires changes**, FireFlow pushes the request through the workflow configured for your request template.

For more details, see [View change requests](#).

## Duplicate a change request in FireFlow

To create a change request that is similar to an existing one, duplicate the existing change request, making changes as needed.

Do the following:

1. In FireFlow, navigate to the change request you want to duplicate. For details, see [View change requests](#).
2. At the top of the page, click , and then click **Duplicate**.

The **Create a New Change Request** page appears, with the original request's details and subject.

3. Modify the values as needed, and click **Create**.

For details, see [Change request field references](#).

3. Modify the fields as desired, using the information in Requestor Create Change Request Fields (see [Change request field references](#)).
4. Click **Create**.

FireFlow creates your request and sends you an email confirmation. At the same time, FireFlow checks your request and does one of the following:

- **If the traffic already works**, FireFlow automatically closes the request and sends you another confirmation email.

- If the request requires changes, FireFlow pushes the request through the workflow configured for your request template.

## Request a change via the no-login request form

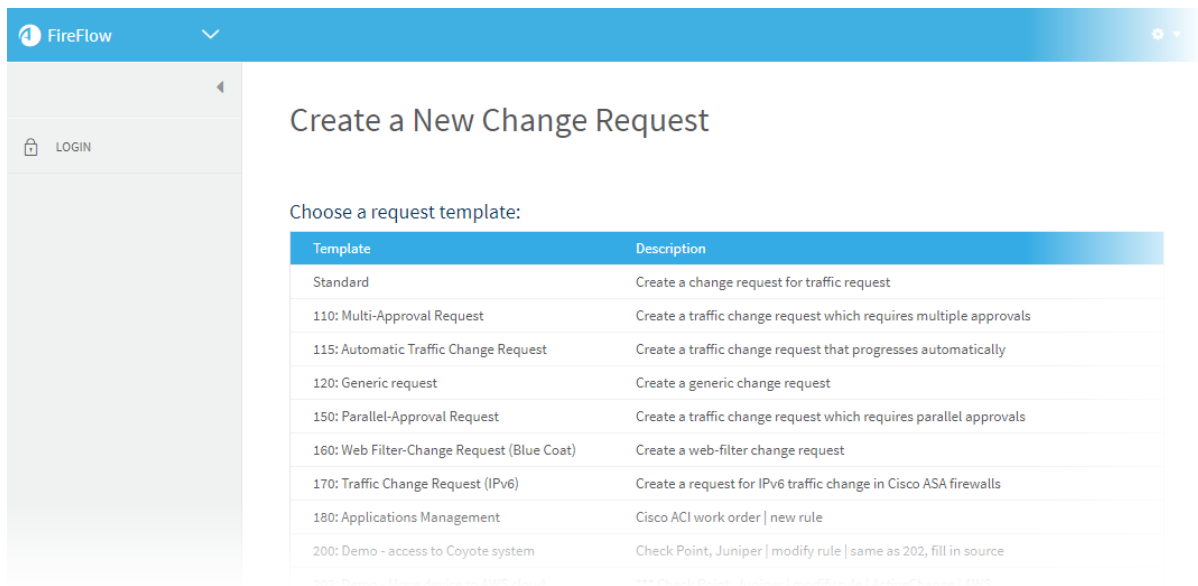
FireFlow's no-login request form enables you to submit a request without logging in to FireFlow.

**Note:** This method is only available if configured for your system. For more details, contact your FireFlow administrator.

Do the following:

1. In your browser's **Address** field, enter `https://<fireflow server>/FireFlow/NewTicket` where `<FireFlow_server>` is the FireFlow server URL.

The **Create a New Change Request** page is displayed with a list of templates. For example:



2. Click the name of the template you want to use. For more details, see [Request templates and workflows](#). If you have questions about custom templates or

workflows, contact your FireFlow administrator.

The FireFlow **Create a New Change Request** page is displayed.

3. Complete the fields as required. For details, see [Change request field references](#)
4. Click **Next** to create your request.

FireFlow creates your request and sends you an email confirmation. At the same time, FireFlow checks your request and does one of the following:

- **If the traffic already works**, FireFlow automatically closes the request and sends you another confirmation email.
- **If the request requires changes**, FireFlow pushes the request through the workflow configured for your request template.

## Request a change by email

Send an email to FireFlow with the details of your change request.

**Note:** This method is only available if configured for your system. For more details, contact your FireFlow administrator.

Do the following:

1. Create a new email to the FireFlow system email address. For details, contact your FireFlow administrator.
2. Include the following line anywhere in your email:

```
Source: <source> Destination: <destination> Service: <service> Action: <action>
```

where:

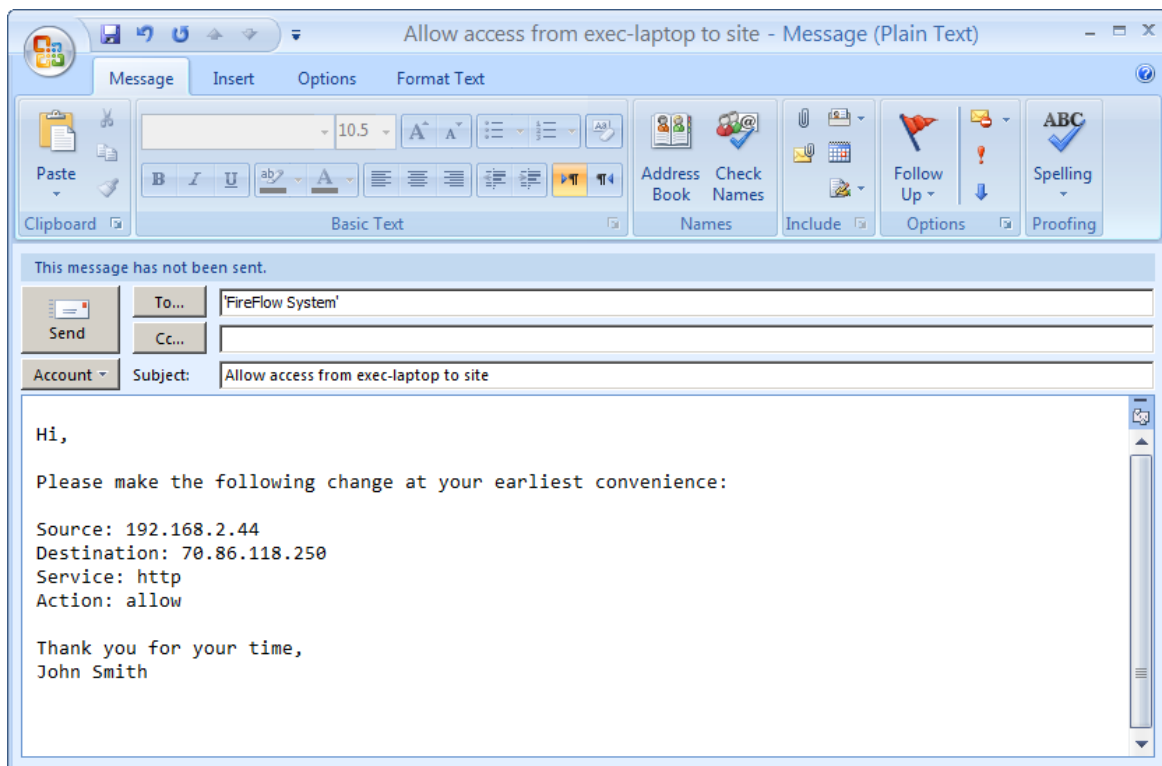
- **<source>** is an IP address, IP range, network or device object.
- **<destination>** is an IP address, IP range, network or device object.
- **<service>** is the device service or port.



- **<action>** is the device action to perform for the connection:
  - **allow**. Allow the connection.
  - **block**. Block the connection.

**Note:** This syntax is the default FireFlow syntax for emailing change requests. Your system may be configured differently. For details, contact your FireFlow administrator.

For example:



FireFlow creates your request and sends you an email confirmation. Your email text and any technical details specified is added to the change history.

At the same time, FireFlow checks your request and does one of the following:

- **If the traffic already works**, FireFlow automatically closes the request and sends you another confirmation email.

- If the request requires changes, FireFlow pushes the request through the workflow configured for your request template.

## Request a change from the Symantec Blue Coat **Blocked** page

If you attempt to access a URL that is blocked by the Symantec Blue Coat device's web filtering policy, the **Blocked** page enables you to submit a change request directly.

For example:



Do the following:

1. Click the link on the page, such as **please click here**, or **Autocreate Change Request**, depending on configuration.

FireFlow displays the **Create a New Change Request** page.

2. Complete the fields as needed. For details, see [Web-filter change request fields](#).
3. Click **Create**.

FireFlow creates your request and sends you an email confirmation. At the same time, FireFlow checks your request and does one of the following:


- If the traffic already works, FireFlow automatically closes the request and sends you another confirmation email.
- If the request requires changes, FireFlow pushes the request through the workflow configured for your request template.


## Change request field references

Relevant for: All FireFlow users

This topic describes the fields available in FireFlowchange requests.

### Generic change request fields



Name	Description
<b>Subject</b>	<p>Type a title for your request and for the change request that will be generated.</p> <p><b>Note:</b> This field is optional.</p>
<b>Due</b>	<p>Specify the date by which this change request should be resolved, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. You can use most relative and absolute formats, for example <code>yyyy-mm-dd</code>, <code>mm/dd/yyyy</code>, <code>Mon dd yyyy</code>, “next week”, and “now + 3 days”.</li> </ul> <p><b>Note:</b> This field is optional.</p>
<b>Describe the issue</b>	<p>Type a free text description of the issue.</p> <p>This description will be reviewed by the network operations and information security users who handle your change request. It will also be added to the change request history.</p> <p><b>Note:</b> This field is optional.</p>

Name	Description
<b>Attach File</b>	<p>To attach a file to your request, do one of the following:</p> <ul style="list-style-type: none"> <li>• Type the path to the file in the field provided.</li> <li>• Click <b>Browse</b>, browse to the desired file, and click <b>Open</b>.</li> </ul> <p>If you are using the <b>120: Generic Request template</b> or any custom template that allows creating change requests from files, FireFlow will create a change request from an attached spreadsheet file. For more information on creating change requests from file, see <a href="#">Creating Change Requests from File</a>.</p> <ul style="list-style-type: none"> <li>• To add more files, click <b>Add More Files</b>.</li> </ul> <p><b>Note:</b> This field is optional.</p>
<b>Requestor</b>	<p>In the Requestors Web Interface, this field displays your email address and is read-only.</p> <p><b>Note:</b> In the No-Login Web Form, you must type your email address.</p>
<b>Expires</b>	<p>Specify the date on which this change request will expire, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided.</li> </ul> <p>FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</p> <p><b>Note:</b> This field is optional.</p>

Name	Description
<b>External change request id</b>	<p>If you have already opened a change request for this request in an external change management system that is integrated with FireFlow, type the change request's ID number.</p> <p>The FireFlow change request generated for your request will be linked to the external system change request.</p> <p><b>Note:</b> This field is optional.</p>
<b>Workflow</b>	<p>The change request's workflow.</p> <p><b>Note:</b> This field is read-only.</p>
<b>From Template</b>	<p>The change request's template.</p> <p><b>Note:</b> This field is read-only.</p>

### Traffic-based change request fields



Name	Description
<b>Requestor</b>	<p>In the Requestors Web Interface, this field displays your email address and is read-only.</p> <p><b>Note:</b> In the No-Login Web Form, you must type your email address.</p>
<b>Subject</b>	<p>Type a title for your request and for the change request that will be generated.</p> <p><b>Note:</b> This field is optional.</p>

Name	Description
<b>Due</b>	<p>Specify the date by which this change request should be resolved, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided.</li> </ul> <p>FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</p> <p><b>Note:</b> This field is optional.</p>
<b>Expires</b>	<p>Specify the date on which this change request will expire, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</li> </ul> <p><b>Note:</b> This field is optional.</p>
<b>Request</b>	<p>Due to system customizations, this area may include fields that are not described below. Some possible additional fields are described below. For additional information, consult with your FireFlow administrator.</p>
<b>Source</b>	<p>Specify the traffic source(s). For details, see <a href="#">Change request wizards</a>.</p> <p><b>Note:</b> You can optionally input variables into traffic fields, and these variables will be set to the desired value once you submit the change request. For details, see <a href="#">Variables in traffic fields</a>.</p>

Name	Description
<b>User</b>	<p>Enter one or more (comma separated) user names and/or groups. The default value is <b>Any</b>.</p> <p>This field is only relevant for Check Point and Palo Alto devices.</p>
<b>Destination</b>	<p>Specify the traffic destination(s). For details, see <a href="#">Change request wizards</a>.</p> <p><b>Note:</b> You can optionally input variables into traffic fields, and these variables will be set to the desired value once you submit the change request. For details, see <a href="#">Variables in traffic fields</a>.</p>
<b>Service</b>	<p>Specify the traffic service(s). For details, see <a href="#">Change request wizards</a>.</p> <p><b>Note:</b> You can optionally input variables into traffic fields, and these variables will be set to the desired value once you submit the change request. For details, see <a href="#">Variables in traffic fields</a>.</p> <p><b>Note:</b> For traffic that affects Check Point devices, you must specify a service that is supported by the authentication method. For information on supported services for each method, refer to Check Point documentation.</p>
<b>Application</b>	<p>Specify the application(s). For details, see <a href="#">Change request wizards</a>.</p> <p>The default value is <b>Any</b>.</p> <p>This field is only relevant for Palo Alto devices.</p>
<b>Action</b>	<p>Choose the device action to perform for the connection. This can be either of the following:</p> <ul style="list-style-type: none"> <li>• <b>Allow:</b> Allow the connection.</li> <li>• <b>Drop:</b> Block the connection.</li> <li>• <b>Note:</b> When using the Traffic Change Request (IPv6) workflow, only traffic with "Allow" actions is supported.</li> </ul>


Name	Description
<b>Show NAT</b>	<p>Click this option to display Network Address Translation (NAT) and Port Address Translation (PAT) for the defined traffic.</p> <p>The <b>Source NAT</b>, <b>Destination NAT</b>, <b>Port Translation</b>, and <b>NAT Type</b> fields appear.</p> <p>Depending on system customizations, the <b>Source after NAT</b>, <b>Destination after NAT</b>, and <b>Port after Translation</b> fields may appear as well.</p>
<b>Hide NAT</b>	Click this option to hide the NAT and PAT fields.
<b>Source NAT</b>	<p>Type the source NAT value, if the connection's source should be translated.</p> <p><b>Note:</b> If the <b>Source after NAT</b> field appears below this field, then you must type the source NAT value <i>before</i> translation.</p>
<b>Source after NAT</b>	Type the source NAT value after translation, if the connection's source should be translated.
<b>Destination NAT</b>	<p>Type the destination NAT value, if the connection's destination should be translated.</p> <p><b>Note:</b> If the <b>Destination after NAT</b> field appears below this field, then you must type the destination NAT value <i>before</i> translation.</p>
<b>Destination after NAT</b>	Type the destination NAT value after translation, if the connection's destination should be translated.
<b>Port Translation</b>	<p>Type the port value, if the connection's port should be translated.</p> <p><b>Note:</b> If the <b>Port after Translation</b> field appears below this field, then you must type the port value <i>before</i> translation.</p>
<b>Port after Translation</b>	Type the port value after translation, if the connection's port should be translated.
<b>NAT Type</b>	<p>Specify the type of NAT (<b>Static</b> or <b>Dynamic</b>).</p> <p><b>Note:</b> If you filled in the <b>Source NAT</b>, <b>Destination NAT</b>, and/or <b>Port Translation</b> fields, then you must specify the NAT type.</p>





Name	Description
<b>Add More Traffic</b>	To add more traffic to the request, click this option and complete the fields.
<b>Set traffic values</b>	Click this button to set traffic values for variables you have put in the source, destination or service fields. For details, see <a href="#">Variables in traffic fields</a> .
<b>Import traffic from csv</b>	Click this link to import a CSV file of traffic lines. Select the CSV file from your computer. <b>Required Headers:</b> <ul style="list-style-type: none"> <li>• Source</li> <li>• Destination</li> <li>• Service</li> </ul> <b>Optional Headers:</b> <ul style="list-style-type: none"> <li>• User. If this header is not present, the value defaults to "any".</li> <li>• Application. If this value is not present, the value defaults to "any".</li> <li>• Action. If this header is not present, the value defaults to "allow".</li> </ul> Any other headers included in the CSV file are ignored.  <div style="background-color: #e6f2ff; padding: 5px;"><b>Note:</b> All headers are not case sensitive. Multiple entries (such as IP addressees, ranges, or networks) that appear in a single cell must be separated by commas within the cell.</div>
	To replicate a traffic line (add a new traffic line with the same traffic as in the current traffic line), click this option and modify the fields as desired.
	To remove additional traffic from the request, click this option next to the desired traffic.
<b>More</b>	

Name	Description
<b>External change request id</b>	<p>If you have already opened a change request for this request in an external change management system that is integrated with FireFlow, type the change request's ID number.</p> <p>The FireFlow change request generated for your request will be linked to the external system change request.</p> <p><b>Note:</b> This field is optional.</p>


## IPv6 traffic change request fields

Name	Description
<b>Requestor</b>	<p>In the Requestors Web Interface, this field displays your email address and is read-only.</p> <p><b>Note:</b> In the No-Login Web Form, you must type your email address.</p>
<b>Subject</b>	<p>Type a title for your request and for the change request that will be generated.</p> <p><b>Note:</b> This field is optional.</p>
<b>Due</b>	<p>Specify the date by which this change request should be resolved, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</li> </ul> <p><b>Note:</b> This field is optional.</p>

Name	Description
<b>Expires</b>	<p>Specify the date on which this change request will expire, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</li> </ul> <p><b>Note:</b> This field is optional.</p>
<b>Request</b>	<p>Use this area to specify the traffic changes you would like.</p> <p>By default, when submitting a traffic change request, this area includes the following fields for defining traffic: <b>Source</b>, <b>Destination</b>, <b>Service</b>, <b>Action</b>, <b>Show NAT</b>, <b>Hide NAT</b>, <b>Source NAT</b>, <b>Destination NAT</b>, <b>Port Translation</b>, <b>NAT Type</b>, <b>Add More Traffic</b>, and .</p> <p>Due to system customizations, this area may differ in the following ways:</p> <ul style="list-style-type: none"> <li>• NAT fields may not appear.</li> <li>• The following additional NAT fields may appear: <b>Source after NAT</b>, <b>Destination after NAT</b>, <b>Port after Translation</b>.</li> <li>• The <b>Source</b>, <b>Destination</b>, and/or <b>Service</b> fields may be followed by a custom field. For information about these fields, consult with your FireFlow administrator.</li> <li>• Each row of traffic may be followed by a custom field. For information about these fields, consult with your FireFlow administrator.</li> </ul>


Name	Description
<b>Source</b>	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>Type the IP address, IP range, network, or device object.</li> <li>Use the <b>Choose Source Wizard</b>. For details, see <a href="#">Change request wizards</a>.</li> </ul> <p><b>Note:</b> Only IPv6 addresses are supported. You cannot mix IPv6 and IPv4 addresses in the same workflow.</p>
<b>Destination</b>	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>Type the IP address, IP range, network, device object.</li> <li>Use the <b>Choose Destination Wizard</b>. For details, see <a href="#">Change request wizards</a>.</li> </ul> <p><b>Note:</b> Only IPv6 addresses are supported. You cannot mix IPv6 and IPv4 addresses in the same workflow.</p>
<b>Service</b>	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>Type the device service or port for the connection (for example "http" or "tcp/123"). For more details, see <a href="#">Traffic-based change request fields</a>.</li> </ul> <p>For information on how to use non-TCP/UDP/ICMP protocols, see <a href="#">Supported layer 3 protocols</a>.</p> <ul style="list-style-type: none"> <li>Use the <b>Choose Service Wizard</b>. For details, see <a href="#">Change request wizards</a>.</li> </ul>
<b>Action</b>	<p>Choose the device action to perform for the connection. This can be either of the following:</p> <ul style="list-style-type: none"> <li><b>Allow:</b> Allow the connection.</li> <li><b>Drop:</b> Block the connection.</li> </ul>



Name	Description
Show NAT	<p>Click this option to display Network Address Translation (NAT) and Port Address Translation (PAT) for the defined traffic.</p> <p>The <b>Source NAT</b>, <b>Destination NAT</b>, <b>Port Translation</b>, and <b>NAT Type</b> fields appear.</p> <p><b>Note:</b> Depending on system customizations, the <b>Source after NAT</b>, <b>Destination after NAT</b>, and <b>Port after Translation</b> fields may appear as well.</p>
Hide NAT	Click this option to hide the NAT and PAT fields.
Source NAT	<p>Type the source NAT value, if the connection's source should be translated.</p> <p><b>Note:</b> If the <b>Source after NAT</b> field appears below this field, then you must type the source NAT value <i>before</i> translation.</p>
Source after NAT	Type the source NAT value after translation, if the connection's source should be translated.
Destination NAT	<p>Type the destination NAT value, if the connection's destination should be translated.</p> <p><b>Note:</b> If the <b>Destination after NAT</b> field appears below this field, then you must type the destination NAT value <i>before</i> translation.</p>
Destination after NAT	Type the destination NAT value after translation, if the connection's destination should be translated.
Port Translation	<p>Type the port value, if the connection's port should be translated.</p> <p><b>Note:</b> If the <b>Port after Translation</b> field appears below this field, then you must type the port value <i>before</i> translation.</p>
Port after Translation	Type the port value after translation, if the connection's port should be translated.

