



Cisco SPA IP Phone Field Reference

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Info Tab

The fields on this tab are read-only and cannot be edited.

System Information

| Parameter | Description |
|-----------------|--|
| Connection Type | Indicates the type of internet connection for the phone: <ul style="list-style-type: none">• DHCP• Static IP• PPPoE (only applicable to Cisco SPA525G or Cisco SPA525G2) |
| Current IP | Displays the current IP address assigned to the IP phone. |

| Parameter | Description |
|-----------------|---|
| Host Name | Displays the current host name assigned to the SPA9000 (defaults to SipuraSPA). |
| Domain | Displays the network domain name of the SPA9000. |
| Current Netmask | Displays the network mask assigned to the SPA9000. |
| Current Gateway | Displays the default router assigned to the SPA9000. |
| Primary DNS | Displays the primary DNS server assigned to the SPA9000. |
| Secondary DNS | Displays the secondary DNS server assigned to the SPA9000. |

Cisco SPA525G or Cisco SPA525G2-Specific Parameters:

| Parameter | Description |
|----------------------------|---|
| NTP Enable | Shows if Network Time Protocol is enabled. |
| Primary NTP Server | IP Address of the primary NTP server. |
| Secondary NTP Server | IP Address of the secondary NTP server. |
| TFTP Server | Address of the TFTP server for provisioning. |
| Bluetooth Enabled | Shows if Bluetooth is enabled. |
| Bluetooth Firmware Version | Displays the Bluetooth firmware version. |
| Bluetooth Connected | Shows if a Bluetooth device is connected to the phone. |
| Bluetooth MAC | Shows the hardware address of the Bluetooth device. |
| Connected Device ID | Shows the name of the connected Bluetooth device. |
| Wireless Enabled | Shows if Wireless-G is enabled on the phone. |
| Wireless Connected | Shows if the phone is connected to the wireless network. |
| Wireless MAC | Shows the hardware address of the Wireless-G controller. |
| SSID | Shows the SSID, or name of the wireless router to which the phone is connected. |
| Standard Channel | Shows the wireless channel being used in the wireless connection. |
| Security Mode | Shows if wireless security is configured on the phone (yes or no). |

Reboot History

The IP phone stores the reasons for the last five reboots or refreshes. When the phone is reset to factory defaults, this information is deleted.

The reboot history is displayed in reverse chronological order, with the reasons for the latest reboot displayed in the **Reboot Reason 1** field.

Each Reboot Reason field displays the reason for the reboot and a time stamp indicating when the reboot took place as in the following examples:

```
Reboot Reason 1: Provisioning(06/22/2011 13:29:33)
Reboot Reason 2: Upgrade(06/22/2011 13:01:43)
Reboot Reason 3: Provisioning(06/22/2011 10:40:12)
```

The following is a list of the supported reboot/refresh reasons:

| Reason | Description |
|-----------------|--|
| Upgrade | An upgrade operation caused a reboot (regardless whether the upgrade completed or failed). |
| Provisioning | Changes made to parameter values by using the phone LCD or Web GUI, or a resync caused a reboot. |
| SIP Triggered | A SIP request caused a reboot. |
| RC | A remote customization caused a reboot. |
| User Triggered | The user manually triggered a warm reboot. |
| Software Req | A remote server triggered a warm reboot. |
| System <i>n</i> | System events (for example, running out of resources) triggered a warm reboot. |
| IP Changed | The phone IP address was changed triggering a warm reboot. |

You can view the reboot history from the phone Web GUI, the phone LCD screen, and the phone SPA Status Dump file (<http://phoneIP/status.xml> or <http://phoneIP/admin/status.xml>).

Viewing the Reboot History on the Phone LCD Screen

A new menu, **Reboot History**, was added under the **Setup menu**. On the **Reboot History** Page, the 5 reboot entries are displayed in reverse chronological order, just like the Web GUI.

Viewing the Reboot History in the SPA Status Dump File

The reboot history is stored in the SPA Status Dump file (http://<phone_IP_address>/admin/status.xml). In this file, tags **Reboot_Reason_1** to **Reboot_Reason_5** store the reboot history, as shown in this example:

```
<Reboot_History><Reboot_String/>
<Reboot_Reason_1>Provisioning(06/13/2011 14:03:43)</Reboot_Reason_1>
<Reboot_Reason_2>Provisioning(06/13/2011 13:58:15)</Reboot_Reason_2>
<Reboot_Reason_3>Provisioning(06/13/2011 12:08:58)</Reboot_Reason_3>
<Reboot_Reason_4>Provisioning(05/26/2011 15:26:49)</Reboot_Reason_4>
<Reboot_Reason_5>System 4(05/24/2011 10:20:06)</Reboot_Reason_5>
<Reboot_History/>
```

The Web GUI and the LCD screen get the reboot history from these tags.

Network Configuration (SPCP)

| Parameter | Description |
|-----------------|---|
| TFTP Server | Address of the TFTP server for provisioning. |
| Call Manager | IP address of the Unified Communications server. |
| Directories URL | Populated by the Unified Communications Server; points to the directory application server. |
| Services URL | Populated by the Unified Communications Server; points to the Cisco XML application server. |

| Parameter | Description |
|-----------------------|--|
| Authentication URL | Populated by the Unified Communications Server; points to the authentication server. |
| DHCP Address Released | Populated by the Unified Communications Server; indicates if the DHCP address has been released. |

VPN Status (Cisco SPA525G or Cisco SPA525G2 Only)

| Parameter | Description |
|----------------|--|
| VPN Connected | Indicates if the phone is connected to a VPN. |
| Client Address | IP address given to the phone from the VPN server. |
| Client Netmask | Netmask given to the phone from the VPN server. |
| Bytes Sent | Size of data sent from the phone. |
| Bytes Recv | Size of data received by the phone. |

Product Information

| Parameter | Description |
|--------------------|--|
| Product Name | Model number of the IP phone. |
| Serial Number | Serial number of the IP phone. |
| Software Version | Version number of the IP phone software. |
| Hardware Version | Version number of the IP phone hardware. |
| MAC Address | Hardware address of the IP phone. |
| Client Certificate | Status of the client certificate, which authenticates the IP phone for use in the ITSP network. This field indicates if the client certificate is properly installed in the IP phone. |
| Customization | For an RC unit, this field indicates whether the unit has been customized or not. Pending indicates a new RC unit that is ready for provisioning. If the unit has already retrieved its customized profile, this field displays the name of the company that provisioned the unit. |
| Licenses | Indicates any additional licenses that you have installed in the IP phone. |

Phone Status

| Parameter | Description |
|---|---|
| Current Time | Current date and time of the system; for example, 10/3/2003 16:43:00. |
| Elapsed Time | Total time elapsed since the last reboot of the system; for example, 25 days and 18:12:36. |
| Broadcast Pkts Sent | Total number of broadcast packets sent. |
| Broadcast Bytes Sent | Total number of broadcast packets received. |
| Broadcast Pkts Recv | Total number of broadcast bytes sent. |
| Broadcast Bytes Recv | Total number of broadcast bytes received and processed. |
| Broadcast Pkts Dropped | Total number of broadcast packets received but not processed. Most codecs can handle up to 5% random packet drops as long as the packets are random and not in groups of two or more. Concurrent packet drops result in voice quality issues. |
| Broadcast Bytes Dropped | Total number of broadcast bytes received but not processed. |
| RTP Packets Sent | Total number of RTP packets sent (including redundant packets). |
| RTP Bytes Sent | Total number of RTP packets received (including redundant packets). |
| RTP Packets Recv | Total number of RTP bytes sent. |
| RTP Bytes Recv | Total number of RTP bytes received. |
| SIP Messages Sent | Total number of SIP messages sent (including retransmissions). |
| SIP Bytes Sent | Total number of SIP messages received (including retransmissions). |
| SIP Messages Recv | Total number of bytes of SIP messages sent (including retransmissions). |
| SIP Bytes Recv | Total number of bytes of SIP messages received (including retransmissions). |
| External IP | External IP address used for NAT mapping. |
| Operational VLAN ID | ID of the VLAN currently in use if applicable. Note Not applicable to Cisco WIP310. |
| SW Port (Cisco SPA300 Series and Cisco SPA500 Series) | Displays the type of Ethernet connection from the IP phone to the switch. |
| PC Port (Cisco SPA303 and Cisco SPA500 Series) | Indicates whether the link from the IP phone to a device plugged into the PC port on the phone is up or down. |

