

SONICWALL SonicOS 7.1 Content Filtering User Guide

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SonicOS 7.1 Content Filtering Administration Guide

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About SonicOS

This guide is a part of the SonicOS collection of administrative guides that describes how to administer and monitor the SonicWall family of firewalls. SonicOS provides network administrators the management interface, API (Application Program Interface), and the Command Line Interface (CLI) for firewall configuration by setting objects to secure and protect the network services, to manage traffic, and to provide the desired level of network service. This guide focuses onSonicWall's Content Filtering Service's (CFS) ability to compare requested web sites against a massive database in the cloud that contains millions of rated URLs, IP addresses, and web sites.

This service provides you with the tools to create and apply policies that allow or deny access to sites based on individual or group identity, or by time of day, for over 50 predefined categories.

Working with SonicOS

SonicOS provides a web management interface for configuring, managing, and monitoring the features, policies, security services, connected devices, and threats to your network. SonicOS runs on top of SonicCore, SonicWall's secure underlying operating system.

The SonicOS management interface facilitates:

- Setting up and configuring your firewall
- · Configuring external devices like access points or switches
- Configuring networks and external system options that connect to your firewall
- Defining objects and policies for protection
- · Monitoring the health and status of the security appliance, network, users, and connections
- · Monitoring traffic, users, and threats
- · Investigating events

SonicWall offers two different modes of operation in SonicOS; the modes differ mainly in the areas of policy, object configuration and diagnostics.

- Policy Mode provides a unified policy configuration work flow. It combines Layer 3 to Layer 7 policy
 enforcement for security policies and optimizes the work flow for other policy types. This unified policy work
 flow gathers many security settings into one place, which were previously configured on different pages of the
 management interface.
- Classic Mode is more consistent with earlier releases of SonicOS; you need to develop individual policies and actions for specific security services. The Classic Mode has a redesigned interface.

This table identifies which modes can be used on the different SonicWall firewalls:

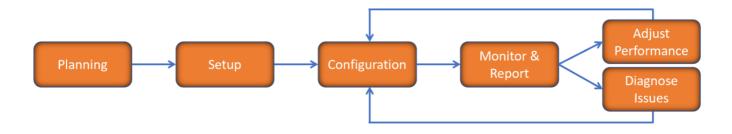
Firewall Type	Classic Mode	Policy Mo de	Comments
TZ Series	yes	no	The entry level TZ Series, also known as desktop firewal Is, deliver revamped features such as 5G readiness, bett er connectivity options, improved threat, SSL and decryption performance that address HTPPS bandwidth issues; built-in SDWAN, and lawful TLS 1.3 decryption s upport.
NSa Series	yes	no	NSa firewalls provide your mid sized network with enhan ced security. They are designed specifically for businesses with 250 and up. it can provid e cloud-based and on-box capabilities like TLS/SSL decryption and inspection, application intelligence and contro I, SD-WAN, real-time visualization, and WLAN management.
NSsp 10700, NSsp 11700, NSsp 13700	yes	no	The NSsp platforms high-end firewalls that deliver the ad vanced threat protection and fast speeds that large enterprises, data centers, and service providers need.
NSsp 15700	no	yes	The NSsp 15700 is designed for large distributed enterprises, data centers, government agencies and ser vices providers. It provides advanced threat protection li ke Real-Time Deep Memory Inspection, multi-instance fi rewall configuration, and unified policy creation and modification, with scalability and availability.
NSv Series	yes	yes	The NSv series firewalls offers all the security advantages of a physical firewall with the operational and economic benefits of virtualization. The NSv firewalls can operate in either Policy Mode or Classic Mode. You can switch between modes, but some configuration information from extra interfaces is removed.

In addition to the management interface, SonicOS also has a full-featured API and a command-line interface (CLI) to manage the firewalls. For more information, refer to:

- SonicOS 7.1 API Reference Guide
- SonicOS Command Line Interface Reference Guide

SonicOS Workflow

When working with SonicWall products, you can use the following workflow as a guide for setting up your security solution.

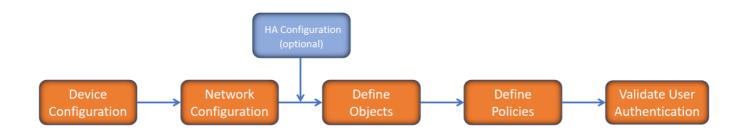


You begin your planning as you start making your purchasing decisions. Your sales partners can help you assess

your network and make recommendations based on the kinds of security services you need. You can learn more about SonicWall products by reviewing product information and solutions. After selecting the solution, you can schedule your implementation.

After planning and scheduling your solution, you begin setting up the firewalls. The Getting Started Guides for your products can help you begin setting up the pieces to your solution. The getting started guides are designed to help you install the firewall to a minimal level of operation. Before performing any detailed configuration tasks described in the SonicOS Administration Guides, you should have your firewall set up and basic operation validated.

