	T P P A P P N O T E
		TPP: 10242 Date: January, 2010
Product: ShoreTel Polycom		System version: ShoreTel 9.2

Abstract

Polycom's SpectraLink 8002 Series Wireless Telephones operate on converged voice and data Wi-Fi infrastructure to reduce costs and simplify management while significantly improving employee mobility, responsiveness and productivity. This application note provides the details on integrating the Polycom SpectraLink 8002 Wireless Telephones with the ShoreTel® IP Phone system.

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Overview

This document provides a summary of how Polycom SpectraLink Wi-Fi Telephones can combine with ShoreTel IP telephony systems to create powerful customer solutions. It starts with a brief overview of the product, features and benefits and important contact information. It continues on to discuss implementation specifics and troubleshooting.

Features and Benefits

ShoreTel solutions enable companies of any size to seamlessly integrate voice, video, messaging and data in their business processes. ShoreTel's distributed software eliminates traditional cost, complexity and reliability issues. With this Polycom SpectraLink product integration, ShoreTel customers can now further improve efficiency and manage costs by adding employee mobility through the use of SpectraLink 8002 Wi-Fi telephones on their converged voice and data Wi-Fi infrastructure.

Polycom Overview and Contact

Polycom, Inc. (NASDAQ: PLCM) is the global leader in telepresence, video, and voice solutions and a visionary in communications that empower people to connect and collaborate everywhere.

Companies choose Polycom solutions because they allow geographically dispersed workforces to communicate more effectively and productively over distances. Using Polycom voice, video, and telepresence products and services, people connect and collaborate with one another from their desktops, meeting rooms, class rooms, and mobile settings rather than travelling to one place to solve problems.

Information regarding the Polycom SpectraLink Wi-Fi Telephones can be found through the following contact information:

Polycom Headquarters
4750 Willow Road
Pleasanton, CA 94588-2708
USA

Phone:

1.800.POLYCOM
(in North America)
or 1.925.924.6000
Fax: 1.925.924.6100

Sales:

1.800.POLYCOM (765-9266)
or 408.526.9000, Option 1

<http://www.polycom.com>

Reseller Info:

Resellers who would like to start selling this solution should contact us using contact information at:

<http://www.polycom.com>



Polycom Product Information

Polycom SpectraLink 8002 Wireless Telephones, infrastructure and accessories.



The SpectraLink 8002 Wireless Telephone is a cost-effective, business-grade mobile telephony solution for small to medium-sized businesses. Using the Wi-Fi Alliance's WMM QoS standard, the SpectraLink 8002 Wireless Telephone interoperates with most consumer-grade and SMB access point infrastructure devices, alleviating the need to install and maintain additional hardware while still providing enterprise-level security and quality voice. In keeping with the needs of the market segment, the SpectraLink 8002 is packaged in complete, ready-to-install bundles that include a single or dual charger, Battery Pack and a power supply.

This lightweight handset offers a rich set of features, including a backlit keypad and high-resolution display, menu driven functions and messaging capabilities. With its reinforced yet ergonomic design, the SpectraLink 8002 Wireless Telephone is a lightweight handset that also provides shock resistance at an affordable price. Polycom's advanced manufacturing and test processes also deliver leading-class durability ensuring that the SpectraLink 8002 Wireless Telephone withstands the rigors of daily operation, thereby protecting your investment.

Administrators and users will appreciate the SpectraLink 8002 Wireless Telephone's ease-of-use and minimal training requirements, as well as the complete line of carrying options

Benefits include:

- Cost-effective mobility solution for small to medium-sized business (SMBs)
- Improve responsiveness and productivity of mobile workers
- Incorporates business-grade durability for investment protection
- Leverage investment in SIP-based PBXs and features throughout the workplace
- Minimizes training and administration time through intuitive handset operation
- Leverage wireless LAN infrastructure for voice and data applications



Product Information

SKU	Description	MSRP
2200-37010-010	SpectraLink 8002 Single Charger Bundle. Includes 1x 8002 Wireless Telephone, 1x Battery Pack, 1x Single Charger. Order power supply separately.	\$359
2200-37010-020	SpectraLink 8002 Single Charger Bundle - with power supply for North America and Taiwan	\$359
2200-37010-030	SpectraLink 8002 Single Charger Bundle - with power supply for Continental Europe and India. Includes 1x 8002 Wireless Telephone, 1x Battery Pack, 1x Single Charger, 1x Power Supply	\$359
2200-37010-040	SpectraLink 8002 Single Charger Bundle- with power supply for U.K., Singapore, and Hong Kong. Includes 1x 8002 Wireless Telephone, 1x Battery Pack, 1x Single Charger, 1x Power Supply	\$359
2200-37010-050	SpectraLink 8002 Single Charger Bundle - with power supply for Australia, New Zealand. Includes 1x 8002 Wireless Telephone, 1x Battery Pack, 1x Single Charger, 1x Power Supply	\$359
2200-37020-010	SpectraLink 8002 Dual Charger Bundle. Includes 1x 8002 Wireless Telephone, 2x Battery Packs, 1x Dual Charger. Order power supply separately.	\$415
2200-37020-020	SpectraLink 8002 Dual Charger Bundle - with power supply for North America and Taiwan. Includes 1x 8002 Wireless Telephone, 2x Battery Pack, 1x Dual Charger, 1x Power Supply	\$415
2200-37020-030	SpectraLink 8002 Dual Charger Bundle - with power supply for Continental Europe. Includes 1x 8002 Wireless Telephone, 2x Battery Pack, 1x Dual Charger, 1x Power Supply	\$415
2200-37020-040	SpectraLink 8002 Dual Charger Bundle - with power supply for U.K., Singapore and Hong Kong. Includes 1x 8002 Wireless Telephone, 2x Battery Pack, 1x Dual Charger, 1x Power Supply	\$415
2200-37020-050	SpectraLink 8002 Dual Charger Bundle - with power supply for Australia/New Zealand. Includes 1x 8002 Wireless Telephone, 2x Battery Pack, 1x Dual Charger, 1x Power Supply	\$415
2200-37210-001	SpectraLink 8002 Wireless Telephone Battery Pack	\$50
2200-37202-001	SpectraLink 8002 Wireless Telephone Dual Charger	\$99
DCE101	Desktop/Single Charger for SpectraLink e340/8002 (RoHS).	\$50
NCC101	SpectraLink Configuration Cradle for e340/h340/i640/8002 Wireless Telephones (RoHS). Order power supply separately.	\$415
PTO501	Hinge Clip Assembly - SpectraLink e340/h340/8002	\$19
PTO521	Swivel Belt Clip Assembly - SpectraLink e340/h340/8002	\$19
PTO651	Black Leather Case w/Swivel Belt Clip -- SpectraLink e340/h340/8002	\$40
PTO661	Black Leather Case w/Swivel Belt Clip, Coil Lanyard and Keypad Cover - SpectraLink e340/h340/8002	\$40



Architecture Overview

The following is a diagram of the solution architecture showing the integration between the Polycom SpectraLink Wi-Fi Telephones and the ShoreTel IP System:

Design 1



Requirements, Certification and Limitations

The following requirements are necessary to integrate Polycom SpectraLink Wi-Fi telephones to the ShoreTel IP Phone system as described in this Application Note.