Ext Status

The following parameters show for each extension on the phone.

| Parameter | Description |
|----------------------|--|
| Registration State | Shows “Registered” if the phone is registered, “Not Registered” if the phone is not registered to the ITSP. |
| Last Registration At | Last date and time the line was registered. |
| Next Registration In | Number of seconds before the next registration renewal. |
| Message Waiting | Indicates whether the phone user has a new voice mail waiting: Yes or No. This is updated when voice mail notification is received. |
| Mapped SIP Port | Port number of the SIP port mapped by NAT. |
| Hoteling State | Indicates the status of the phone with the guest account. This parameter is of 6 types: <ul style="list-style-type: none"> • Disabled: When the parameter, <Enable Broadsoft Hoteling> is set to no. • Unsubscribed: When the parameter, <Enable Broadsoft Hoteling> is set to yes, and the Hoteling State is not subscribed to server. • Associating xxx: When the phone is trying for guest login, where xxx stands for the guest User ID. • Associated xxx: When the guest login is successful on the phone.. • Disassociating: When the phone is trying to disassociate with the guest account. • Disassociated: When the phone has disassociated with the guest account. |

Line/Call Status

The following parameters show for each line and call on the phone.

| Parameter | Description |
|-------------|--|
| Call State | Status of the call. |
| Tone | Type of tone used by the call. |
| Encoder | Codec used for encoding. |
| Decoder | Codec used for decoding. |
| Type | Direction of the call. |
| Remote Hold | Indicates whether the far end has placed the call on hold. |
| Callback | Indicates whether the call was triggered by a call back request. |
| Peer Name | Name of the internal phone. |

| Parameter | Description |
|---------------------------|--|
| Peer Phone | Phone number of the internal phone. |
| Duration | Duration of the call. |
| Packets Sent | Number of packets sent. |
| Packets Recv | Number of packets received. |
| Bytes Sent | Number of bytes sent. |
| Bytes Recv | Number of bytes received. |
| Mapped RTP Port | The port mapped for Real Time Protocol traffic for the call. |
| Media Loopback | If the call is a loopback call, displays the loopback mode (source or mirror) and type (media or packet). If the call is not loopback, the field appears blank. |
| Decode Latency | Number of milliseconds for decoder latency. |
| Jitter | Number of milliseconds for receiver jitter. |
| Round Trip Delay | Number of milliseconds for delay in the RTP-to-RTP interface round trip. |
| End System Delay | Number of milliseconds for delay in the internal round trip within the reporting endpoint. |
| Packets Lost | Number of packets lost. |
| Packet Error | Number of invalid packets received. |
| Loss Rate | The fraction of RTP data packets from the source lost since the beginning of reception. Defined in RFC-3611—RTP Control Protocol Extended Reports (RTCP XR). |
| Discard Rate | The fraction of RTP data packets from the source that have been discarded since the beginning of reception, due to late or early arrival, under-run or overflow at the receiving jitter buffer. Defined in RFC-3611—RTP Control Protocol Extended Reports (RTCP XR). |
| Burst Duration | The mean duration, expressed in milliseconds, of the burst periods that have occurred since the beginning of reception. Defined in RFC-3611—RTP Control Protocol Extended Reports (RTCP XR). |
| Gap Duration | The mean duration, expressed in milliseconds, of the gap periods that have occurred since the beginning of reception. Defined in RFC-3611—RTP Control Protocol Extended Reports (RTCP XR). |
| R Factor | Voice quality metric describing the segment of the call that is carried over this RTP session. Defined in RFC-3611—RTP Control Protocol Extended Reports (RTCP XR). |
| MOS-LQ/MOS Listening | The estimated mean opinion score for listening quality (MOS-LQ) is a voice quality metric on a scale from 1 to 5, in which 5 represents excellent and 1 represents unacceptable. Defined in RFC-3611—RTP Control Protocol Extended Reports (RTCP XR). |
| MOS-CQ/MOS Conversational | The estimated mean opinion score for conversational quality (MOS-CQ) is defined as including the effects of delay and other effects that would affect conversational quality. Defined in RFC-3611—RTP Control Protocol Extended Reports (RTCP XR). |

Downloaded Ring Tone

| Parameter | Description |
|-------------|--|
| Status | Indicates whether the phone is downloading a ring tone (and from where) or if it is idle. |
| Ring Tone 1 | Information about the user downloaded ring tone 1: name, size, and time-stamp of the tone. |
| Ring Tone 2 | Information about the user downloaded ring tone 2: name, size, and time-stamp of the tone. |

Custom CA Status

These fields display the status of provisioning using a custom Certificate Authority (CA).

| Parameter | Description |
|-------------------------------|--|
| Custom CA Provisioning Status | Indicates whether provisioning using a custom CA succeeded or failed: <ul style="list-style-type: none"> Last provisioning succeeded on mm/dd/yyyy HH:MM:SS; or Last provisioning failed on mm/dd/yyyy HH:MM:SS |
| Custom CA Info | Displays information about the custom CA: <ul style="list-style-type: none"> Installed—Displays the “CN Value,” where “CN Value” is the value of the CN parameter for the Subject field in the first certificate. Not Installed—Displays if no custom CA certificate is installed. |

Custom CA certificates are configured in the Provisioning tab. For more information about custom CA certificates, see the *Cisco Small Business IP Telephony Devices Provisioning Guide*.

System Tab

System Configuration

| Parameter | Description |
|---------------------------------|--|
| Restricted Access Domains (SIP) | This feature is used when implementing software customization. |
| Enable Web Server | Enable/disable web server of the IP phone. Defaults to yes. |

| Parameter | Description |
|--|---|
| Web Server Port | Port number of the phone web user interface. Defaults to 80. |
| SPA525-http-write (Cisco SPA525G or Cisco SPA525G2 SPCP only) | Allow Cisco Configuration Assistant (CCA) or other application to write XML file parameters directly to the phone using HTTP. Choose yes to allow this feature, or no to disable this feature. |
| Enable Web Admin Access | Lets you enable or disable local access to the phone web user interface. Select yes or no from the drop-down menu. Defaults to yes . |
| Admin Passwd | Password for the administrator. Defaults to no password. |
| User Password | Password for the user. Defaults to no password. |
| User Web Password | Eliminates the user requirement for daily password entry on the LCD GUI to use the basic functions. Basic functions include CFwd, Directory, Redial, and Corporate Directory. The options are No and Yes: <ul style="list-style-type: none"> • If the User Password field is not empty, using this field restricts user access through the web interface and LCD GUI. • If the User Password field is empty, no password is required to access the LCD GUI. However, the user must enter a password to access the web interface. This is the User Web Password parameter that was set earlier. Default value is empty. Note This field is supported in Firmware Release 7.6.2 and later. |
| SPA525-protocol (Cisco SPA525G or Cisco SPA525G2 only) | Allows you to choose the type of protocol for the phone: <ul style="list-style-type: none"> • SIP—Session Initiation Protocol. Choose if the phone is used with a SIP call control system, such as the Cisco SPA9000 or a SIP call control system from another provider such as BroadSoft or Asterisk. • SPCP—Smart Phone Control Protocol. Choose if the phone is used with a Cisco Unified Communications Series server, such as the Cisco Unified Communications 500 Series for Small Business. |
| SPA525-auto-detect-sccp (Cisco SPA525G or Cisco SPA525G2 only) | Choose if the phone should automatically detect the type of protocol used on the network to which it is connected. If set to yes , the phone automatically discovers if it is connected to a call control system using SPCP. |
| SPA525-readonly (Cisco SPA525G or Cisco SPA525G2 only) | If set to yes , the Signaling Protocol and Auto Detect SCCP Settings on the phone are read only. If set to no , the above settings on the phone can be changed by the end user. |