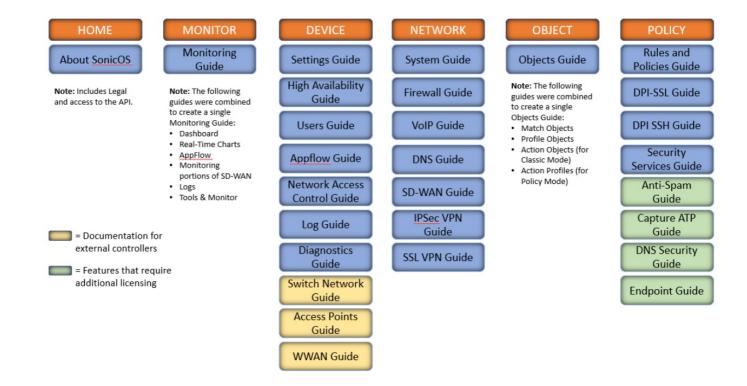
The configuration block of the workflow refers to the many tasks that combine to define how your firewall is integrated into your security solution and how it behaves when protecting your environment. Depending on the features of your security solution, this task can be quite complex. The System Administration Guides are broken into the key command sets and features. Some documents may be used for all solutions, but others may be used use only if you integrated that feature into your solution. For example, High Availability or Wireless Access Points are not necessarily used by all customers. More information about a feature's workflow is presented in the feature administration guide. Refer to the specific Administration Guide for a SonicOS feature for more information. Configuration tends to be a one-time activity, although you might make minor adjustments after monitoring performance or after diagnosing an issue. The configuration activity can be broken down into the more detailed flow as the following figure shows. This also mirrors the key functions that are listed across the top of the management interface.



There is some flexibility in the order in which you do things, but this is the general work-flow you would follow when configuring your firewall. Start by defining the settings on the firewall. Next you set up the system and other devices that your firewall is connected to, and you can choose to implement High Availability when done. After your device, network, and system is configured, you should define the objects that you want to monitor. Then you use those objects to define the policies that protect your network. The final step to preparing your setup is to validate the user authentication.

How to Use the SonicOS Administration Guides

The SonicOS Administration Guide is a collection of guides that detail the features represented by each of the main menu items in the management interface. Within each guide, you can find topics covering commands in that menu group, along with procedures and in-depth information. The exceptions are the SonicOS 7.1 Monitor Guide and the SonicOS 7.1 Objects Guide which combine the topics for each of those functions into a single book. To help you understand how the books align with the features and commands, the following figure shows the books organized like the SonicWall management interface.



The SonicOS Administration Guides, along with related documentation, such as the getting started guides, are available on the https://www.sonicwall.com/support/technical-documentation/.

Guide Conventions

These text conventions are used in this guide:

O NOTE: A NOTE icon indicates supporting information.

IMPORTANT: An IMPORTANT icon indicates supporting information.

TIP: A TIP icon indicates helpful information.

CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.

MARNING: A WARNING icon indicates a potential for property damage, personal injury, or death.

Convention	Description	
Bold text	Used in procedures to identify elements in the management interface like dia log boxes, windows, screen names, messages, and buttons. Also used for fil e names and text or values you are being instructed to select or type into the interface.	
Function Menu group > Menu it em	Indicates a multiple step menu choice on the user interface. For example, N ETWORK System > Interfaces means to select the NETWORK functions at the top of the window, then click on System in the left navigation menu to open the menu group (if needed) and select Interfaces to display the page.	
Code	Indicates sample computer programming code. If bold, it represents text to b e typed in the command line interface.	
<variable></variable>	Represents a variable name. The variable name and angle brackets need to be replaced with an actual value. For example in the segment serialnumber= <your number="" serial="">, replace the variable and brackets with the serial number from your device, such as serialnumber=2CB8ED000004.</your>	
Italics	Indicates the name of a technical manual. Also indicates emphasis on certain words in a sentence, such as the first instance of a significant term or concept.	

Content Filtering Service 5.0

SonicWall offers comprehensive web content security that blocks selected web content and enforces protection and productivity policies. Content Filtering Service (CFS) protects the devices behind the firewall and provides administrators with the means to define and manage policies for groups or individual users.

CFS Overview

URL filtering is becoming a commodity with basic requirements for blocking, based on business objectives and threat reputation. The SonicWall Content Filtering Service targets these issues and has been updated to provide more web categories to screen and a new filter so URLs can be filtered by reputation. The Reputation feature calculates a score that forecasts the security risk of a URL so you can determine how best to categorize and respond to it.

You configure Content Filtering Service settings in SonicOS. The SonicWall Content Filtering Service is available with both the Essential Protection Service Suite and the Advanced Protections Service Suite. With a valid subscription, you can create custom CFS policies and apply them to network zones or to groups of users within your organization. You can enforce policy rules for educational institutions, businesses, libraries, and government agencies. With content filter objects, you can control the websites users can access using their ITissued computers while behind the organization's firewall.

The general process for setting up and enabling Content Filtering Service is:

1. Enable Content Filtering Service.

Some basic Content Filtering capability is provided, but it can be customized and expanded beyond the default tools provided. Navigate to POLICY | Security Services > Content Filter to enable the service.

For more information, refer to Configuring Content Filtering Service.

2. Define the profile objects for Content Filtering.

A Profile Object defines what kind of operation can be triggered for each HTTP/HTTPS connection.

Navigate to OBJECT | Profile Objects > Content Filter to edit the CFS Default Profile or add customized Content Filtering profile objects. For more information, refer to Defining Profile Objects.

3. Define the action objects for Content Filtering.

An Action Object defines what happens after a packet is filtered by CFS. Navigate to OBJECT | Action Objects > Content Filter Actions to edit or define action objects. For more information, refer to Configuring CFS Action Objects.

4. Define the reputation object for Content Filtering.

A Reputation is an Action Object that defines the action to take based on the reputation of a URL. A CFS Default Reputation Object is provided, but you can create customized Reputation Objects. For more information, refer to Configuring CFS Action Objects.

