Release Notes for TELE3 SP version 6.3.8.0

Your SonicWALL TELE3 SP is designed to provide continuous Internet connectivity using an Ethernet WAN port, and also provides a dial-up modem connection as a failover connection when the Ethernet WAN port connection is lost or becomes unstable. The TELE3 SP autodetects the availability of an Ethernet WAN connection or a modem connection at startup and automatically uses the fastest available WAN connection.

The Installation Wizard automatically launches when the TELE3 SP is powered on and guides you through the setup to use the TELE3 SP Ethernet WAN connection as your primary Internet connection.

The TELE3 SP Getting Started Guide has instructions for configuring the TELE3 SP modem for failover to the dial-up connection and failback to the Ethernet WAN port when it becomes available again after a failure.

Release notes included with the 6.3.7.0 firmware version provide instructions for configuring a non-routable address for the WAN Gateway (Router) Address to setup a Modem Only configuration. Devices programmed with these configurations will continue to properly operate in a Modem Only mode after upgrading to version 6.3.8.0.

The following instructions are provided for first time configuration of a TELE3 SP version 6.3.8.0 in Modem Only Mode.

Configuring Your SP in the Modem Only Mode

To configure your version 6.3.8.0 TELE3 SP in Modem Only Mode, follow these steps:

1. When the Installation Wizard launches, follow the steps in your Getting Started Guide until the Set Your Password window appears. Enter and confirm your new password. If a new password is not entered, the Installation Wizard relaunches when the unit is rebooted.
2. Continue with the Installation Wizard. A warning message appears with information that the WAN connection was not detected on start up. Click OK.
3. Accept the Assigned you a single static IP address selection by clicking Next.
4. A note that the Wizard is enabling NAT is displayed. Click Next.
5. Leave the default value of 0.0.0.0 in the SonicWALL WAN IP Address and WAN Gateway (Router) Address fields. Leave the default setting of 255.255.255.0 in the Subnet Mask field. If your dial-up ISP has given you DNS IP addresses, enter the addresses in the DNS Server Address fields. If not, then leave the DNS Server Address fields with the default values of 0.0.0.0, and click Next.
6. Leave the SonicWALL LAN IP Address and the Subnet Mask at the default values. Click Next.
7. If the TELE3 SP will provide IP addresses to computers on your LAN, select Enable DHCP Server. If not, then select Disable DHCP Server.
8. Click Print This Page to print out the network settings for the TELE3 SP, and then click Next.
9. Click Restart to enable the network settings.

After the SonicWALL restarts, log into the SonicWALL TELE3 SP using the SonicWALL LAN IP Address, and click Modem. Follow the Modem Profile Configuration steps in the Getting Started Guide to configure your modem settings.

If you have selected Enable DHCP Server, click DHCP, then Setup. In the DNS Settings section, select Set DNS Servers using SonicWALL’s Network settings. DHCP Clients on your network are now able to use these network settings to access the Internet.
New Features in the TELE3 SP Firmware 6.3.8.0

Dial-up Status Page

The Status page contains more useful information for the user regarding the Dial-up networking state. The user can choose to manually intervene and correct the problem by clicking Disconnect on the Modem/Configure page.

General/Network and Dial-up Configure Page

Modem Only Mode - the TELE3 SP default Network mode is NAT Enabled instead of Standard Network mode for the Ethernet interface. The SP dial-up works without configuring Ethernet IP parameters and without enabling WAN Failover on the Modem/Configure tab. Log into the SP, click Modem, then Profiles. Configure the dial-up settings and select the profile as the Primary Dial-up profile.

Selective Probing - Probing for WAN connectivity can now occur over the Ethernet connection, dial-up connection, or both. When probing is disabled on the Ethernet, the SP only performs link detection. If the Ethernet connection is unplugged for a duration 5 - 9 seconds, the SP considers the Ethernet WAN connection to be unavailable. If the Ethernet link is lost for 0 - 4 seconds, the SP does not consider the connection lost. If you are swapping cables quickly, unnecessary WAN failover does not occur on the SP. If probing is enabled and the cable is unplugged, the 5-9 second link detection does not occur. Instead, the probing rules apply to the connection using the parameters configured for Probe Interval Time and number of Missed Probes. If probing is enabled on Dial-Up, the dial-up connection is terminated and re-established when probing fails over the modem.

Dial-up Profiles Page

Max Connection Time (in minutes) - values range from 0 to 1440 minutes. The default value is 0 minutes which means that no maximum connection time is specified and the SP does not time out the dial-up connection. If the value entered is 1 minute or higher, the SP stays connected the length of time specified in the dial-up profile. Whether or not data is transmitted over the connection, the SP terminates the connection when it reaches or exceeds the specified connection time. This feature does not conflict with Inactivity Timeout. If both settings are configured, then connection is terminated based on which time duration occurs first.

Delay Before Reconnect (in minutes) - values range from 0 to 999 minutes. The default value is 0 minutes which means there is no delay to reconnect to the ISP. The ISP can require the dial-up account to remain inactive for a period of time before reconnecting so the next connection is not considered part of a recently terminated session.

Disable VPN when dialing - If selected, VPN SAs are disabled when the dial-up profile is active. Terminating the dial-up connection causes VPN SAs to be re-enabled. This feature is useful for companies that deploy their own point-to-point RAS network and want packets to be sent in the clear to their intranet.

Bug fixes for Firmware Version 6.3.8.0

- When the TELE3 SP is configured in NAT with DHCP mode and a failover occurs to the modem interface due to a failed probing on the WAN Ethernet connection, a brief return to the WAN Ethernet connection can occur before probing has proven the WAN Ethernet connection to be fully operational. This is followed by a return to the WAN modem interface after probing has shown the WAN Ethernet connection to be non-operational. This no longer occurs in version 6.3.8.0.
- If preempt mode is not enabled, the SonicWALL TELE3 SP still sends probes out of the WAN Ethernet interface after a failover to modem occurs. The probing is not needed since the SonicWALL SP does not return to the WAN Ethernet interface. The unnecessary probing no longer occurs in version 6.3.8.0.
- When the TELE3 SP is configured in NAT with PPPoE mode and a failover occurs to the modem interface as the result of probing failure or link failure, the PPPoE connection is terminated immediately from the TELE3 SP end. However, based on ISP settings, it could take a few more minutes for the ISP to terminate this PPPoE connection. This does not affect the modem performance, only the ability to return to Ethernet in a timely manner. This has been fixed in 6.3.8.0.
• If the modem is configured to dial in **Manual** mode and modem connectivity is lost, the modem status page now displays "The Dial-up network is not ready, the profile requires manual intervention to redial" in 6.3.8.0 instead of showing "The modem is currently active".

• If the modem connection is established and the ISP is unable to route the traffic to the Internet for unknown reasons, 6.3.8.0 terminates and re-establishes the dial-up connection if probing is enabled over the modem interface.