SpectraLink 8002 Wireless Telephones, batteries, chargers and power supplies

SpectraLink 8000 OAI Gateway (optional) and power supply

Handset Administration Tool CD (optional)

Access Points implementing Wi-Fi Multimedia

See Notes 1, 2, 3, 4 and 5 in the section Certification Testing Results Summary below for known limitations.



Version Support

The Polycom SpectraLink 8000 components should be running the latest firmware. See version support below:

		Polycom SpectraLink 8002
		V130.009 or higher
ShoreTel Release	8.0	✓
	8.1	✓
	9.0	✓
	9.1	✓
	9.2	✓

Certification Testing Results Summary

Table 1: Basic Test Cases

ID	Name	Description	Results
1.1	Device initialization with static IP address	Verify successful startup and initialization of the device up to a READY/IDLE state using a static IP address	Pass
1.2	Device reset – idle (for static configurations)	Verify successful re-initialization of device after power loss while device is idle	Pass
1.3	Device initialization with DHCP	Verify successful startup and initialization of the device up to a READY/IDLE state using DHCP	Pass
1.4	Device reset – idle (for dynamic configurations)	Verify successful re-initialization of device after power loss while device is idle	Pass
1.5	Verify Diffserv Code Point support	Verify the ability to set Diffserv Code Point from SIP DUT (device under test)	Not Tested
1.6	Verify Date and Time Update support	Verify setting of Date and Time Update on SIP DUT	Pass
1.7	Place call	Verify successful call placement with normal dialing to a variety of terminating phones	Pass
1.8	Receive call	Verify successful call placement with normal dialing to a variety of terminating phones	Pass
1.9	Place call re-dial	Verify successful call placement using re-dial option	Pass



ID	Name	Description	Results
1.10	Place call speed dial	Verify successful call placement using programmed speed dial	Pass
1.11	CODEC support (DUT to ShoreTel Phone)	Verify successful call connection and audio path using all supported CODECs (G.711-Ulaw and G.729)	Pass
1.12	CODEC support (DUT to SIP reference)	Verify successful call connection and audio path using all supported CODECs (G.711-Ulaw and G.729)	Pass
1.13	CODEC negotiation	Verify successful negotiation between devices configured with different default CODECs (G.711-Ulaw and G.729)	Pass
1.14	Hold DUT to SIP reference	Verify successful hold and resume of connected call	Pass
1.15	Hold DUT to ShoreTel	Verify successful hold and resume of connected call	Pass
1.16	Forward	Verify successful forwarding of incoming calls	Pass
1.17	Forward from SIP DUT	Verify successful forwarding of incoming calls	Pass
1.18	Mute	Verify device's mute function	Pass
1.19	Dual-tone multi-frequency (DTMF) transmission	Verify successful transmission of in-band and out-of-band digits (RFC2833) for calls placed to and from the DUT with a variety of other devices	Pass Note-1
1.20	Missed call notification	Verify that device notifies the user about missed calls	Not Supported
1.21	Volume	Verify the device's volume adjustment function	Pass

Note-1: DTMF tones initiated by the Spectralink phones work properly with Auto Attendant menus and other automated equipment that require tones. The test plan also tests the phones capability of sending tones and receiving DTMF tones from other devices (i.e. ShorePhones and other SIP endpoints). The Spectralink phones properly send DTMF tones to the other devices and are heard by the remote device, but when the Spectralink is receiving tones from these devices it does not play the tone to the user. Since we can think of no application that would be affected by this we marked it as a passed test case.



Table 2: Extended Feature Test Cases

ID	Name	Description	Notes
3.1	Call waiting	Verify appropriate notification and successful connection of incoming call while busy with another party	Pass
3.2	Park	Verify successful park and retrieval of connected call	Pass
3.3	Extended forward	Verify extended call forwarding options – busy forwarding, ring no answer forwarding	Pass
3.4	Extended forward from SIP DUT	Verify extended call forwarding options – busy forwarding, ring no answer forwarding	Pass
3.5	Transfer – blind	Verify successful blind transfer of connected call	Pass
3.6	Transfer – monitored	Verify successful monitored transfer of connected call	Conditional Pass Note-2
3.7	Conference – ad hoc	Verify successful ad hoc conference of three parties	Not Supported Note-3
3.8	Place call – secondary line	Verify successful call placement using secondary line	Pass
3.9	Receive call – secondary line	Verify successful connection of incoming call on secondary line	Pass
3.10	Callback	Verify successful connection of a call using the missed-call callback feature of the device	Not Supported
3.11	Headset	Verify the device’s support fo external headsets (using headsets supplied by the 3P phone vendor)	Not Tested
3.12	Ring selection	Verify the device’s ability to change the ring type	Pass
3.13	Caller ID	Verify that Caller ID name and number is sent and received from SIP endpoint device	Pass, Note-4
3.14	SIP Device Generates Busy Tone	Verify that SIP DUT generates busy tone when calling a busy extension	Pass
3.15	POTS Analog Gateway supports the transfer operation by “flashing”	Verify that the POTS Analog Gateway can support the transfer operation by “flashing”	N/A
3.16	911	Verify dialing “911” on DUT could connect with “911” services	Pass Note-5
3.17	Fax Handling	Verify that fax can be sent and received through DUT	N/A
3.18	Auto Attendant Menu	Verify that DUT can initiate calls properly to a ShoreTel Auto Attendant menu and that you can transfer to the desired extension.	Pass
3.19	Auto Attendant Menu “Dial by Name”	Verify that DUT can initiate calls properly to a ShoreTel Auto Attendant menu and that you can transfer to the desired extension using the “Dial by Name” feature.	Pass
3.20	Auto Attendant Menu checking Voice Mail mailbox	Verify that DUT can initiate calls properly to a ShoreTel Auto Attendant menu and that you can transfer to the Voice Mail Login Extension.	Pass