5. Define the policies for how to filter and respond to web content that users access.

A default policy provides standard settings for content filters, but with additional licensing, you can create customized policies to manage different user scenarios. Navigate to POLICY | Rules and Policies > Content Filter Rules to define policies. For more information, refer to Configuring CFS Policies and Rules.

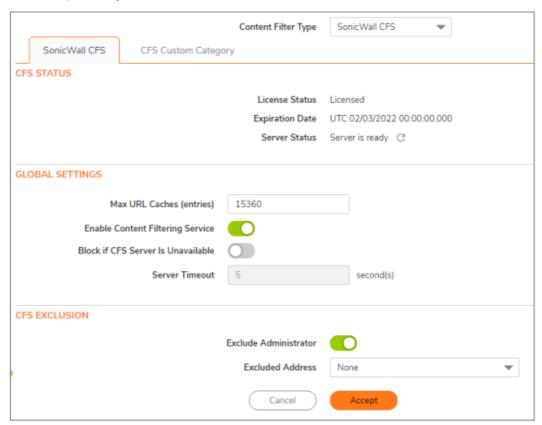
Configuring Content Filtering Service

The Content Filtering Service is a part of the Security Services options that SonicWall offers to help you secure your environment. The Content Filtering Service provides a default Profile Object and reputation-based Action Object for minimal coverage. You can create customized objects and policies to increase the coverage.

Configuring the SonicWall CFS Tab

To enable and configure Content Filtering:

1. Navigate to POLICY | Security Services > Content Filter.



2. Define the settings on the two tabs of this window and click Accept.

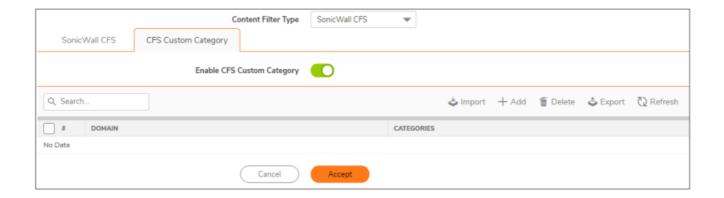
The default tab, SonicWallCFS is separated into three sections, providing status and options to set.

CFS Status	Shows: • License Status—states whether Content Filtering is licensed or not. • Expiration Date—displays the expiration date for your CFS subscription. • Server Status—displays the server status. Click Refresh to refresh the se rver status.
lobal Settings	Lists several settings you can define for CFS behavior: • Enter the maximum number of URL cache entries allowed. The minimum is 25,600 and the maximum is 51,200, although the range might vary depending on the size of your firewall. • Click the switch to green to Enable Content Filtering Service. • Click the switch to green to Block if CFS Server is Unavailable. • Set the Server Timeout, in seconds, if Block if CFS Server is Unavailable is enabled. The minimum is two seconds, the maximum is 10 seconds, and the default is five seconds. The Server Timeout option is not editable if it is not enabled.
CFS Exclusion	Lists options that allow packets from the administrator and a number of ad dress objects to pass through unfiltered. • Click the switch to green if you want to Exclude Administrator packets. • Click the drop-down menu if you want to Exclude Address. Select a specific type of address or address object from the drop-down menu. You can also create an address object or address group by selecting the appropriate option from the drop-down menu.

3. Click Accept to save the configuration options you set.

Configuring the CFS Custom Category Tab

The CFS Custom Category tab allows the configuration of new custom CFS category entries. You can create custom policies and categories and insert the domain name entries into the existing CFS rating category structure. Categories are added and deleted from this page.

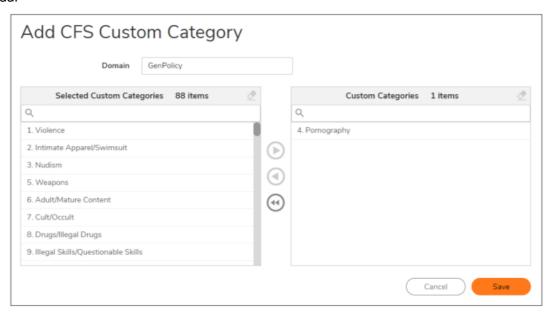


- Click the switch to green to Enable CFS Custom Category.
- Click +Add to create a new custom category.
- Select the category and click Delete to remove a category.

- Click Export to export the current list of categories. You can edit this list offline if you need to make multiple
 updates and import it back to the firewall.
- · Click Import to import a predefined set of categories.

To create a new category:

- 1. Navigate to POLICY | Security Services > Content Filter and select the CFS Custom Category tab.
- 2. Click +Add.



- 3. Type a name in the Domain field.
- 4. Select a category from the list on the left and move it to the custom categories on the right. Up to five custom categories can be selected.
- 5. Click Save.

To delete a custom category:

- 1. Navigate to POLICY | Security Services > Content Filter and select the CFS Custom Category tab.
- 2. Select the custom category by checking the box by DOMAIN.
- 3. Click the Delete icon.
- 4. Confirm your choice to delete by clicking OK.

To export the CFS Category list:

- Click Export to export the category list to a text file. The exported file is placed in the downloads folder.
 The exported file can be used to update multiple entries. Edit the file and import the new file following the following procedure.
 - NOTE: When editing an exported list, be sure to follow the format of the list: <domain>: <category1>, <category2>, <category2>, <category4>, <category5>

To import multiple categories simultaneously:

IMPORTANT: All the custom categories already in the list are deleted when a list of categories are uploaded.

- 1. Click Import.
 - NOTE: Invalid domain names and category IDs in the importing file are skipped.
 - NOTE: The leading www. of any domain name is discarded during processing.
- 2. Type the file name in field provided, or Browse for the file and select it on your system.
- 3. Click Import.

