

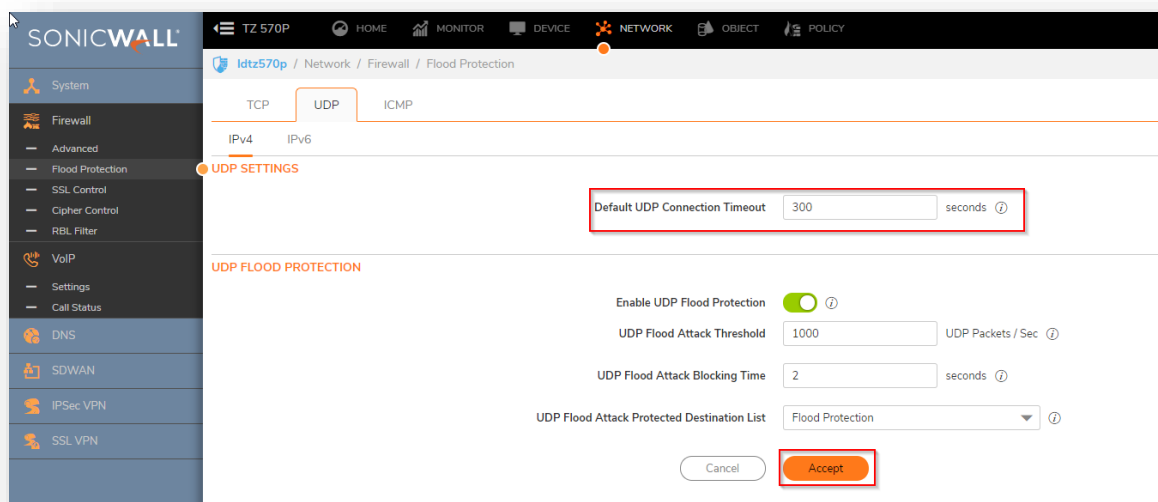


Sonicwall Configuration for TeleVoIPs – SonicOS 7

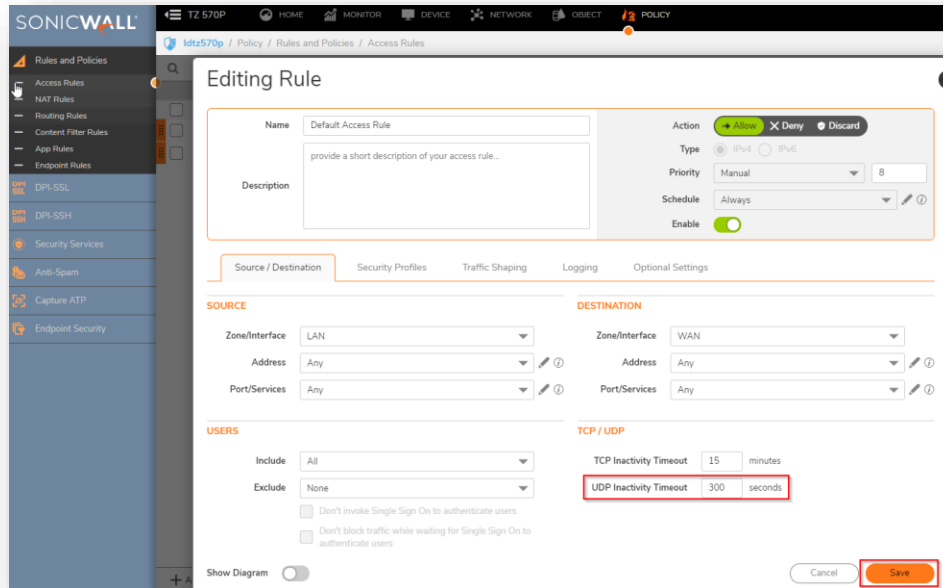
Follow the directions below to ensure proper configuration and QoS settings for SonicWall firewalls with SonicOS 7 and higher. Please understand, instructions may vary based on the model and firmware version of your device.