ID	Name	Description	Notes
3.21	Initiate call to a Hunt Group	Initiate a call from DUT and verify that calls route to the proper Hunt Group and are answered by an available hunt group member with audio in both directions using G.729 and G.711 codecs.	Pass
3.22	Initiate call to a Workgroup	Initiate a call from DUT and verify that calls route to the proper Workgroup and are answered successfully by an available workgroup agent with audio in both directions using G.729 and G.711 codecs.	Pass
3.23	Hunt Group Member	Verify that incoming calls to a hunt group can be answered properly when DUT is a member of the hunt group.	Pass
3.24	Workgroup Agent	Verify that incoming calls to a workgroup can be answered properly when DUT is an agent of the workgroup.	Pass
3.25	Call Forward – “FindMe”	Verify that calls are forwarded to DUT’s “FindMe” destination. Verify that DUT works properly when it’s a “FindMe” destination	Pass
3.26	ShoreTel Converged Conferencing Server	Verify that calls are properly forwarded to the ShoreTel Converged Conferencing Server and it properly accepts the access code and you’re able to participate in the conference.	Pass
3.27	Bridged Call Appearance (BCA) extension	Verify that DUT can initiate calls properly to a BCA extension and the call is presented to all of the phones that have BCA configured. Verify that the call can be answered, placed on-hold and then transferred.	Pass

Note-2: The Spectralink phones continue to generate a ring signal even though the call has been answered (by a WG agent or HG member) when attempting to Consultatively Transfer a call to a Workgroup or Hunt group. The Spectralink user does not hear anything but ringback tone, the answering user can hear the Spectralink user. The attended transfer does succeed, just experience one-way audio with ringback. Issue to be addressed in a future release by Polycom.

Note-3: The Spectralink phones do not have the DSP resources to support a 3-way conference on the phone itself. They can be participants of a conference call, initiated by ShoreTel IP phones, but cannot initiate one.

Note-4: The Spectralink phones only display the Caller Name, but are capable of also displaying the number if the calling party only sends the number.

Note-5: The Spectralink phones can generate calls to emergency numbers (911), but we did not test calling an actual emergency services center, calls were made in a controlled environment to verify call placement.



Configuration Overview

This document describes the major steps needed to configure the ShoreTel system and the Polycom SpectraLink handsets as described in this application note.

ShoreTel Configuration

This section describes the ShoreTel system configuration to support the Polycom SpectraLink. The section is divided into general system settings and individual user configuration needed to support the SpectraLink handsets.

ShoreTel System Settings - General

The first settings to address within the ShoreTel system are the general system settings. These configurations include the call control, the switch and the site settings. If these items have already been configured on the system, skip this section and go on to the “ShoreTel System Settings – Individual Users” section below.

Call Control Settings

The Call Control Options within ShoreWare Director may need to be reconfigured. To configure these settings for the ShoreTel system, log into ShoreWare Director and select Administration, Call Control and then Options (Figure 2).

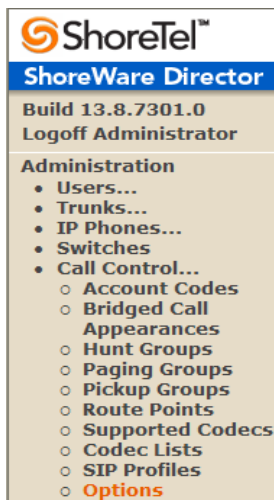


Figure 2 – Administration Call Control/Options

The “Call Control/Options” screen will then appear (Figure 3).

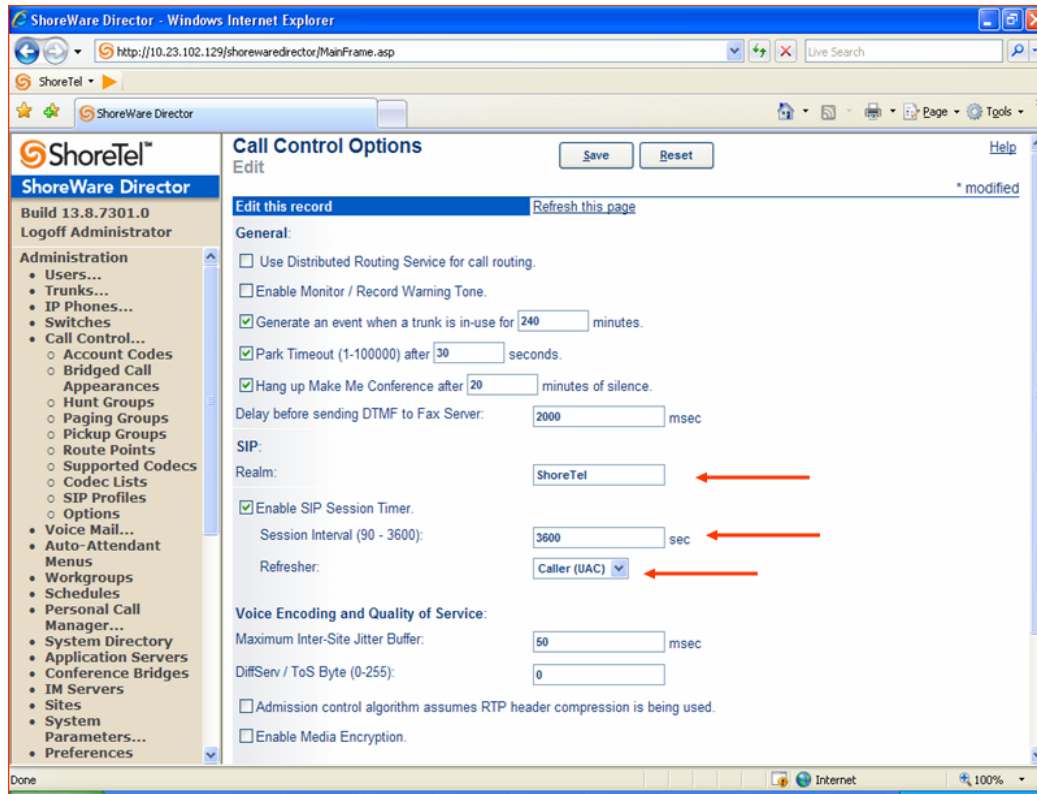


Figure 3 – Call Control/Options Screen

- If this is an upgrade from previous ShoreTel versions, you may see a parameter named “Always Use Port 5004 for RTP.” If so, you will need to disable this parameter by unchecking the box and saving the setting. When enabled, SIP extension configuration will fail. It is also important to note that this “one time” setting requires a system restart (all servers first, then ShoreGear switches followed by IP Phones) to take effect. Once the server has been restarted, this configuration parameter will no longer be visible, or may be grayed out. The default for new installations is disabled, thus the parameter is not visible (as shown in Figure 3).
- Realm: The realm is used in authenticating all SIP devices. It is typically a description of the computer or system being accessed. Changing this value will require reboot of switches serving as SIP extensions. It is not necessary to modify this parameter to get the SpectraLink handsets functional.
- SIP session interval: Session interval value indicates the session (call) “keep alive” period. There is no need to modify the default value of “3600” seconds.



- SIP session refresher: The refresher setting decides if user agent client or user agent server refreshes the session. Again, there is no need to modify the default value of “Caller (UAC).” This allows the SpectraLink handset to be in control of the session timer refresh.