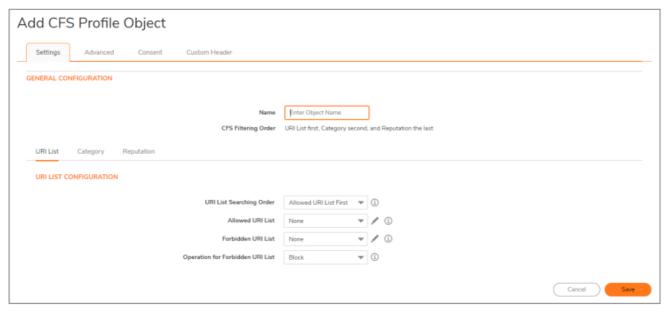
Defining Profile Objects

A Profile Object defines what kind of operation is triggered for each HTTP/HTTPS connection. You can define what is allowed, what is blocked, and what is forbidden. You can also define the operations for each category(Allowed, Blocked, Confirm, Passphrase, and BWM). The CFS Default Profile is provided with your license. You can edit it to customize the settings but you can't delete it. You can also add other CFS profiles and customize them to meet specific filtering requirements. To define a Profile Object, navigate to OBJECT | Profile Objects > Content Filter of the firewall interface.

Creating or Editing a Profile Object

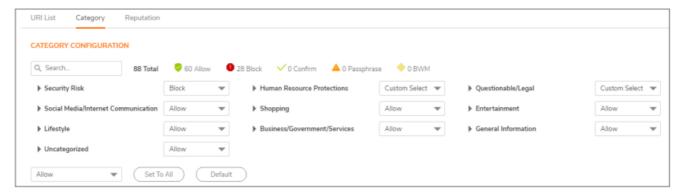
To add a Project Object for Content Filtering:

- 1. Navigate to OBJECT | Profile Objects > Content Filter.
- 2. Click +Add.



- 3. Enter the Profile Object Name in the Name field.
- 4. In the URI List Configuration section, define the parameters for URI List:
 - a. Select the URI List Searching Order from the drop-down menu provided. You can select the allowed list first or the forbidden list first.
 - b. Select the Allowed URI List from the drop-down menu. Accessing all the URIs in this list is allowed.
 - c. Click the Edit icon next to the Allowed URI List field to create a New URI List Object. For more information, refer to Creating a New URI List Object.
 - d. Select the Forbidden URI List from the drop-down menu. Accessing all the URIs in this object is forbidden.
 - e. Click the Edit icon next to theForbidden URI List field to create a New URI List Object. For more information, refer to Creating a New URI List Object .
 - f. Select the Operation for Forbidden URI List in the drop-down menu. The selected action—Block, Confirm, or Passphrase—applies for all URIs in the forbidden list.

5. Click the Category tab to define the Category Configuration section. You can customize the categories to fit your environment. The option are Allow, Block, Confirm, Passphrase, and BMW.



- a. Expand the category name to see the details under it.
- b. If you want the same definition for everything in the category, select the action from the drop-down menu for the category name.
- c. If you want to customize the category, select the action from the drop-down menu for each item.

Note how the category action is changed to Custom Select.

- d. If you want all categories defined the same, select the action from the drop-down menu at the bottom of the page and click Set To All.
- e. Click Default to reset all options to the default settings.
- 6. Select Reputation define the Reputation Configuration section. Filtering by reputation must be enabled and is used only on categories that are Allowed.



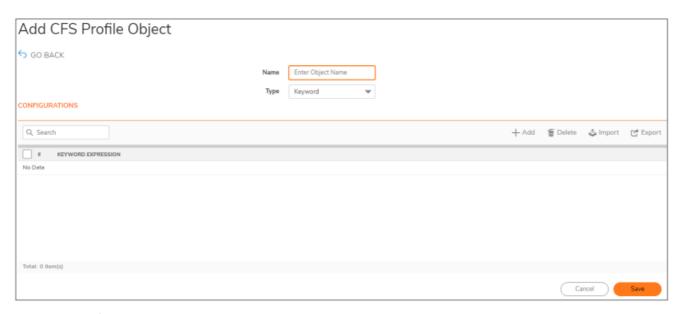
- a. Switch Enable Reputation to green.
- b. Select Reputation Action from the drop-down menu for each option.
- NOTE: You can select the Edit icon by the drop-down menu to create a new Reputation Action Object to choose from the list.
- 7. When all settings have been defined, click Save.

Creating a New URI List Object

URI List Objects can be created for both the Allowed URI List and the Forbidden URI List.

To create a URI List Object:

1. Click the Edit icon next to the Allowed or Forbidden URI List field.



- 2. Name the List Object.
- 3. Select the Type of object from the drop-down menu. The options are Domain, Keyword, or URI.
- 4. Click +Add to create a Domain, Keyword or URI. The following shows the Keyword option.

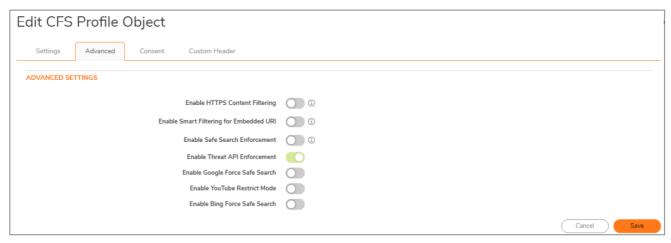


- 5. Enter the appropriate text in the field. Multiple entries can be separated with a semicolon.
- 6. Click OK.
- 7. Click Save.