| Parameter | Description |
|--|--|
| Phone-UI-user-mode | <p>Allows you to restrict the menus and options that phone users see when they use the phone interface. Choose yes to enable this parameter and restrict access. The default is no.</p> <p>Specific parameters are then designated as “na” or “ro” using provisioning files. Parameters designated as “na” will not appear on the phone interface. Parameters designated as “ro” will not be editable by the user.</p> <p>Note For the SPA525 phones, both the parameters, na and ro, work in a similar fashion.</p> |
| WiFi User Access Mode (Cisco SPA525G or Cisco SPA525G2 only) | <p>Setting the parameter to yes allows a user to view and configure Wi-Fi settings, even if the user cannot change other phone parameters because the Phone-UI-user-mode parameter is set to yes.</p> <p>If set to no, users cannot view and configure WiFi settings if the Phone-UI-user-mode parameter is set to yes.</p> |

Power Settings

| Parameter | Description |
|--------------------|---|
| PoE Power Required | <p>Specifies the PoE power setting: Normal (default) or Maximum.</p> <p>When one or more attendant consoles are attached to the phone, use Maximum to advertise to a PoE switch that the phone will consume up to 12 watts.</p> <p>When no attendant consoles are attached, use Minimum to advertise a required power budget of 6.5 watts.</p> <p>This parameter is not applicable to Cisco SPA301 or SPA303 as they do not have Cisco Attendant Console support.</p> |

Internet Connection Type

| Parameter | Description |
|--|---|
| Connection Type | Choose the type of internet connection: <ul style="list-style-type: none"> • DHCP • Static IP • PPPoE (not applicable to Cisco WIP310) |
| Use Backup IP (Cisco SPA 30X and Cisco SPA5XX only) | When this field is set to yes , the IP phone does not renew its IP address when the DHCP server is not reachable during the phone's startup sequence, but uses the last-known IP address. If set to no , the phone keeps retrying the DHCP server to obtain a new IP address. This field is set to yes by default. |

Static IP Settings

| Parameter | Description |
|---|--|
| Static IP | If static IP was chosen as the type of internet connection, displays the static IP address assigned to the phone. |
| Netmask | If static IP was chosen as the type |
| Gateway | Default router IP address. Blank if DHCP assigned. |
| LAN MTU (Cisco SPA525G or Cisco SPA525G2 SIP mode only) | LAN Maximum Transmission Unit size. Default value: 1500. |
| Ethernet MTU (Cisco SPA525G or Cisco SPA525G2 SPCP mode only) | Ethernet Maximum Transmission Unit size. Default value: 1500. |
| Duplex Mode (Cisco SPA525G or Cisco SPA525G2 SPCP mode only) | Duplex Mode—Choose one of the following to configure the speed/duplex for the phone Ethernet ports: <ul style="list-style-type: none"> • Auto • 10Mbps/Duplex • 10Mbps/Half • 100Mbps/Duplex • 100Mbps/Half |

PPPoE Settings (Cisco SPA525G or Cisco SPA525G2 Only)

| Parameter | Description |
|----------------------|--|
| PPPoE Login Name | Specifies the account name assigned by the ISP for connecting on a Point-to-Point Protocol over Ethernet (PPPoE) link. |
| PPPoE Login Password | Specifies the password assigned by the ISP for connecting on a Point-to-Point Protocol over Ethernet (PPPoE) link. |
| PPPoE Service Name | Specifies the service name assigned by the ISP for connecting on a Point-to-Point Protocol over Ethernet (PPPoE) link. |

Optional Network Configuration

| Parameter | Description |
|--|--|
| Host Name | The host name of the SPA9000. |
| Domain | The network domain of the SPA9000. |
| Primary DNS | DNS server used by SPA9000 in addition to DHCP supplied DNS servers if DHCP is enabled; when DHCP is disabled, this is the primary DNS server. Defaults to 0.0.0.0. |
| Secondary DNS | DNS server used by SPA9000 in addition to DHCP supplied DNS servers if DHCP is enabled; when DHCP is disabled, this is the secondary DNS server. Defaults to 0.0.0.0. |
| DNS Server Order | Specifies the method for selecting the DNS server. The options are Manual, Manual/DHCP, and DHCP/Manual. |
| DNS Query Mode | Do parallel or sequential DNS Query. With parallel DNS query mode, the SPA9000 sends the same request to all the DNS servers at the same time when doing a DNS lookup, the first incoming reply is accepted by the SPA9000. Defaults to parallel. |
| DNS Query TTL Ignore (Not applicable to Cisco SPA525G or Cisco SPA525G2.) | If enabled, the phone continues to use the previous cached DNS result if the DNS server does not respond when the phone tries to renew its DNS query. When disabled, the phone uses the previous TTL value and clears the DNS query result cache. |
| Syslog Server | Specify the syslog server name and port. This feature specifies the server for logging IP phone system information and critical events. If both Debug Server and Syslog Server are specified, Syslog messages are also logged to the Debug Server. |
| Debug Server | The debug server name and port. This feature specifies the server for logging IP phone debug information. The level of detailed output depends on the debug level parameter setting. |

| Parameter | Description |
|---|---|
| Debug Level | The debug level from 0-3. The higher the level, the more debug information is generated. Zero (0) means no debug information is generated. To log SIP messages, you must set the Debug Level to at least 2. Defaults to 0. |
| Layer 2 Logging | Used for IP phone network layer debugging purposes. Do not use except when advised to do so by Cisco technical support, as this may impact system performance. Set to no by default. |
| Primary NTP Server | IP address or name of primary NTP server. |
| Secondary NTP Server | IP address or name of secondary NTP server. |
| Enable Bonjour (Cisco SPA525G or Cisco SPA525G2 only) | Enable Bonjour networking that is used by Office Manager and Cisco Configuration Assistant to discover the Cisco IP phones. Choose yes to enable or no to disable. |
| Enable SSLv3 | Choose Yes to enable SSLv3. Choose no to disable. Defaults to NO. |

VLAN Settings

Not applicable to the Cisco WIP310.

| Parameter | Description |
|-------------------------------|--|
| Enable VLAN | Choose Yes to enable VLAN. Choose no to disable. |
| VLAN ID | If you use a VLAN without CDP (VLAN enabled and CDP disabled), enter a <i>VLAN ID</i> for the IP phone. Note that only voice packets are tagged with the VLAN ID. Do not use 1 for the VLAN ID. |
| Enable PC Port VLAN Tagging | Enables VLAN and priority tagging on the phone data port (802.1p/q). This feature facilitates tagging of the VLAN ID (802.1Q) and priority bits (802.1p) of the traffic coming from the PC port of the IP phone. Defaults to No. Choose Yes to enable the tagging algorithm. |
| PC Port VLAN Highest Priority | 0-7 (default 0). The priority applied to all frames, tagged and untagged. The phone modifies the frame priority only if the incoming frame priority is higher than this value. |
| PC Port VLAN ID | 0-4095 (default 0). Value of the VLAN ID. The phone tags all the untagged frames coming from the PC (it will not tag frames with an existing tag). |
| Enable CDP | Enable CDP only if you are using a switch that has Cisco Discovery Protocol. CDP is negotiation based and determines which VLAN the IP phone resides in. |

| Parameter | Description |
|-----------------------|---|
| Enable LLDP-MED | Choose yes to enable LLDP-MED for the phone to advertise itself to devices that use that discovery protocol. When the LLDP-MED feature is enabled, after the phone has initialized and Layer 2 connectivity is established, the phone sends out LLDP-MED PDU frames. If the phone receives no acknowledgment, the manually configured VLAN or default VLAN will be used if applicable. If the CDP is used concurrently, the waiting period of 6 seconds is used. The waiting period will increase the overall startup time for the phone. |
| Network Startup Delay | Setting this value causes a delay for the switch to get to the forwarding state before the phone will send out the first LLDP-MED packet. The default delay is 3 seconds. For configuration of some switches, you might need to increase this value to a higher value for LLDP-MED to work. Configuring a delay can be important for networks that use Spanning Tree Protocol. |