Name	Description
NAT Type	<p>Specify the type of NAT (<b>Static</b> or <b>Dynamic</b>).</p> <p><b>Note:</b> If you filled in the <b>Source NAT</b>, <b>Destination NAT</b>, and/or <b>Port Translation</b> fields, then you must specify the NAT type.</p>
Add More Traffic	<p>To add more traffic to the request, click this option and complete the fields.</p>
	<p>To remove additional traffic from the request, click this option next to the desired traffic.</p>
From Template	<p>The change request's template.</p> <p><b>Note:</b> This field is read-only.</p>
Workflow	<p>The change request's workflow.</p> <p><b>Note:</b> This field is read-only.</p>
External change request id	<p>If you have already opened a change request for this request in an external change management system that is integrated with FireFlow, type the change request's ID number.</p> <p>The FireFlow change request generated for your request will be linked to the external system change request.</p> <p><b>Note:</b> This field is optional.</p>
Describe the issue	<p>Type a free text description of the issue.</p> <p>This description will be reviewed by the network operations and information security users who handle your change request. It will also be added to the change request history.</p> <p>This field is optional.</p>

Name	Description
<b>Attach file</b>	<p>To attach a file to your request, do one of the following:</p> <ul style="list-style-type: none"> <li>• Type the path to the file in the field provided.</li> <li>• Click <b>Browse</b>, browse to the desired file, and click <b>Open</b>.</li> </ul> <p>To add more files, click <b>Add More Files</b>.</p> <p><b>Note:</b> This field is optional.</p>

## MulticastTraffic change request fields

Name	Description
<b>General</b>	To close General section, click in the heading. To reopen, click again.
<b>Owner</b>	Owner of the request.
<b>Requestor</b>	<p>In the Requestors Web Interface, this field displays your email address and is read-only.</p> <p>In the No-Login Web Form, you must type your email address.</p>
<b>Subject</b>	<p>Type a title for your request and for the change request that will be generated.</p> <p>This field is optional.</p>
<b>Due</b>	<p>Specify the date by which this change request should be resolved, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</li> </ul> <p>This field is optional.</p>


Name	Description
<b>Expires</b>	<p>Specify the date on which this change request will expire, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</li> </ul> <p>This field is optional.</p>
<b>Traffic</b>	<p>To close Traffic section, click in the heading. To reopen, click again.</p>
<b>Request</b>	<p>Use this area to specify the traffic changes you would like.</p> <p>By default, when submitting a traffic change request, this area includes the following fields for defining traffic: <b>Source</b>, <b>Destination</b>, <b>Service</b>, <b>Action</b>, <b>Show NAT</b>, <b>Hide NAT</b>, <b>Source NAT</b>, <b>Destination NAT</b>, <b>Port Translation</b>, <b>NAT Type</b>, <b>Add More Traffic</b>, and .</p> <p>Due to system customizations, this area may differ in the following ways:</p> <ul style="list-style-type: none"> <li>• NAT fields may not appear.</li> <li>• The following additional NAT fields may appear: <b>Source after NAT</b>, <b>Destination after NAT</b>, <b>Port after Translation</b>.</li> <li>• The <b>Source</b>, <b>Destination</b>, and/or <b>Service</b> fields may be followed by a custom field. For information about these fields, consult with your FireFlow administrator.</li> <li>• Each row of traffic may be followed by a custom field. For information about these fields, consult with your FireFlow administrator.</li> </ul>

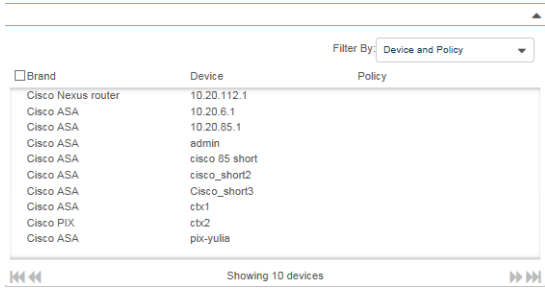




Name	Description
Source	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>Type the IP address, IP range, network, device object, or DNS name of the connection source.</li> <li>Use the <b>Choose Source Wizard</b>, as described in Using the Choose Source/Destination Wizard (see <a href="#">Change request wizards</a>).</li> </ul> <p>To enter multiple values, press Enter. A new field appears for this source.</p> <p><b>Note:</b> You cannot mix regular traffic and multicast in the same workflow.</p> <p>When specifying Check Point traffic for which the User Authentication method is used, you can include the user group as part of the source, in the following format:</p> <pre>usergroup@host</pre> <p>Where:</p> <ul style="list-style-type: none"> <li><i>usergroup</i> is the user group's name. You may use the <b>Choose Source Wizard's Device Object</b> tab to select the user group if desired.</li> </ul> <p><b>Note:</b> LDAP user groups are only supported for devices configured to use OPSEC data collection.</p> <ul style="list-style-type: none"> <li><i>host</i> is the IP address, IP range, network, device object, or DNS name of the connection source.</li> </ul> <p>For example: <b>group1@1.2.3.4</b>, <b>group1@RNDNetwork</b>, or <b>group1@Any</b>.</p> <p><b>Note:</b> Specifying the user group is only supported if the FireFlow default authentication method is User Authentication. Ask your FireFlow administrator for further information.</p>



Name	Description
<b>Destination</b>	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>Type the IP address, IP range, network, device object, or DNS name of the connection destination.</li> <li>Use the <b>Choose Destination Wizard</b>, as described in Using the Choose Source/Destination Wizard (see <a href="#">Change request wizards</a>).</li> </ul> <p>To enter multiple values, press <b>Enter</b>. A new field appears for this destination.</p> <p><b>Note:</b> You cannot mix regular traffic and multicast in the same workflow.</p>
<b>Service/Application</b>	<p>Do one of the following:</p> <ul style="list-style-type: none"> <li>Type the device service or port for the connection (for example "http" or "tcp/123"). For details, see <a href="#">Supported layer 3 protocols</a>.</li> <li>Type the name of an application as defined in your Palo Alto or Check Point device.</li> <li>Use the <b>Choose Service Wizard</b>. For details, see <a href="#">Change request wizards</a>.</li> </ul> <p>To enter multiple values, press <b>Enter</b>. A new field appears for this service.</p> <p><b>Note:</b> When configuring a change request for Check Point traffic, you must specify a service that is supported by the authentication method. For information on supported services for each method, refer to Check Point documentation.</p>
<b>Action</b>	<p>Choose the device action to perform for the connection. This can be either of the following:</p> <ul style="list-style-type: none"> <li><b>Allow:</b> Allow the connection.</li> <li><b>Drop:</b> Block the connection.</li> </ul>


Name	Description
<b>NAT settings</b>	<p>Click this option to display Network Address Translation (NAT) and Port Address Translation (PAT) for the defined traffic.</p> <p>The <b>Source NAT</b>, <b>Destination NAT</b>, <b>Port Translation</b>, and <b>NAT Type</b> fields appear.</p> <p>Depending on system customizations, the <b>Source after NAT</b>, <b>Destination after NAT</b>, and <b>Port after Translation</b> fields may appear as well.</p> <p>Click NAT settings again to hide the settings.</p>
<b>Source NAT</b>	<p>Type the source NAT value, if the connection's source should be translated.</p> <p><b>Note:</b> If the <b>Source after NAT</b> field appears below this field, then you must type the source NAT value <i>before</i> translation.</p>
<b>Source after NAT</b>	<p>Type the source NAT value after translation, if the connection's source should be translated.</p>
<b>Destination NAT</b>	<p>Type the destination NAT value, if the connection's destination should be translated.</p> <p><b>Note:</b> If the <b>Destination after NAT</b> field appears below this field, then you must type the destination NAT value <i>before</i> translation.</p>
<b>Destination after NAT</b>	<p>Type the destination NAT value after translation, if the connection's destination should be translated.</p>
<b>Port Translation</b>	<p>Type the port value, if the connection's port should be translated.</p> <p><b>Note:</b> If the <b>Port after Translation</b> field appears below this field, then you must type the port value <i>before</i> translation.</p>
<b>Port after Translation</b>	<p>Type the port value after translation, if the connection's port should be translated.</p>

Name	Description
<b>NAT Type</b>	<p>Specify the type of NAT (<b>Static</b> or <b>Dynamic</b>).</p> <p><b>Note:</b> If you filled in the <b>Source NAT</b>, <b>Destination NAT</b>, and/or <b>Port Translation</b> fields, then you must specify the NAT type.</p>
<b>Add More Traffic</b>	To add more traffic to the request, click this option and complete the fields.
	To remove additional traffic from the request, click this option next to the desired traffic.
<b>More</b>	To close the More section, click in the heading. To reopen, click again.
<b>External change request id</b>	<p>If you have already opened a change request for this request in an external change management system that is integrated with FireFlow, type the change request's ID number.</p> <p>The FireFlow change request generated for your request will be linked to the external system change request.</p> <p>This field is optional.</p>

Name	Description
<b>Device Name</b>	<p>Click in the <b>Device Name</b> box. The device selection dialog box appears with a list of available Cisco devices.</p>  <ul style="list-style-type: none"> <li>• To filter, in the <b>Filter By</b> list, select <b>Brand</b>, <b>Device</b>, <b>Policy</b>, <b>Device and Policy</b>, or <b>Selected</b>.</li> <li>• To select all devices for a brand, select the <b>Brand</b> check box.</li> <li>• To select, click a device. The device will appear at the top of the box. Click another device to select it. There is no need to hold the CTRL key for multiple selections.</li> <li>• To move forward and backward in the device list, click the  and  icons.</li> </ul> <p>Selected devices appear in the <b>Device Name</b> box.</p> <p>Click the up arrow to close the dialog box.</p>
<b>Change request justification</b>	<p>Type a free text description of the issue.</p> <p>This description will be reviewed by the network operations and information security users who handle your change request. It will also be added to the change request history.</p> <p>This field is optional.</p>
<b>Attachments</b>	<p>To add attachments, click <b>Add files</b>. The <b>Choose File to Upload</b> dialog box opens.</p> <p>Browse to the desired file, and click Open. To select multiple files, press CTRL while selecting.</p> <p>This field is optional.</p>

## Web-filter change request fields

Name	Description
<b>Requestor</b>	<p>In the Requestors Web Interface, this field displays your email address and is read-only.</p> <p>In the No-Login Web Form, you must type your email address.</p>
<b>Subject</b>	<p>Type a title for your request and for the change request that will be generated.</p> <p>This field is optional.</p>
<b>Due</b>	<p>Specify the date by which this change request should be resolved, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</li> </ul> <p>This field is optional.</p>
<b>Expires</b>	<p>Specify the date on which this change request will expire, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. FireFlow supports most relative and absolute formats, such as <b>yyyy-mm-dd</b>, <b>mm/dd/yyyy</b>, <b>Mon dd yyyy</b>, <b>next week</b>, or <b>now + 3 days</b>.</li> </ul> <p>This field is optional.</p>
<b>Request</b>	<p>Use this area to specify the connection you would like to filter.</p>

Name	Description
<b>User Group</b>	Do one of the following: <ul style="list-style-type: none"> <li>• Type the name of the user or user group that should be allowed/denied access to a URL.</li> <li>• Use the <b>Choose User Group Wizard</b>. For details, see <a href="#">Change request wizards</a>.</li> </ul>
<b>URL</b>	Type the URL to which to allow/deny access.
<b>Category</b>	Do one of the following: <ul style="list-style-type: none"> <li>• Type URL's Web filtering category.</li> <li>• Use the <b>Choose Category Wizard</b>. For details, see <a href="#">Change request wizards</a>.</li> </ul> <div data-bbox="391 825 1409 947" style="background-color: #e0f2f1; padding: 10px; margin-top: 10px;"> <p><b>Note:</b> When creating a change request via the Blue Coat <b>Blocked</b> page, this field is automatically filled in.</p> </div>
<b>Action</b>	Select the device action to perform for the connection. This can be any of the following: <ul style="list-style-type: none"> <li>• <b>Allow:</b> Allow the connection.</li> <li>• <b>Block:</b> Block the connection.</li> </ul>
<b>Add More Web Filtering</b>	To add more connections to the request, click this option and complete the fields.
	To remove additional connections from the request, click this option next to the desired traffic.
<b>From Template</b>	The change request's template. This field is read-only.
<b>Workflow</b>	The change request's workflow. This field is read-only.

Name	Description
<b>External change request id</b>	<p>If you have already opened a change request for this request in an external change management system that is integrated with FireFlow, type the change request's ID number.</p> <p>The FireFlow change request generated for your request will be linked to the external system change request.</p> <p>This field is optional.</p>
<b>Describe the issue</b>	<p>Type a free text description of the issue.</p> <p>This description will be reviewed by the network operations and information security users who handle your change request. It will also be added to the change request history.</p> <p>This field is optional.</p>
<b>Attach file</b>	<p>To attach a file to your request, do one of the following:</p> <ul style="list-style-type: none"> <li>• Type the path to the file in the field provided.</li> <li>• Click <b>Browse</b>, browse to the desired file, and click <b>Open</b>.</li> </ul> <p>To add more files, click <b>Add More Files</b>.</p> <p>This field is optional.</p>

## Supported layer 3 protocols

This topic lists the non-TCP/UDP/ICMP protocols that FireFlow supports by default.

Protocol	FireFlow Defined Service Name	Protocol Number
IPsec (ESP)	ipsec_50	50
IPsec (AH)	ipsec_51	51
IPsec (ESP and AH)	ipsec	50 and 51
GRE	gre	47
IPv6-ICMP	icmp6	58
SKIP	skip	57
ETHERIP	etherip	97
PIM	pim	103



**Note:** When using layer 3 protocols in FireFlow, you must use the FireFlow defined service name, not the protocol number. In addition, you may use service objects which contain these protocols.

**Tip:** FireFlow enables administrators to define additional layer 3 protocols for FireFlow support.

## Variables in traffic fields

This procedure describes how to use variables when entering traffic details in a traffic change request.

Variables are supported in any of the traffic lines for the change request.

Do the following:

1. In the **Source**, **Destination**, **Service**, and/or **Application** field, enter one or more variables using the following syntax:

```
#{VariableName}
```

where, **VariableName** is the name you give the variable.

In the **Traffic** area, the **Set traffic values** button is enabled.

2. Click **Set traffic values**.

The **Set traffic values** dialog box appears with all of the variables you have used listed under **Traffic Parameter**. For example:

Traffic Parameter	Value
#{var1}	<input type="text"/>
#{var2}	<input type="text"/>

Buttons: Cancel, Set Values

3. Enter the values for each variable you want to use, and click **Set Values**.

When you submit the change request, each variable will be replaced with its designated value.

## Change request wizards

**Relevant for: All FireFlow users**

This topic describes how to use various wizards in the change request forms to help you find the values you want efficiently.

### Choose Source/Destination wizards

The **Choose Source** and **Choose Destination** wizards help you specify a connection source or destination in a change request.

These wizards differ for IPv4 and IPv6 traffic, and may differ further, depending on your system configuration.

#### **Choose a source / destination for IPv4 traffic**

In your change request form, do the following:

1. In the **Source** or **Destination** field, click .

The wizard opens, displaying the **Network Objects** tab.

For example:

2. Do one of the following:

<p><b>Select from a list of device objects or suggestions</b></p>	<p>Do the following:</p> <ol style="list-style-type: none"> <li>Click the <b>Network Objects</b> tab.</li> <li>In the dropdown menu, select the type of network objects you'd like to view.  To search, enter any part of the source/destination's name in the search field (case insensitive).  All objects containing the string you entered are listed below the search.</li> <li>Select an item from the list of suggestions or device objects listed.</li> </ol>
<p><b>Enter a specific value</b></p>	<p>Do the following:</p> <ol style="list-style-type: none"> <li>Click the <b>IP Address</b> tab.</li> <li>Enter the IP address, IP range, CIDR, or Netmask value you want to use as the source/destination.</li> </ol>

3. Click **OK**.

If you entered a value in the **IP Address** tab, the wizard validates the entered value.

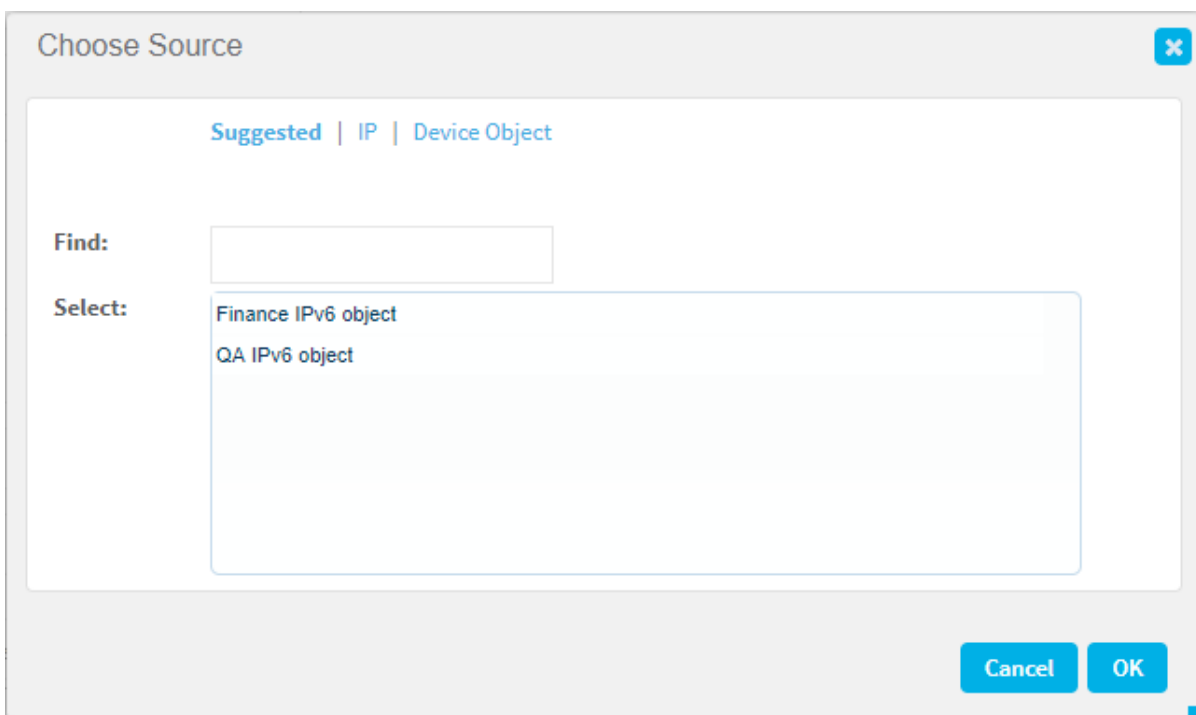
The selected source/destination is displayed in the **Source** or **Destination** field. For example, if you selected **my computer**, your computer's IP address is displayed.

### Choose a source / destination for IPv6 traffic

In your change request form, do the following:

1. Double-click in the **Source** or **Destination** field.

The **Choose Source Wizard** or **Choose Destination Wizard** opens displaying the **Suggested** tab.



## 2. Do one of the following:

<b>Select from a list of device objects or suggestions</b>	<p>Do the following:</p> <ul style="list-style-type: none"> <li>• To search for a source/destination, in the <b>Find</b> field, enter any part of the source/destination's name (case-insensitive).</li> <li>• In the <b>Select</b> list, select the item you want to use as the source/destination.</li> </ul>
<b>Enter a specific value</b>	<p>Do the following:</p> <ol style="list-style-type: none"> <li>a. Click the <b>IP</b> tab.</li> <li>b. Do one of the following: <ul style="list-style-type: none"> <li><b>Specify an IP address.</b> Click <b>IP</b> and enter your IP address.</li> <li><b>Specify an IP range.</b> Click <b>IP Range</b> and enter your IP range.</li> <li><b>Specify a network.</b> Click <b>CIDR</b> and enter your network value.</li> <li><b>Specify any IP address.</b> Click <b>Any</b>. This specifies an IP range of <b>0.0.0.0-255.255.255.255</b>.</li> </ul> </li> </ol>
<b>Select from all device objects in AFA</b>	<p>Do the following:</p> <ol style="list-style-type: none"> <li>a. Click the <b>Device Object</b> tab.</li> <li>b. To search for a device object, do the following: <ul style="list-style-type: none"> <li>◦ In the <b>Search</b> dropdown list, select the device in which the object is located.</li> <li>◦ In the <b>For</b> field, enter any part of the object's name.</li> </ul> <p>The <b>Select</b> list displays all source/destinations containing the string you entered.</p> <p>To navigate between search result pages enter the page number you want to jump to in the <b>Page</b> field.</p> </li> <li>c. In the <b>Select</b> list, select the desired device object.</li> </ol>

3. Click **OK**.

If you entered a value in the **IP** tab, the wizard validates the entered value.