Advanced Settings

You can define a series of advanced settings to further define your CFS Profile Object. These appear on a separate tab when you add or edit a CFS Profile Object. You can define the advanced settings when creating the object or you can set them later.

- 1. Navigate to OBJECT | Profile Objects > Content Filter.
- 2. Click +Add.
- 3. Click the Advanced tab.



4. Click the switch to green to Enable HTTPS Content Filtering. HTTPS content filtering is IP based, and does not

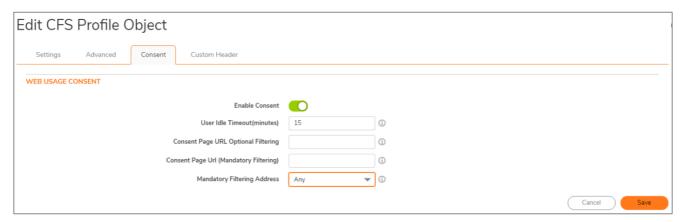
inspect the URL. While HTTP content filtering can perform redirects to enforce authentication or provide a block page, HTTPS filtered pages are silently blocked.

- 5. Click the switch to green to Enable Smart Filtering for Embedded URI. This feature currently only applies to Google Translate, and it requires that DPI-SSL be enabled along with Content Filtering. This option is disabled by default.
 - NOTE: The DPI-SSH Client SSL is set on the General tab at POLICY | DPI-SSL > Client SSL.
- 6. Click the switch to green to Enable Safe Search Enforcement. This feature currently only applies to Yahoo and Dogpile, and for HTTPS sites, it requires that DPI-SSL be enabled along with Content Filtering, as noted above. This option is disabled by default.
- 7. Click the switch to green to Enable Google Force Safe Search.
- 8. Click the switch to green to Enable YouTube Restrict Mode.
- 9. Click the switch to green to Enable Bing Force Safe Search.
- 10. Click Save when done.

Consent

You can require consent to access certain web pages as a part of your CFS Profile Object. These appear on a separate tab when you add or edit a CFS Profile Object. You can enable Consent when creating the object or you can set those parameters later.

- 1. Navigate to OBJECT | Profile Objects > Content Filter.
- 2. Click +Add.
- 3. Click the Consent tab.



- 4. Click the switch to green to Enable Consent.
- 5. Set the User Idle Timeout in minutes. This feature reminds users that their time has expired by displaying the page defined in the Consent page URL. Minimum idle time can be as low as one minute, but as high as 9999 minutes. The default is set to 15 minutes.
- 6. In the Consent Page URL Optional Filter field, list the URL that the user is redirected to when he or she opens a web site that requirements consent. This page must reside on a Web server and be accessible as a URI by users on the network.
 - IMPORTANT: The consent page must contain links to two SonicWall pages, which, when selected, tell the appliance that the user wishes to have filtered or unfiltered access. The link for unfiltered access is: 192.168.168.168/iAccept.html. The link for filtered access is 192.168.168.168/iAcceptFilter.html. Use the LAN IP of the appliance for the link root.
- 7. In the Consent Page URL (Mandatory Filtering) field, list the URL that the user is redirected to when he or she opens a web site with mandatory filtering. This page must reside on a Web server and be accessible as a URI

by users on the network.

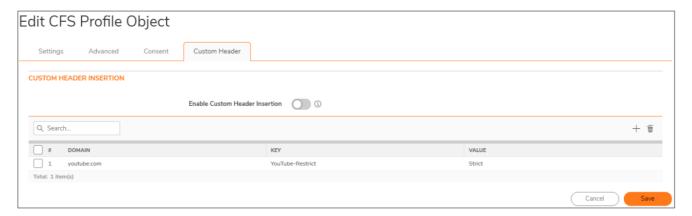
- **IMPORTANT:** The mandatory filtering page must contain the following SonicWall link, which, when selected, tells the appliance that the user accepts filtered access. The link for filtered access is: 192.168.168/iAcceptFilter.html. Use the LAN IP of the appliance for the link root.
- 8. Select the Mandatory Filtering Address from the drop-down menu. All configured IP addresses associated with a selection or object require mandatory filtering.
- 9. Click Save.

Custom Header

Content Filtering can be enabled so that a header configured by customers can be added to HTTP and HTTPS requests. For HTTPS requests, DPI-SSL functionality must also be enabled. By default the Custom Header is disabled.

To set up a Custom Header:

- 1. Navigate to OBJECT | Profile Objects > Content Filter.
- 2. Click +Add.
- 3. Click the Custom Header tab.



- 4. Click the switch to green to Enable Custom Header Insertion.
- 5. Click the Add icon (+) to add a new Custom Header Entry.



- Select Domain from the drop-down menu. The Key and Value fields are automatically filled in based on your selection.
- 7. Click Save to save the Custom Header Entry.

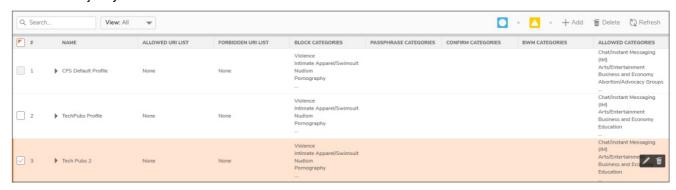
8. Click Save to save the Custom Header settings.

Editing Profile Objects

Editing an object profile is very similar to creating one.

To edit a CFS profile object:

- 1. Navigate to Object | Proficle Objects > Content Filter.
- 2. Select the object you want to edit.