Wi-Fi Settings (Cisco SPA525G or Cisco SPA525G2 Only)

| Parameter | Description |
|----------------|--|
| SPA525-wifi-on | Set to yes to enable Wireless-G service. |

Bluetooth Settings (Cisco SPA525G or Cisco SPA525G2 Only)

| Parameter | Description |
|-----------|---|
| Enable BT | Set to yes to enable support for Bluetooth devices. |

VPN Settings (Cisco SPA525G or Cisco SPA525G2 Only)

| Parameter | Description |
|-------------------|---|
| VPN Server | The IP address of the VPN server to which the phone connects. |
| VPN User Name | Username configured on the VPN server for the phone. |
| VPN Password | Password associated with the username configured on the VPN for the phone. |
| VPN Tunnel Group | (Optional) The tunnel group, if required by the VPN server. |
| Connect on Bootup | If the phone should attempt to connect to the VPN each time it is powered on. Choose yes to have the phone try to automatically connect, or no to keep the default behavior. |

Inventory Settings

| Parameter | Description |
|-----------|--|
| Asset ID | <p>Provides the ability to enter an asset ID for inventory management when using LLDP-MED. The default value for Asset ID is empty. Enter a string of less than 32 characters if you are using this field.</p> <p>The Asset ID can be provisioned only by using the web management interface or remote provisioning. The Asset ID is not displayed on the phone screen.</p> <p>Changing the Asset ID field causes the phone to reboot.</p> |

SIP Tab

This section describes the fields for the SIP tab.

SIP Parameters

| Parameter | Description |
|-------------------------|---|
| Max Forward | SIP Max Forward value, which can range from 1 to 255. Defaults to 70. |
| Max Redirection | Number of times an invite can be redirected to avoid an infinite loop. Defaults to 5. |
| Max Auth | Maximum number of times (from 0 to 255) a request may be challenged. Defaults to 2. |
| SIP User Agent Name | Used in outbound REGISTER requests. Defaults to \$VERSION. If empty, the header is not included. Macro expansion of \$A to \$D corresponding to GPP_A to GPP_D allowed. |
| SIP Server Name | Server header used in responses to inbound responses. Defaults to \$VERSION. |
| SIP Reg User Agent Name | User-Agent name to be used in a REGISTER request. If this is not specified, the <SIP User Agent Name> is also used for the REGISTER request. Defaults to blank. |
| SIP Accept Language | Accept-Language header used. To access, click the SIP tab, and fill in the SIP Accept Language field. There is no default (this indicates SPA9000 does not include this header). If empty, the header is not included. |

| Parameter | Description |
|--------------------------|---|
| DTMF Relay MIME Type | MIME Type used in a SIP INFO message to signal a DTMF event. This field must match that of the Service Provider. Defaults to application/dtmf-relay. |
| Hook Flash MIME Type | MIME Type used in a SIP INFO message to signal a hook flash event. The default is application/hook-flash. |
| Remove Last Reg | Lets you remove the last registration before registering a new one if the value is different. Select yes or no from the drop-down menu. Defaults to no. |
| Use Compact Header | Lets you use compact SIP headers in outbound SIP messages. Select yes or no from the drop-down menu. If set to yes, the phone uses compact SIP headers in outbound SIP messages. If set to no, the phone uses normal SIP headers. If inbound SIP requests contain compact headers, the phone reuses the same compact headers when generating the response regardless the settings of the <Use Compact Header> parameter. If inbound SIP requests contain normal headers, the phone substitutes those headers with compact headers (if defined by RFC-261) if <Use Compact Header> parameter is set to yes. Default: no |
| Escape Display Name | Lets you keep the Display Name private. Select yes if you want the IP phone to enclose the string (configured in the Display Name) in a pair of double quotes for outbound SIP messages. Any occurrences of or \ in the string is escaped with \ and \\ inside the pair of double quotes. Otherwise, select no. Defaults to yes. |
| Escape Special Character | Normally, the IP phone sends a “%23” (escape) as part of the message when the special character # is included in the SIP INVITE message. This can cause problems with some telephony servers that need to receive the # character. When this parameter is set to yes , the phone sends a “%23” (escape) as part of the message when the # is included. When set to no , the # is sent directly and the escape (%23) is not used. Defaults to yes. |
| SIP-B Enable | Enables SIP for Business (supports Sylanro call flows) call features. |
| Talk Package | Enables support for the BroadSoft Talk Package, which enables a user to answer or resume a call by clicking a button in an external application. |
| Hold Package | Enables support for the BroadSoft Hold Package, which enables a user to place a call on hold by clicking a button in an external application. |
| Conference Package | Enables support for the BroadSoft Conference Package, which enables a user to start a conference by clicking a button in an external application. |

| Parameter | Description |
|--------------------------|---|
| Notify Conference | If enabled, the unit will send out a NOTIFY with event=conference when starting a conference. |
| RFC 2543 Call Hold | If set to yes, unit will include c=0.0.0.0 syntax in SDP when sending a SIP re-INVITE to the peer to hold the call. If set to no, unit will not include the c=0.0.0.0 syntax in the SDP. The unit will always include a=sendonly syntax in the SDP in either case. Defaults to yes. |
| Random REG CID On Reboot | If set to yes, the Cisco IP phone uses a different random call-ID for registration after the next software reboot. If set to no, the Cisco IP phone tries to use the same call-ID for registration after the next software reboot. The Cisco IP phone always uses a new random Call-ID for registration after a power-cycle, regardless of this setting. Defaults to no. |
| Mark All AVT packets | If set to yes, all audio video transport (AVT) tone packets (encoded for redundancy) have the marker bit set. If set to no, only the first packet has the marker bit set for each DTMF event. Defaults to yes. |
| SIP TCP Port Min | Specifies the lowest TCP port number that can be used for SIP sessions. Defaults to 5060. |
| SIP TCP Port Max | Specifies the highest TCP port number that can be used for SIP sessions. Defaults to 5080. |
| CTI Enable | The CTI interface allows a third-party application to control and monitor the state of a phone that has registered with the Cisco SPA9000. With this interface, an application can control a phone to initiate an outgoing call or answer an incoming call with a mouse click from a PC. |
| Caller ID Header | Provides the option to take the caller ID from PAID-RPID-FROM, P-ASSERTEDIDENTITY, REMOTE-PARTY-ID, or FROM header. |
| SRTP Method | Selects the method to use for SRTP. Two choices are available: <ul style="list-style-type: none"> x-sipura—legacy SRPT method s-descriptor—new method compliant with RFC-3711 and RFC-4568 The default value is "x-sipura." Note Not applicable to Cisco WIP310. |
| Hold Target Before REFER | Controls whether to hold call leg with transfer target before sending REFER to the transferee when initiating a fully-attended call transfer (where the transfer target has answered). Default value is "no," where the call leg is not held. Note Not applicable to Cisco WIP310. |
| Dialog SDP Enable | When enabled and the Notify message body is too big causing fragmentation, the Notify message xml dialog is simplified; Session Description Protocol (SDP) is not included in the dialog xml content. |