The selected source/destination is displayed in the **Source** or **Destination** field. For example, if you selected **my computer**, your computer's IP address is displayed.

## Choose Service wizard

The **Choose Service** wizard helps you specify a connection service in a change request.

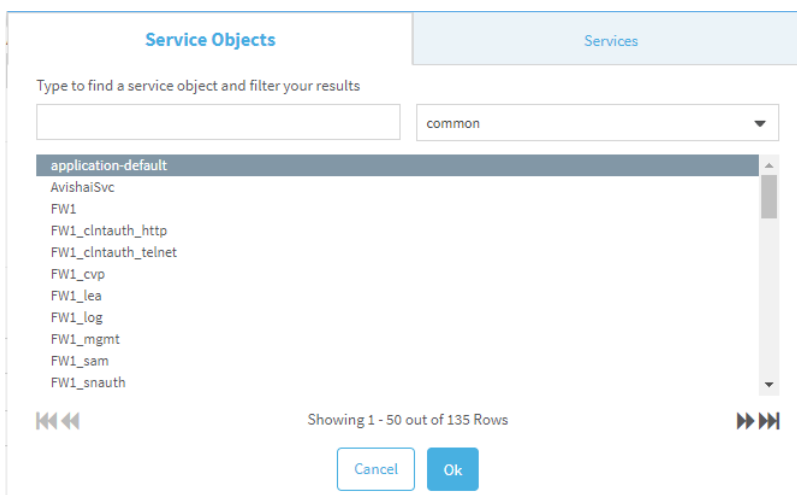
These wizards differ for IPv4 and IPv6 traffic, and may differ further, depending on your system configuration.

### Choose a service for IPv4 traffic

In your change request form, do the following:

1. In the **Service** field, click .

The **Choose Service Wizard** opens, displaying the **Service Objects** tab and **common** service objects.



## 2. Do one of the following:

<b>Select the service from a list of services</b>	<p>Do the following:</p> <ol style="list-style-type: none"> <li>In the dropdown menu, select the type of service you want to view. By default, only common service objects are displayed.</li> <li>To search for a service object, enter any part of the object's name in the search field (case insensitive).</li> <li>Select the service object you want to use from the list displayed.</li> </ol>
<b>Specify a custom service</b>	<p>Do the following:</p> <ol style="list-style-type: none"> <li>Click the <b>Services</b> tab.</li> <li>Enter the service in one of the following formats: <ul style="list-style-type: none"> <li><b>protocol/port</b>, to indicate a single service.</li> <li><b>protocol/*</b>, to indicate any port for the specified protocol</li> <li><b>protocol/port1-port2</b>, to indicate a range of ports for a specific protocol</li> <li><b>*</b>, to indicate "any" service</li> </ul> </li> </ol>

3. Click **OK**.

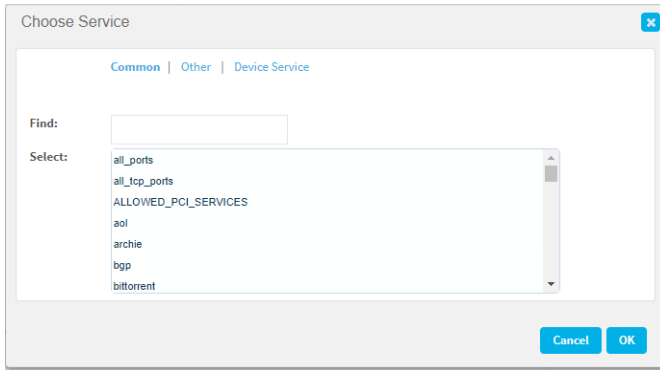
If you entered a custom service, the wizard validates the entered value. The selected service or appears in the **Service** field.

**Choose a service for IPv4 traffic**

In your change request form, do the following:

1. Double-click in the **Service** field.

The **Choose Service Wizard** opens displaying the **Common** tab.



2. Do one of the following:

<p><b>Select the service from a list of services defined in AFA</b></p>	<p>Do the following:</p> <ul style="list-style-type: none"> <li>○ To search for an service, in the <b>Find</b> field, enter any part of the object's name in the search field (case insensitive).</li> <li>○ In the <b>Select</b> list, select the service you want to use.</li> </ul>
<p><b>Specify a custom service</b></p>	<p>Do the following:</p> <ol style="list-style-type: none"> <li>a. Click the <b>Other</b> tab.</li> <li>b. In the <b>Protocol</b> area, select a specific protocol, or select <b>Any</b>.</li> <li>c. In the <b>Port</b> area, do one of the following:                     <ul style="list-style-type: none"> <li>Select <b>Single</b> to specify a single destination port. Enter the port number.</li> <li>Select <b>Range</b> to specify a destination port range. Enter the port range.</li> <li>Select <b>Any</b> to specify any destination port.</li> </ul> </li> </ol>



<p><b>Select a service from a list of services defined on devices</b></p>	<p>Do the following:</p> <ol style="list-style-type: none"> <li>a. Click the <b>Device Service</b> tab.</li> <li>b. In the <b>Search</b> area, select a device from the dropdown list.</li> <li>c. To search for a specific service defined on the device, in the <b>For</b> field, enter any part of the service's name (case-insensitive), and then click <b>Go</b>.</li> <li>d. In the <b>Select</b> list, select the desired service.</li> </ol> <p><b>Note:</b> This feature is only supported for service's whose protocol is TCP, UDP, or ICMP. If a service is selected with another protocol, the change request will not open.</p>
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3. Click **OK**.

If you entered a port number or range, the wizard validates the entered value. The selected service appears in the **Service** field.

## Choose Application wizard

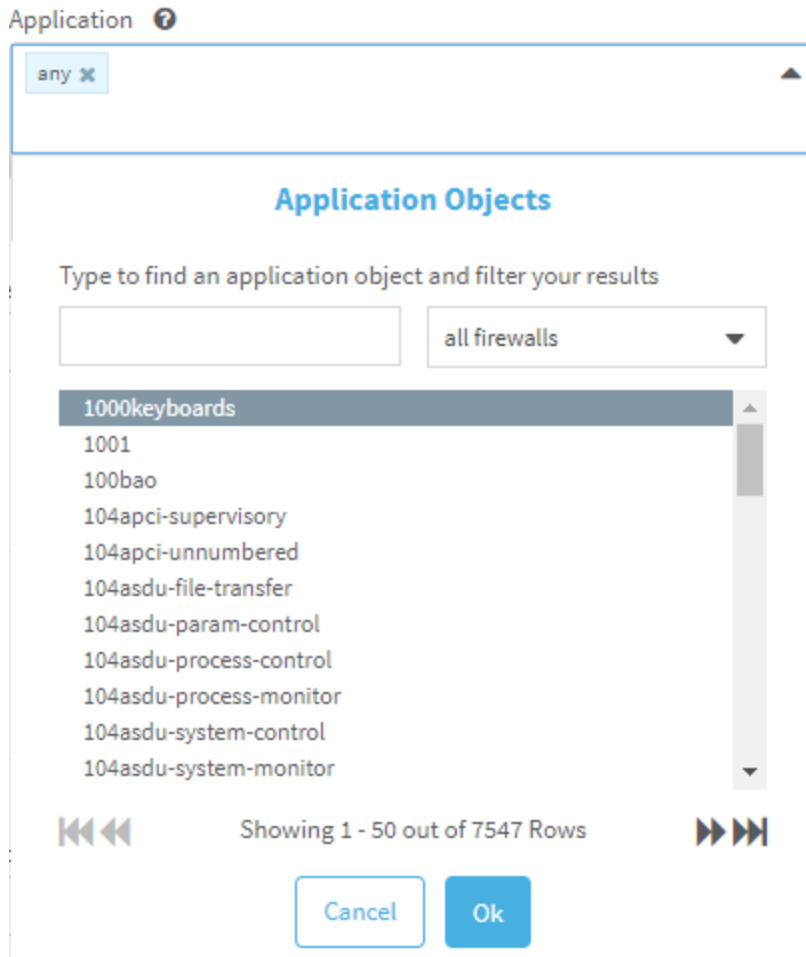
The **Choose Application** wizard helps you define an application for your change request.

This wizard appears depending on your system configuration, and only when there are Palo Alto devices defined in AFA.

Do the following:

1. In your change request form, in the **Application** field, click  .

The Application wizard is displayed.



2. Select the application you want to use from the list of items displayed.

Filter the items displayed by doing any of the following:

- In the dropdown menu, select the device or device group on which the application is defined.
- Search for an application by entering any part of the application's name in the field (case-insensitive).

3. Click **OK**.

The application appears in the **Application** field.

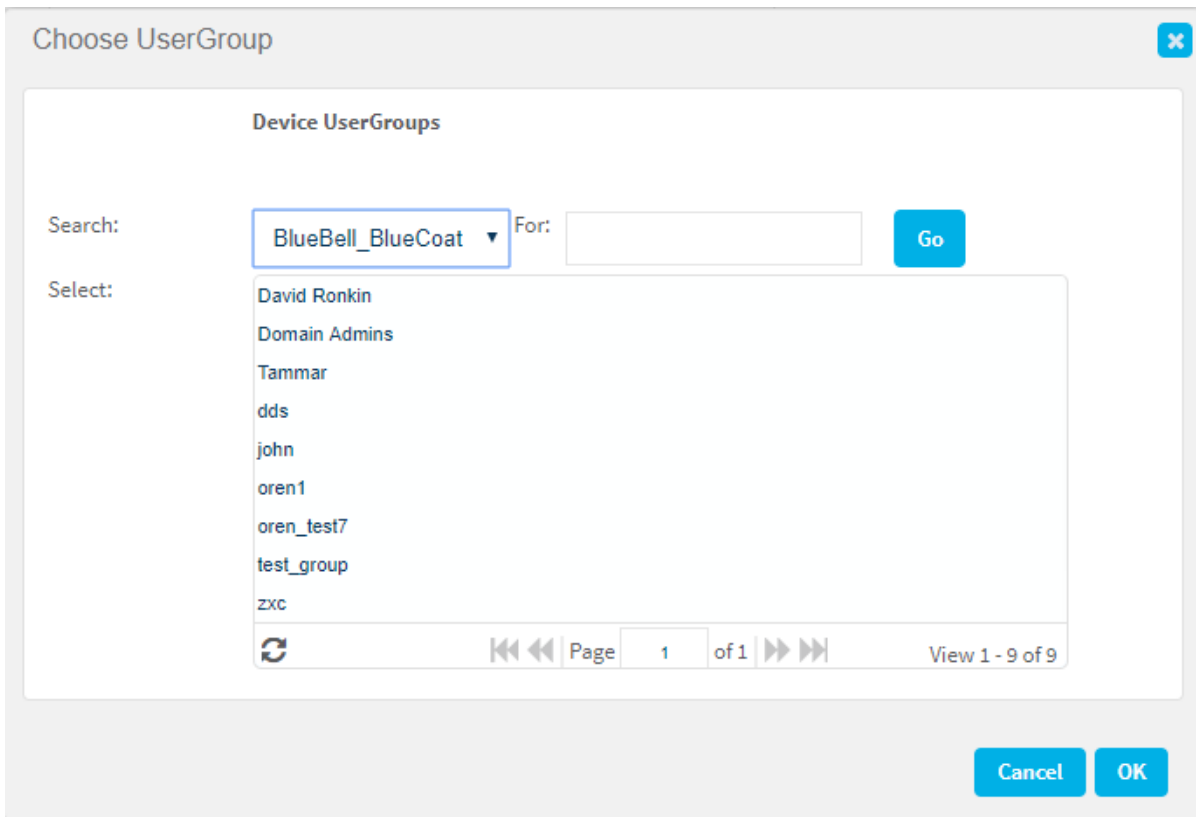
## Choose User Group wizard

The **Choose UserGroup** wizard helps you select a user group from all groups in a device's security policy, and is available for Web Filtering requests only.

Do the following:

1. In your change request form, double-click in the **User Group** field.

The **Choose User Group Wizard** opens.



The screenshot shows the "Choose UserGroup" dialog box. The title bar reads "Choose UserGroup" with a close button (X) in the top right corner. The main content area is titled "Device UserGroups". It features a "Search:" field with a dropdown menu currently showing "BlueBell\_BlueCoat". To the right of the dropdown is a "For:" text input field and a blue "Go" button. Below the search field is a "Select:" list box containing the following user groups: David Ronkin, Domain Admins, Tammar, dds, john, oren1, oren\_test7, test\_group, and zxc. At the bottom of the list box is a pagination control showing "Page 1 of 1" with navigation arrows and a refresh icon. To the right of the pagination is the text "View 1 - 9 of 9". At the bottom right of the dialog box are two buttons: "Cancel" and "OK".

2. In the **Search** field, select the desired device.

**Note:** This field displays only Symantec Blue Coat device names.

(Optional) To search for a user group, in the **For** field, type any part of the user group's name, and click **Go**. To navigate between search result pages, in the **Page** field, type the desired page number, then press **Enter**.

3. In the **Select** list, select the desired user group.
4. Click **OK**.

The selected user group is displayed in the **User Group** field.

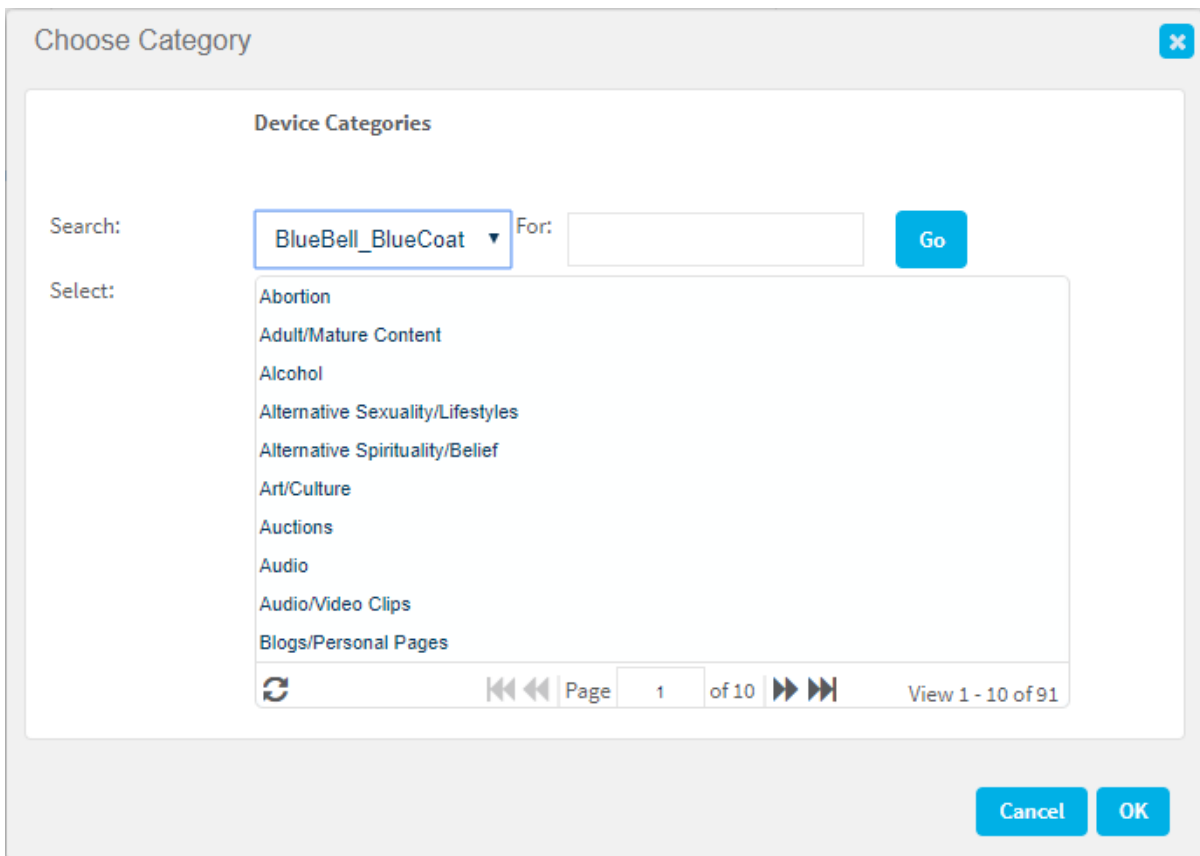
## Choose Category wizard

The **Choose Category Wizard** enables you to select a Web filtering category by selecting the category from a list of all categories that exist on a device.

Do the following:

1. In your change request form, double-click in the **Category** field.

The **Choose Category Wizard** opens.



2. In the **Search** field, select the desired device.

**Note:** This field displays only Symantec Blue Coat device names.

(Optional) To search for a category group, in the **For** field, type any part of the category's name, and click **Go**. To navigate between search result pages, in the **Page** field, type the desired page number, then press **Enter**.

3. In the **Select** list, select the desired category.
4. Click **OK**.

The selected category is displayed in the **Category** field.

## Select Devices wizard

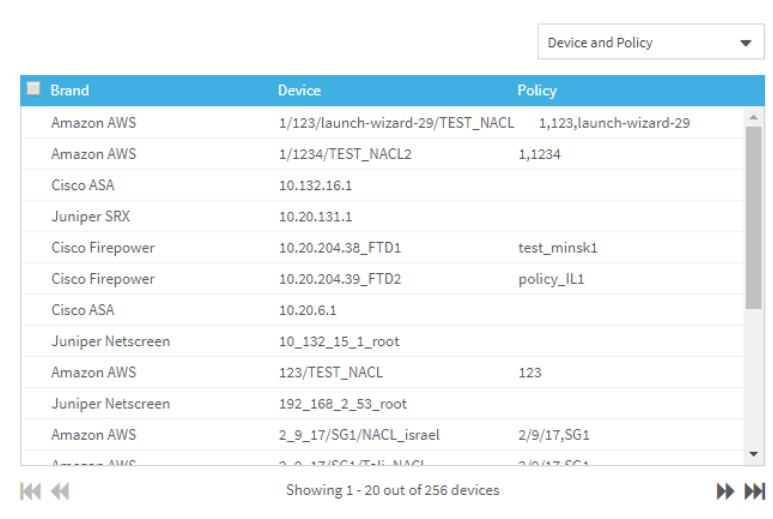
The Select Devices wizard enables you to quickly and easily select a single device or multiple devices.

**Note:** For more details, see [Amazon Web Services and Microsoft Azure "Devices"](#).

Do the following:

1. Click in a field to select a device.

The Select Devices wizard appears.



The screenshot shows a window titled "Device and Policy" with a dropdown menu. Below the menu is a table with three columns: Brand, Device, and Policy. The table contains several rows of data, including Amazon AWS, Cisco ASA, Juniper SRX, Cisco Firepower, and Juniper Netscreen. At the bottom of the table, there are navigation arrows and the text "Showing 1 - 20 out of 256 devices".

Brand	Device	Policy
Amazon AWS	1/123/launch-wizard-29/TEST_NACL	1,123,launch-wizard-29
Amazon AWS	1/1234/TEST_NACL2	1,1234
Cisco ASA	10.132.16.1	
Juniper SRX	10.20.131.1	
Cisco Firepower	10.20.204.38_FTD1	test_minsk1
Cisco Firepower	10.20.204.39_FTD2	policy_IL1
Cisco ASA	10.20.6.1	
Juniper Netscreen	10_132_15_1_root	
Amazon AWS	123/TEST_NACL	123
Juniper Netscreen	192_168_2_53_root	
Amazon AWS	2_9_17/SG1/NACL_israel	2/9/17,SG1
Amazon AWS	2_9_17/SG1/NACL_israel	2/9/17,SG1

Showing 1 - 20 out of 256 devices

2. Select a device by doing one of the following:

- **Click a device.** Click the arrows at the bottom of the dialog to page through the list to find the one you want.
- **Search for a device.** Do the following:
  - a. In the **Filter By** dropdown, select the filter criteria you want to use.

The following fields are available for filtering in the device selection wizard:

<b>Name and Policy</b>	Filter by both the device name and policy name.
<b>Name</b>	Filter by the device name.
<b>Policy</b>	Filter by the policy name.
<b>Brand</b>	Filter by the brand name.
<b>Selected</b>	Show only selected devices.

- b. In the textbox, enter your search criteria. The filter runs as you enter text.

Click the arrow buttons at the bottom of the dialog to page through the list. Click a device to select it.

**Tip:** Select all filtered devices by selecting the checkbox to the left of the **Brand** column. This is only supported for scenarios when multiple device selection is supported.

3. To remove a device from the selected devices, click **x**.
4. Click outside of the wizard to add the selected devices to the field.

The selected devices are added to the field.

### Amazon Web Services and Microsoft Azure "Devices"

FireFlow handles Amazon Web Services (AWS) and Microsoft Azure "devices" as

follows:

- The "device" will always be the security "security set". A security set is a group of instances/VMs with the exact same security group(s) and network ACLs applied to them. Therefore, every instance/VM in a security set has identical security policies.
- When modifying traffic for a security set, FireFlow automatically selects the optimal security group to modify in **Initial Planning**. The security group is selected based on rule capacity and the lowest number of affected instances/VMs.

In Initial Planning, you can manually change the security group to modify, just like you can manually change which devices are relevant to modify for a change request.

# Validate changes

**Relevant for:** Requestors and network operations users

Once the changes specified by a change request have been implemented, the change request moves on to the Validate stage.