- 3. Click the Edit icon, which appears to the far right of the screen.
- 4. Navigate the options (URI List, Category, Reputation) on the Settings window to make the changes needed.
- 5. Navigate through the other tabs—Advanced, Consent, Custom Header—to made the the changes needed there.
- 6. Click Save when done.

Deleting Profile Objects

Several different options are provided for deleting a Content Filtering Profile Object. However you do it, you are asked to confirm that you really want to delete the item.

- You can select an individual profile object by checking the box and clicking the Delete icon at the top or in the row you selected.
- You can simply highlight a row in the table and click the Delete icon at the end of the row you selected.
- You can select multiple profile objects by checking the boxes and clicking the Delete icon at the top.
- NOTE: The CFS Default Profile cannot be deleted.

Configuring CFS Action Objects

The CFS Action Object defines what happens after a packet is filtered by CFS and matches a CFS policy. SonicWall provides the CFS Default Action object. This object cannot be deleted but you can edit it and customize some of the settings. You can also add and delete customized action objects for CFS. To configure CFS Action Objects, navigate to OBJECT | Action Objects > Content Filter Actions.



Adding or Editing CFS Action Objects

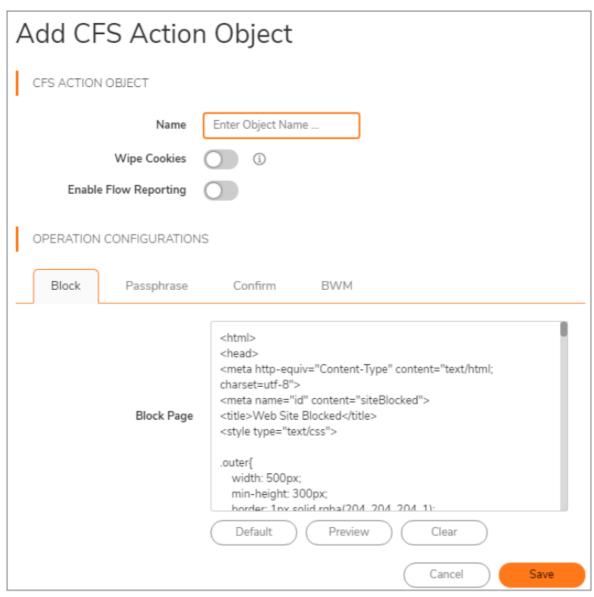
Adding and editing an action object is very similar. The following procedures describe the options you can set in either instance.

To add a Project Object for Content Filtering:

- 1. Navigate to OBJECT | Action Objects > Content Filter Actions.
- 2. Click +Add.

To edit a Project Object for Content Filtering:

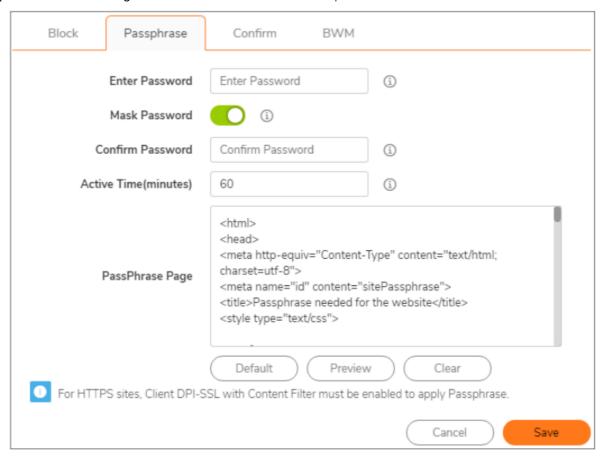
- 1. Navigate to OBJECT | Action Objects > Content Filter Actions.
- 2. Highlight the action object and click the Edit icon.



To set or change the parameters for a CFS Action Object:

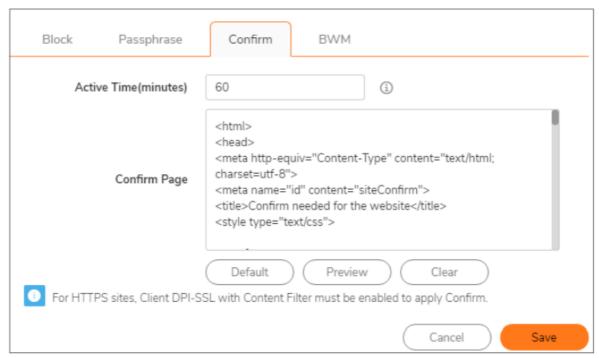
- 1. Open the CFS Action Object window as previously described.
- 2. Enter or edit the action object Name in the field provided.
 - NOTE: The name of the CFS Default Action cannot be changed.
- 3. Click the switch to green to Wipe Cookies. This feature takes affect for HTTPS sites, only when Content Filter is enabled for the DPI-SSLClient SSL.

- NOTE: The DPI-SSL Client SSL is set on the General tab at (missing or bad snippet).
- **IMPORTANT:** If the Wipe Cookies options is enabled, it could break the Safe Search Enforcement function for some search engines.
- 4. Click the switch to green to Enable Flow Reporting. This feature allows CFS flow data to be collected for analysis.
- 5. In the Block tab of the Operations Configurations section, define the HTML for the blocked page you want to display.
 - a. Input or edit the HTML in the field provided.
 - b. Click Default to reset the page to the default HTML code.
 - c. Click Preview see what is displayed when a URI is blocked.
 - d. Click Clear to clear the Block Page text block and start over.
 - e. Click Save to save the settings.
- 6. In the Passphrase tab of the Operations Configurations section, define the settings for requiring a passphrase when certain URIs are detected.
 - NOTE: For HTTPS sites, the Content Filtering option for the DPI-SSL Client SSL must be enabled to for Passphrase to work. Navigate to the General tab at POLICY | DPI-SSL > Client SSL to set this.