Switch Settings

When allocating Ports for SIP extensions, these changes are modified by selecting “Administration,” then “Switches” in ShoreWare Director (Figure 4).

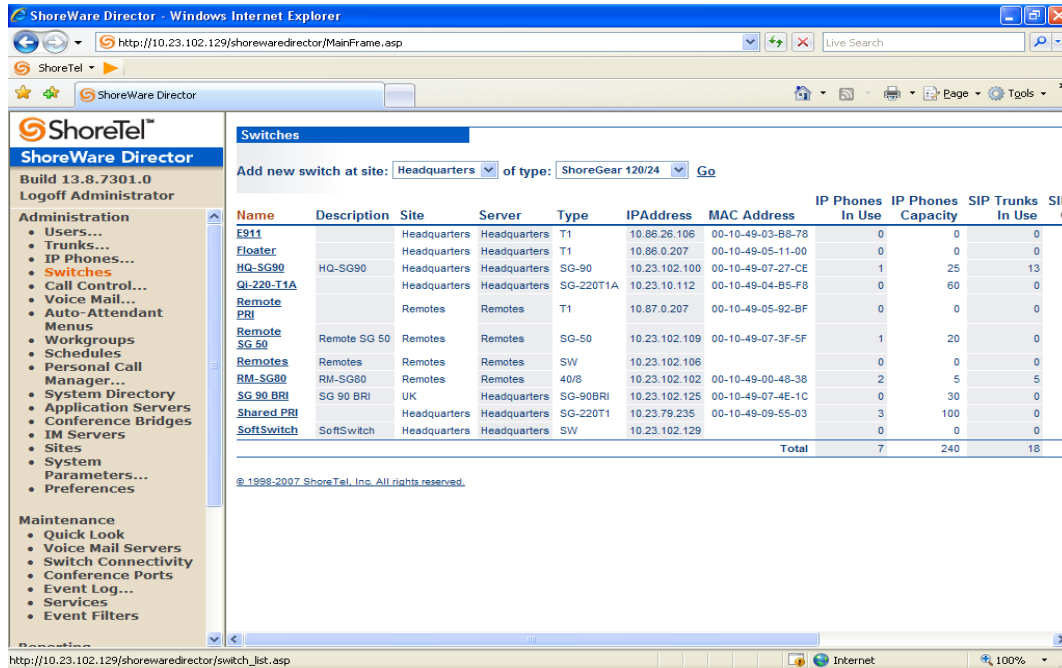


Figure 4 – Administration/Switches

This action brings up the “Switches” screen. From the “Switches” screen, simply select the name of the switch to configure. The “Edit ShoreGear ... Switch” screen will be displayed. Within the “Edit ShoreGear ... Switch” screen, define one of the “Port Type” settings from the available ports to “100 SIP Proxy” (Figure 5), then save the change.

Note: If your installation requires more than 100 SIP extensions configure the “Port Type” as “100 SIP Proxy” as necessary (i.e., two ports configured for “100 SIP Proxy” will provide 200 SIP extensions).

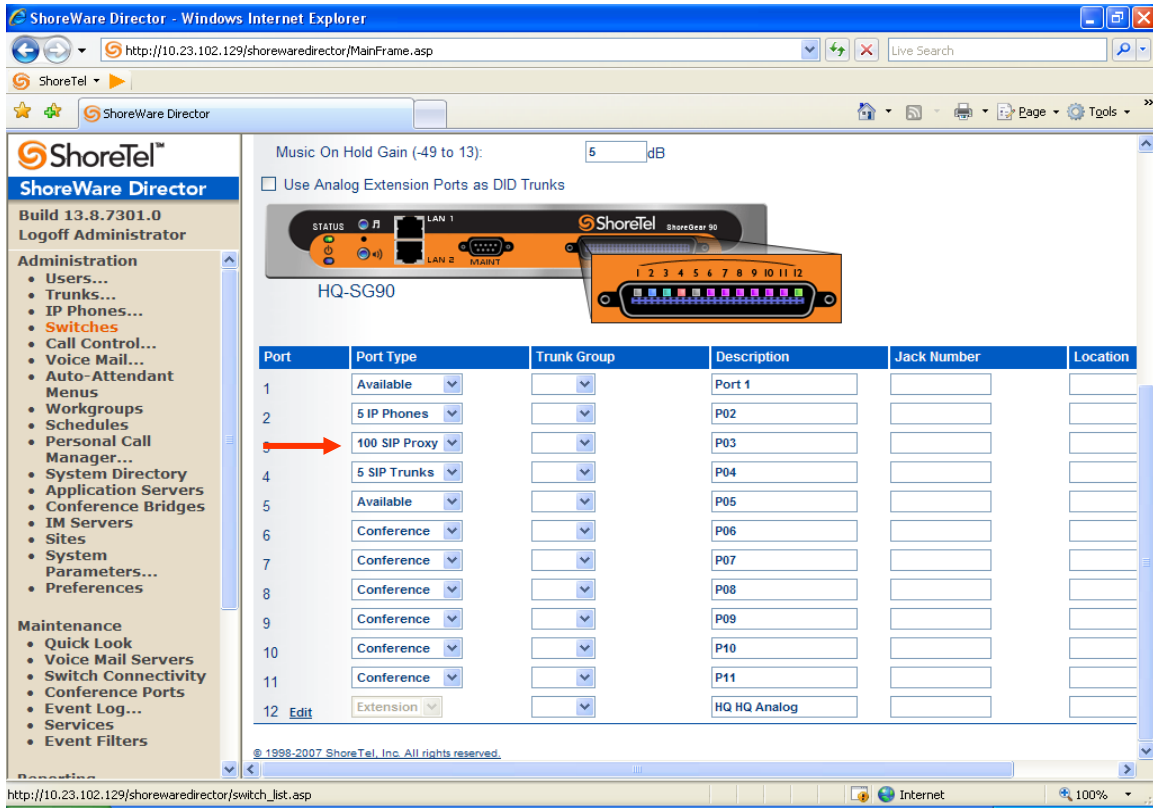


Figure 5 – Edit Switches

If the ShoreGear switch that you have selected has “built-in” capacity (i.e., ShoreGear 50/90/220T1/E1, etc.) for IP phones and SIP trunks, you can also remove 5 ports from the total number available to provide the “100 SIP Proxy” configuration necessary (Figure 6).

Note: Every 5 ports you remove from the total available will result in “100 SIP Proxy” ports being made available.

One dedicated ShoreGear 120 switch can act as a proxy for the entire site and support up to 2400 SIP phones.