This section explains how to validate implemented changes.

**Note:** To determine a change request's stage, view the change request. The stage is indicated by the Change Request Lifecycle Status Bar. For details, see [View change requests](#).

## Validation processes per type

The following table describes the change request validation process, depending on the type of change request:

<b>Traffic change requests</b>	<p>The following process occurs:</p> <ol style="list-style-type: none"><li>1. A network operations user validates the implemented changes against the change request, to verify that the specified traffic has been allowed or blocked as required.</li><li>2. If validation indicates that the implemented changes did <i>not</i> achieve the desired result specified in the change request, then the network operations user re-initiates the implementation stage and repeats change validation until the change is successful.</li><li>3. When ready, the network operations user notifies the requestor that the changes were implemented.</li><li>4. The requestor then verifies that the desired result was achieved.</li><li>5. Depending on the results of the requestor's check, the network operations user either re-initiates the implementation stage, or resolves the change request.</li></ol>
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<b>Object change requests</b>	<p>The following process occurs:</p> <ol style="list-style-type: none"> <li>1. A network operations user validates the implemented changes against the change request, to verify that the specified object change has been made.</li> <li>2. If validation indicates that the implemented changes did <i>not</i> achieve the desired result specified in the change request, then the network operations user re-initiates the implementation stage and repeats change validation until the change is successful.</li> <li>3. Next, the network operations user notifies the requestor that the changes were implemented.</li> <li>4. The network operations user then immediately resolves the change request, without waiting for a response from the requestor.</li> </ol>
<b>Rule removal change requests</b>	<p>The following process occurs:</p> <ol style="list-style-type: none"> <li>1. A network operations user validates the implemented changes against the change request, to verify that the work order recommendations have been implemented.</li> <li>2. If validation indicates that the implemented changes did <i>not</i> achieve the desired result specified in the change request, then the network operations user re-initiates the implementation stage and repeats change validation until the change is successful.</li> <li>3. The network operations user then resolves the change request.</li> </ol>
<b>Rule modification change requests</b>	
<b>Recertification change requests</b>	

<b>Multi-device object change requests</b>	<p>The following process occurs:</p> <ol style="list-style-type: none"> <li>1. The network operations user does not validate changes. Instead, the network operations user immediately notifies the requestor that the changes were implemented.</li> <li>2. The requestor then verifies that the desired result was achieved.</li> <li>3. Depending on the results of the requestor's check, the network operations user either re-initiates the implementation stage, or resolves the change request.</li> </ol>
<b>IPv6 traffic change requests</b>	
<b>Multicast traffic change requests</b>	
<b>Web filtering change requests</b>	

For details, see:

- [Verify change request results](#)
- [Resolve or return change requests](#)
- [Report change verifications](#)

## Verify change request results

**Relevant for:** Network operations users and requestors

This topic describes how to verify change validation results.

**Tip:** After making a change, you may want to wait a few minutes before validating the change. FireFlow can only detect changes after an AFA analysis has been run on the device.

In systems with scheduled monitoring configured, you must wait for the scheduled monitoring process to run.

## Verify change validation results (requestors)

**Relevant for:** Requestors

Once the device changes planned for your change request have been implemented, you will receive an email message from FireFlow, asking you to verify that the changes were implemented successfully.

You must check that the desired results were achieved, and respond in one of the following ways:

- Respond directly to the email message. For details, see [Respond to change requests](#).
- Respond via the Web interface. For details, see [Report change verifications](#).

If your response indicates that the desired results were not achieved, your change request will be re-implemented and you will be asked to check the results again.

If your response indicates that you are satisfied with the results, the change request will be resolved.

## Verify change validation results (network operations users)

This procedure describes how network operations users can verify change validation results.

Do the following:

1. View the change request. For details, see [View change requests](#).
2. If the validation results are not available or old, refresh the validation calculation by clicking **Recalculate**.

The change validation results appear, indicating whether the implemented changes achieved the result specified in the change request.

For example:

✓

10\_132\_15\_1\_root #658

Status: validate | Owner: admin

✗ Validation Failed

Risk Check results
Work Order

☰

Recalculate

✓ New object validation successful.  
✓ New objects were created successfully

Validation is based on data from 2018-12-25 22:00:00

---

☑ Show details

Traffic Line 1

✗ Traffic is blocked. [Find out why](#)  
⚠ The change is not fully implemented

Validation is based on data from 2018-12-25 22:00:00

---

☑ Show details

Details are shown as follows:

<p><b>Object change, rule removal, and web filtering change requests</b></p>	<p>The change validation verifies the changes specified in the work order were implemented by performing a traffic simulation query.</p> <ul style="list-style-type: none"> <li>Validation succeeds if the query indicates the planned changes specified in the work order have been made for every traffic line in the change request.</li> <li>Validation fails if the planned changes have not been made for at least one traffic line.</li> </ul>
<p><b>Rule modification change requests</b></p>	<p>The change validation displays whether the specified changes in the work order match the device policy.</p> <p>For more details, see <a href="#" style="color: #007bff; text-decoration: underline;">Advanced change validation results</a>.</p>

<p><b>Traffic change and recertification requests</b></p>	<p>The change validation verifies the changes specified in the work order were implemented with a traffic simulation query and a work order/device policy comparison.</p> <p>If the rule contains more traffic than recommended, FireFlow indicates this for you so that you can take any action, as required.</p> <p>For example:</p> <div data-bbox="592 529 1268 751" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>Traffic Line <span style="border: 1px solid #ccc; border-radius: 50%; padding: 2px;">1</span></p> <p>✓ Traffic is allowed. <a href="#">Find out why</a></p> <p>✗ The rule contains more traffic than recommended</p> <p>Validation is based on data from 2019-08-09 01:52:09</p> </div> <p>For more details, see <a href="#">Advanced change validation results</a>.</p>
---	--

**Note:** If you implemented the changes even slightly differently than the work order, Validation will fail.

For example, if the work order specified one rule with multiple sources, and you added multiple rules (with one source each), Validation will fail.

This is particularly relevant for Amazon Web Services because rules can only include one object per field.

3. To view extended information about the change validation, click **Show details**.
4. If you do not see that the result you wanted was implemented, view device reports describing the problem by clicking the **Find out why** link.

A report opens in a new window, and you can drill down to view the relevant device rules.

**Note:** This option is not available for rule removal or rule modification requests.

5. Click **Next**.
6. If the desired result was not achieved, do the following:

- a. Re-implement the change(s). For details, see [Resolve or return change requests](#).
- b. Repeat change validation.

### **Palo Alto Networks devices**

For Palo Alto Networks Panorama devices, FireFlow will always recommend changing the lowest device group. If a higher level device group blocks the traffic the change request is attempting to allow, the traffic will still not be allowed after the work order is implemented, and validation will fail. To allow the traffic you must manually change the higher level device group.

### **Validation timeouts**

If validation times out before the device has been analyzed, [Change validation could not be run, please recalculate](#) appears.

## **Advanced change validation results**

Traffic change, recertification, and rule modification requests support advanced change validation results.

- **Traffic change** and **recertification** requests run a traffic simulation query and work order/ device policy comparison during validation.
- **Rule modification** requests run a work order/ device policy comparison only.

Each change request receives an overall validation result, and individual validation results for each traffic line.

- **If all traffic line validations are successful**, then the overall validation is successful.
- **If at least one traffic line validation partially succeeds or fails**, the overall validation fails.

### **Perfect matches / more permissive rules**

When the work order/ policy comparison determines a rule is a perfect match or more permissive, the change validation in addition verifies whether all object names used in the work order recommendation's fields are the objects used in the matched rule's fields.

By default, a discrepancy in object names will not cause validation to fail.

### Advanced change validation failures

In certain circumstances, change validation will fail even when the work order was implemented as specified.

The following are possible reasons for change validation failure:

- The traffic is partially blocked by a rule that exists above the allowing rule. The partially blocking rule is not displayed in the validation details.
- Part of the traffic was already allowed by another rule that is located lower in the policy.
- The rule was added in incorrect zones/ interfaces.
- Both a perfectly matched object and a wider rule exist, but only one of them is being matched.

### Advanced change validation results per traffic line

Advanced change validation results are as follows, depending on the request type:

✓ Validation successful.

<b>Traffic change/recertification requests</b>	<ul style="list-style-type: none"><li>• <b>"Allow" traffic.</b> Validation succeeds if the traffic simulation query indicates the planned traffic for the line is allowed, and the change on the device perfectly matches the work order recommendation.</li><li>• <b>"Drop" traffic.</b> Validation succeeds if the traffic simulation query indicates the planned traffic for the line is blocked, and no rule exists on the device with the relevant IUD.</li></ul>
--	--

<b>Rule modification requests</b>	Validation succeeds if the change on the device perfectly matches the work order recommendation.
-----------------------------------	--

✘ **Only part of the traffic is allowed.**

⚠ **The change is not fully implemented**

<b>Traffic change/recertification requests</b>	For "Allow" traffic, validation partially succeeds if the traffic simulation query indicates the planned traffic for the line is allowed, and the change on the device does not perfectly match the work order recommendation (but does not include traffic that is more permissive than the work order recommendation).
<b>Rule modification requests</b>	Validation partially succeeds if the change on the device does not perfectly match the work order recommendation, and does not include traffic that is wider than the work order recommendation.

✘ **Validation failed.**

✘ **The change is not fully implemented**

<b>Traffic change/recertification requests</b>	<ul style="list-style-type: none"> <li>• <b>"Allow" traffic.</b> Validation fails if the traffic simulation indicates the planned traffic for the line is partially or fully blocked, or the change on the device is more permissive than the work order recommendation.</li> <li>• <b>"Drop" traffic.</b> Validation fails if the traffic simulation query indicates the planned traffic for the line is partially or fully allowed, or a rule exists on the device with the relevant IUD.</li> </ul>
<b>Rule modification requests</b>	Validation fails if the change on the device is more permissive than the work order recommendation.

## Resolve or return change requests

Relevant for: Network operations users

This topic describes how network operations users can resolve a change request that has been implemented and validated correctly, or return the change request to an earlier stage in the workflow for more changes.



## Resolve a change request

If the requestor responded via email that the requested change was implemented successfully, you can resolve the change request.

**Note:** If the requestor marked the change request as **Change Works** in the Requestor Web Interface, then the change request has already been resolved, and you can skip this step.

Do the following:

1. View the change request. For details, see [View change requests](#).
2. At the top of the page, click **Resolve**.

If you are resolving a Web Filtering change request, a confirmation message appears. Click **OK**.

The change request is resolved, and FireFlow displays the change request.

The change request moves on to the **Match** stage.

## Return a change request to the Implement stage

If the requester determined that the requested change was not implemented successfully, return the change request to the Implement stage for re-implementation.

Do the following:

1. View the change request. For details, see [View change requests](#).
2. At the top of the page, click **Re-Implement**.

The Re-Implement Change Request page is displayed.

3. In the **Message** text box, type an explanation of why you are returning the change request to the Implement stage.
4. To attach files to your message:
  - a. In the **Attach** field, do one of the following:
    - Type the path to the file in the field provided.
    - Click **Browse**, browse to the desired file, and click **Open**.
  - b. To add more attachments, click **Add More Files** and repeat the previous step.
5. Click **Next**.

The change request is returned to the **Implement** stage for re-implementation.

## Return a web filter change request for reorganization

Do the following:

1. View the change request. For details, see [View change requests](#).
2. At the top of the page, click **Re-Organize**.

The **Message** field appears.

3. In the **Message** text box, type an explanation of why you are returning the change request for re-organization.
4. To attach files to your message:
  - a. In the **Attach** field, do one of the following:
    - Type the path to the file in the field provided.
    - Click **Browse**, browse to the desired file, and click **Open**.
  - b. To add more attachments, click **Add More Files** and repeat the previous step.
5. Click **Next**.

The change request is returned to the **Approve** stage for re-organization.

## Report change verifications

**Relevant for: All requestors**

When asked to verify that the changes were implemented successfully, you can report your findings directly in FireFlow.

Do the following:

1. View the change request. For details, see [View change requests](#).

**Change Request**

[View Request Form](#)

<b>Basics</b>	Subject: access to Coyote system	<b>Additional Information</b>	From Template: 208: Demo - Mixed Change Request
Owner: "Ned NetOps" <ned@company.com> (ned)	Status: user accept	Change Request: 994	Template ID:
Created: 2018-12-30 05:52:27	Requestor: "Rachel Requestor" <rachel@company.com> (rachel)	Workflow: Standard - Change device traffic request workflow	External change request id:
Updated: 2018-12-30 05:55:07 by admin	Due:		

**General**

Expires: *(no value)*  
Owning Role: Network

**Original Request**

Source	User	Destination	Application	Service	Action
1. 14.15.80.13	any	76.233.2.13	any	tcp/21	Drop
2. 14.15.78.1	any	10.243.54.1	any	tcp/135	Allow

2. Do one of the following:
3. If the change works, at the top of the page, click **Change Works**. If the change does not work, click **Change Does Not Work**.

The **Change Works** or **Change Does Not Work** page is displayed.

The screenshot shows the FireFlow interface for validating a change request. The page title is "Change Works Request #5497: access to Coyote system". The process flow includes steps: Plan, Approve, Implement, Validate (current step), Match, and a final step. The "Validate" step is highlighted. The form contains the following fields:

- Subject:** access to Coyote system
- Message:** Please enter a comment explaining your choice
- Attach:** Choose File | No file chosen

Navigation buttons "Back" and "Next" are located in the top right corner of the form area.

The **Subject** field displays the change request name.

4. If desired, modify the **Subject** field to describe the subject of your comment.
5. To attach a file to your comment, do one of the following:
  - In the **Attach** field, type the path to the file.
  - Click **Browse**, browse to the desired file, and click **Open**.
6. In the **Message** text box, type your comment.
7. Click **Next**.

The change request is displayed, and your comment appears in the **History** area.

Your comment is sent as an email message to the change request's current owner.

If you clicked **Change Works**, the change request is resolved.

# Manage change requests

Relevant for: Privileged users

This section includes a collection of procedures for managing different types of change requests, for various workflows, and at various stages.

For details, see:

- [View change requests](#)
- [Search for change requests](#)
- [Verify change request results](#)
- [Respond to change requests](#)

➔ **See also:**

- [Manage traffic change requests training video](#)
- [Process an object change request training video](#)
- [Removing and re-certifying rules training video](#)

## View change requests

This topic describes the various procedures available to view change requests in FireFlow.

### View open change requests

The **Open Change Requests** list displays all of your change requests that have not yet been resolved, and allows you to track these change requests' statuses.

To view the **Open Change Requests** list, click **Open Change Requests** from the main menu on the left.

The **Open Change Requests** page appears with a list of your open change requests.

ID	Subject	Workflow	Status	Owner	Created	Last Updated
2144	access to Coyote system	Basic-With-ActiveChange-for-CRP	implement	ned	4 years ago	4 years ago
1726	(No subject)	Web-Filter	new	ned	6 years ago	6 years ago
1725	Ticket Created From Blue Coat Exception page	Web-Filter	new	ned	6 years ago	6 years ago
943	access to CRM website	Standard	validate	ned	7 years ago	7 years ago
758	(No subject)	Standard	implement	ned	7 years ago	7 years ago

**Note:** Click a change request **ID** or **subject** to open the change request.

By default, statuses include the following:

<b>plan</b>	The change request has been assigned an owner and is in the <b>Plan</b> stage.
<b>approve</b>	The change request is in the <b>Approve</b> stage and being checked for security risks. An information security user will decide whether to approve the change request, based on the check results.
<b>create work order</b>	The change request is now in the <b>Implement</b> stage, and the work order is being planned.
<b>implement</b>	The change request is now in the <b>Implement</b> stage, and the required change is being implemented.
<b>validate</b>	The change request is now in the <b>Validate</b> stage.
<b>user accept</b>	The change request is now in the <b>Validate</b> stage, and the requestor has been asked to verify implementation success.
<b>user disapproved</b>	The change request is now in the <b>Validate</b> stage, and the requestor has marked the change as not working, using the <b>Change Doesn't Work</b> button.

These statuses can be changed / customized by FireFlow administrators.

## View change requests awaiting response

The **Awaiting Response** list displays all the change requests that are waiting to be handled by you, and allows you to view the status of these change requests.

To view the **Awaiting Response** list, click **Awaiting Response** from the main menu on the left.

The **Change Requests Awaiting Response** page is displayed with the following lists of change requests that are awaiting your response:

- **Change Requests Awaiting My Response** - Change requests you submitted.
- **Rule Removal Requests Awaiting My Response** - Rule removal requests that affect traffic that you requested.

For example:

Change Requests Awaiting My Response						
Id	Subject	Workflow	Status	Owner	Created	Last Updated
1432	(no subject)	Basic	user accept	admin	45 hours ago	44 hours ago

Rule-Removal Requests Awaiting My Response						
Id	Subject	Workflow	Status	Owner	Created	Last Updated
1530	removal1	Rule-Removal	pending response	admin	5 min ago	4 min ago
1524	remove-Arkita_131	Rule-Removal	pending response	admin	74 min ago	74 min ago
1520	rule_removal	Rule-Removal	pending response	admin	97 min ago	96 min ago
1436	Drop_traffic	Basic	notify requestors	admin	45 hours ago	17 hours ago

**Note:** Click a change request **ID** or **subject** to open the change request.

By default, statuses include the following:

<b>plan</b>	The change request has been assigned an owner and is in the <b>Plan</b> stage.
<b>approve</b>	The change request is in the <b>Approve</b> stage and being checked for security risks. An information security user will decide whether to approve the change request, based on the check results.
<b>create work order</b>	The change request is now in the <b>Implement</b> stage, and the work order is being planned.
<b>implement</b>	The change request is now in the <b>Implement</b> stage, and the required change is being implemented.



<b>validate</b>	The change request is now in the <b>Validate</b> stage.
<b>user accept</b>	The change request is now in the <b>Validate</b> stage, and the requestor has been asked to verify implementation success.
<b>user disapproved</b>	The change request is now in the <b>Validate</b> stage, and the requestor has marked the change as not working, using the <b>Change Doesn't Work</b> button.

For more details, see:

- [Verify change request results](#)
- [Respond to change requests](#)

## View closed change requests

The **Closed Change Requests** list displays all of your change requests that have been resolved, and allows you to track these change requests' statuses.

To view the **Closed Change Requests** list, click **Closed Change Requests** from the main menu on the left.

The **Closed Change Requests** page is displayed with a list of your closed change requests.

My Closed Change Requests						
Id	Subject	Workflow	Status	Owner	Created	Last Updated
281	allow https	Basic	resolved	Not Assigned	61 min ago	60 min ago
239	Allow HTTP	Basic	resolved	Not Assigned	3 hours ago	62 min ago
220	searchFromSuggestedInFile	Basic	resolved	Not Assigned	5 hours ago	5 hours ago
206	searchFromSuggestedInFile	Basic	resolved	Not Assigned	3 years ago	3 years ago
205	requester CR	Basic	resolved	Not Assigned	3 years ago	3 years ago

**Note:** Click a change request **ID** or **subject** to open the change request.

Statuses include the following:

<b>pending match</b>	The change request has been resolved and is now in the <b>Match</b> stage.
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<b>matched</b>	During auto matching, a device change was matched to the change request; however, matching is not yet complete.
<b>resolved</b>	Auto matching is complete.
<b>rejected</b>	The change request was rejected.

## View change requests on your home page

Your **Home** page displays all of the recently updated change requests in the system, divided into lists according to their current lifecycle stage.

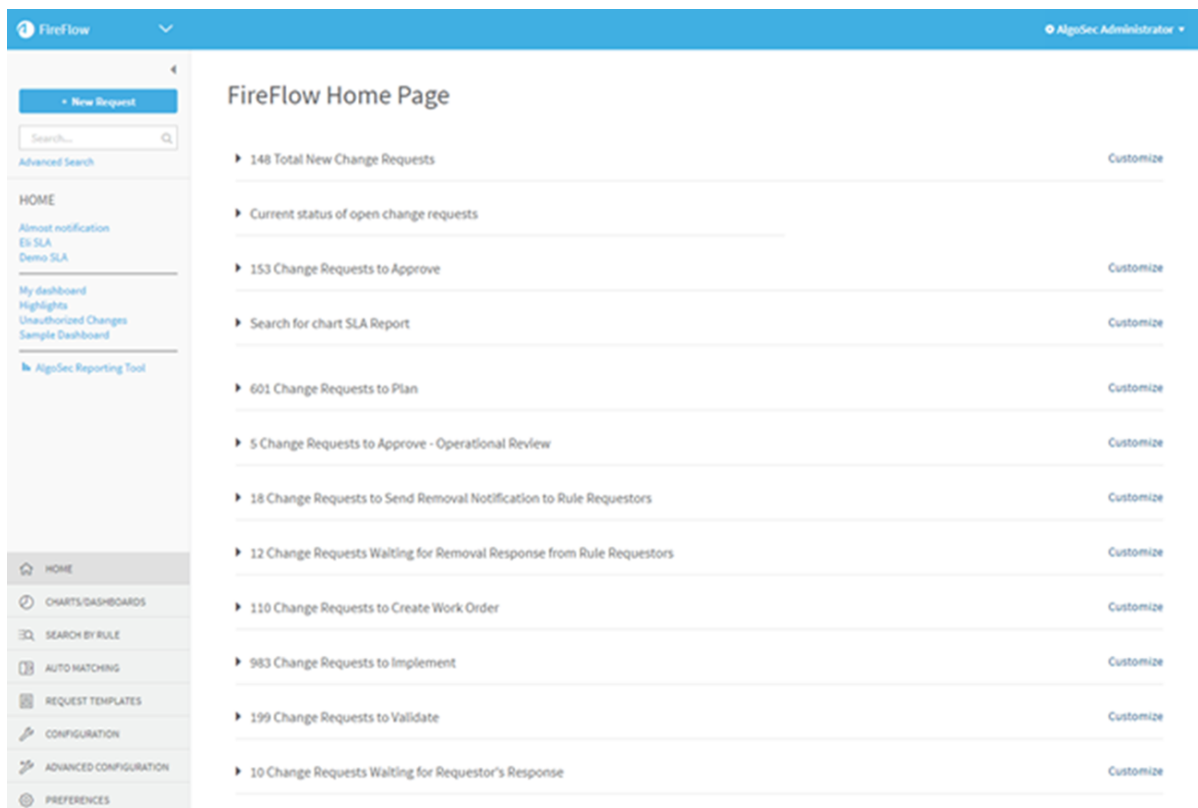
**Note:** By default, only lists that are relevant to your user role will appear in your **Home** page.