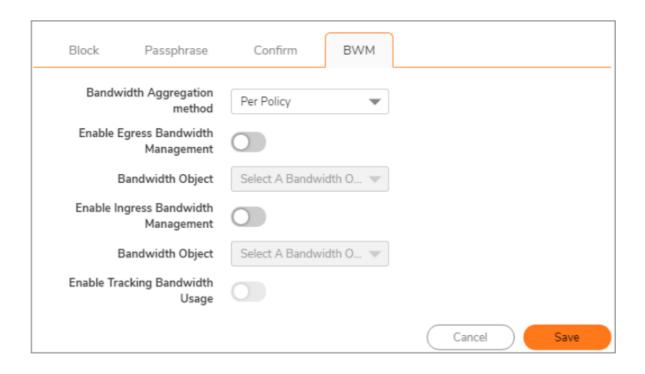


- a. Enter the password in the field provided. This is the password that the user has to provide to access to a URI that is tagged as requiring a passphrase for access. The minimum length for the password is 0 characters (or no password) with a maximum of 64 characters.
- b. Click the switch to green to Mask Password. When this feature is enabled, the password is hidden; otherwise, it converts to plain text.
- c. Type in the password again to confirm it and avoid an error on the page.

- NOTE: The Confirm Password field is invalid when the password displays as plain text.
- d. Set the Active Time (in minutes) that a password is active. The minimum amount is 1 minute and the maximum is 9999 minutes. The default duration is 60 minutes.
- e. Input or edit the HTML for the PassPhrase Page field.
- f. Click Default to reset the page to the default HTML code.
- g. Click Preview see what is displayed when a URI is blocked.
- h. Click Clear to clear the Block Page text block and start over.
- i. Click Save to save the settings.
- 7. In the Confirm tab of the Operations Configurations section, define the settings for requiring a confirmation when certain URIs are detected.
 - NOTE: For HTTPS sites, the Content Filtering option for the DPI-SSL Client SSL must be enabled to for Confirm to work. Navigate to the General tab at POLICY | DPI-SSL > Client SSL to set this.



- a. Set the Active Time (in minutes) during which the user must confirm their access to the URI.. The minimum amount is one minute and the maximum is 9999 minutes. The default duration is 60 minutes.
- b. Input or edit the HTML for the Confirm Page field.
- c. Click Default to reset the page to the default HTML code.
- d. Click Preview see what is displayed when a URI is blocked.
- e. Click Clear to clear the Block Page text block and start over.
- f. Click Save to save the settings.
- 8. In the BMW tab of the Operations Configurations section, define the settings for bandwidth management when certain URIs are detected.



- a. Select a Bandwidth Aggregation Method from the drop-down menu.
- b. Click the switch to green to Enable Egress Bandwidth Management.
- c. Select the Bandwidth Object from the drop-down menu, or opt to create a new action object for egress bandwidth management.
- d. Click the switch to green to Enable Ingress Bandwidth Management.
- e. Select the Bandwidth Object from the drop-down menu, or opt to create a new action object for ingress bandwidth management.
- f. Click the switch to green to Enable Tracking Bandwidth Management Usage.
- g. Click Save to save the BMW settings.

Deleting Action Objects

Several different options are provided for deleting a Content Filtering Action Object. Whichever way you do it, you are asked to confirm that you really want to delete the item.

- You can select an individual action object by checking the box and clicking the Delete icon at the top or in the row you selected.
- You can simply highlight a row in the table and click the Delete icon at the end of the row you selected.
- You can select multiple action objects by checking the boxes and clicking the Delete icon at the top.
- NOTE: The CFS Default Action cannot be deleted.

Configuring the Reputation Match Object

The Reputation match object is used to simplify the process for defining objects and policies. A reputation score is calculated and categorized based on value. The six categories are:

- High Risk
- Suspicious

- Moderate Risk
- · Low Risk
- Trustworthy
- · URL without Reputation

The Reputation Object defines the operation for something that is found to match one of these categories. Operations include Allow, Block, Confirm, Passphrase, and BWM. The default value for High Risk and Suspicious is to block access. The default for the other categories are to allow access.

SonicWall provided a CFS Default Reputation Object. This object cannot be deleted, but can be edited or cloned. Customized Reputation Objects can also be developed.

Adding or Editing a Reputation Object

To add a Reputation Object:

- 1. Navigate to OBJECT | Match Objects > Reputation.
- 2. Click +Add to add a new object, or click the Edit icon for the object you want to edit.



- 3. Enter or update the object Name.
- 4. Select the action you want to take—Allow, BMW, Block, Confirm, or Passphrase—from the drop-down menu for each category. The categories are defined in the following table. The lower the scores indicate higher the risk.

Category	Reputation Score
High Risk	01-20
Suspicious	21-40
Moderate Risk	41-60
Low Risk	61-80
Trustworthy	81-100
URL without Reputation	0

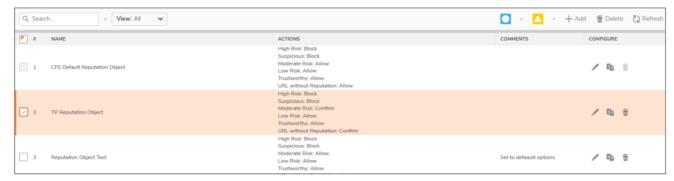
- 5. Add Comments in the field provided.
- 6. Click Save. The new object appears in the Reputation table.