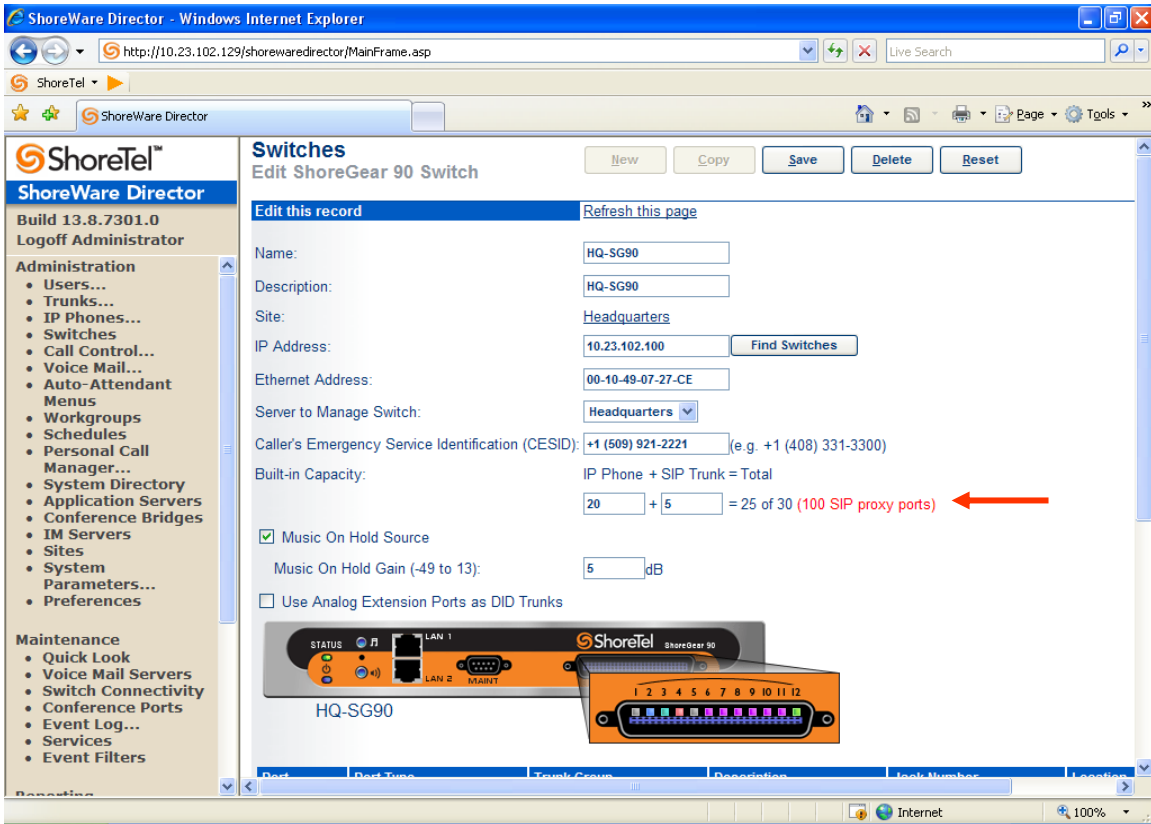


Figure 6 – ShoreGear Switch Built-in Capacity

Sites Settings

The next settings to address are the administration of sites. These settings are modified under the ShoreWare Director by selecting “Administration” then “Sites” (Figure 7).

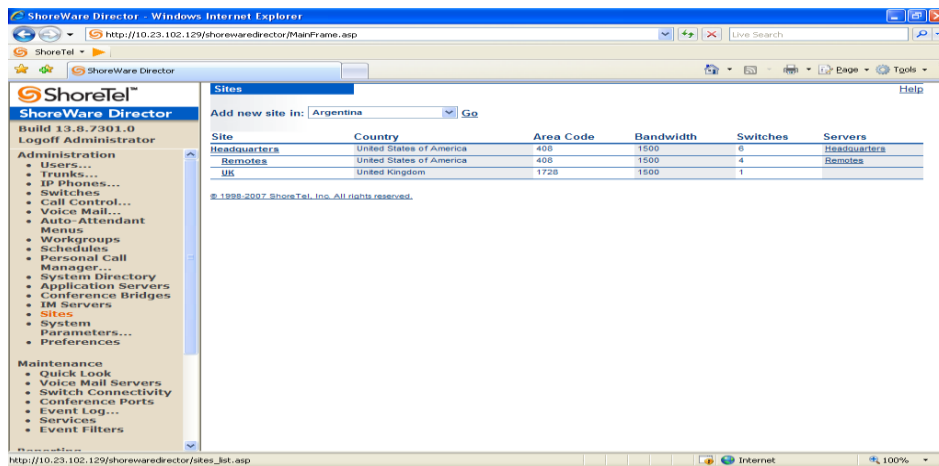


Figure 7 – Administration/Sites



This selection brings up the “Sites” screen. Within the “Sites” screen, select the name of the site to configure. The “Edit Site” screen will then appear. Scroll down to the “SIP Proxy” parameters (Figure 8).

