

Explaining SPA400 Configuration Utility Menu Options

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Introduction

This article is one in a series to assist in the setup, troubleshooting, and maintenance of Cisco Small Business products.

Q. What are the SPA400 Configuration Utility Menu Options and what does it mean?

A.

SPA400 Configuration Utility Menu Options

Advanced menu items for the SPA400 are set through the Web-based Configuration Utility.

Setup: Basic Setup

Data – Network Setup

Dynamic IP Address	Check this button for obtaining networking parameters from a DHCP server
Fixed IP Address	Check this button to allow the SPA400 to be configured with a Static IP address
IP Subnet Mask	Subnet mask
Gateway IP Address	IP address of the Gateway/Router
Data – Domain Name Server Address	
Primary DNS	IP address of the primary domain name server
Secondary DNS	IP address of the secondary domain name server
Data – NTP	
NTP Server	IP address or FQDN of a NTP server
Time Zone	Select the time zone

Setup: SPA9000 Interface

Data – SPA9000 User ID

User ID	The User ID of the SPA9000. Must be identical to the User ID configured in the SPA9000 Line # tab
Discover Automatically	Select this radio button if you want the SPA400 to learn the SPA9000 User ID from the SIP Registration packet sent by the SPA9000. You will need to specify the SPA9000 IP address and the UDP port. The SPA400 listens for the SIP Registration request from SPA9000. ...
Static Address	Select this radio button to enter the IP address of SPA9000 "Static Address" means the SPA400 won't automatically discovery the SPA9000's IP address and port number. User has to specify it in the "IP Address" and "Port" fields. It also means SPA400 will only accept the SIP message from this address.
IP Address	IP address of the SPA9000
Port	UDP port number that SPA9000 registers its User ID to SPA400
Data – Port ID Each line port on the SPA400 may have a unique ID to allow the SPA9000 to identify incoming calls from PSTN	
Port ID 1	ID of port 1
Port ID 2	ID of port 2
Port ID 3	ID of port 3
Port ID 4	ID of port 4
Data – Signaling	
Signaling Port	UDP port that SPA400 listen for incoming call setup request
Data – RTP	
RTP Port	Base UDP port that SPA400 uses for RTP and RTCP. SPA400 uses a block of UDP ports for sending/receiving RTP and RTCP packets starting from this port number.
Data – IP ToS/DiffServ	
Call Signaling Packets	TOS field in IP header for outgoing SIP packets
RTP Packets	TOS field in IP header for outgoing RTP/RTCP packets
Data – Session	
Enable Session Timer	Check this button if you want the SPA400 to encode the Timer header in all INVITE requests for ringing timeout.
Desired Refresh Time	Desired session timer in seconds.
Minimum Refresh Time	Minimum value of the session timer, in seconds, that SPA400 prefers.

Setup: Voice

Data – Voice Coders

Preferred Coder	Select the preferred voice codec that SPA400 uses to negotiate with remote VoIP devices for determining the voice codec.
Packetization	Select the packetization time for a voice coder.
VAD	Enable or disable Voice Activity Detection for a voice codec.
Data –Calling Timers	
Wait-for-Answer time	Specify the time in seconds that SPA400 wait for the called party to answer the call. If the called party does not answer the call within this time period, the call is terminated automatically.
Call Limit	Specify the maximum number of seconds for a call. When the duration of a call exceeds this value, the call is terminated automatically.
Data –Dialing Parameters	
Tone out on	Specify the tone on time in millisecond for an out dialing DTMF digit.
Tone out off	Specify the tone off time in millisecond for an out dialing DTMF digit.
DTMF power	Power level in 0.1 dBm of the DTMF tones SPA400 dial toward TELEPHONY ports
Answer after	Number of rings SPA400 waits before answering incoming calls
Dial out wait	Time in milliseconds SPA400 wait after seizing a telephony port and before dialing out DTMF digits
Dial out battery threshold	Before seizing a telephony port for dialing out, SPA400 detects voltage level on the port to ensure that the port is connected and available. If the voltage level is below this threshold level, the port is declared unavailable.
Data – Line Settings	
Transmit Gain	SPA400 may increase or attenuate the power level before transmitting to the telephony port. This field allows you the set this gain level in dB.
Receive Gain	SPA400 may increase or attenuate the power level of telephony port. This field allows you the set this gain level in dB.
Impedance Selection	Select the impedance of the lines connecting to SPA400's telephony ports.

Setup: Voicemail Server
Data – Voicemail Settings

Server Port	UDP port over which the voicemail server listens. Note: The port number must be different from the signaling port on the SPA9000 Interface page.
SPA9000 User ID	User ID SPA9000 uses to register to SPA400 voicemail server
SPA9000 subscribe ID	ID SPA9000 uses to subscribe to SPA400 voicemail server for obtaining notification.
Mailbox deposit number	Phone number that SPA9000 uses to deposit voicemail
Mailbox manage number	Phone number that SPA9000 uses to access the voicemail box

Notes: Settings on this page must match the SPA9000 Line # tab which connects to SPA400 voicemail server.

Setup: Voicemail Users
Data – Voicemail Users

Enable User	Check this box to enable the mailbox
User ID	Mailbox ID
Password	Password for accessing the mailbox

Notes: Each mailbox serves a SPA IP Phone managed by the SPA9000. The User IDs on the Voicemail Users page must be consistent with the SPA IP Phones Mailbox ID before the phone can deposit and access voicemail.

Administration: Management
Data – Gateway Access

Gateway Username	New login name
Gateway Password	New login password
Re-enter to Confirm	Re-enter the new password. This entry must match the value above.

Administration: Factory Default
Data – Factory Default

Restore Factory Defaults	Clicking this button will erase the current settings and reset the SPA400 to the original factory default settings.
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Administration: USB Setting
Data – USB Device

File Path	Specify the file to be loaded to the USB storage device.
Download	Clicks this button loads the file onto the USB storage device.

Administration: Firmware Upgrade
Data – Firmware Upgrade

File Path	Click the "Browse" button to browse for the location on your PC where the firmware upgrade file is stored. Select this file.
Browse	Click the "Browse" button to select the firmware upgrade file on your PC.
Upgrade	Click this button to start the Firmware upgrade.

Administration: Reboot

Restart System	Clicking this button will restart the SPA400. All SPA400 connections will be broken.
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Status

Gateway	Firmware Version and SPA400 Status
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Event Logs

Set Log Levels	SPA400 logs significant events onto its internal buffer.. The events are categorized into several groups. This page allows you to set the log levels for each event group.
Event Logs	This page allows you the display the contents of SPA400 event log buffer. Contents of the log buffer provide technical support personnel useful information to troubleshoot SPA400 issues.

Related Information

- **Technical Support & Documentation – Cisco Systems**

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