



Grandstream Networks, Inc.

GWN700x Series

GWN700x – Firewall Content Security

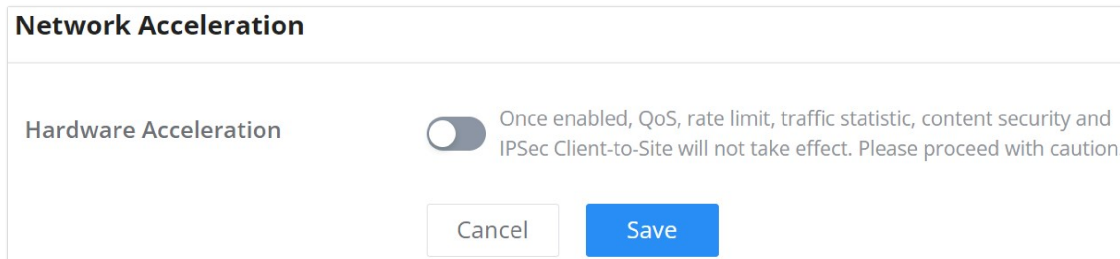


The content security feature on GWN700x routers allows users to filter (block) content based on DNS, APP or URL. DNS and URL filtering uses keywords and wildcard * (which can represent any string) while APP filtering works by selecting APPs from a list organized in categories.

To filter (block) content please follow the steps below:

Disable Hardware Acceleration

Navigate to **Web UI** → **Network Settings** → **Network Acceleration**, then toggle OFF **"Hardware Acceleration"**.



Network Acceleration

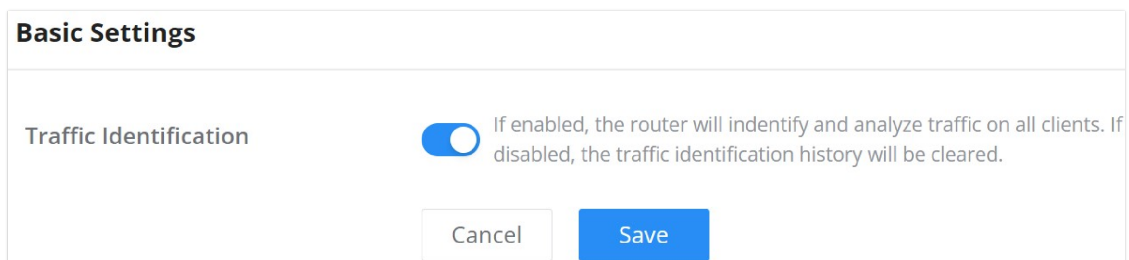
Hardware Acceleration Once enabled, QoS, rate limit, traffic statistic, content security and IPSec Client-to-Site will not take effect. Please proceed with caution.

Cancel Save

Hardware Acceleration

Enable Traffic Identification

Navigate to **Web UI** → **Traffic Management** → **Basic Settings**, then toggle ON **"Traffic Identification"**.



Basic Settings

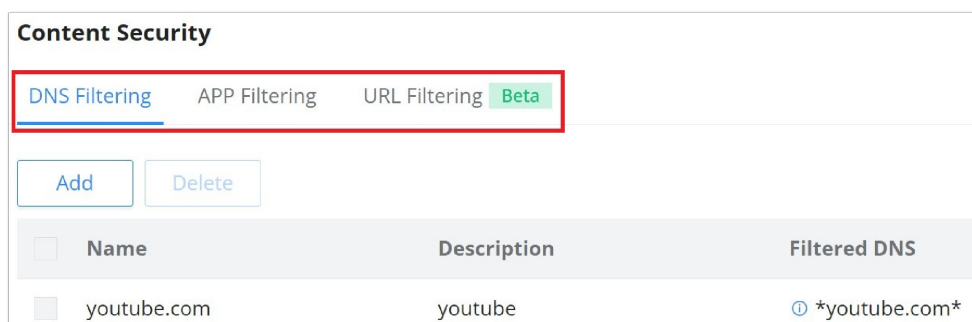
Traffic Identification If enabled, the router will identify and analyze traffic on all clients. If disabled, the traffic identification history will be cleared.

Cancel Save

Traffic Identification

Add a Content Security Filter

Navigate to **Web UI** → **Firewall** → **Content Security**, click on DNS Filtering, APP Filtering or URL Filtering tab, then click on **"Add"** button to add a new filter.