**Tip:** Customize this page by adding additional change request lists or changing the number of change requests displayed in each list.

Do the following:

1. In the main menu, click **Home**.

The **FireFlow Home Page** is displayed.



2. Click a change list to expand it and display the list of items.

**Note:** If the number of items in the list exceeds the configured maximum number of change requests to display per list, not all change requests in the change request list will be displayed.

In such cases, click the heading to view all items. The **Found** page appears displaying the relevant change requests.

3. To sort the list according to a column, click the column heading.

To reverse the sort order, click the column heading again.

### Home page change request lists

By default, the following change requests lists are displayed on your home page:

<p><b>New Change Requests</b></p>	<p>A list of change requests in the system that are new and still in the Request stage, and for which initial change planning has been completed.</p> <p><b>Note:</b> Upon change request creation, FireFlow checks the traffic specified in the change request against devices. New change requests will not appear in this list until FireFlow has completed this task. This may take a few minutes.</p> <p>This list only appears for users with network operations or administrator role.</p>
<p><b>Change Requests to Plan</b></p>	<p>A list of change requests in the system that are currently in the Plan stage.</p> <p>This list only appears for users with network operations or administrator role.</p>
<p><b>Change Requests to Approve</b></p>	<p>A list of change requests in the system that are currently in the Check stage.</p> <p>This list only appears for users with information security or administrator role.</p>
<p><b>Change Requests to Send Removal Notification to Rule Requestors</b></p>	<p>A list of change requests in the system that are currently in the Approve stage, and for which a rule removal notification will be sent to the rule's traffic requestors.</p> <p>This list only appears for users with network operations user or administrator role.</p>
<p><b>Change Requests Waiting for Removal Response from Rule Requestors</b></p>	<p>A list of change requests in the system that are currently in the Approve stage and awaiting confirmation from the rule's traffic requestors that the requested rule removals are approved.</p> <p>This list only appears for users with network operations user or administrator role.</p>
<p><b>Change Requests to Create Work Order</b></p>	<p>A list of change requests in the system that are currently in the Implement stage and awaiting a work order to be created.</p> <p>This list only appears for users with network operations or administrator role.</p>

<b>Change Requests to Implement</b>	<p>A list of change requests in the system that are currently in the Implement stage and awaiting implementation.</p> <p>This list only appears for users with network operations or administrator role.</p>
<b>Change Requests to Validate</b>	<p>A list of change requests in the system that are currently in the Validate stage.</p> <p>This list only appears for users with network operations or administrator role.</p>
<b>Change Requests Waiting for Requestor's Response</b>	<p>A list of change requests in the system that are currently in the Validate stage and awaiting the requestor's confirmation that the requested change was implemented successfully.</p> <p>This list only appears for users with network operations or administrator role.</p>
<b>Change Requests that Received Requestor's Response</b>	<p>A list of change requests in the system that are currently in the Validate stage, for which the requestor has confirmed that the requested change was implemented successfully.</p> <p>This list only appears for users with network operations or administrator role.</p>
<b>Change Requests that Flagged by Requestor as "Change Does Not Work"</b>	<p>A list of change requests in the system that have been flagged by the requestor as "Change Does Not Work".</p> <p>This list only appears for users with network operations or administrator role.</p>
<b>Requests Pending Implementation</b>	<p>A list of requests in the system that are currently in the Implement stage and awaiting implementation of their devices and policies.</p> <p>This list only appears for users with network operations or administrator role.</p>
<b>Change Requests that are due to be recertified</b>	<p>A list of traffic change requests in the system that expired, and which should be recertified.</p>

<b>Change Requests to Expire in the Next 30 days</b>	A list of change requests in the system that will expire between today and 30 days from today.  This list only appears for users with network operations or administrator role.
<b>Total New Change Requests</b>	A list of all change requests in the system that are new and still in the Request stage, including change requests whose traffic has not yet been checked against devices.
<b>Change Requests to Review</b>	A list of change requests in the system that use the Multi-Approval or Parallel-Approval workflow, and which are currently waiting for your review.  This list only appears for users with controller role.
<b>Change Requests I own</b>	A list of change requests in the system that are owned by you.
<b>Change Requests Relevant to My Roles</b>	A list of change requests in the system that are relevant to the user roles you are assigned.
<b>Bookmarked Change Requests</b>	A list of change requests you bookmarked.

## View individual change requests

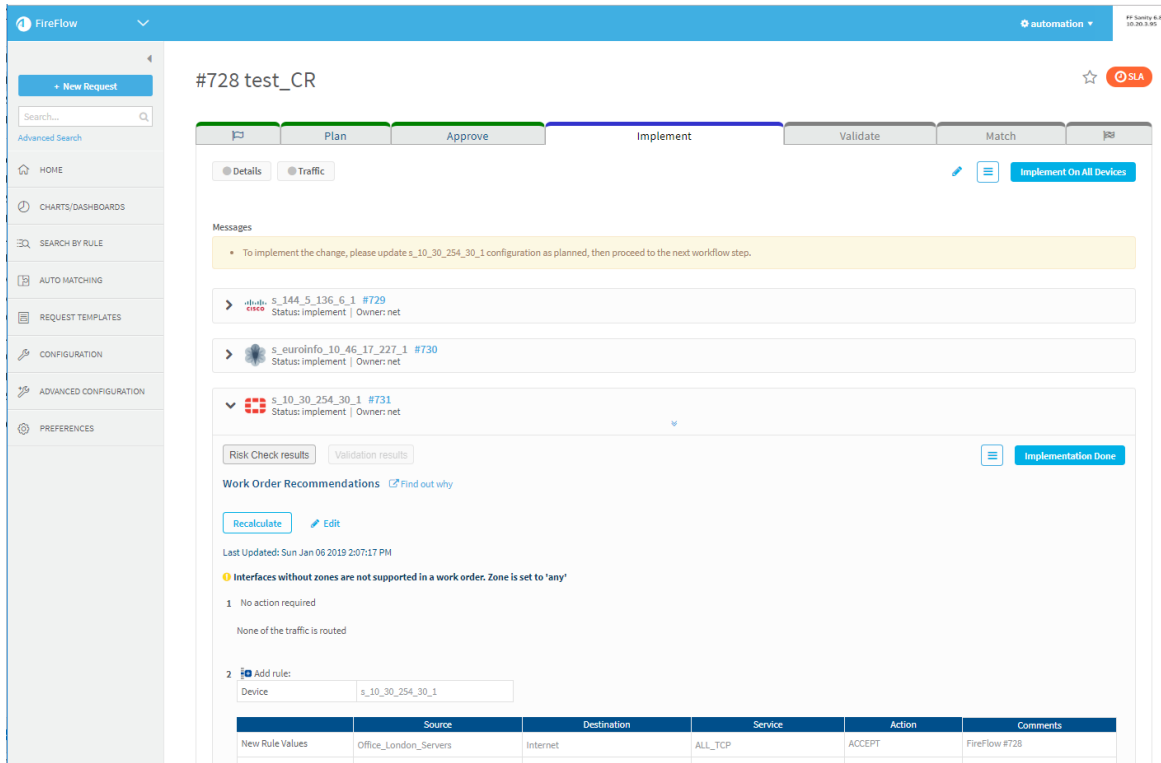
View a change request's details, including the change request's current lifecycle stage and basic information about the change request, such as the requestor, owner, original request details, and internal and external links. Additional information is provided depending on the change request's current lifecycle stage.

Do the following:

1. Browse to or search for a change request, and click the ID or subject to open it.

For details, see [View change requests on your home page](#) and [Search for change requests](#).


The change request appears.



This page displays the following details:

<p><b>Change request title and ID</b></p>	<p>View these at the top of the page.</p>
<p><b>Change request lifecycle status bar</b></p>	<p>View this status bar just under the title and ID.</p> <p>The status bar maps the stages in the lifecycle from left to right.</p> <ul style="list-style-type: none"> <li>• The current stage appears in <b>blue</b>, completed stages appear in <b>green</b>, and future stages appear in <b>grey</b>.</li> <li>• <b>An empty flag</b> indicates that the request is new; a <b>checkered flag</b> indicates that the request is resolved.</li> <li>• Click a previous stage to display a read-only view of the request data for that stage.</li> </ul> <p>For more details, see <a href="#">Change request statuses</a>.</p>

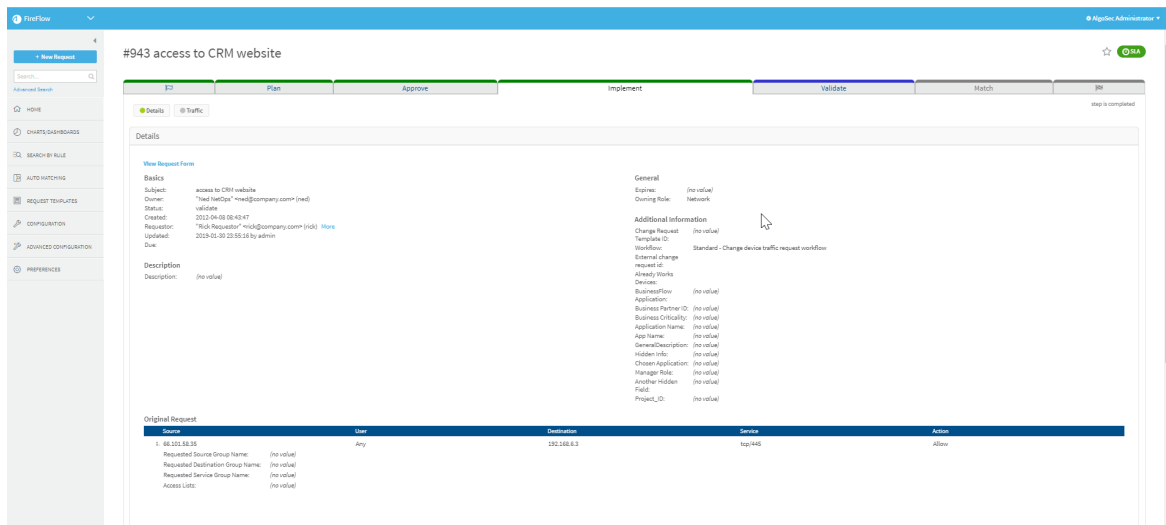
<p><b>Relevant device or policy</b></p>	<p>The device policy is displayed with the request's status, owner, and ID.</p> <p>For Palo Alto and Check Point policies, the <b>View Policy</b> link appears.</p> <p>For change requests that affect multiple devices or policies, each device appears in its own panel, and each panel contains all the information for the sub request. Clicking the panel reveals additional device information:</p> <ul style="list-style-type: none"> <li>• <b>IP.</b> The device's IP address.</li> <li>• <b>Latest Report.</b> The date of the device's latest AFA report, and a link to the report.</li> </ul>
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- To view change request information for a device, click  next to the desired device.

The change request information relevant to the device's stage is displayed below the device panel.

- To view detailed information about the change request, click **Details**.

The **Details** area appears.



For information about fields, see [Details Fields](#) (see [Details Fields](#)).

- To view specific change request information relevant to the change request type,



click the button to the right of the **Details** button.

For a traffic change request, this will be the **Traffic** button, for an object change request, this will be the **Object** button, for rule removal or modification request this will be the **Rules** button, and for a web filtering request, this will be the **Web Filtering** button.

The relevant information appears.

The screenshot shows the FireFlow interface for a traffic change request. The main content area displays a progress bar with stages: Plan, Approve, Implement, Validate, Match, and Done. The 'Traffic' section is active, showing a table of planned changes:

Planned Change	User	Destination	Service	Action
1. 66.102.58.35 Requested Source Group Name: (no value) Requested Destination Group Name: (no value) Requested Service Group Name: (no value) Access Lists: (no value)	Any	192.168.6.3	tcp/445	Allow


Below the table, there is a 'Work Order Recommendations' section with a table of current and recommended values:

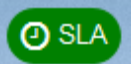
	Current Values	Recommended Values	Ticket Values
Source	66.102.58.35	192.168.6.3	192.168.6.3
Destination	192.168.6.3	192.168.6.3	192.168.6.3
Service	tcp/445	tcp/445	tcp/445
Action	Allow	Allow	Allow
Rule Comment:	FireFlow #943		

- To view information about an AppViz application that is related to the change request, click **Business Application Information**. This includes the application diagram and the changes to the application flows which are being implemented with the change request. For details, see [View business application details](#).

**Note:** The **Business Application Information** button only appears for traffic change requests which were opened for the sake of an application in AppViz. The **Business Application Information** button is disabled for users who do not have the AppViz permissions required to view this information about this application.

- To view previously calculated information, do one of the following:

<p><b>View work order, risk check results, or validation results</b></p>	<p>To view the work order, risk check results and/or validation results for a device, do the following:</p> <ol style="list-style-type: none"> <li>a. Click  next to the desired device to display the device's change request information. <p>Immediately below the device panel, a set of buttons appears that is relevant to the device's calculated information. These buttons may include <b>Work Order</b>, <b>Risk Check Results</b> and/or <b>Validation Results</b>.</p> <p>If the information has not been calculated, the button will be disabled.</p> </li> <li>b. Click the desired button. <p>A window appears with the calculated information for the desired device.</p> </li> </ol>
<p><b>View initial planning results</b></p>	<p>To view a change request's initial planning results in PDF format, do the following:</p> <ol style="list-style-type: none"> <li>a. In the Change Request Lifecycle Status Bar, click <b>Plan</b>. <p>The read-only view of the <b>Plan</b> tab appears.</p> </li> <li>b. Click <b>Initial Plan results</b>. <p>The initial plan PDF appears.</p> </li> </ol> <p><b>Note:</b> The Initial Plan results PDF will only appear for a change request once the Plan stage has been completed. The PDF file does not include the network map generated during Initial Planning.</p> <p>The Initial Plan results PDF may not appear, depending on your FireFlow configuration.</p>

7. To view information about the SLA, hover over .

The SLA information appears. For more details, see [SLA Information Fields](#).

**Note:** If the SLA icon is orange, an active SLO is expired.

## Change request statuses

Individual change requests might have any of the following statuses:

<b>plan</b>	The change request has been assigned an owner and is in the <b>Plan</b> stage.
<b>already works</b>	The requested change already exists, and there is therefore no need to implement the change request.
<b>approve</b>	The change request is in the <b>Approve</b> stage and being checked for security risks. An information security user will decide whether to approve the change request, based on the check results.
<b>approved</b>	The change request is in the <b>Approve</b> stage has been approved by an information security user.
<b>create work order</b>	The change request is now in the <b>Implement</b> stage, and the work order is being planned.
<b>implement</b>	The change request is now in the <b>Implement</b> stage, and the required change is being implemented.
<b>validate</b>	The change request is now in the <b>Validate</b> stage.
<b>user accept</b>	The change request is now in the <b>Validate</b> stage, and the requestor has been asked to verify implementation success.
<b>user confirmed</b>	<p>The change request is now in the <b>Validate</b> stage, and the requestor has marked the change as working, using the <b>Change Works</b> button.</p> <p><b>Note:</b> By default, the <b>user confirmed</b> status is not used, and when the requestor clicks the <b>Change Works</b> button, the change request automatically transitions to the <b>pending match</b> status. If desired, you can modify the workflow configuration to use this status.</p>
<b>user disapproved</b>	The change request is now in the <b>Validate</b> stage, and the requestor has marked the change as not working, using the <b>Change Doesn't Work</b> button.
<b>requestor response</b>	The change request is in the <b>Validate</b> stage, and the requestor has reported the change implementation results via email.
<b>review</b>	The change request is in a second approval stage called " <b>Review</b> ".
<b>notify requestors</b>	The rule removal request is in the <b>Approve</b> stage, and a rule removal notification will be sent to the rule's traffic requestors.

<b>pending response</b>	The rule removal request is in the <b>Approve</b> stage and awaiting the requestor's confirmation (and possibly the confirmation of other users) that the requested rule removal is approved.
<b>pending match</b>	The change request has been resolved and is now in the <b>Match</b> stage.
<b>matched</b>	During auto matching, a device change was matched to the change request; however, matching is not yet complete.
<b>resolved</b>	Auto matching is complete.
<b>rejected</b>	The change request was rejected.
<b>certified</b>	The change request was certified.
<b>deleted</b>	The change request was deleted.

## Details Fields

Each change request includes the following details. The items displayed for you may differ, depending on your user permissions.

### Basics area

This area displays basic information about the change request.

<b>Owner</b>	The change request owner's username and email address, in the format <code>username &lt;email&gt;</code> . For example, "bobsnetops<bobsnetops@mycompany.com>". If the change request has not yet been assigned an owner, this field displays "Not assigned yet".
<b>Status</b>	The change request's status. For details, see <a href="#">Change request statuses</a> .
<b>Created</b>	The date and time when the change request was created.

<b>Requestor</b>	The usernames and email addresses of the requestors, in the format "username" <email>. For example, "johns" <johnsmith@mycompany.com>.  To view more information about the requestor, and links to other related change requests, click the <b>More</b> link. For information on the displayed areas and fields, see <a href="#">More Fields</a>
<b>Updated</b>	The date and time when the change request was last updated, followed by the username of the person who last updated it.
<b>Due</b>	The date by which this change request should be resolved. This can be one of the following: <ul style="list-style-type: none"> <li>• A date</li> <li>• <b>Not set:</b> No due date was set.</li> </ul>
<b>Priority</b>	A number indicating this request's priority, where 0 indicates lowest priority.
<b>CC</b>	Email addresses to which the FireFlow system will send copies of all email messages regarding this request.

### Relevant Devices area

This area lists all devices relevant to the change requests and a link to all devices with the same policy.

For AWS and Azure, all containers and instances/VMs relevant to the security group in the change request are listed.

### General area

This area displays general information about the change request.

<b>Expires</b>	The date on which the change request will expire.
<b>Owning Role</b>	The role to which the change request is currently attributed.

<b>All Responsible Roles</b>	<p>All roles responsible for the change request in its current lifecycle stage.</p> <p>This field appears only for Parallel-Approval change requests, and only when there is more than one responsible role in the current lifecycle stage.</p>
<b>Pending Responsible Roles</b>	<p>The roles responsible for handling the change request in its current lifecycle stage, but which have not yet approved the change request.</p> <p>This field appears only for Parallel-Approval change requests, and only when there is more than one responsible role in the current lifecycle stage.</p>

### Recertified Change Request

If the change request is a recertification request, this area appears displaying related change requests.

Each change request is represented by its ID number, followed by its owner, relevant device, and current status. For details, see [Change request statuses](#).

To view a change request, click on its ID number.

### Additional Information area

This area displays additional information about the change request.

<b>From Template</b>	<p>The template used for the request on which this change request is based.</p> <p>This field only appears if the Standard request template was not used.</p>
<b>Change Request Template ID</b>	The ID of the change request's template.
<b>Workflow</b>	The workflow used for this change request.
<b>External change request id</b>	The ID number of a related change request in an external change management system that is integrated with FireFlow.

<b>Already Works Devices</b>	<p>The devices on which the requested change is already implemented.</p> <p>For example, if the change request is to allow a certain type of traffic, this field will list the devices on which that traffic is already allowed.</p>
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### Links area

This area displays links between this change request and other change requests.

<b>Refers to</b>	<p>The ID numbers of change requests to which this change request refers, separated by spaces.</p> <p>This field is optional.</p>
<b>Referred to by</b>	<p>The ID numbers of change requests that refer to the change request, separated by spaces.</p> <p>This field is optional.</p>

### Original Request area

This area displays the values specified in the original request.

These fields are read-only.