| Parameter | Description |
|--------------------------------|---|
| Keep Referee When REFER Failed | <p>Set this parameter to yes to configure the phone to immediately handle NOTIFY sipfrag messages.</p> <p>You can also configure this parameter in the configuration file:</p> <pre><Keep_Referee_When_REFER_Failed ua="na">Yes </Keep_Referee_When_REFER_Failed></pre> |
| Display Diversion Info | <p>Set to yes to cause the IP phone to parse and display the Diversion header in the incoming INVITE messages. The phone displays the information from the first Diversion header; if there are multiple Diversion headers, the others are ignored. The Diversion header follows the definition from RFC 5806. For example, for this diversion header in the INVITE messages:</p> <pre>Diversion: <sip:WeSellFlowers@p4.isp.com>;reason=time-of-day</pre> <p>The screen should display:</p> <pre>From xxx 12345678 Via: WeSellFlowers.</pre> <p>The reason field in the header is ignored. If the header field is not properly formed, Diversion header (all) will be ignored. If the privacy field is not set or is set to <i>off</i>, only the URI is displayed due to screen size limitation. If the privacy field is set to <i>full</i>, “anonymous” is displayed. If the privacy field is set to <i>name</i>, only the display name is displayed.</p> |
| Display Anonymous From Header | <p>Set to yes to show the caller ID from the SIP INVITE message “From” header, even if the call is an anonymous call. When the parameter is set to no, the phone displays "Anonymous Caller" as the caller ID.</p> |
| Disable Local Name To Header | <p>The options are No and Yes:</p> <ul style="list-style-type: none"> • If No is selected, no changes are made. The default value is No. • If Yes is selected, the following happens: <ul style="list-style-type: none"> – Disables the display name in “Directory” and “Call History” in the “To” header during an outgoing call. – Ignores the CLID in the “UPDATE” message. – Redial list is populated based on 18x or 200 OK PAID header with or without Display Name. <p>Note This field is supported in Firmware Release 7.6.2 and later.</p> |

| Parameter | Description |
|---------------------------------------|--|
| Reg Retry Long Intvl (See note below) | When registration fails with a SIP response code that does not match <Retry Reg RSC>, the SPA9000 waits for the specified length of time before retrying. If this interval is 0, the SPA9000 stops trying. This value should be much larger than the Reg Retry Intvl value, which should not be 0. Defaults to 1200. |
| Reg Retry Random Delay | Random delay range (in seconds) to add to <Register Retry Intvl> when retrying REGISTER after a failure. This feature was added in Release 5.1. Defaults to blank, which disables this feature. |
| Reg Retry Long Random Delay | Random delay range (in seconds) to add to <Register Retry Long Intvl> when retrying REGISTER after a failure. This feature was added in Release 5.1. Defaults to blank, which disables this feature. |
| Reg Retry Intvl Cap | The maximum value to cap the exponential back-off retry delay (which starts at <Register Retry Intvl> and doubles on every REGISTER retry after a failure). In other words, the retry interval is always at <Register Retry Intvl> seconds after a failure. If this feature is enabled, <Reg Retry Random Delay> is added on top of the exponential back-off adjusted delay value. This feature was added in Release 5.1. Defaults to blank, which disables the exponential back-off feature. |
| Sub Min Expires | This value sets the lower limit of the REGISTER expires value returned from the Proxy server. |
| Sub Max Expires | This value sets the upper limit of the REGISTER min-expires value returned from the Proxy server in the Min-Expires header. Defaults to 7200. |
| Sub Retry Intvl | This value (in seconds) determines the retry interval when the last Subscribe request fails. Defaults to 10. |

**Note**

Cisco IP phones can use a RETRY-AFTER value when received from a SIP proxy server that is too busy to process a request (503 Service Unavailable message). If the response message includes a RETRY-AFTER header, the phone waits for the specified length of time before retrying to REGISTER again. If a RETRY-AFTER header is not present, the phone waits for the value specified in the *Reg Retry Interval* or the *Reg Retry Long Interval* parameter.

Response Status Code Handling

| Parameter | Description |
|----------------|---|
| SIT1 RSC | SIP response status code for the appropriate Special Information Tone (SIT). For example, if you set the SIT1 RSC to 404, when the user makes a call and a failure code of 404 is returned, the SIT1 tone is played. Reorder or Busy Tone is played by default for all unsuccessful response status code for SIT 1 RSC through SIT 4 RSC. Defaults to blank. |
| SIT2 RSC | SIP response status code to INVITE on which to play the SIT2 Tone. Defaults to blank. |
| SIT3 RSC | SIP response status code to INVITE on which to play the SIT3 Tone. Defaults to blank. |
| SIT4 RSC | SIP response status code to INVITE on which to play the SIT4 Tone. Defaults to blank. |
| Try Backup RSC | This parameter may be set to invoke failover upon receiving specified response codes. Defaults to blank. |
| Retry Reg RSC | Interval to wait before the SPA9000 retries registration after failing during the last registration. Defaults to blank. |

RTP Parameters

| Parameter | Description |
|-----------------|---|
| RTP Port Min | Minimum port number for RTP transmission and reception. Minimum port number for RTP transmission and reception. Should define a range that contains at least 10 even number ports (twice the number of lines); for example, configure RTP port min to 16384 and RTP port max to 16402. Defaults to 16384. |
| RTP Port Max | Maximum port number for RTP transmission and reception. Should define a range that contains at least 10 even number ports (twice the number of lines); for example, configure RTP port min to 16384 and RTP port max to 16402. Defaults to 16482. |
| RTP Packet Size | Packet size in seconds, which can range from 0.01 to 0.16. Valid values must be a multiple of 0.01 seconds. Defaults to 0.030. |

| Parameter | Description |
|------------------|---|
| Max RTP ICMP Err | <p>Number of successive ICMP errors allowed when transmitting RTP packets to the peer before the SPA9000 terminates the call. If value is set to 0, the SPA9000 ignores the limit on ICMP errors.</p> <p>Defaults to 0.</p> |
| RTCP Tx Interval | <p>Interval for sending out RTCP sender reports on an active connection. It can range from 0 to 255 seconds. During an active connection, the SPA9000 can be programmed to send out compound RTCP packet on the connection. Each compound RTP packet except the last one contains a SR (Sender Report) and a SDES (Source Description). The last RTCP packet contains an additional BYE packet. Each SR except the last one contains exactly 1 RR (Receiver Report); the last SR carries no RR. The SDES contains CNAME, NAME, and TOOL identifiers. The CNAME is set to <User ID>@<Proxy>, NAME is set to <Display Name> (or Anonymous if user blocks caller ID), and TOOL is set to the Vendor/Hardware-platform-software-version (such as Cisco/SPA9000-1.0.31(b)). The NTP timestamp used in the SR is a snapshot of the SPA9000 local time, not the time reported by an NTP server. If the SPA9000 receives a RR from the peer, it attempts to compute the round trip delay and show it as the <Call Round Trip Delay> value (ms) in the Info section of SPA9000 web page.</p> <p>Defaults to 0.</p> |
| No UDP Checksum | <p>Select yes if you want the SPA9000 to calculate the UDP header checksum for SIP messages. Otherwise, select no.</p> <p>Defaults to no.</p> |
| Symmetric RTP | <p>Enable symmetric RTP operation. If enabled, sends RTP packets to the source address and port of the last received valid inbound RTP packet. If disabled (or before the first RTP packet arrives) sends RTP to the destination as indicated in the inbound SDP.</p> <p>Defaults to no.</p> |
| Stats In BYE | <p>Determines whether the IP phone includes the P-RTP-Stat header or response to a BYE message. The header contains the RTP statistics of the current call. Select yes or no from the drop-down menu. The format of the P-RTP-Stat header is:</p> <p>P-RTP-State: PS=<packets sent>,OS=<octets sent>,PR=<packets received>,OR=<octets received>,PL=<packets lost>,JI=<jitter in ms>,LA=<delay in ms>,DU=<call duration in s>,EN=<encoder>,DE=<decoder>.</p> <p>Defaults to no.</p> |

SDP Payload Types

The configured dynamic payloads are used for outbound calls only where the Cisco SPA9000 presents the SDP offer. For inbound calls with a SDP offer, the Cisco SPA9000 follows the caller dynamic payload type assignments.