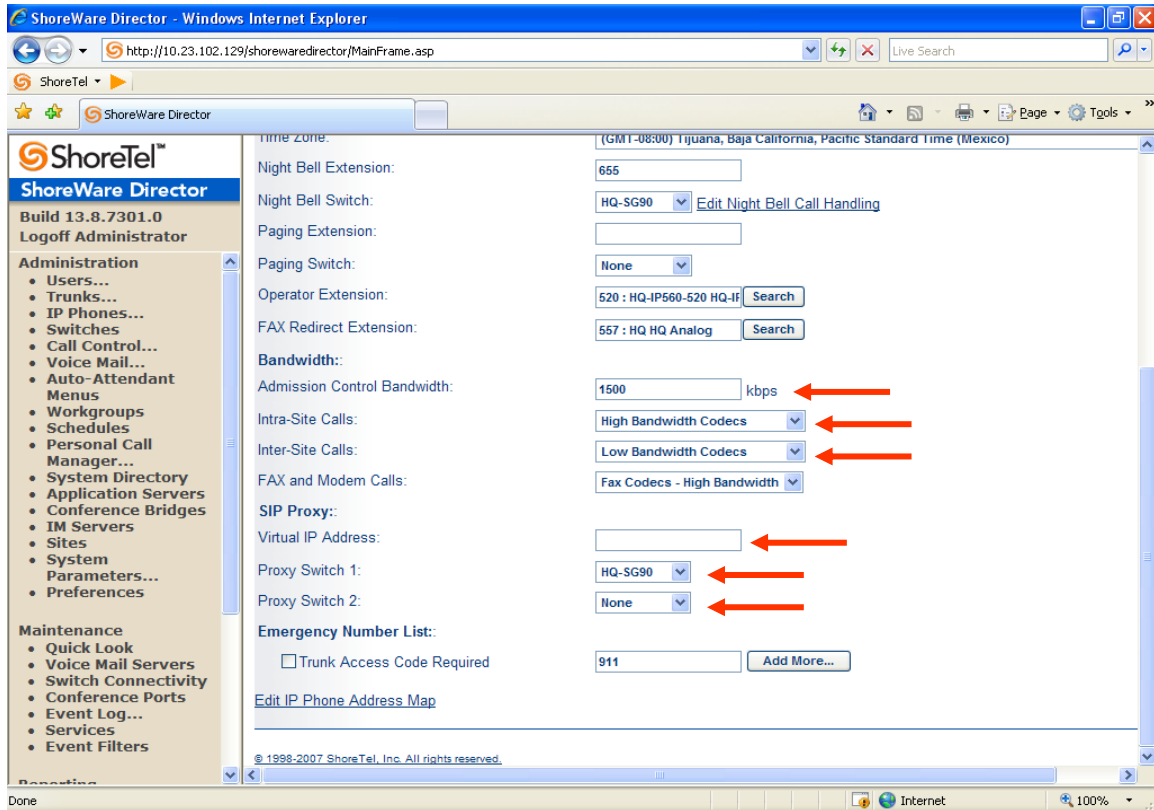


Figure 8 – Site Screen SIP Proxies

The “Virtual IP Address” parameter is a new configuration parameter with ShoreTel 8.1. This “Virtual IP Address” is an IP address that can be moved to a different switch during a failure. For each site that supports SIP extensions, one “Virtual IP Address” is defined that will act as the SIP Proxy for the site. This IP address must be unique and static.

The ShoreTel server will assign this “Virtual IP Address” to the ShoreGear that is configured as SIP proxy for the site. Two ShoreGear switches can be configured as SIP proxy servers for redundancy and reliability purposes. If the primary proxy server goes down, the other proxy switch will take over the “Virtual IP Address.” Due to this “Virtual IP Address” mechanism, SIP phones will not know if the proxy switch goes off-line.

Note: If you choose not to define a “Virtual IP Address,” you can only define one proxy switch, and there are no redundancy or failover capabilities. The switches available in the “Proxy Switch 1 / 2” will



only be shown if proxy resources have been enabled on the switch. Furthermore it makes no sense to define a “Virtual IP Address” if you only have one proxy switch defined.

The Admission Control Bandwidth defines the bandwidth available to and from the site. This is important as SIP endpoints may be counted against the site bandwidth. See the ShoreTel Planning and Installation Guide for more information about this.

ShoreTel 8.1 now adds 10 CODECs by default. These CODECs can be grouped as “Codec Lists” and defined in the sites page for “Inter-site” and “Intra-site” calls. See the ShoreTel 8.1 Server Release Notes for more information. The default settings will work properly with the SpectraLink handsets.

Creating SIP Extension

You need to create a user extension for the SpectraLink handset. This is accomplished from ShoreWare Director by selecting “Administration” followed by “Users...,” then “Individual Users.” This action will bring up the “Individual Users” screen at the top of the page. To the right of “Add new user at site:” select the site you wish to create the user in (from the drop down menu), and select “Go” (Figure 9).

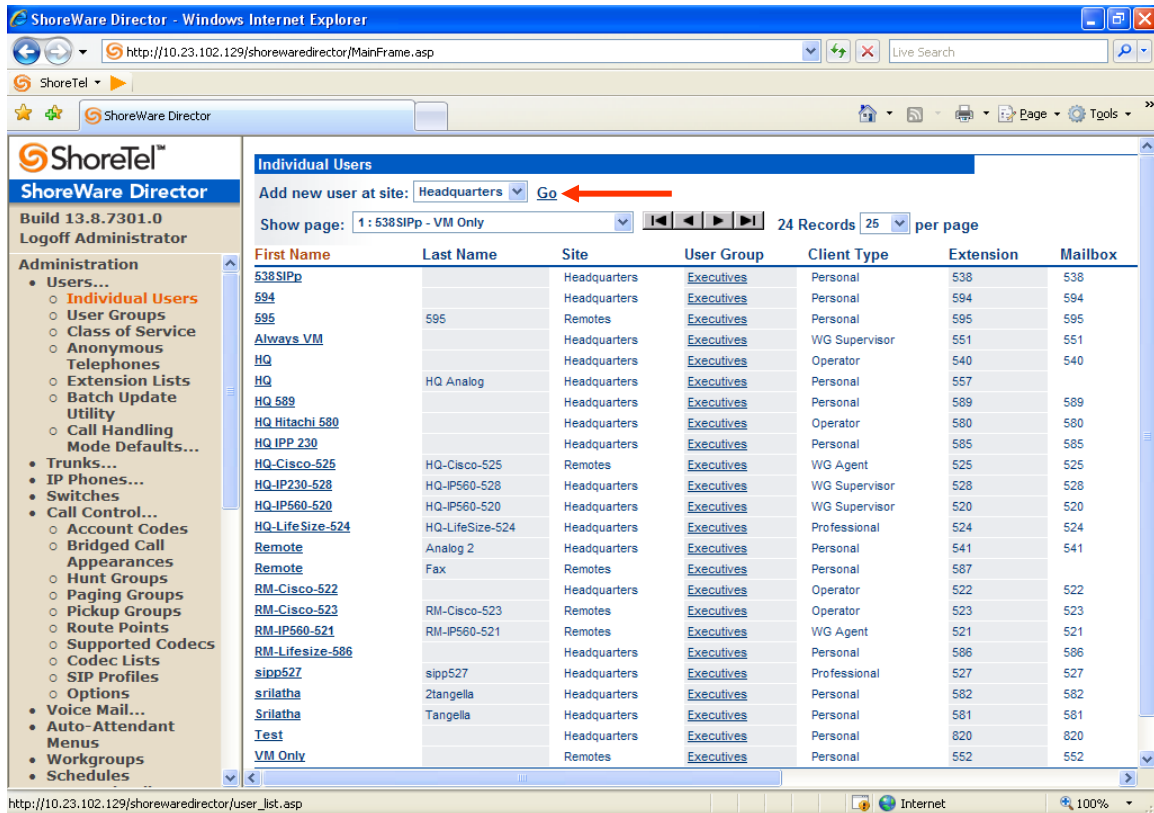


Figure 9 – Trunk Groups Settings



This action brings up the “Users” “Edit Users” screen (Figure 10).