I. Required Changes

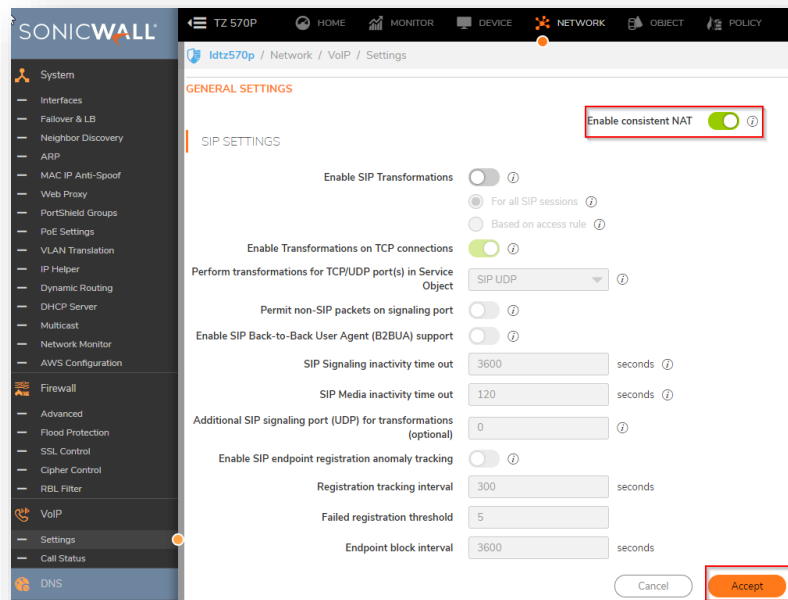
1. Navigate to Network across the top. Then on the left side under **Firewall > Flood Protection** section set **Default UDP Connection Timeout** to **300** on the **UDP Tab**. Then click **Accept** to save the changes



2. Navigate to Policy across the top. The on the left side under **Rules and Policies** > **Access Rules**, Edit the Rule that applies to the outbound traffic that the TeleVoIPs phones are on. Normally this is the Default **LAN to WAN** rule. Update the **UDP timeout** to **300**. Then click **Save**.



5. Navigate to Network across the top. The on the left side under **VOIP**, select **Settings**, enable the option for **Enable consistent NAT**. Click **Accept** to save.



6. If you are still experiencing issues, please reach out to support@televoips.com, as additional settings to Flood or Intrusion Protection may be required.

II. QoS Optimization (Recommended)

A. Enabling Bandwidth Management (Step 1)

1. Go to **Firewall Settings > BWM**.
2. Enable **0 Realtime** and set to 10% - 20%, Then modify either High or Low so total adds up to 100%
3. Click **Accept** to save the settings.

The screenshot shows the SonicWall Network Security Appliance interface. The top navigation bar includes 'MONITOR', 'INVESTIGATE', 'MANAGE', and 'QUICK CONFIGURATION'. The left sidebar shows a tree view with 'Firewall Settings' expanded to 'Bandwidth Management'. The main content area displays the 'Interface BWM Settings' configuration page.