The Cisco SPA9000 uses the configured codec names in its outbound SDP. The SPA9000 ignores the codec names in incoming SDP for standard payload types (0-95). For dynamic payload types, the Cisco SPA9000 identifies the codec by the configured codec names. Comparison is case-insensitive.

| Parameter | Description |
|----------------------------|--|
| AVT Dynamic Payload | AVT dynamic payload type. Ranges from 96-127. Defaults to 101. |
| INFOREQ Dynamic Payload | INFOREQ dynamic payload type. Defaults to blank. |
| G726r16 Dynamic Payload | G.726-16 dynamic payload type. Ranges from 96-127. Defaults to 98. Note Not applicable to Cisco SPA525G or Cisco SPA525G2 or Cisco WIP310. |
| G726r24 Dynamic Payload | G.726-24 dynamic payload type. Ranges from 96-127. Defaults to 97. Note Not applicable to Cisco SPA525G or Cisco SPA525G2 or Cisco WIP310. |
| G726r32 Dynamic Payload | G726r32 dynamic payload type. The default is 2. |
| G726r40 Dynamic Payload | G.726-40 dynamic payload type. Ranges from 96-127. Defaults to 96. Note Not applicable to Cisco SPA525G or Cisco SPA525G2 or Cisco WIP310. |
| G729b Dynamic Payload | G729b Dynamic Payload type. Defaults to 99. |
| EncapRTP Dynamic Payload | EncapRTP Dynamic Payload type. Defaults to 112. |
| RTP-Start-Loopback Dynamic | RTP-Start-Loopback Dynamic Payload. Defaults to 113. |
| RTP-Start-Loopback Codec | RTP-Start-Loopback Codec. Select one of following: G711u, G711a, G726-16, G726-24, G726-32, G726-40, G729a, or G723. Cisco SPA525G or Cisco SPA525G2: G711u, G711a, G726-32, G729a, G722. Defaults to G711u. |
| AVT Codec Name | AVT codec name used in SDP. Defaults to telephone-event. |

| Parameter | Description |
|---------------------|--|
| G711u Codec Name | G.711u codec name used in SDP. Defaults to PCMU. |
| G711a Codec Name | G.711a codec name used in SDP. Defaults to PCMA. |
| G726r16 Codec Name | G.726-16 codec name used in SDP. Defaults to G726-16. Note Not applicable to Cisco SPA525G or Cisco SPA525G2 or Cisco WIP310. |
| G726r24 Codec Name | G.726-24 codec name used in SDP. Defaults to G726-24. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |
| G726r32 Codec Name | G.726-32 codec name used in SDP. Defaults to G726-32. |
| G726r40 Codec Name | G.726-40 codec name used in SDP. Defaults to G726-40. Note Not applicable to Cisco SPA525G or Cisco SPA525G2 or Cisco WIP310. |
| G729a Codec Name | G.729a codec name used in SDP. Defaults to G729a. |
| G729b Codec Name | G.729b codec name used in SDP. Defaults to G729ab. |
| G722 Codec Name | G.722 codec name used in SDP. Defaults to G722. Note Not supported on the Cisco WIP310. |
| EncapRTP Codec Name | EncapRTP codec name used in SDP. Defaults to encaprtp. |

NAT Support Parameters

| Parameter | Description |
|-----------------------|--|
| Handle VIA received | If you select yes, the phone processes the received parameter in the VIA header (this is inserted by the server in a response to any of its requests). If you select no, the parameter is ignored. Select yes or no from the drop-down menu. Defaults to no. |
| Handle VIA rport | If you select yes, the SPA9000 processes the rport parameter in the VIA header (this is inserted by the server in a response to any of its requests). If you select no, the parameter is ignored. Select yes or no from the drop-down menu. Defaults to no. |
| Insert VIA received | Inserts the received parameter into the VIA header of SIP responses if the received-from IP and VIA sent-by IP values differ. Select yes or no from the drop-down menu. Defaults to no. |
| Insert VIA rport | Inserts the rport parameter into the VIA header of SIP responses if the received-from IP and VIA sent-by IP values differ. Select yes or no from the drop-down menu. Defaults to no. |
| Substitute VIA Addr | Lets you use NAT-mapped IP:port values in the VIA header. Select yes or no from the drop-down menu. Defaults to no. |
| Send Resp To Src Port | Sends responses to the request source port instead of the VIA sent-by port. Select yes or no from the drop-down menu. Defaults to no. |
| STUN Enable | Enables the use of STUN to discover NAT mapping. Select yes or no from the drop-down menu. Defaults to no. |
| STUN Test Enable | If the STUN Enable feature is enabled and a valid STUN server is available, the SPA9000 can perform a NAT-type discovery operation when it powers on. It contacts the configured STUN server, and the result of the discovery is reported in a Warning header in all subsequent REGISTER requests. If the SPA9000 detects symmetric NAT or a symmetric firewall, NAT mapping is disabled. Defaults to no. |
| STUN Server | IP address or fully-qualified domain name of the STUN server to contact for NAT mapping discovery. You can use a public STUN server or set up your own STUN server. |

| Parameter | Description |
|----------------------|--|
| EXT IP | <p>External IP address to substitute for the actual IP address of the SPA9000 in all outgoing SIP messages. If 0.0.0.0 is specified, no IP address substitution is performed.</p> <p>If this parameter is specified, the SPA9000 assumes this IP address when generating SIP messages and SDP (if NAT Mapping is enabled for that line). However, the results of STUN and VIA received parameter processing, if available, supersede this statically configured value.</p> <p>Defaults to blank.</p> |
| EXT RTP Port Min | <p>External port mapping number of the RTP Port Min. number. If this value is not zero, the RTP port number in all outgoing SIP messages is substituted for the corresponding port value in the external RTP port range.</p> <p>Defaults to blank.</p> |
| NAT Keep Alive Intvl | <p>Interval between NAT-mapping keep alive messages.</p> <p>Defaults to 15.</p> |
| Redirect Keep Alive | <p>If enabled, the IP phone redirects the keepalive message when SIP_301_MOVED_PERMANENTLY is received as the registration response.</p> |

Linksys Key System Parameters

| Parameter | Description |
|--------------------------------|---|
| Linksys Key System | <p>Enable or disable the Linksys Key System on the IP phone.</p> <p>Defaults to yes.</p> |
| Multicast Address | <p>The multicast address is used by the Cisco SPA9000 to communicate with the Cisco SPA IP phones.</p> <p>Defaults to 224.168.168.168:6061.</p> |
| Key System Auto Discovery | <p>Enables or disables auto discovery of the call control server (for example, the Cisco SPA9000). Disable this feature for teleworkers or other scenarios where multicast does not work.</p> |
| Key System IP Address | <p>IP address of the call control server IP. Enter the IP address for teleworkers or other scenarios where multicast does not work.</p> |
| Force LAN Codec | <p>The choices are: none, G.711u, or G.711a. Defaults to none.</p> |
| Auto Ans GrPage On Active Call | <p>Used with the Cisco UC320. Allows you to enable or disable “auto answer” of a group page when there is an active call on the phone. When set to yes (the default), a group page is automatically answered by the phone even if the user is on an active call. When set to no, the page is not automatically answered, and the user can decide to answer the page or stay on the active call.</p> |

Provisioning Tab

For information about the Provisioning page, see the *Cisco Small Business IP Telephony Devices Provisioning Guide*.

Regional Tab

This section describes the fields for the Regional tab.