ShoreTel
ShoreWare Director
Build 13.24.5909.0
Logoff Administrator

Administration

- Users...
 - Individual Users
 - User Groups
 - Class of Service
 - Anonymous Telephones
 - Extension Lists
 - Batch Update Utility
 - Call Handling Mode Defaults...
- Trunks...
- IP Phones...
- Switches
- Call Control...
- Voice Mail...
- Auto-Attendant Menus
- Workgroups
- Schedules
- Call Manager...
- System Directory
- Application Servers
- Conference Bridges
- IM Servers
- Sites
- System Parameters...
- Preferences

Maintenance

Users
Edit User

New Copy Save Delete Reset

* mo
Refresh this page

General Personal Options Distribution Lists Workgroups

First Name: SpectraLink1
Last Name: PolyCom WiFi
Number: 252
License Type: Extension and Mailbox
Caller ID: (e.g. +1 (408) 331-3300)
 DID: +1 (DID Range: +13125068697 - 3125068698)
PSTN Failover: None
User Group: Executives Go to this User Group

Site: Sunnyvale TPP Lab
Language: English(US)
Home Port:
 IP Phones SIP-D2B79FEF1309284CABC1E1697319AD22
 Ports TPP-SG-120/24 - 5
 SoftSwitch ECC
Current Port: SIP-D2B79FEF1309284CABC1E1697319AD22 Go Home
Jack #:

Figure 10 – Adding/Editing Users

Define the “First Name” and “Last Name” as you deem appropriate. ShoreWare Director will auto-assign the next available “Number” (i.e. extension), but you can modify it to any available extension. Define the “License Type” as needed, in this example we chose “Extension and Mailbox” although it’s not necessary to have a mailbox. Define the proper “User Group” and set the “Home Port” to “Any IP Phone.”

Note: If you configured the “License Type” for “Extension-Only,” you cannot select “Any IP Phone” but instead must set the “Home Port” for the “SoftSwitch” selection. Save your changes, then scroll down to the “SIP Password:” section (Figure 11).

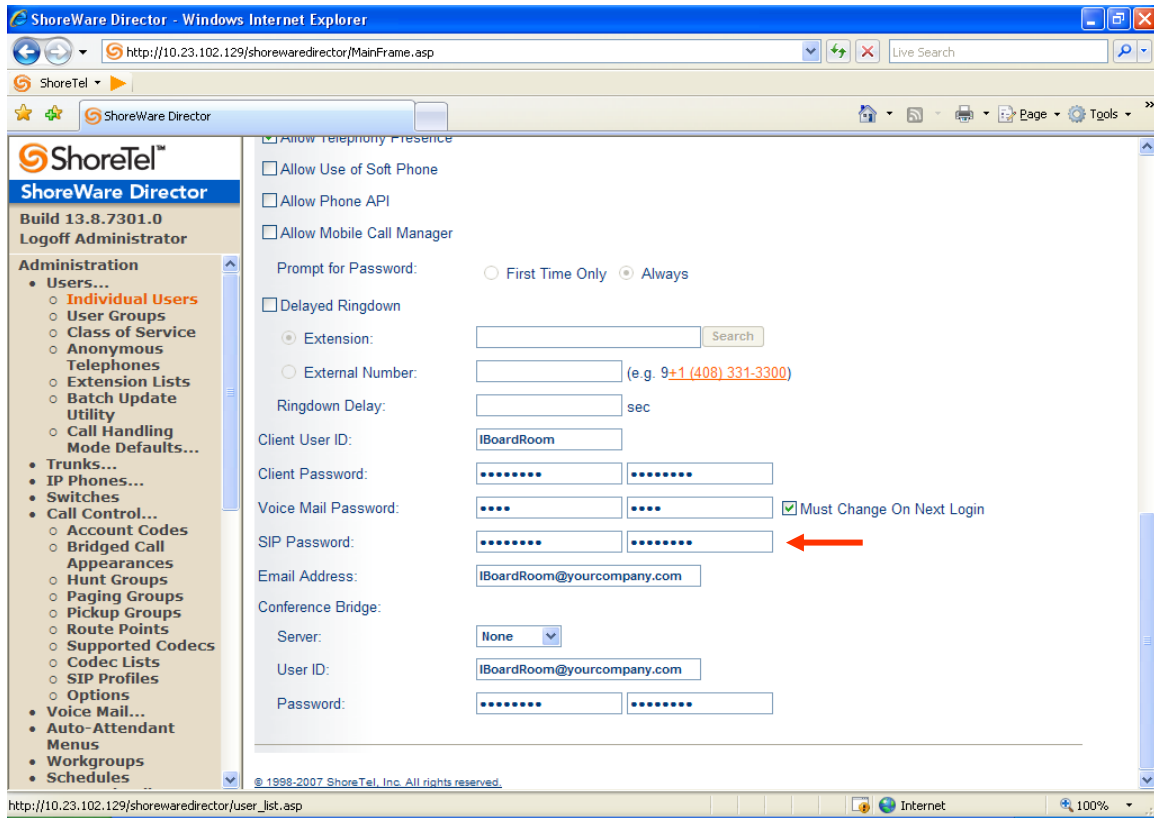


Figure 11 – Individual User SIP Settings

There is no default “SIP Password,” it is masked with the appearance that there is, but don’t be confused to think that there’s a default password. You can modify it to any value you wish, but be certain to note what you changed it to, as you will need it when configuring the SpectraLink handset parameters. Save your changes.

SIP Profiles

ShoreWare Director’s “IP Phones...” section contains a “SIP Profiles” option. ShoreTel 9.x comes standard with a “_System” and “_ShorePhoneIP8000” SIP profiles (they cannot be deleted - only disabled). By default, the SpectraLink handsets utilize the “_System” profile. In order to optimize the functionality, you will need to add a custom profile. This is accomplished from ShoreWare Director by selecting “Administration” followed by “IP Phones...,” then “SIP Profiles.” This action brings up the “SIP Profiles” screen. At the top of the page, below the “SIP Profiles List”, select the “New...” radio button, as shown in Figure 12.