<b>Source</b>	The IP address, IP range, network, or device object.
<b>Destination</b>	The IP address, IP range, network, or device object.
<b>Service</b>	The device service or port for the connection.
<b>User</b>	<p>The user for the connection.</p> <p>This is only relevant for Check Point and Palo Alto devices. For all other devices, the field's value will always be <b>Any</b>.</p>
<b>Application</b>	<p>The network application for the connection.</p> <p>This is only relevant for Palo Alto Devices. For all other devices, the field's value will always be <b>Any</b>.</p>

<b>Action</b>	The device action to perform for the connection. This can be either of the following: <ul style="list-style-type: none"> <li>• <b>Allow:</b> Allow the connection.</li> <li>• <b>Drop:</b> Block the connection.</li> </ul>
<b>Source NAT</b>	The source NAT value to which the connection's source should be translated. <p><b>Note:</b> If the <b>Source after NAT</b> field appears below this field, then this field displays the source NAT value <i>before</i> translation.</p>
<b>Source after NAT</b>	The source NAT value after translation.
<b>Destination NAT</b>	The destination NAT value to which the connection's destination should be translated. <p><b>Note:</b> If the <b>Destination after NAT</b> field appears below this field, then this field displays the destination NAT value <i>before</i> translation.</p>
<b>Destination after NAT</b>	The destination NAT value after translation.
<b>Port Translation</b>	The port value to which the connection's port should be translated. <p><b>Note:</b> If the <b>Port after Translation</b> field appears below this field, then this field displays the port value <i>before</i> translation.</p>
<b>Port after Translation</b>	The port value after translation.
<b>NAT Type</b>	The type of NAT ( <b>Static</b> or <b>Dynamic</b> ).
<b>Requested action</b>	The requested action in a Rule Removal request ( <b>Disable Rule</b> or <b>Remove Rule</b> ).

### More Fields

This area displays more details, such as about the requestor:



<b>Full Name</b>	The requestor's full name.
<b>Mobile Phone</b>	The requestor's mobile telephone number.
<b>Home Phone</b>	The requestor's home telephone number.
<b>Work Phone</b>	The requestor's work telephone number.
<b>Pager Phone</b>	The requestor's pager telephone number.
<b>Email Address</b>	The requestor's email address.
<b>Comments about this user</b>	Comments about this requestor.
<b>This user's 10 highest priority change requests</b>	<p>A list of the 10 highest priority change requests that this requestor created.</p> <p>Each change request is represented by its ID number, followed by its current status. For details, see <a href="#">Change request statuses</a>.</p> <p>To view a change request, click on its number.</p>

## View business application details

The **Business Application Information** button appears for traffic change requests which were opened for the sake of an application in AppViz.

**Note:** This button is disabled for users who do not have the AppViz permissions required to view this information about this application.

The application name appears as a link to the application in AppViz. The **Diagram** tab displays the fully interactive application diagram.

Selecting the **Changed Flow** tab displays the changes to the application's flows which are being implemented with the change request.

## SLA Information Fields

Active SLA	A list of currently active SLAs, including their names, due dates, and the amount of time elapsed so far.
Completed SLA	A list of completed SLAs, including their names, the amount of time it took to complete them, and their current status.
Devices SLA	Click any of the devices to display its SLA information. This field only appears for change requests that affect multiple devices.

## View change request histories

View a change request's history, including all comments and replies associated with the change request.

Do the following:

1. View the change request. For details, see [View individual change requests](#).
2. Do one of the following:
  - Click to expand the **History** area. The history is displayed.
  - In the main menu on the left, click **History** under the change request number.

The **Change Request History** appears displaying all comments and replies

associated with this change request.

For each comment/reply, the following information is displayed:

- **Brief header information**, including the date and time at which the comment/reply was created, the name of the user who created it, and its subject line.
- **The full text of the comment/reply.**

**Note:** The full text will not appear if you limited the length of displayed messages. For information on configuring this setting, see [Customizing General FireFlow Settings](#).

- **The size of the comment/reply in bytes.**
3. Click **Full headers** to display full header information for each comment/reply, at the top of the **History** area.


4. Click **Brief headers** to display brief header information for each comment/reply, at the top of the **History** area.
5. Click **Download** to view a comment/reply in plain text, next to the desired comment/reply.
6. To view an automatically generated email sent by the FireFlow system, next to the desired "FireFlow\_System - Outgoing email recorded" history item, click **Show**.


The email and its full header information appear in a new window.

## Bookmark change requests

If you would like to keep track of a change request, you can bookmark it. The bookmarked change request will appear in your **Home** page's **Bookmarked Change Requests** list.

Do the following:

1. View the change request. For details, see [View individual change requests](#).
2. In the top-right corner of the workspace, click the  icon.

The icon changes to  .

You can now view the bookmarked change request in your **Home** page's **Bookmarked Change Requests** list. For details, see [View change requests on your home page](#).

## Search for change requests

This topic describes how to perform a simple search for change requests, as well as how to perform and manage advanced searches.

### Perform a simple search

This procedure describes how to perform a simple text based search for details in change request parameters or histories.

**Tip:** FireFlow also includes advanced search options. For details, see [Search for change requests](#).

Do the following:

1. In the main menu on the left, enter your search query in the **Search** field.

Enter any of the following:

- A change request ID number
- Status
- Queue
- Owner name
- Requestor email address
- Subject

To search across all change request histories, enter your search term using the following syntax:

```
fulltext:<search term>
```

**Note:** Searching the full change request history can take a long time.

For more details, see [FireFlow simple search process](#).

2. Click  .

The **Found** page appears displaying search results.

Found 4,213 change requests

Back Update Multiple Change Requests Export

Id	Subject	Requestor	Workflow	Policy to be changed	Device Name	Status	Owner	Created	Last Updated
2	Help me get access	fa@algotsec.com	Standard		ALGO_CL	pending match	security	10 years ago	8 years ago
6	(No subject)	rick@company.com	Standard			pending match	Not Assigned	10 years ago	8 years ago
13	open port 777	rick@company.com	Standard		Flower_ASA	resolved	netop	9 years ago	9 years ago
47	access to internal website	rick@company.com	Standard			resolved	netop	10 years ago	8 years ago
52	access to CRM website	rick@company.com	Standard		Rose_checkpoint	resolved	netop	10 years ago	6 months ago
53	I need to be able to send email	rick@company.com	Standard			resolved	netop	10 years ago	8 years ago
54	access to internal website	rick@company.com	Basic-With-ActiveChange-for-CKP			resolved	netop	10 years ago	6 months ago
55	Please allow RPC :-)				Rose_checkpoint	resolved	netop	10 years ago	8 years ago
56	access to internal CRM website	rick@company.com	Basic-With-ActiveChange-for-CKP		Rose_checkpoint	pending match	Not Assigned	10 years ago	4 years ago
57	access to intranet	rick@company.com	Basic-With-ActiveChange-for-CKP			resolved	netop	10 years ago	4 years ago

Do one of the following:

- **To sort your results**, click the column heading that you want to sort by. Click the heading again to reverse the sort order.
- **To view a specific change request**, click the ID number or subject.

For more details, see [Simple Search Results Columns](#).

### Simple Search Results Columns

Depending on your system configuration, your search results may include any of the following columns:

<b>Id</b>	The change request ID number.
<b>Subject</b>	The change request subject.
<b>Requestor</b>	The requestors' email addresses.

<b>Workflow</b>	The change request's workflow. For more details, see <a href="#">Request templates and workflows</a> .
<b>Device Name</b>	The device for which this change request is relevant.  <b>Tip:</b> This field also includes cloud devices. For more details, see <a href="#">Amazon Web Services and Microsoft Azure "Devices"</a> .
<b>Status</b>	The change request's current status.
<b>Owner</b>	The change request's owner.
<b>Priority</b>	The change request's priority.
<b>Created</b>	The amount of time that has elapsed since the change request was created.
<b>Last Updated</b>	The amount of time that has elapsed since the change request was last updated.

### FireFlow simple search process

FireFlow processes your query in the following order:

1. If your query contains a number, FireFlow checks whether any change request ID numbers match your query.
2. FireFlow checks whether your query starts with **fulltext**. If so, then FireFlow searches the full history of all change requests.
3. If your query contains an **@**, FireFlow checks whether any requestors' email addresses match your query.
4. FireFlow checks whether any **statuses** match your query.
5. FireFlow checks whether any **queues** match your query.
6. FireFlow checks whether any **owner names** match your query.
7. FireFlow checks whether any change requests' **Subject** fields match your query.

## Search by rule

This procedure describes how to search for all traffic change requests whose requested change intersects with a specific device rule.

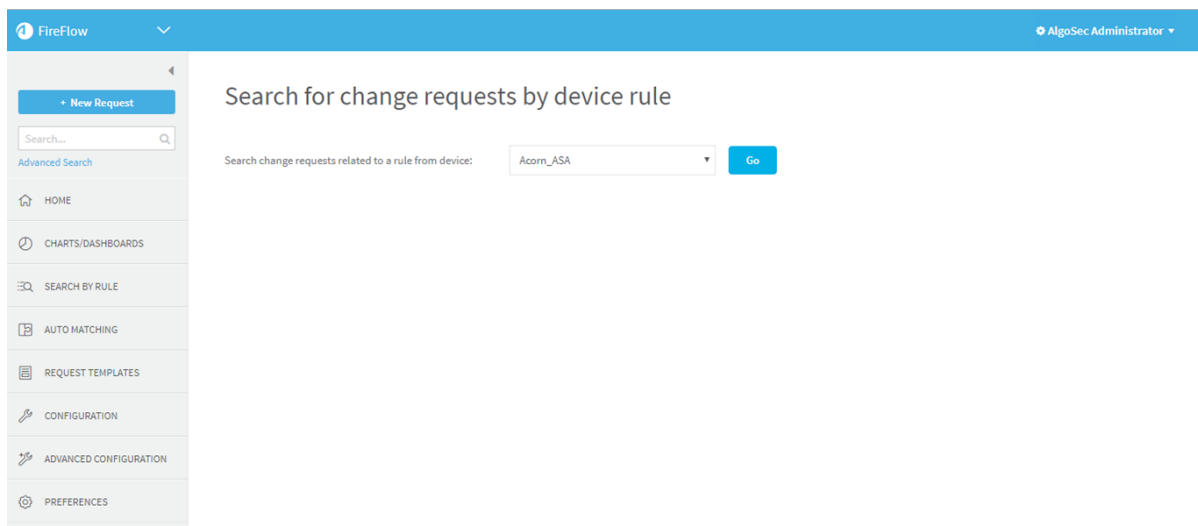
**Note:** This feature supports new change requests created in FireFlow v6.0 and above. Change requests created in earlier versions are only partially supported and may not be returned in the search results.

**Note:** This procedure can also be performed from within AFA reports.

Do the following:

1. In the main menu, click **Search By Rule**.

The **Search for change requests by device rule** page is displayed.



2. Select the desired device from the drop-down list and click **Go**.

The **Search for change requests by device rule** page appears displaying all rules and objects for the device.




Search for change requests by device rule

Search change requests related to a rule from device:

History	#	Enabled	Source	User	Destination	Service	Action	Logging	Time
inside (73 incoming rules)									
1		<input type="checkbox"/>	10.20.30.198	admin	10.10.30.198	isakmp	Permit	Informational	FireFlow #
2		<input type="checkbox"/>	any	any	any	sip	Deny		
3		<input type="checkbox"/>	e_10.20.15.2	LAB	10.40.5.5	echo	Permit		FireFlow #
4		<input type="checkbox"/>		LAB	255.255.255.0/	ip	Permit		
5		<input type="checkbox"/>	10.20.30.9	admin	10.10.30.112 10.10.30.109	gr-FireFlow-ModifiedGroup: gr-FireFlow-5182-Service-1: 12 13	Permit	Informational	FireFlow #
6		<input type="checkbox"/>		any			Remark		
7		<input type="checkbox"/>		any			Remark		
8		<input type="checkbox"/>	10.20.30.9	admin	10.10.30.112	gr-FireFlow-5182-Service-2: 1-200 12	Permit	Informational	
9		<input type="checkbox"/>		any			Remark		
						gr-FireFlow-5182-Service-4.7:			

https://192.168.11.40/FireFlow/Search/ByRule.html

To view all change requests related to a specific rule, in the **Policies** table, next to the desired rule, click .

- The change requests related to the rule are displayed.

**Note:** The search results include change requests that did not require policy changes (those that were marked as "Already Works").

**Note:** If you selected a Check Point or Juniper NSM device, change requests are displayed for all devices that are installed with the same policy as the selected device.

## Define an advanced search

This procedure describes how to define an advanced search for FireFlow change requests.

**Tip:** Alternately, perform a simple search. For details, see [Perform a simple search](#).

Do the following:

1. In the **Query Builder** page's **Add Criteria** area, specify the search criteria.

Do the following:

- a. In the **Aggregator** field, choose the aggregator to use between search criteria.
- b. To search according to criteria related to the device, the requested change, the planned change, and risk check results, do the following:
  - i. In the **Queue** row, select **Firewalls**.
  - ii. Click **Add these terms**.

Additional rows appear in the **Add Criteria** area.

- c. For each row in the **Add Criteria** area, define your search criteria by selecting change request properties and operators and entering a value for each property.

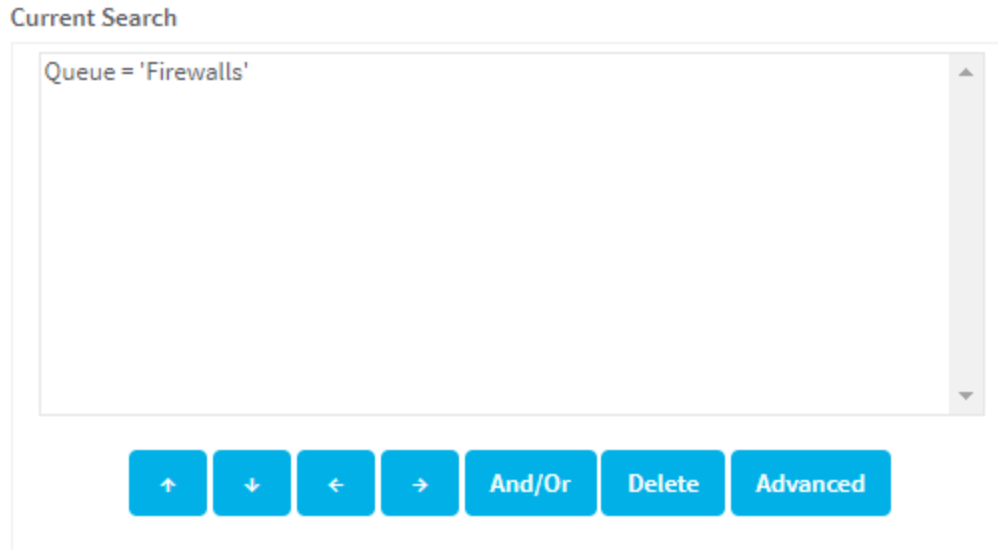
For example: **Owner is johnS (John Smith)**

For more details, see:





- [Advanced search fields](#)
- [Advanced search operators](#)

- d. Click **Add these terms**.

The specified criterion is added to the **Current Search** area. The selected aggregator is used between the criteria.

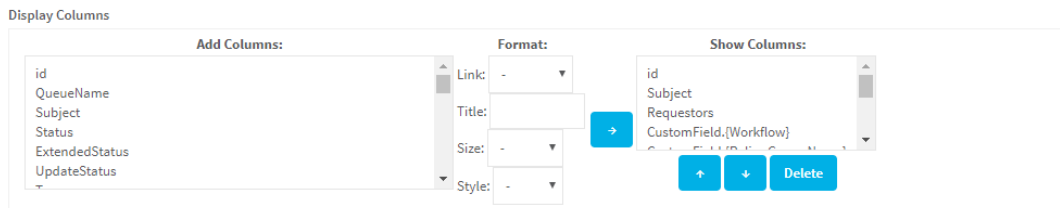


Use the buttons in this dialog to do any of the following:


- **Move** a selected criterion up  or down 
- **Increase**  or **decrease**  indentation for a selected criterion
- **Toggle** the selected aggregator (and/or)
- **Delete** a selected criterion
- Perform an **advanced** query edit. For more details, see [Advanced query edits](#).

2. Specify how the search results should appear, by doing the following:



a. Scroll to the **Display Columns** area.



b. For each column you want to appear in the search results, do the following:

- i. In the **Add Columns** box, select a column you want to appear.
- ii. Complete the fields in the **Format** area. For details, see [Advanced search column format fields](#).
- iii. Click .

The column appears in the **Show Columns** box. The order that the columns appear in the box (top to bottom) represents the order in which they will appear in the search results (left to right).

- iv. To move the column up or down in the box, select the column and click the  or  buttons.
  - v. To delete the column, select it and click **Delete**.
- c. Scroll to the **Sorting** area.

Sorting

Order by:	id	▼	Asc	▼
	[none]	▼	Asc	▼
	[none]	▼	Asc	▼
	[none]	▼	Asc	▼
Rows per page:	50	▼		

- d. In the **Order by** area, specify the default sort order of the search results as follows:
    - i. In the left-side fields, select one or more columns according to which the search results should be sorted.
    - ii. In the right-side fields, select the sort order to use for each specified column: ascending (**Asc**) or descending (**Desc**).
  - e. In the **Rows per page** field, select the number of search result rows that should appear in each page.
3. To remove all of your changes and define a new search, in the main menu, click **New Search**.

## Advanced query edits

To perform an advanced edit of the defined search, do the following:

1. In the **Current Search** area, click **Advanced**.

The **Edit Query** page is displayed.



2. In the **Query** text box, modify the search criteria as desired.
3. In the **Format** text box, modify the displayed columns as desired.
4. To remove your changes, click **Reset**.
5. Click **Apply**.

The **Query Builder** page reappears with your changes.

## Advanced search fields

The following fields are available for advanced search queries in FireFlow:



<b>id</b>	Type the change request ID number.
<b>Subject</b>	Type the change request subject.

<b>Content</b>	Type text that appears in the original change request description or in a comment or reply added to the change request.
<b>Content-Type</b>	Type the file type of an attachment attached to the change request.
<b>Filename</b>	Type the filename of an attachment for the change request.
<b>Status</b>	Select the change request status.
<b>Owner</b>	Select the user who is the current change request owner.
<b>Creator</b>	Select the user who is the change request creator.
<b>Last updated by</b>	Select the user who last updated the change request.
<b>Requestor EmailAddress</b>	Type the requestor's email address.
<b>Requestor Name</b>	Type the requestor's username.
<b>Requestor Full Name</b>	Type the requestor's full name.
<b>Requestor Nickname</b>	Type the requestor's nickname.
<b>Requestor Organization</b>	Type the requestor's organization.
<b>Requestor Address1</b>	Type the requestor's primary mailing address.
<b>Requestor Address2</b>	Type the requestor's secondary mailing address.
<b>Requestor WorkPhone</b>	Type the requestor's office telephone number.
<b>Requestor HomePhone</b>	Type the requestor's home telephone number.
<b>Requestor MobilePhone</b>	Type the requestor's mobile telephone number.

<b>Requestor PagerPhone</b>	Type the requestor's pager telephone number.
<b>Requestor id</b>	Type the requestor's ID.
<b>Cc EmailAddress</b>	Type the email address of a user who receives copies of email messages for the change request.
<b>Cc Name</b>	Type the username of a user who receives copies of email messages for the change request.
<b>Cc Full Name</b>	Type the full name of a user who receives copies of email messages for the change request.
<b>Cc Nickname</b>	Type the nickname of a user who receives copies of email messages for the change request.
<b>Cc Organization</b>	Type the organization of a user who receives copies of email messages for the change request.
<b>Cc Address1</b>	Type the primary mailing address of a user who receives copies of email messages for the change request.
<b>Cc Address2</b>	Type the secondary mailing address of a user who receives copies of email messages for the change request.
<b>Cc WorkPhone</b>	Type the office telephone number of a user who receives copies of email messages for the change request.
<b>Cc HomePhone</b>	Type the home telephone number of a user who receives copies of email messages for the change request.
<b>Cc MobilePhone</b>	Type the mobile telephone number of a user who receives copies of email messages for the change request.
<b>Cc PagerPhone</b>	Type the pager telephone number of a user who receives copies of email messages for the change request.
<b>Cc id</b>	Type the ID of a user who receives copies of email messages for the change request.
<b>Owner EmailAddress</b>	Type the owner's email address.
<b>Owner Name</b>	Type the owner's username.

<b>Owner Full Name</b>	Type the owner's full name.
<b>Owner Nickname</b>	Type the owner's nickname.
<b>Owner Organization</b>	Type the owner's organization.
<b>Owner Address1</b>	Type the owner's primary mailing address.
<b>Owner Address2</b>	Type the owner's secondary mailing address.
<b>Owner WorkPhone</b>	Type the owner's office telephone number.
<b>Owner HomePhone</b>	Type the owner's home telephone number.
<b>Owner MobilePhone</b>	Type the owner's mobile telephone number.
<b>Owner PagerPhone</b>	Type the owner's pager telephone number.
<b>Owner id</b>	Type the owner's ID.
<b>Created</b>	Specify the date on which the change request was created, either by typing the date in YYYY-MM-DD format, or by clicking <b>Choose a date</b> and selecting the date in the calendar.
<b>Resolved</b>	Specify the date on which the change request was resolved, either by typing the date in YYYY-MM-DD format, or by clicking <b>Choose a date</b> and selecting the date in the calendar.
<b>Last Updated</b>	Specify the date on which the change request was last updated, either by typing the date in YYYY-MM-DD format, or by clicking <b>Choose a date</b> and selecting the date in the calendar.
<b>Due</b>	Specify the change request's due date, either by typing the date in YYYY-MM-DD format, or by clicking <b>Choose a date</b> and selecting the date in the calendar.
<b>Priority</b>	Type the change request's current priority.
<b>Initial Priority</b>	Type the change request's priority at the start of its lifecycle.