Bandwidth Management Type: Advanced Global None

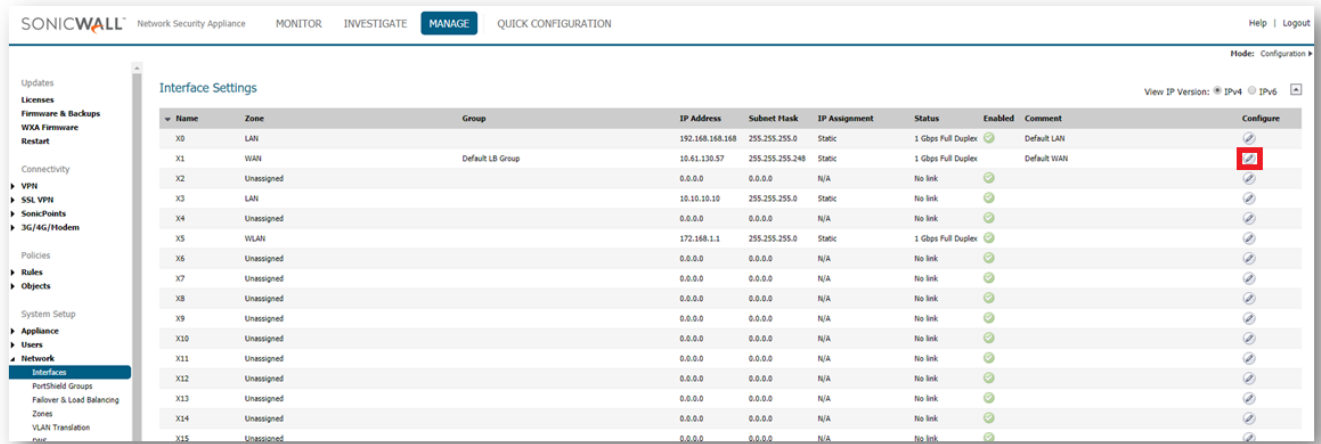
Interface BWM Settings

This priority table is used only when global bandwidth management is selected. (When using legacy BWM, values can be set independently in Firewall Access Rules and Action Objects.)
In global BWM mode, all traffic (by default) is marked as "medium" priority unless configured via firewall rule/app firewall rule.

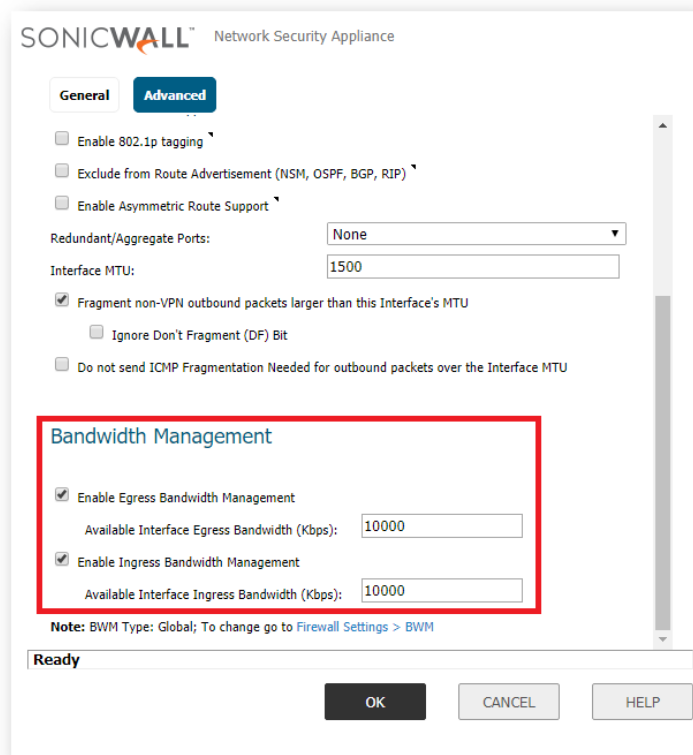
Priority	Enable	Guaranteed	Maximum/Burst
0 Realtime	<input type="checkbox"/>	0 %	100 %
1 Highest	<input type="checkbox"/>	0 %	100 %
2 High	<input checked="" type="checkbox"/>	30 %	100 %
3 Medium High	<input type="checkbox"/>	0 %	100 %
4 Medium	<input checked="" type="checkbox"/>	50 %	100 %
5 Medium Low	<input type="checkbox"/>	0 %	100 %
6 Low	<input checked="" type="checkbox"/>	20 %	100 %
7 Lowest	<input type="checkbox"/>	0 %	100 %
Total:		100	100

B. Enabling Bandwidth Management (Step 2)

1. Go to **Network > Interfaces** and on the right side of the screen open the **Configure** menu for the desired **WAN Interface**.