Call Progress Tone Description

| Parameter | Description |
|--|---|
| Dial Tone | Prompts the user to enter a phone number. Defaults to 350@-19,440@-19;10(*0/1+2). |
| Bluetooth Dial Tone (Cisco SPA525G or Cisco SPA525G2 only) | Indicates a bluetooth headset is paired and the user can make a call. Defaults to 350@-19,440@-19;1(0*/0);10(*0/1+2). |
| Outside Dial Tone | Alternative to the Dial Tone. It prompts the user to enter an external phone number, as opposed to an internal extension. It is triggered by a, (comma) character encountered in the dial plan. Defaults to 420@-16;10(*0/1). |
| Prompt Tone | Prompts the user to enter a call forwarding phone number. Defaults to 520@-19,620@-19;10(*0/1+2). |
| Busy Tone | Played when a 486 RSC is received for an outbound call. Defaults to 480@-19,620@-19;10(.5/.5/1+2). |
| Reorder Tone | Played when an outbound call has failed or after the far end hangs up during an established call. Reorder Tone is played automatically when <Dial Tone> or any of its alternatives times out. Defaults to 480@-19,620@-19;10(.25/.25/1+2). |
| Off Hook Warning Tone | Played when the caller has not properly placed the handset on the cradle. Off Hook Warning Tone is played when Reorder Tone times out. Defaults to 480@10,620@0;10(.125/.125/1+2). |
| Ring Back Tone | Played during an outbound call when the far end is ringing. Defaults to 440@-19,480@-19;*(2/4/1+2). |
| Call Waiting Tone | Played when a call is waiting. Defaults to 440@-10;30(.3/9.7/1) |
| Confirm Tone | Brief tone to notify the user that the last input value has been accepted. Defaults to 600@-16; 1(.25/.25/1). |

| Parameter | Description |
|-----------------------------|--|
| SIT1 Tone | Alternative to the Reorder Tone played when an error occurs as a caller makes an outbound call. The RSC to trigger this tone is configurable on the IP phone screen. Defaults to 985@-16,1428@-16,1777@-16;20(.380/0/1,.380/0/2,.380/0/3,0/4/0). |
| SIT2 Tone | Alternative to the Reorder Tone played when an error occurs as a caller makes an outbound call. The RSC to trigger this tone is configurable on the IP phone screen. Defaults to 914@-16,1371@-16,1777@-16;20(.274/0/1,.274/0/2,.380/0/3,0/4/0). |
| SIT3 Tone | Alternative to the Reorder Tone played when an error occurs as a caller makes an outbound call. The RSC to trigger this tone is configurable on the IP phone screen. Defaults to 914@-16,1371@-16,1777@-16;20(.380/0/1,.380/0/2,.380/0/3,0/4/0) |
| SIT4 Tone | This is an alternative to the Reorder Tone played when an error occurs as a caller makes an outbound call. The RSC to trigger this tone is configurable on the IP phone screen. Defaults to 985@-16,1371@-16,1777@-16;20(.380/0/1,.274/0/2,.380/0/3,0/4/0). |
| MWI Dial Tone | Played instead of the Dial Tone when there are unheard messages in the caller's mailbox. Defaults to 350@-19,440@-19;2(.1/1/1+2);10(*0/1+2). |
| Cfwd Dial Tone | Played when all calls are forwarded. Defaults to 350@-19,440@-19;2(.2/2/1+2);10(*0/1+2). |
| Holding Tone | Informs the local caller that the far end has placed the call on hold. Defaults to 600@-19*(.1/1/1,.1/1/1,.1/9.5/1). |
| Conference Tone | Played to all parties when a three-way conference call is in progress. Defaults to 350@-19;20(.1/1/1,.1/9.7/1). |
| Secure Call Indication Tone | Played when a call has been successfully switched to secure mode. It should be played only for a short while (less than 30 seconds) and at a reduced level (less than -19 dBm) so it does not interfere with the conversation. Defaults to 397@-19,507@-19;15(0/2/0,.2/1/1,.1/2.1/2). |
| Page Tone | Specifies the tone transmitted when the paging feature is enabled. Defaults to 600@-16;.3(.05/0.05/1). |
| Alert Tone | Played when an alert occurs. Defaults to 600@-19;.2(.05/0.05/1). |

| Parameter | Description |
|------------------|---|
| System Beep | Audible notification tone played when a system error occurs. Defaults to 600@-16;.1(.05/0.05/1). Note Applies to Cisco SPA525G or Cisco SPA525G2 or Cisco WIP310 only. |
| Call Pickup Tone | This field provides the ability to configure an audio indication for call pickup. The call pickup tone is the tone to play when the BLF button is configured and there is an incoming alert on the button. The default value for this parameter is 440@-10;30(.3/9.7/1), which is the same as the call waiting tone. This feature appears as follows in the phone configuration file: <pre><Call_Pickup_Tone ua="na">440@-10;30(.3/9.7/1)</Call_Pickup_Tone></pre> |

Distinctive Ring Patterns

| Parameter | Description |
|-----------|---|
| Cadence 1 | Cadence script for distinctive ring 1. Defaults to 60(2/4). |
| Cadence 2 | Cadence script for distinctive ring 2. Defaults to 60(.3/.2, 1/.2,.3/4). |
| Cadence 3 | Cadence script for distinctive ring 3. Defaults to 60(.8/.4,.8/4). |
| Cadence 4 | Cadence script for distinctive ring 4. Defaults to 60(.4/.2,.3/.2,.8/4). |
| Cadence 5 | Cadence script for distinctive ring 5. Defaults to 60(.2/.2,.2/.2,.2/.2,1/4) |
| Cadence 6 | Cadence script for distinctive ring 6. Defaults to 60(.2/.4,.2/.4,.2/4). |
| Cadence 7 | Cadence script for distinctive ring 7. Defaults to 60(4.5/4). |
| Cadence 8 | Cadence script for distinctive ring 8. Defaults to 60(0.25/9.75) |
| Cadence 9 | Cadence script for distinctive ring 9. Defaults to 60(.4/.2,.4/2). |

Control Timer Values (sec)

| Parameter | Description |
|------------------------|---|
| Reorder Delay | Delay after far end hangs up before reorder (busy) tone is played. 0 = plays immediately, inf = never plays. Range: 0–255 seconds. Set to 255 to return the phone immediately to on-hook status and to not play the tone. Defaults to 5. |
| Call Back Expires | Expiration time in seconds of a call back activation. Range: 0–65535 seconds. Defaults to 1800. |
| Call Back Retry Intvl | Call back retry interval in seconds. Range: 0–255 seconds. Defaults to 30. |
| Call Back Delay | Delay after receiving the first SIP 18x response before declaring the remote end is ringing. If a busy response is received during this time, the SPA9000 still considers the call as failed and keeps on retrying. Defaults to 0.5. |
| Interdigit Long Timer | Long timeout between entering digits when dialing. The interdigit timer values are used as defaults when dialing. The Interdigit_Long_Timer is used after any one digit, if all valid matching sequences in the dial plan are incomplete as dialed. Range: 0–64 seconds. Defaults to 10. |
| Interdigit Short Timer | Short timeout between entering digits when dialing. The Interdigit_Short_Timer is used after any one digit, if at least one matching sequence is complete as dialed, but more dialed digits would match other as yet incomplete sequences. Range: 0–64 seconds. Defaults to 3. |

Vertical Service Activation Codes

The following Vertical Service Activation Codes are automatically appended to the dial plan.