<b>Final Priority</b>	Type the change request's priority at the end of its lifecycle.
<b>RefersTo</b>	Type the ID numbers of change requests to which this change request refers, separated by spaces.
<b>ReferredToBy</b>	Type the ID numbers of change requests that refer to this change request, separated by spaces.
<b>SLA Name</b>	Type the name of the SLO currently used for the change request.
<b>SLA Due Date</b>	<p>Specify the due date of the SLO currently used for this change request, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. You can use most relative and absolute formats, for example <code>yyyy-mm-dd</code>, <code>mm/dd/yyyy</code>, <code>Mon dd yyyy</code>, “next week”, and “now + 3 days”.</li> </ul>
<b>SLA Status</b>	Select the status of the SLO currently used for this change request.
<b>SLA Elapsed Time</b>	Specify the total amount of elapsed time for this change request, as specified in the SLA, by typing the amount of time and then selecting the units of time.
<b>Expires</b>	<p>Specify the date on which this change request will expire, by doing one of the following:</p> <ul style="list-style-type: none"> <li>• Click , and select the desired date in the calendar that appears. To navigate to different months in the calendar, click <b>Prev</b> and <b>Next</b>.</li> <li>• Type the desired date in the field provided. You can use most relative and absolute formats, for example <code>yyyy-mm-dd</code>, <code>mm/dd/yyyy</code>, <code>Mon dd yyyy</code>, “next week”, and “now + 3 days”.</li> </ul>

<b>Requested Source</b>	Type the IP address, IP range, network, device object, or DNS name of the connection source, as specified in the original request.
<b>Requested Action Type</b>	Type the action used in the change request's first row of traffic. This can be any of the following: <ul style="list-style-type: none"> <li>• <b>Allow</b></li> <li>• <b>Drop</b></li> <li>• <b>Mixed</b></li> </ul>
<b>Requested Destination</b>	Type the IP address, IP range, network, device object, or DNS name of the connection destination, as specified in the original request.
<b>Requested Service</b>	Type the device service or port for the connection, as specified in the original request.
<b>Requested Action</b>	Type the device action to perform for the connection, as specified in the original request.
<b>Requested Source NAT</b>	Type the source NAT value to which the connection's source should be translated, as specified in the original request.
<b>Ticket Template Name</b>	Type the name of the change request's template.
<b>Ticket Template ID</b>	Type the ID of the change request's template.
<b>Requested Destination NAT</b>	Type the destination NAT value to which the connection's destination should be translated, as specified in the original request.
<b>Requested Port Translation</b>	Type the port value to which the connection's port should be translated, as specified in the original request.
<b>Workflow</b>	Select the workflow assigned to the change request.
<b>Owning Role</b>	Type the user role that currently owns the change request.
<b>Requested NAT Type</b>	Enter the type of NAT ( <b>Static</b> or <b>Dynamic</b> ), as specified in the original request.

<b>Additional Responsible Roles</b>	<p>Specify the user roles, other than the owning role, that are responsible for handling the change request in its current lifecycle stage. Select any of the following:</p> <ul style="list-style-type: none"> <li>• A role name.</li> <li>• <b>__USER_GROUPS__</b>. All roles of which you are a member.</li> </ul> <p>To select multiple roles, hold down the Ctrl key while clicking on the desired roles.</p>
<b>Pending Responsible Roles</b>	<p>Specify the roles that are responsible for handling the change request in its current lifecycle stage, but which have not yet approved the change request. Select any of the following:</p> <ul style="list-style-type: none"> <li>• A role name.</li> <li>• <b>__USER_GROUPS__</b>. All roles of which you are a member.</li> </ul> <p>To select multiple roles, hold down the Ctrl key while clicking on the desired roles.</p>
<b>CMS ticket id</b>	Type the ID number of a related change request in an external change management system that is integrated with FireFlow.
<b>Firewall Name</b>	Type the name of the device.
<b>Firewall IP Address</b>	Type the IP address of the device.
<b>Firewall Brand</b>	Type the name of the device vendor.
<b>Firewall Management Server</b>	Type the name of the device management server.
<b>Firewall Policy</b>	Type the name of the device security policy.
<b>Firewall Last Report</b>	Type the name of last report generated for the device.
<b>Firewall Last Report Date</b>	Type the date and time at which the last report for this device was generated.

<b>Change Description</b>	Type the change description.
<b>Requested UserGroup</b>	Type the user or user group that should be allowed/denied access to a URL, as specified during the Request stage.
<b>Change UserGroup</b>	Type the user or user group that should be allowed/denied access to a URL, as planned during the Plan stage.
<b>Requested URL</b>	Type the URL that should be allowed/blocked, as specified during the Request stage.
<b>Change URL</b>	Type the URL that should be allowed/blocked, as planned during the Plan stage.
<b>Requested Category</b>	Type the URL's Web filtering category, as specified during the Request stage.
<b>Change Category</b>	Type the URL's Web filtering category, as planned during the Plan stage.
<b>Requested Web Action</b>	Select the device Web filtering action to perform for the connection, as specified during the Request stage.
<b>Change Web Action</b>	Select the device Web filtering action to perform for the connection, as planned during the Plan stage.
<b>Organization Methodology</b>	Select the organizational methodology to be used for implementing a Web filtering change request, as specified during the Approve stage.
<b>Category to Update</b>	Type the Web filtering category that should be updated, in order to allow/block the URL.
<b>Change Source</b>	Type the IP address, IP range, network, device object, or DNS name of the connection source, as planned during the Plan stage.
<b>Requested Object Action Type</b>	Type the device action to perform for the object, as specified during the Request stage.
<b>Change Object Action Type</b>	Type the device action to perform for the object, as planned during the Plan stage.

<b>Change Destination</b>	Type the IP address, IP range, network, device object, or DNS name of the connection destination, as planned during the Plan stage.
<b>Change Service</b>	Type the device service or port for the connection, as planned during the Plan stage.
<b>Change Action</b>	Type the device action to perform for the connection, as planned during the Plan stage.
<b>Change Source NAT</b>	Type the source NAT value to which the connection's source should be translated, as planned during the Plan stage.
<b>Change Destination NAT</b>	Type the destination NAT value to which the connection's destination should be translated, as planned during the Plan stage.
<b>Change Port Translation</b>	Type the port value to which the connection's port should be translated, as planned during the Plan stage.
<b>Change NAT Type</b>	Type the type of NAT ( <b>Static</b> or <b>Dynamic</b> ), as planned during the Plan stage.
<b>Change Implementation Notes</b>	Type words that appear in the change request's implementation notes, if the change request has completed the Implement stage.
<b>Request Risk Check Result</b>	Type the number and/or severity of risks that implementation of the planned change would entail.
<b>Initial Plan Result</b>	Type the results of initial planning.
<b>Form Type</b>	Select the type of request used for the change request ( <b>Traffic Change</b> , <b>Object Change</b> , or <b>Generic Change</b> ).
<b>Change Validation Result</b>	Type the results of change validation.
<b>Risks Number</b>	Type the number of risks detected for the planned change, if the change request has completed the risk check in the Approve stage.

<b>Risks Details</b>	Type details about the risks detected for the planned change, if the change request has completed the risk check in the Approve stage.
<b>Translated Source</b>	Select the change request's source, as translated to IP addresses.
<b>Requested Object Action</b>	Select the requested action for an object change request ( <b>AddIPsToObject</b> / <b>RemoveIPsFromObject</b> / <b>NewObject</b> / <b>DeleteObject</b> ).
<b>Translated Destination</b>	Select the change request's destination, as translated to IP addresses.
<b>Change Object Action</b>	Select the action for an object change request, as specified during the Plan stage ( <b>AddIPsToObject</b> / <b>RemoveIPsFromObject</b> / <b>NewObject</b> / <b>DeleteObject</b> ).
<b>Translated Service</b>	Select the change request's service, as translated to ports.
<b>Requested Object Name</b>	Type an object's name, as specified in the original object change request.
<b>Automatically Implemented</b>	Select whether the requested change should be automatically implemented.
<b>Change Object Name</b>	Type an object's name, as specified for an object change request in the Plan stage.
<b>Already Works Firewalls</b>	Type the names of devices on which the requested change already works.
<b>Requested IPs To Add</b>	Type the IP addresses to add to an object, as specified in the original object change request.
<b>Change IPs To Add</b>	Type the IP addresses to add to an object, as specified for an object change request in the Plan stage.
<b>Requested IPs To Remove</b>	Type the IP addresses to remove from an object, as specified in the original object change request.
<b>Change IPs To Remove</b>	Type the IP addresses to remove from an object, as specified for an object change request in the Plan stage.

<b>Requested Object Scope</b>	Select the object scope, as specified in the original object change request.
<b>Change Object Scope</b>	Select the object scope, as specified for an object change request in the Plan stage.
<b>Is Work Order Editable</b>	Specify whether the work order is editable.
<b>Change Full Data</b>	Specify the change that has been matched to the change request's full data.
<b>Is Active Change Applicable</b>	Specify whether ActiveChange can be used to implement the requested change.
<b>Object Change Validation Result</b>	Type the results of object change validation.
<b>Create tickets from attachment</b>	Select whether the change request was created from a file.
<b>Affected Rules Result</b>	Type the device rules that are affected by a suggested object change request.
<b>Firewall Provider-1</b>	Type the name or IP address of the MDSM managing the device.  This field is relevant for Check Point devices only.
<b>Rule Removal Identifier</b>	Type the identifier of a rule removal request.
<b>Rule Removal Display Id</b>	Type the display ID of a rule to be removed via a rule removal request.
<b>Rule Removal Snippet</b>	Type a snippet of a rule to be removed via a rule removal request.
<b>Rule Removal Line Num</b>	Type the line number of a rule to be removed via a rule removal request.
<b>Rule Removal Rule Action</b>	Type the action of a rule to be removed via a rule removal request.

<b>Rule Removal Related Query</b>	Type a query related to a rule to be removed via a rule removal request.
<b>Rule Removal Related Tickets</b>	Type the ID numbers of change requests related to a rule removal request.
<b>Rule Removal Related Tickets Requestors</b>	Type the names of requestors who submitted change requests related to a rule removal request.
<b>Rule Removal Users to Notify</b>	Type the names of users to notify for a rule removal request.
<b>Requested Rule Removal Action</b>	Select a rule removal request's action.
<b>Change Rule Removal Action</b>	Select the action to which a rule removal request's original action was changed.
<b>Rule Removal Hit Count</b>	Type the number of times a rule to be removed via a rule removal request was used over a certain period of time. If desired, the period of time can be specified in the <b>Rule Removal Hit Count Duration</b> field.
<b>Rule Removal Hit Count Duration</b>	Type the number of days over which a rule to be removed via a rule removal request was used to block/allow connections.
<b>Rule Removal Last Used on</b>	Type the date on which a rule to be removed via a rule removal request was last used.
<b>Rule Removal First Log Date</b>	Type the date of oldest log that was consulted to obtain usage information about a rule to be removed via a rule removal request.
<b>Rule Removal Last Log Date</b>	Type the date of newest log that was consulted to obtain usage information about a rule to be removed via a rule removal request.
<b>Rule Removal Usage Info</b>	Type information about the usage of a rule that is to be removed.



<b>Rule Removal Ticket Origin</b>	<p>Type the origin of a rule removal request. This can be any of the following:</p> <ul style="list-style-type: none"> <li>• <b>Unused Rule</b></li> <li>• <b>Covered Rule</b></li> <li>• <b>Special Case Rule</b></li> </ul> <p>This field is relevant for change requests originating in AlgoSec Firewall Analyzer only.</p>
<b>Rule Removal Show Related Tickets</b>	Type the IDs of change requests are related to a rule that is to be removed.
<b>Risk Level</b>	Type the change request's highest risk level, as determined by a risk check.
<b>Recertification Related Tickets Calculation Date</b>	Type the date on which related change requests will be recertified.
<b>Recertification Candidate Devices</b>	Type the names of devices for which change requests that are candidates for recertification were issued.
<b>Recertified Traffic Ticket</b>	Type the name of the traffic change request that is being recertified.
<b>Rule Removal Notify Not responded</b>	Type the names of related change requestors that have not yet responded regarding a rule removal request.
<b>Recertification Status</b>	<p>Select the status of a recertification request. This can be any of the following:</p> <ul style="list-style-type: none"> <li>• <b>Stand by:</b> Standing by for the change requestors' responses. This status continues until the responses are received, or the due date passes.</li> <li>• <b>In process:</b> The change request is open.</li> <li>• <b>Resolved:</b> The change request has been resolved.</li> </ul>
<b>Application Default Services</b>	Type the protocol/port that the application uses by default (for example, tcp/80).

<b>Initial Plan Result For Allow Traffic</b>	Type the results of initial planning for a change request's Allow traffic.
<b>Initial Plan Result For Drop Traffic</b>	Type the results of initial planning for a change request's Drop traffic.
<b>Firewall Name for Traffic to be Allowed</b>	Type the name of the device for which traffic should be allowed, according to a change request.
<b>Firewall Name for Traffic to be Dropped</b>	Type the name of the device for which traffic should be blocked, according to a change request.
<b>Implementation Recommendations</b>	Type the Implementation Recommendations generated for a change request.

### Advanced search operators

Use any of the following operators when performing an advanced search in FireFlow:

Operator	Description
<b>less than</b>	Search for change requests in which the property in the left column is less than the number in the right column.  For example, if the criterion is <b>Id less than 7</b> , the search will return all change requests with ID numbers less than 7.
<b>equal to</b>	Search for change requests in which the property in the left column is equal to the number in the right column.  For example, if the criterion is <b>Id equal to 7</b> , the search will return the change request with ID number 7.
<b>greater than</b>	Search for change requests in which the property in the left column is greater than the number in the right column.  For example, if the criterion is <b>Id greater than 7</b> , the search will return all change requests with ID numbers greater than 7.

Operator	Description
<b>not equal to</b>	<p>Search for change requests in which the property in the left column is not equal to the number in the right column.</p> <p>For example, if the criterion is <b>Id not equal to 7</b>, the search will return all change requests with ID numbers other than 7.</p>
<b>matches</b>	<p>Search for change requests in which the property in the left column contains the value in the right column.</p> <p>For example, if the criterion is <b>Subject matches Allow MS-RPC</b>, the search will return all change requests whose subject contains "Allow MS-RPC".</p>
<b>doesn't match</b>	<p>Search for change requests in which the property in the left column does not contain the value in the right column.</p> <p>For example, if the criterion is <b>Subject matches Allow MS-RPC</b>, the search will return all change requests whose subjects do not contain "Allow MS-RPC".</p>
<b>is</b>	<p>Search for change requests in which the property in the left column matches exactly the value in the right column.</p> <p>For example, if the criterion is <b>Status is resolved</b>, the search will return all change requests with the status "resolved".</p>
<b>isn't</b>	<p>Search for change requests in which the property in the left column does not match exactly the value in the right column.</p> <p>For example, if the criterion is <b>Status isn't resolved</b>, the search will return all change requests with a status other than "resolved".</p>
<b>before</b>	<p>Search for change requests in which the property in the left column occurs before the date in the right column.</p> <p>For example, if the criterion is <b>Created Before 2008-12-05</b>, the search will return all change requests that were created before December 5, 2008.</p>
<b>on</b>	<p>Search for change requests in which the property in the left column occurs on the date in the right column.</p> <p>For example, if the criterion is <b>Created On 2008-12-05</b>, the search will return all change requests that were created on December 5, 2008.</p>

Operator	Description
<b>after</b>	<p>Search for change requests in which the property in the left column occurs after the date in the right column.</p> <p>For example, if the criterion is <b>Created After 2008-12-05</b>, the search will return all change requests that were created after December 5, 2008.</p>

### Advanced search column format fields

Use the following fields to determine how advanced search results are displayed:

<b>Link</b>	<p>Specify whether items in the column should be linked, by selecting one of the following:</p> <ul style="list-style-type: none"> <li>• -. Items in the column are not linked.</li> <li>• <b>Take</b>: Clicking on an item in the column assigns you the relevant change request.</li> <li>• <b>Display</b>: Clicking on an item in the column displays the relevant change request.</li> </ul>
<b>Title</b>	Type the name of the column.
<b>Size</b>	<p>Specify the text size of items in the column, by selecting one of the following:</p> <ul style="list-style-type: none"> <li>• -. Items in the column appear in medium-sized text.</li> <li>• <b>Small</b>: Items in the column appear in small-sized text.</li> <li>• <b>Large</b>: Items in the column appear in large-sized text.</li> </ul>
<b>Style</b>	<p>Specify the font style of items in the column, by selecting one of the following:</p> <ul style="list-style-type: none"> <li>• -. Items in the column appear in normal font.</li> <li>• <b>Bold</b>: Items in the column appear in bold font.</li> <li>• <b>Italic</b>: Items in the column appear in italicized font.</li> </ul>

### Save an advanced search

Save an advanced search to load and run the same search again, or regularly display the search results on your FireFlow home page.

For more details, see [Load a saved search](#).

Do the following:

1. In the **Query Builder** page, define a search. For details, see [Define an advanced search](#).
2. Scroll to the **Saved Searches** area.

3. In the **Privacy** drop-down list, specify who should be allowed to load this search:

<b>My saved searches</b>	Make this search available to yourself only.
<b>Admin's saved searches</b>	Make this search available to all administrators
<b>Controller's saved searches</b>	Make this search available to all controllers
<b>Network's saved searches</b>	Make this search available to all network operations users
<b>Security saved searches</b>	Make this search available to all information security users
<b>FireFlow's saved searches</b>	Make this search available to all FireFlow users.

4. In the **Description** field, type a name for the search.
5. Click **Save**.

The search is saved and will be available to the specified user role for loading.

## Load a saved search

This procedure describes how to load a saved advanced search.

For more details, see [Define an advanced search](#) and [Save an advanced search](#).

Do the following:

1. In the **Query Builder** page, reveal the **Saved Searches** area.

The **Saved Searches** area appears.

2. In the **Load saved search** drop-down list, select the search you want to load.
3. Click **Load**.

The search is loaded.

## Copy a saved search

If you want to create and save a new advanced search that is similar to an existing saved search, you can copy the saved search.

Do the following:

1. Load the search you want to copy. For details, see [Load a saved search](#).
2. Click **Save as New**.

The **Description** field displays the name of the original search, followed by the word "copy".

For example, "Resolved Change requests copy"

3. In the **Description** field, modify the search name as desired.
4. Modify the search criteria as desired. For details, see [Define an advanced search](#).
5. Click **Update**.

The search is saved with the same privacy settings as the original search, and will be available to that user role for loading.

## Delete a saved search

Delete any advanced search that you've saved in FireFlow.

Do the following:

1. Load the search you want to delete. For details, see [Load a saved search](#).
2. Click **Delete**.

The search is deleted.

## Advanced search example

The following example describes a sample use case for an advanced search in FireFlow.

**Debbie**, a company employee, wants to know the status of a specific change request. She calls **Ned**, a FireFlow administrator for help.

- Debbie cannot remember the change request ID number, aside that it was above **15**.
- Ned remembers handling the change request himself, and is certain that he did not reject it, but also does not have the specific ID.

Debbie has since hung up, but now Ned is concerned that he missed the expiration date and wants to be sure to handle it.

Ned does the following:

1. In FireFlow, he clicks **Advanced Search** in the main menu on the left.
2. On the **Query Builder** page, in the **Add Criteria** area, Ned defines the search query as follows:

- Ned selects the **AND** aggregator
- In the **ID** row, Ned selects the **greater than** operator, and enters a value of **15**.

id      greater than      15

- In the **Status** row, Ned selects the **isn't** operator and then selects the **rejected**

value from the dropdown on the right.

Status    isn't    rejected

- In the **Owner** row, Ned selects the **is** operator and enters **Ned** as the value.

Owner    is    "Ned NetOps" <ned>

- In the **Requestor EmailAddress** row, Ned switches the field to **Requestor RealName**, selects the **matches** operator, and then enters **Debbie** as the value.

Requestor Email    matches    Debbie


3. Ned clicks **Add these terms** to add the specified criteria to the **Current search** area.

Current Search

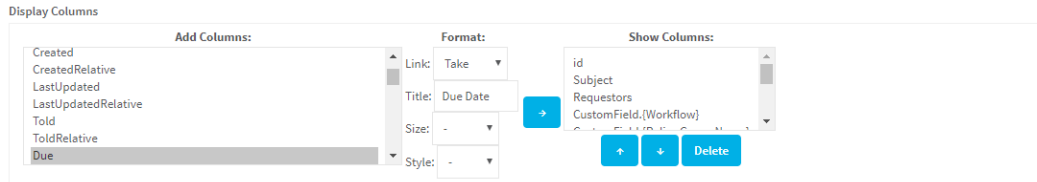
```
Queue = 'Firewalls'  
AND Status != 'rejected'  
AND Owner = 'ned'  
AND id > 15  
AND Requestor.EmailAddress LIKE 'Debbie'
```

↑ ↓ ← → And/Or Delete Advanced

4. In the **Display columns** area, Ned does the following:

- a. Selects **Due** in the **Add Columns** box.
- b. Selects **Take** in the **Link** drop-down list.
- c. Enters **Due Date** in the **Title** field.
- d. Selects **Large** in the **Size** drop-down list.
- e. Selects **Bold** in the **Style** drop-down list.
- f. Clicks  to add the columns to the **Show Columns** box on the right.