2. Go to the **Advanced** tab and **Enable** both the **Ingress** and **Egress Bandwidth Limitation** checkboxes.



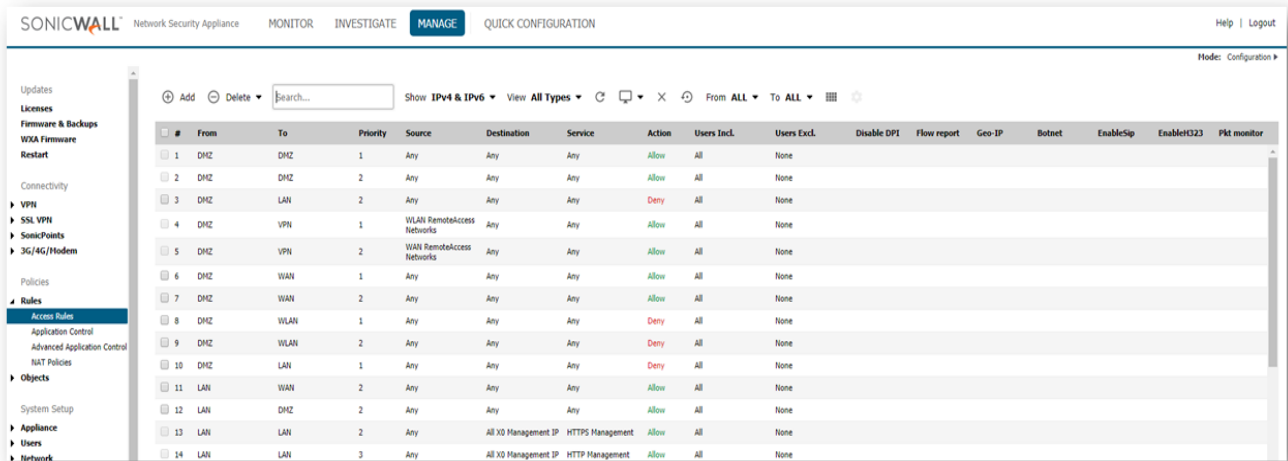
3. Input the **Ingress** and **Egress** Speeds of your WAN in Kbps. If you're unsure of these values, contact your ISP.
4. Click **OK** to save the settings and close the window.

C. Enabling Bandwidth Management (Step 3)

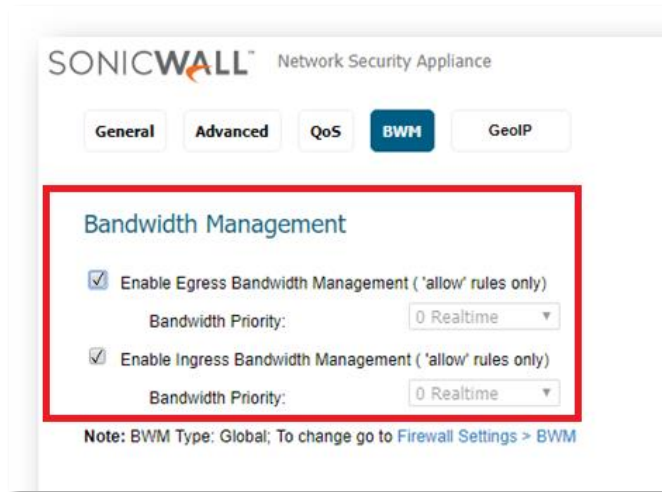
1. Navigate to **Rules > Access Rules** and find the **Access Rule** you would like to apply **BWM** to:

If a new Access Rule is required, click **Configure** on the relevant **Access Rule** or click **Add** and create the rule by entering the desired **Source**, **Destination**, **Service**, etc. into the fields.

If creating a new rule set, click **Allow** from **Any to TeleVoIPs Phone server IP and Fax server** if applicable and **Any Port** and **Any Service**.



2. On the **Access Rule** creation/modification screen, select the **BWM** tab. Enable **Egress and Ingress Bandwidth Management** and select **0 Realtime Bandwidth Priority**.



3. Click **OK** to save the settings and close the window