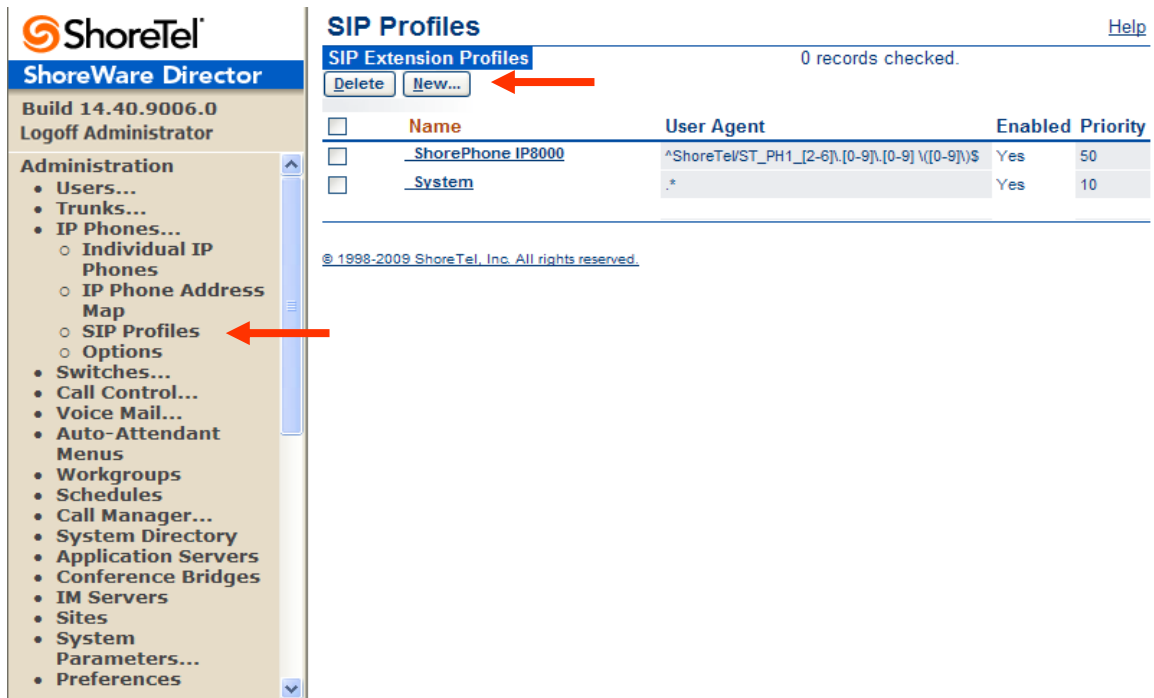


Figure 12 – SIP Profiles

This action brings up the “Edit SIP Profile” screen, Figure 13.

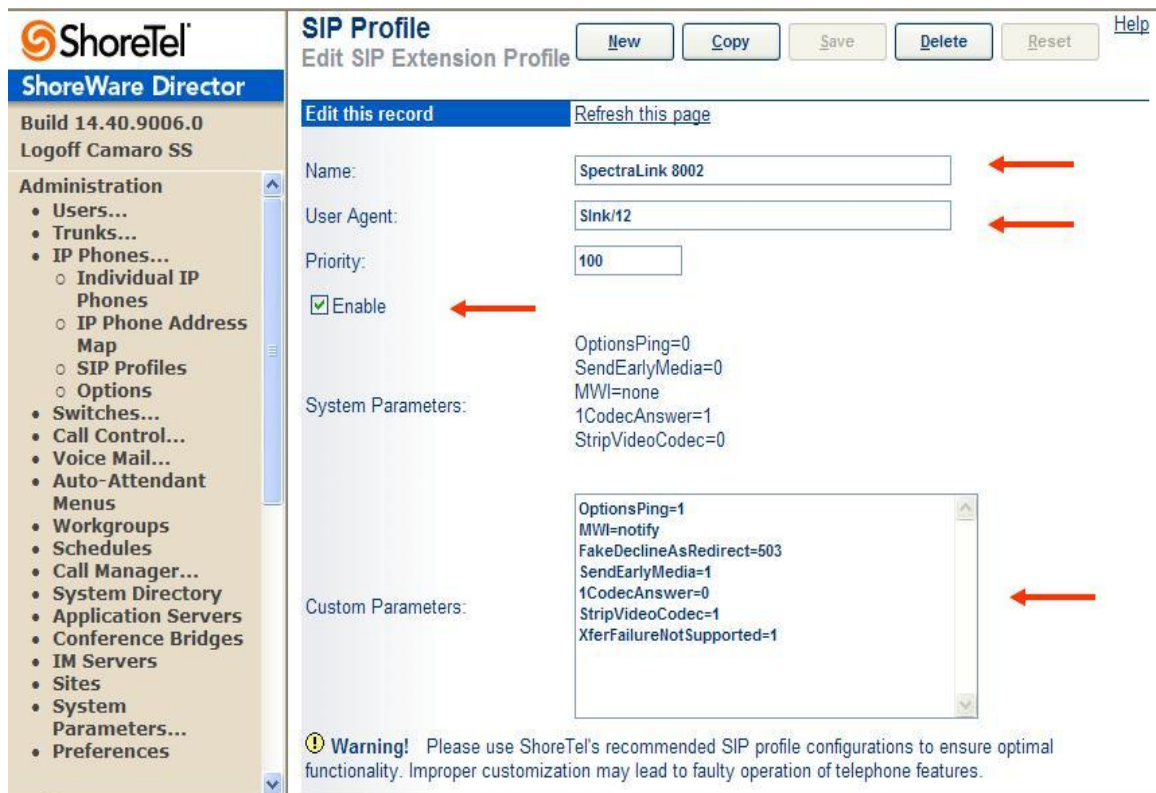


Figure 13 – Edit SIP Profile

Define a “Name:” for the entry, and be sure to define an appropriate name. For the “User Agent:” option, enter “**Slmk/12**” (without quotes); the “Priority:” defaults to 100, no change is required. Enable the profile by checking (enabling) the “Enable” option. In the “Custom Parameters:” options, add the following entries:

```
OptionsPing=1
MWI=notify
FakeDeclineAsRedirect=503
SendEarlyMedia=1
1CodecAnswer=0
StripVideoCodec=1
XferFailureNotSupported=1
```

Save the changes.

Note: Please do not disable any of the default SIP profiles. In case there are issues with the custom profile defined, disabling the system profiles may cause the SpectraLink handsets to not be added to the ShoreTel system. Refer to the ShoreTel 9.x Server Release Notes for more information.

Polycom Configuration

Refer to the following documents and downloads for detailed user and configuration. They can be found at: http://www.polycom.com/support/voice/wi-fi/spectralink_8002_wireless.html

Downloads

- SpectraLink 8002 Software - (130.009)
- Comprehensive Release Notes for SpectraLink 8002 Series

User Documents

- SpectraLink 8002 Wireless Telephone SIP Feature Matrix
- SpectraLink 8002 Quick Reference Guide
- SpectraLink 8002 Wireless Telephone Administration Guide for SIP Protocol
- SpectraLink 8002 Wireless Telephone and Accessories User Guide for SIP Protocol
- SpectraLink 8002, e340/h340/i640 Wireless Telephone Regulatory Information

Setup & Maintenance Documents

- Technical Bulletins for Wi-Fi Communications

Polycom Troubleshooting

Refer to the following documents on Polycom.com for troubleshooting tips.

- SpectraLink 8002 Wireless Telephone Administration Guide for SIP Chapter 10 Troubleshooting http://www.polycom.com/support/voice/wi-fi/spectralink_8002_wireless.html

Polycom Technical Support

If you are a certified Polycom reseller with a valid CPC# and have questions please contact Polycom Support Hotline at (800) 775-5330. The hotline is open Monday through Friday, 6 a.m. to 6 p.m. Mountain Time.

If you are a non-certified reseller, please contact your wireless handset distributor to obtain tier 1 support and learn how to become a certified Polycom reseller.

For Technical Support: technicalsupport@polycom.com

For Knowledge Base: <http://www.polycom.com/usa/en/support/voice/voice.html>

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