Content Security

DNS Filtering APP Filtering URL Filtering Beta

Add Delete

Name	Description	Filtered DNS
youtube.com	youtube	*youtube.com*

Content Security

Example: DNS Filtering for media streaming, click on **"minus"** or **"plus"** icons to add or remove an entry, refer to the figure below:

Note:

Enter keywords and wildcard characters * (which can represent any string). Wildcard * can only be added before or after the input keyword, for example: *.imag, news*, *news*. Please enter a valid domain name, not an IP address.

Content Security > **Add DNS Filtering**

*Name: Media Streaming (1-64 characters)

Description: Filter media streaming (0-128 characters)

*Filtered DNS:

- *youtube.com*
- *netflix.com*
- Please Enter

Buttons: Cancel, Save, Add (+)

Add DNS Filtering

Example: APP Filtering for streaming APPS, select multiple APPS/Services or select the whole category, refer to the figure below:

Content Security > **Add APP Filtering**

Basic Information

*Name: Streaming APPS (1-64 characters)

Description: Filtering media streaming services (0-128 characters)

Filtered Application

All
 Efficiently identifiable
 Others

Media Streaming Services

<input type="checkbox"/> RTSP	<input type="checkbox"/> PPStream	<input type="checkbox"/> Pluralsight	<input type="checkbox"/> DisneyPlus
<input type="checkbox"/> RTP	<input checked="" type="checkbox"/> YouTube	<input checked="" type="checkbox"/> Netflix	<input type="checkbox"/> LastFM
<input type="checkbox"/> Hulu	<input type="checkbox"/> iTunes	<input type="checkbox"/> Spotify	<input type="checkbox"/> SD-RTN
<input type="checkbox"/> RTMP	<input type="checkbox"/> Vevo	<input type="checkbox"/> Zoom	<input type="checkbox"/> MPEG_TS
<input type="checkbox"/> SoundCloud	<input type="checkbox"/> MpegDash	<input type="checkbox"/> AmazonVideo	

Buttons: Cancel, Save

Add APP Filtering

Example: URL Filtering for media streaming, click on "minus" or "plus" icons to add or remove an entry, refer to the figure below:

Note:

Only unencrypted HTTP pages/requests are supported. HTTPS is not supported.

Content Security > **Add URL Filtering**

*Name: URL Filtering (1-64 characters)

Description: Media streaming (0-128 characters)

*Filtered URL:

- *.imag
- news*
- *news*
- Please Enter

Buttons: Cancel, Save, Add (+)

Add URL Filtering

Add a Traffic Rule

Note:

- o If the client's devices are using the default DNS Server of the GWN700x router, in this case, the DNS traffic is handled by "Inbound Rules".

Traffic Rules

Inbound Rules Outbound Rules Forwarding Rules

Add Delete All Source Groups

<input checked="" type="checkbox"/>	Name	Status	IP Family	Protocol Type	Source Group	Source MAC Address	Source IP Address	Source Port	Des	Operations
<input checked="" type="checkbox"/>	Media stream...	<input checked="" type="checkbox"/>	Any	All	Default (VLAN)	-	-	-	-	
<input type="checkbox"/>	Anti-lockout-R...	<input checked="" type="checkbox"/>	Any	TCP	Default (VLAN)	-	-	-	-	
<input type="checkbox"/>	WAN2_Allow-...	<input checked="" type="checkbox"/>	IPv4	UDP	WAN3 (WAN)	-	-	-	-	
<input type="checkbox"/>	WAN2_Allow-...	<input checked="" type="checkbox"/>	IPv4	ICMP	WAN3 (WAN)	-	-	-	-	
<input type="checkbox"/>	WAN2_Allow-I...	<input checked="" type="checkbox"/>	IPv4	IGMP	WAN3 (WAN)	-	-	-	-	
<input type="checkbox"/>	WAN2_Allow-...	<input checked="" type="checkbox"/>	IPv6	UDP	WAN3 (WAN)	-	fe80::10	-	fe80	
<input type="checkbox"/>	WAN2_Allow-...	<input checked="" type="checkbox"/>	IPv6	ICMP	WAN3 (WAN)	-	fe80::10	-	-	
<input type="checkbox"/>	WAN2_Allow-I...	<input checked="" type="checkbox"/>	IPv6	ICMP	WAN3 (WAN)	-	-	-	-	

Traffic Rules list