IS-Talk Tech Support Doc: Sonicwall Firewall Modification
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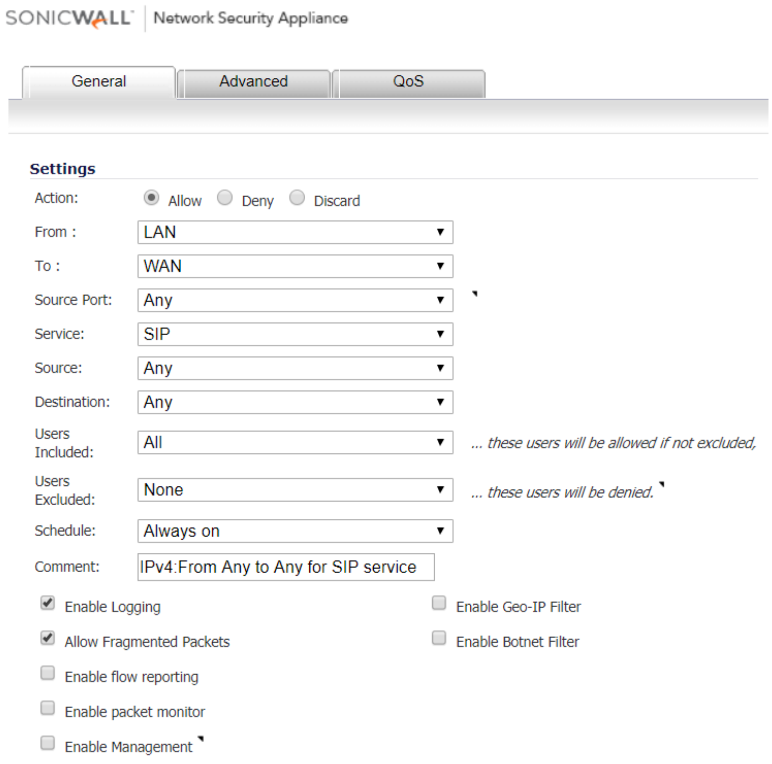
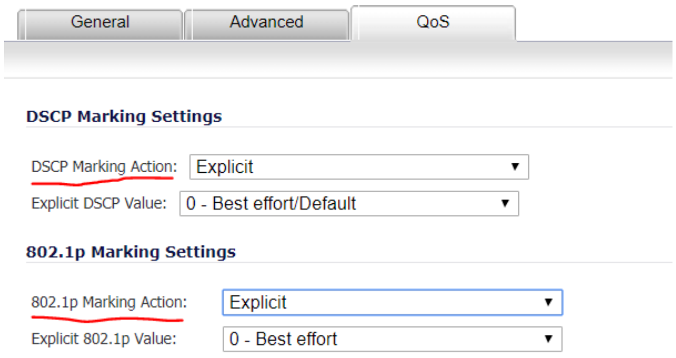
1. Login into Sonicwall Firewall
2. Firewall Access Rules:



Settings

Action: ● Allow ○ Deny ○ Discard
From : LAN
To : WAN
Source Port: Any
Service: SIP
Source: Any
Destination: Any
Users Included: All ... these users will be allowed if not excluded,
Users Excluded: None ... these users will be denied.
Schedule: Always on
Comment: IPv4:From Any to Any for SIP service

☑ Enable Logging
☑ Allow Fragmented Packets
☐ Enable flow reporting
☐ Enable packet monitor
☐ Enable Management
☐ Enable Geo-IP Filter
☐ Enable Botnet Filter



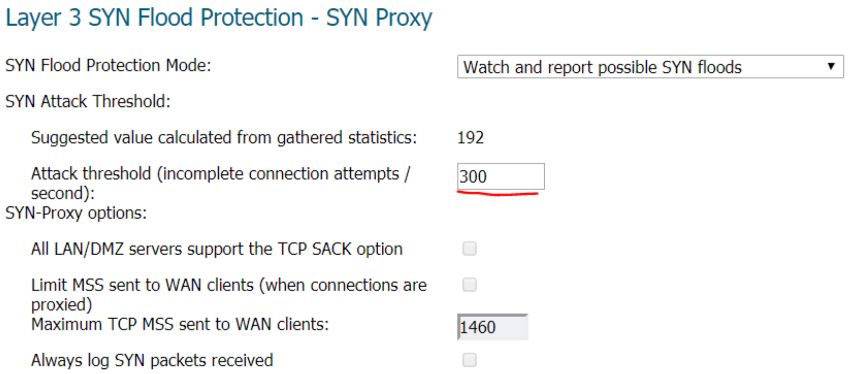
DSCP Marking Settings

DSCP Marking Action: Explicit
Explicit DSCP Value: 0 - Best effort/Default

802.1p Marking Settings

802.1p Marking Action: Explicit
Explicit 802.1p Value: 0 - Best effort

3. Firewall Settings (Flood Protection):



Layer 3 SYN Flood Protection - SYN Proxy

SYN Flood Protection Mode: Watch and report possible SYN floods ▾

SYN Attack Threshold:

Suggested value calculated from gathered statistics: 192

Attack threshold (incomplete connection attempts / second): 300

SYN-Proxy options:

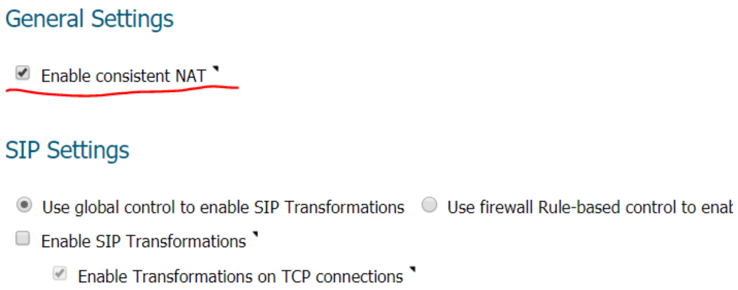
All LAN/DMZ servers support the TCP SACK option □

Limit MSS sent to WAN clients (when connections are proxied) □

Maximum TCP MSS sent to WAN clients: 1460

Always log SYN packets received □

4. VOIP (Enable consistent NAT):



General Settings

☑ Enable consistent NAT

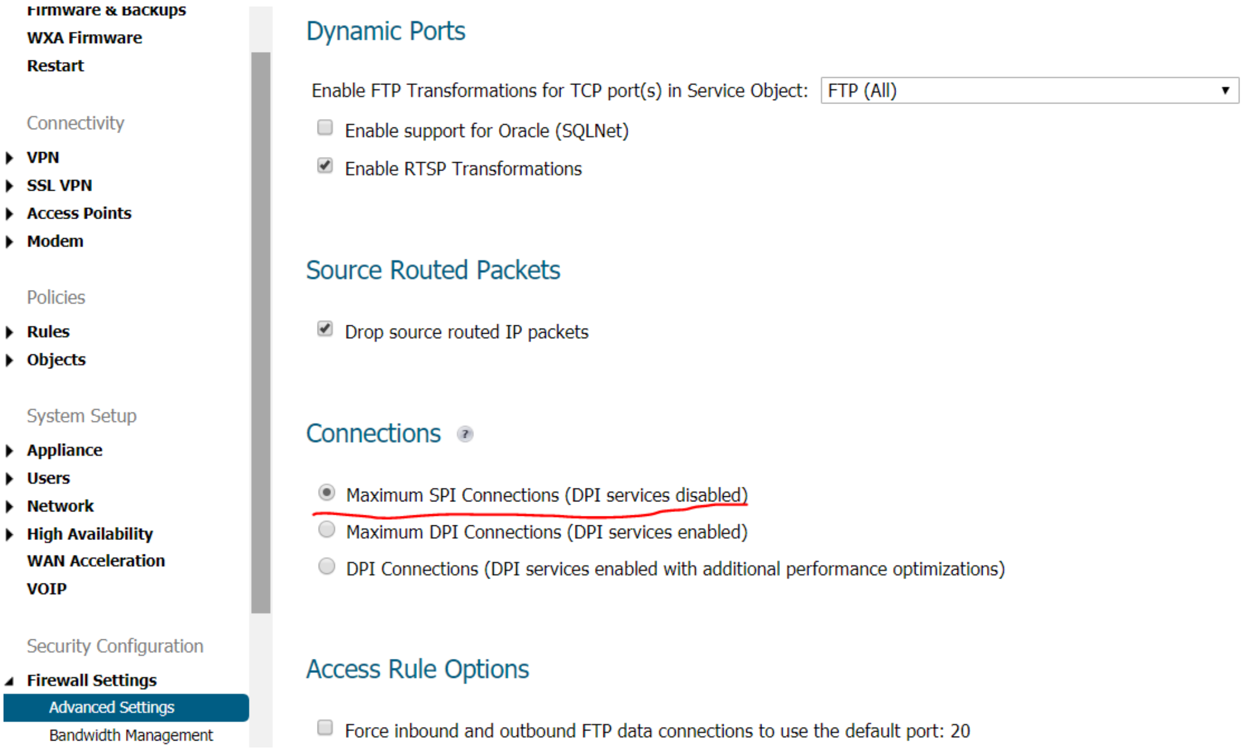
SIP Settings

● Use global control to enable SIP Transformations ○ Use firewall Rule-based control to enal

□ Enable SIP Transformations

☑ Enable Transformations on TCP connections

5. *****If the phone's quality is poor, it may be caused by the Sonicwall Firewall DPI inspection. Try "Maximum SPI Connections (DPI services disabled)"*****



Dynamic Ports

Enable FTP Transformations for TCP port(s) in Service Object: FTP (All) ▾

□ Enable support for Oracle (SQLNet)

☑ Enable RTSP Transformations

Source Routed Packets

☑ Drop source routed IP packets

Connections

● Maximum SPI Connections (DPI services disabled)

○ Maximum DPI Connections (DPI services enabled)

○ DPI Connections (DPI services enabled with additional performance optimizations)

Access Rule Options

□ Force inbound and outbound FTP data connections to use the default port: 20