Cloning a Reputation Object

The Cloning option allows you to copy an existing Reputation Object and customize it without having to start with a brand new, empty template. It is very similar to creating a new object, but you change only those fields that need to be different from the source.

To clone a Reputation Object:

- 1. Navigate to OBJECT | Match Objects > Reputation.
- 2. Select the object you want to clone.



- 3. Select the Clone icon.
- 4. Give the object a new Name.
- 5. Change the category definitions as needed.
- 6. Add Comments in the field provided.
- 7. Click Save.

Deleting a Reputation Object

Several different options are provided for deleting a Content Filtering Reputation Object. However you do it, you are asked to confirm that you really want to delete the item.

- You can select an individual Reputation Object by checking the box and clicking the Delete icon at the top or in the row you selected.
- You can highlight a row in the table and click the Delete icon at the end of the row you selected.
- You can select multiple profile objects by checking the boxes and clicking the Delete icon at the top.
- NOTE: The CFS Default Reputation Object cannot be deleted.

Configuring CFS Policies and Rules

After CFS is configured and the objects needed for the policy have been defined, you can define the CFS rules for managing CFS content. To define the CFS rules and policies, navigate to POLICY | Rules and Policies > Content Filter Rules.



Adding or Editing CFS Policy Rules

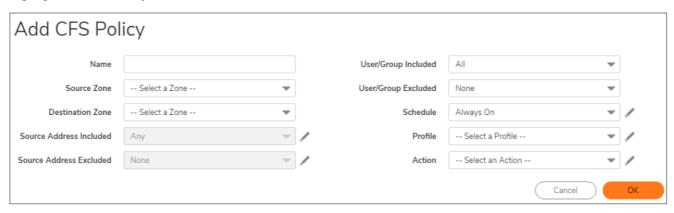
Adding and editing Content Filtering rules is very similar. The following procedures describe the options you can set in either instance.

To add a Content Filter Rule:

- 1. Navigate to POLICY | Rules and Policies > Content Filter Rules.
- 2. Click +Add.

To edit a Content Filer Rule:

- 1. Navigate to POLICY | Rules and Policies > Content Filter Rules.
- 2. Highlight the action object and click the Edit icon.



To define or update the parameters for a Content Filer Rule:

- 1. Open the CFS Policy window as previously described.
- 2. Select a Source Zone from the drop-down menu.
- 3. Select a Destination Zone from the drop-down menu.
- 4. Select the Source Address Included from the drop-down menu. If you need to create a new address object for this rule, you can click the Edit icon beside the field.
- 5. Select the Source Address Excluded from the drop-down menu. If you need to create a new address object for this rule, you can click the Edit icon beside the field.
- 6. Select the User/Group Included from the drop-down menu.
- 7. Select the User/Group Excluded from the drop-down menu.
- 8. Select the Schedule from the drop-down menu during which the policy is applied. If you need to create a new schedule object for this rule, you can click the Edit icon beside the field.
- 9. Select the Profile from the drop-down menu. The items in the list are the same profiles listed in the CFS Profile Objects table at (missing or bad snippet). If you need to create a new profile object for this rule, you can click the Edit icon beside the field.
- 10. Select the Action from the drop-down menu. The items in the list are the same actions listed in the CFS Action Objects table at (missing or bad snippet). If you need to create a new action object for this rule, you can click the Edit icon beside the field.
- 11. Click OK when done.

Deleting CFS Policy Rules

Several different options are provided for deleting a Content Filtering policy and rules. Whichever way you do it, you are asked to confirm that you really want to delete the item.

You can select an individual rule by checking the box and clicking the Delete icon at the top or in the row you

selected.

- You can highlight a row in the table and click the Delete icon at the end of the row you selected.
- You can select multiple rules by checking the boxes and clicking the Delete icon at the top.

Monitoring Content Filtering

One of the first places you might look for status information is in the HOME section of the interface. **To confirm licensing status:**

- 1. Navigate to HOME | Dashboard > System > Device tab.
- 2. Scroll down to see the Services pane.
- 3. Look for Content Filtering in that pane.



This example shows that Content Filtering Service is currently not licensed. You can click on the License? link to go to DEVICE | Settings > Licenses to renew or activate the suite of services with Content Filtering in it.

If your CFS license is active, you can also go to HOME | Dashboard > System > Security Services tab. Scroll to the Content Filter pane to see the details of the license.

SonicWall Support

Technical support is available to customers who have purchased SonicWall products with a valid maintenance contract.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. To access the Support Portal, go to https://www.sonicwall.com/support. The Support Portal enables you to:

- View knowledge base articles and technical documentation
- View and participate in the Community forum discussions at https://community.sonicwall.com/technology-and-support.
- · View video tutorials
- Access https://mysonicwall.com
- Learn about SonicWall Professional Services at https://sonicwall.com/pes.
- Review SonicWall Support services and warranty information
- · Register for training and certification
- Request technical support or customer service

To contact SonicWall Support, visit https://www.sonicwall.com/support/contact-support.

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General Public License Source Code Request
Attn: Jennifer Anderson
1033 McCarthy Blvd
Milpitas, CA 95035
SonicOS 7.1 Content Filtering Administration Guide
SonicWall Support

Documents / Resources



SONICWALL SonicOS 7.1 Content Filtering [pdf] User Guide SonicOS 7.1 Content Filtering, SonicOS 7.1, Content Filtering, Filtering

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