- f. Ned clicks **Search** to start searching for Debbie's change request.

## Verify change request results

**Relevant for: Network operations users and requestors**

This topic describes how to verify change validation results.

**Tip:** After making a change, you may want to wait a few minutes before validating the change. FireFlow can only detect changes after an AFA analysis has been run on the device.

In systems with scheduled monitoring configured, you must wait for the scheduled monitoring process to run.

## Verify change validation results (requestors)

**Relevant for: Requestors**

Once the device changes planned for your change request have been implemented, you will receive an email message from FireFlow, asking you to verify that the changes were implemented successfully.

You must check that the desired results were achieved, and respond in one of the following ways:

- Respond directly to the email message. For details, see [Respond to change requests](#).
- Respond via the Web interface. For details, see [Report change verifications](#).

If your response indicates that the desired results were not achieved, your change request will be re-implemented and you will be asked to check the results again.

If your response indicates that you are satisfied with the results, the change request will be resolved.

## Verify change validation results (network operations users)

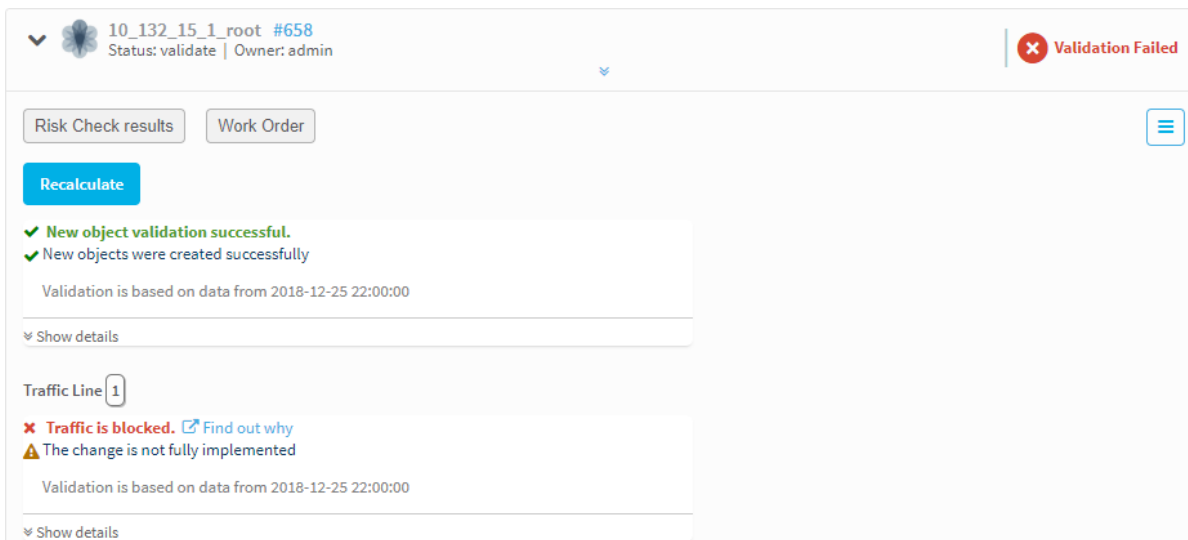
This procedure describes how network operations users can verify change validation results.

Do the following:

1. View the change request. For details, see [View change requests](#).
2. If the validation results are not available or old, refresh the validation calculation by clicking **Recalculate**.

The change validation results appear, indicating whether the implemented changes achieved the result specified in the change request.

For example:



The screenshot shows a change request interface for '10\_132\_15\_1\_root #658'. The status is 'validate' and the owner is 'admin'. A red 'Validation Failed' indicator is present in the top right. Below the header, there are buttons for 'Risk Check results', 'Work Order', and a blue 'Recalculate' button. The main content area displays two validation sections. The first section shows two green checkmarks: 'New object validation successful' and 'New objects were created successfully', with a timestamp 'Validation is based on data from 2018-12-25 22:00:00' and a 'Show details' link. The second section, titled 'Traffic Line 1', shows a red 'X' icon for 'Traffic is blocked' with a 'Find out why' link, and a yellow warning triangle for 'The change is not fully implemented', also with a timestamp and 'Show details' link.

Details are shown as follows:

<p><b>Object change, rule removal, and web filtering change requests</b></p>	<p>The change validation verifies the changes specified in the work order were implemented by performing a traffic simulation query.</p> <ul style="list-style-type: none"> <li>• Validation succeeds if the query indicates the planned changes specified in the work order have been made for every traffic line in the change request.</li> <li>• Validation fails if the planned changes have not been made for at least one traffic line.</li> </ul>
<p><b>Rule modification change requests</b></p>	<p>The change validation displays whether the specified changes in the work order match the device policy.</p> <p>For more details, see <a href="#">Advanced change validation results</a>.</p>
<p><b>Traffic change and recertification requests</b></p>	<p>The change validation verifies the changes specified in the work order were implemented with a traffic simulation query and a work order/device policy comparison.</p> <p>If the rule contains more traffic than recommended, FireFlow indicates this for you so that you can take any action, as required.</p> <p>For example:</p> <div data-bbox="594 1100 1268 1318" style="border: 1px solid #ccc; padding: 10px; margin: 10px 0;"> <p>Traffic Line <span style="border: 1px solid #ccc; border-radius: 50%; padding: 2px;">1</span></p> <p>✓ Traffic is allowed. <a href="#">Find out why</a></p> <p>✗ The rule contains more traffic than recommended</p> <p>Validation is based on data from 2019-08-09 01:52:09</p> </div> <p>For more details, see <a href="#">Advanced change validation results</a>.</p>

**Note:** If you implemented the changes even slightly differently than the work order, Validation will fail.

For example, if the work order specified one rule with multiple sources, and you added multiple rules (with one source each), Validation will fail.

This is particularly relevant for Amazon Web Services because rules can only include one object per field.

3. To view extended information about the change validation, click **Show details**.
4. If you do not see that the result you wanted was implemented, view device reports describing the problem by clicking the **Find out why** link.

A report opens in a new window, and you can drill down to view the relevant device rules.

**Note:** This option is not available for rule removal or rule modification requests.

5. Click **Next**.
6. If the desired result was not achieved, do the following:
  - a. Re-implement the change(s). For details, see [Resolve or return change requests](#).
  - b. Repeat change validation.

### **Palo Alto Networks devices**

For Palo Alto Networks Panorama devices, FireFlow will always recommend changing the lowest device group. If a higher level device group blocks the traffic the change request is attempting to allow, the traffic will still not be allowed after the work order is implemented, and validation will fail. To allow the traffic you must manually change the higher level device group.

### **Validation timeouts**

If validation times out before the device has been analyzed, [Change validation could not be run, please recalculate](#) appears.

## Advanced change validation results

Traffic change, recertification, and rule modification requests support advanced change validation results.

- **Traffic change** and **recertification** requests run a traffic simulation query and work order/ device policy comparison during validation.
- **Rule modification** requests run a work order/ device policy comparison only.

Each change request receives an overall validation result, and individual validation results for each traffic line.

- **If all traffic line validations are successful**, then the overall validation is successful.
- **If at least one traffic line validation partially succeeds or fails**, the overall validation fails.

### Perfect matches / more permissive rules

When the work order/ policy comparison determines a rule is a perfect match or more permissive, the change validation in addition verifies whether all object names used in the work order recommendation's fields are the objects used in the matched rule's fields.

By default, a discrepancy in object names will not cause validation to fail.

### Advanced change validation failures

In certain circumstances, change validation will fail even when the work order was implemented as specified.

The following are possible reasons for change validation failure:

- The traffic is partially blocked by a rule that exists above the allowing rule. The partially blocking rule is not displayed in the validation details.

- Part of the traffic was already allowed by another rule that is located lower in the policy.
- The rule was added in incorrect zones/ interfaces.
- Both a perfectly matched object and a wider rule exist, but only one of them is being matched.

### Advanced change validation results per traffic line

Advanced change validation results are as follows, depending on the request type:

✓ **Validation successful.**

<b>Traffic change/recertification requests</b>	<ul style="list-style-type: none"> <li>• <b>"Allow" traffic.</b> Validation succeeds if the traffic simulation query indicates the planned traffic for the line is allowed, and the change on the device perfectly matches the work order recommendation.</li> <li>• <b>"Drop" traffic.</b> Validation succeeds if the traffic simulation query indicates the planned traffic for the line is blocked, and no rule exists on the device with the relevant IUD.</li> </ul>
<b>Rule modification requests</b>	Validation succeeds if the change on the device perfectly matches the work order recommendation.

✗ **Only part of the traffic is allowed.**

⚠ **The change is not fully implemented**

<b>Traffic change/recertification requests</b>	For "Allow" traffic, validation partially succeeds if the traffic simulation query indicates the planned traffic for the line is allowed, and the change on the device does not perfectly match the work order recommendation (but does not include traffic that is more permissive than the work order recommendation).
<b>Rule modification requests</b>	Validation partially succeeds if the change on the device does not perfectly match the work order recommendation, and does not include traffic that is wider than the work order recommendation.

✘ **Validation failed.**

✘ **The change is not fully implemented**

<b>Traffic change/recertification requests</b>	<ul style="list-style-type: none"> <li>• <b>"Allow" traffic.</b> Validation fails if the traffic simulation indicates the planned traffic for the line is partially or fully blocked, or the change on the device is more permissive than the work order recommendation.</li> <li>• <b>"Drop" traffic.</b> Validation fails if the traffic simulation query indicates the planned traffic for the line is partially or fully allowed, or a rule exists on the device with the relevant IUD.</li> </ul>
<b>Rule modification requests</b>	Validation fails if the change on the device is more permissive than the work order recommendation.

## Respond to change requests

This topic describes how to respond to emails you receive from FireFlow, as well as specific guidelines for responding to rule removal and drop traffic requests.

### Respond to FireFlow emails

Over the course of a change request's lifecycle, you will receive email messages from the FireFlow system.

The **Subject** line of these email messages will include the change request ID in the format: **[FireFlow #<number>]**

For example: **[FireFlow #49]**

Reply to these emails, or write a new email to the FireFlow system directly.

In order for FireFlow to associate your email with the change request, you must include the same ID in the email subject.


For example, if your change request ID is **[FireFlow #49]**, your Subject line might be:

**RE:[FireFlow #49] Access to LAN** or **[FireFlow #49] Everything works fine now.**

## Reply to a change request

Reply to a change request from within FireFlow at any stage in the lifecycle. Your reply will be added to the change request's history and sent as an email message to both the change request's owner and the requestor.

Do the following:

1. View the change request. For details, see [View change requests](#).
2. At the top of the page, click , and then click **Reply**.

**Note:** The list of option available in the drop-down list may be changed by an administrator, by editing a workflow's available actions.

The reply page is displayed.

3. Complete the fields as needed, and then click **Next**.

Your reply is sent as an email message to the requestor and the change request's current owner.

### Reply page fields

The following fields are available when replying to a change request from within FireFlow:



<b>To</b>	<p>The change requestor's email address is displayed.</p> <p>This field is read-only; however, you can send the message to additional people by filling in the <b>Cc</b> and <b>Bcc</b> fields.</p>
<b>Cc</b>	<p>Specify the email addresses of people who should receive a carbon copy of this message, by doing one or more of the following:</p> <ul style="list-style-type: none"> <li>• In the text box, type the desired email addresses. Email addresses must be separated by commas. For example, "susanb@mycompany.com, johns@mycompany.com" In all future replies to this change request's history items, a check box will appear for each of the specified email addresses, in both the <b>Cc</b> and <b>Bcc</b> areas.</li> <li>• If check boxes appear under the text box, select the desired email addresses.</li> </ul>
<b>Bcc</b>	<p>Specify the email addresses of people who should receive a blind carbon copy of this message, by doing one or more of the following:</p> <ul style="list-style-type: none"> <li>• In the text box, type the desired email addresses. Email addresses must be separated by commas. For example, "susanb@mycompany.com, johns@mycompany.com" In all future replies to this change request's history items, a check box will appear for each of the specified email addresses, in both the <b>Cc</b> and <b>Bcc</b> areas.</li> <li>• If check boxes appear under the text box, select the desired email addresses.</li> </ul>
<b>Subject</b>	<p>Type the subject of the message.</p> <p>By default, this field displays the change request name.</p>
<b>Message</b>	<p>Type your message.</p>
<b>Attach</b>	<p>To attach files to your message, do one of the following:</p> <ul style="list-style-type: none"> <li>• Type the path to the file in the field provided.</li> <li>• Click <b>Browse</b>, browse to the desired file, and click <b>Open</b>.</li> </ul> <p>To add more attachments, click <b>Add More Files</b>.</p> <p>To remove an attachment, select the check box next to the attachment. The selected attachment will be removed upon sending the message.</p>

## Respond to rule removal and drop traffic requests

### Relevant for: Network operations users

When handling rule removal or drop traffic requests, requestors of related change requests will be notified and given the opportunity to confirm or decline the change.

These notifications have due dates. If you do not respond by the due date, the change is considered to be confirmed.

**Note:** To determine a change request's stage, view the change request as described in Viewing Change Requests. The stage is indicated by the Change Request Lifecycle Status Bar.

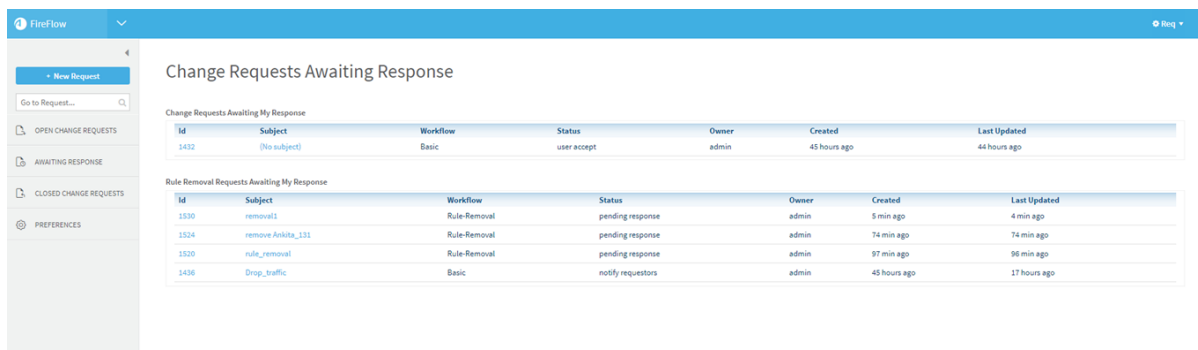
Do one of the following:

### Respond to rule removal requests

Do the following:

1. In the main menu, click **Awaiting Response**.

The **Change Requests Awaiting Response** page is displayed.



The screenshot shows the FireFlow interface with a sidebar on the left containing navigation options: 'New Request', 'Go to Request...', 'OPEN CHANGE REQUESTS', 'AWAITING RESPONSE', 'CLOSED CHANGE REQUESTS', and 'PREFERENCES'. The main content area is titled 'Change Requests Awaiting Response' and contains two tables.

Change Requests Awaiting My Response						
Id	Subject	Workflow	Status	Owner	Created	Last Updated
1432	(No subject)	Basic	user accept	admin	45 hours ago	44 hours ago

Rule Removal Requests Awaiting My Response						
Id	Subject	Workflow	Status	Owner	Created	Last Updated
1530	removal1	Rule-Removal	pending response	admin	5 min ago	4 min ago
1524	remove Anvika_131	Rule-Removal	pending response	admin	74 min ago	74 min ago
1520	rule_removal	Rule-Removal	pending response	admin	97 min ago	96 min ago
1436	Drop_traffic	Basic	notify requestors	admin	45 hours ago	17 hours ago

2. In the **Rule Removal Requests Awaiting My Response** list, click the change request.

The **Rule Removal Request** page is displayed.

#185 Rule Removal

Rule Removal Request

The following rule is planned to be removed from the firewalls:

Rule 3.13:

NAME	SOURCE	DESTINATION	SERVICE	ACTION	COMMENT
	ip-10.120.12.13	ip-10.10.10.11	TCP tcp-11	accept	FireFlow #183

Our records show that you requested the following rule changes that are supported by this rule:

Ticket 183 | 2019-01-06 08:22:25 |  
 Ticket 184 | 2019-01-06 08:25:27 |

Please click "Confirm" if you approve this rule being removed or click "Decline" otherwise  
 If we do not hear otherwise from you, the rule will be removed.

Buttons: Decline, Confirm

- At the top of the page, click **Confirm** to approve the rule deletion or **Decline** to decline the rule deletion.

The **Confirm Rule Removal** or **Decline Rule Removal** page is displayed.

Confirm Rule Removal for Change Request #1524: remove Ankita\_131

Buttons: Back, Next

Subject: remove Ankita\_131

Please enter a comment explaining your choice

Message:

Attach: Choose File No file chosen

- Modify the **Subject** field to describe the subject of your comment.
- To attach a file to your comment, do one of the following:
  - In the **Attach** field, type the path to the file.
  - Click **Browse**, browse to the desired file, and click **Open**.
- In the **Message** text box, type your comment.
- Click **Next**.

The Requestors Web Interface displays the change request, and your comment appears in the **History** area.

Your comment is sent as an email message to the change request's current owner.

## Respond to drop traffic requests

Do the following:

1. In the main menu, click **Awaiting Response**.

The **Change Requests Awaiting Response** page is displayed.

Change Requests Awaiting My Response						
Id	Subject	Workflow	Status	Owner	Created	Last Updated
1432	[No subject]	Basic	user accept	admin	45 hours ago	44 hours ago

Rule Removal Requests Awaiting My Response						
Id	Subject	Workflow	Status	Owner	Created	Last Updated
1530	removal1	Rule-Removal	pending response	admin	5 min ago	4 min ago
1524	remove Anikita_131	Rule-Removal	pending response	admin	74 min ago	74 min ago
1520	rule_removal	Rule-Removal	pending response	admin	97 min ago	96 min ago
1436	Drop_traffic	Basic	notify requestors	admin	45 hours ago	17 hours ago

2. In the **Change Requests Awaiting My Response** list, click the change request.

The **Traffic Removal Request** page is displayed.

#1436 Drop\_traffic

Traffic Removal Request Decline Confirm

We are about to block some traffic on our security devices.

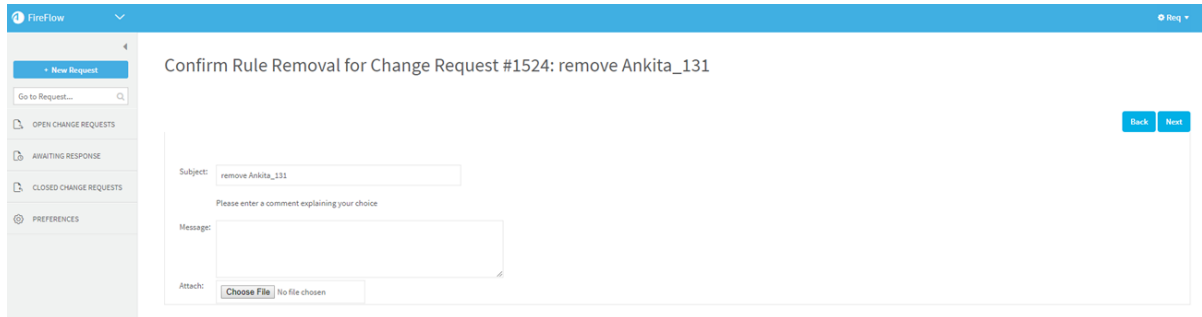
Our records show that you made the following requests that are supported by the traffic being removed:

[Ticket 1432 \[2019-01-07 09:53:19\]](#)  
[Ticket 1433 \[2019-01-07 09:54:08\]](#)

Please click "Confirm" if you approve this traffic being removed or click "Decline" otherwise.  
 If we do not hear otherwise from you, the traffic will be removed.

3. At the top of the page, click **Confirm** to approve the rule deletion or **Decline** to decline the rule deletion.

The **Confirm Rule Removal** or **Decline Rule Removal** page is displayed.



4. Modify the **Subject** field to describe the subject of your comment.
5. To attach a file to your comment, do one of the following:
  - In the **Attach** field, type the path to the file.
  - Click **Browse**, browse to the desired file, and click **Open**.
6. In the **Message** text box, type your comment.
7. Click **Next**.

The Requestors Web Interface displays the change request, and your comment appears in the **History** area.

Your comment is sent as an email message to the change request's current owner.

# Send us feedback

Let us know how we can improve your experience with the Requestor Guide.

Email us at: [techdocs@algosec.com](mailto:techdocs@algosec.com)

**Note:** For more details not included in this guide, see the online [ASMS Tech Docs](#).