| Parameter | Description |
|---------------------|---|
| Call Return Code | This code calls the last caller. Defaults to *69. |
| Blind Transfer Code | Begins a blind transfer of the current call to the extension specified after the activation code. Defaults to *98. |

| Parameter | Description |
|-------------------------------|--|
| Call Back Act Code | Starts a callback when the last outbound call is not busy. Defaults to *66. |
| Call Back Deact Code | Cancels a callback. Defaults to *86. |
| Cfwd All Act Code | Forwards all calls to the extension specified after the activation code. Defaults to *72. |
| Cfwd All Deact Code | Cancels call forwarding of all calls. Defaults to *73. |
| Cfwd Busy Act Code | Forwards busy calls to the extension specified after the activation code. Defaults to *90. |
| Cfwd Busy Deact Code | Cancels call forwarding of busy calls. Defaults to *91. |
| Cfwd No Ans Act Code | Forwards no-answer calls to the extension specified after the activation code. Defaults to *92. |
| Cfwd No Ans Deact Code | Cancels call forwarding of no-answer calls. Defaults to *93. |
| CW Act Code | Enables call waiting on all calls. Defaults to *56. |
| CW Deact Code | Disables call waiting on all calls. Defaults to *57. |
| CW Per Call Act Code | Enables call waiting for the next call. Defaults to *71. |
| CW Per Call Deact Code | Disables call waiting for the next call. Defaults to *70. |
| Block CID Act Code | Blocks caller ID on all outbound calls. Defaults to *67. |
| Block CID Deact Code | Removes caller ID blocking on all outbound calls. Defaults to *68. |
| Block CID Per Call Act Code | Blocks caller ID on the next outbound call. Defaults to *81. |
| Block CID Per Call Deact Code | Removes caller ID blocking on the next inbound call. Defaults to *82. |
| Block ANC Act Code | Blocks all anonymous calls. Defaults to *77. |

| Parameter | Description |
|----------------------------|---|
| Block ANC Deact Code | Removes blocking of all anonymous calls. Defaults to *87. |
| DND Act Code | Enables the do not disturb feature. Defaults to *78. |
| DND Deact Code | Disables the do not disturb feature. Defaults to *79. |
| Secure All Call Act Code | Makes all outbound calls secure. Defaults to *16. |
| Secure No Call Act Code | Makes all outbound calls not secure. Defaults to *17. |
| Secure One Call Act Code | Makes the next outbound call secure. (It is redundant if all outbound calls are secure by default.) Defaults to *18. |
| Secure One Call Deact Code | Makes the next outbound call not secure. (It is redundant if all outbound calls are not secure by default.) Defaults to *19. |
| Paging Code | The star code used for paging the other clients in the group. Defaults to *96. |
| Call Park Code | The star code used for parking the current call. Defaults to *38. |
| Call Pickup Code | The star code used for picking up a ringing call. Defaults to *36. |
| Call UnPark Code | The star code used for picking up a call from the call park. Defaults to *39. |
| Group Call Pickup Code | The star code used for picking up a group call. Defaults to *37. |
| Media Loopback Code | The star code used for media loopback. Defaults to *03. |

| Parameter | Description |
|-----------------------------|--|
| Referral Services Codes | <p>These codes tell the SPA9000 what to do when the user places the current call on hold and is listening to the second dial tone.</p> <p>One or more *code can be configured into this parameter, such as *98, or *97 *98 *123, etc. Max total length is 79 chars. This parameter applies when the user places the current call on hold (by Hook Flash) and is listening to second dial tone. Each *code (and the following valid target number according to current dial plan) entered on the second dial-tone triggers the SPA9000 to perform a blind transfer to a target number that is prepended by the service *code.</p> <p>For example, after the user dials *98, the SPA9000 plays a special dial tone called the Prompt Tone while waiting for the user to enter a target number (which is checked according to dial plan as in normal dialing). When a complete number is entered, the SPA9000 sends a blind REFER to the holding party with the Refer-To target equals to *98<target_number>. This feature allows the Cisco SPA9000 to hand off a call to an application server to perform further processing, such as call park.</p> <p>The *codes should not conflict with any of the other vertical service codes internally processed by the Cisco SPA9000. You can empty the corresponding *code that you do not want to Cisco SPA9000 to process.</p> |
| Feature Dial Services Codes | <p>These codes tell the Cisco SPA9000 what to do when the user is listening to the first or second dial tone.</p> <p>One or more *code can be configured into this parameter, such as *72, or *72 *74 *67 *82, and so forth. The maximum total length is 79 characters. This parameter applies when the user has a dial tone (first or second dial tone). Enter *code (and the following target number according to current dial plan) entered at the dial tone triggers the Cisco SPA9000 to call the target number prepended by the *code. For example, after user dials *72, the Cisco SPA9000 plays a prompt tone awaiting the user to enter a valid target number. When a complete number is entered, the Cisco SPA9000 sends a INVITE to *72<target_number> as in a normal call. This feature allows the proxy to process features like call forward (*72) or BLock Caller ID (*67).</p> |

| Parameter | Description |
|--|--|
| Feature Dial Services Codes (continued) | <p>The *codes should not conflict with any of the other vertical service codes internally processed by the Cisco SPA9000. You can empty the corresponding *code that you do not want to Cisco SPA9000 to process.</p> <p>You can add a parameter to each *code in Features Dial Services Codes to indicate what tone to play after the *code is entered, such as *72'c' *67'p'. Below are a list of allowed tone parameters (note the use of back quotes surrounding the parameter without spaces)</p> <ul style="list-style-type: none"> • c = C fwd Dial Tone • d = Dial Tone • m = MWI Dial Tone • o = Outside Dial Tone • p = Prompt Dial Tone • s = Second Dial Tone • x = No tones are place, x is any digit not used above <p>If no tone parameter is specified, the Cisco SPA9000 plays Prompt tone by default.</p> <p>If the *code is not to be followed by a phone number, such as *73 to cancel call forwarding, do not include it in this parameter. In that case, simple add that *code in the dial plan and the SPA9000 send INVITE *73@..... as usual when user dials *73.</p> |

Vertical Service Announcement Codes

- Service Annc (Announcement) Base Number: Defaults to blank.
- Service Annc (Announcement) Extension Codes: Defaults to blank.

Outbound Call Codec Selection Codes

These codes automatically appended to the dial plan. You do not need to include them in the dial plan.

| Parameter | Description |
|-------------------|---|
| Prefer G711u Code | Makes this codec the preferred codec for the associated call. Defaults to *017110. |
| Force G711u Code | Makes this codec the only codec that can be used for the associated call. Defaults to *027110. |
| Prefer G711a Code | Makes this codec the preferred codec for the associated call. Defaults to *017111 |

| Parameter | Description |
|---------------------|--|
| Force G711a Code | Makes this codec the only codec that can be used for the associated call. Defaults to *027111. |
| Prefer G722 Code | Makes this codec the preferred codec for the associated call. Defaults to *01722. Only one G.722 call at a time is allowed. If a conference call is placed, a SIP re-invite message is sent to switch the calls to narrowband audio. Note Not supported on the Cisco WIP310. |
| Force G722 Code | Makes this codec the only codec that can be used for the associated call. Defaults to *02722. Only one G.722 call at a time is allowed. If a conference call is placed, a SIP re-invite message is sent to switch the calls to narrowband audio. Note Not supported on the Cisco WIP310. |
| Prefer L16 Code | Makes this codec the only codec that can be used for the associated call. Defaults to *01016. |
| Force L16 Code | Makes this codec the only codec that can be used for the associated call. Defaults to *02016. |
| Prefer G723 Code | Makes this codec the preferred codec for the associated call. Defaults to *01723. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |
| Force G723 Code | Makes this codec the only codec that can be used for the associated call. Defaults to *02723. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |
| Prefer G726r16 Code | Makes this codec the preferred codec for the associated call. Defaults to *0172616. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |
| Force G726r16 Code | Makes this codec the only codec that can be used for the associated call. Defaults to *0272616. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |

| Parameter | Description |
|---------------------|--|
| Prefer G726r24 Code | Makes this codec the preferred codec for the associated call. Defaults to *0172624. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |
| Force G726r24 Code | Makes this codec the only codec that can be used for the associated call. Defaults to *0272624. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |
| Prefer G726r32 Code | Makes this codec the preferred codec for the associated call. Defaults to *0172632. |
| Force G726r32 Code | Makes this codec the only codec that can be used for the associated call. Defaults to *0272632. |
| Prefer G726r40 Code | Makes this codec the preferred codec for the associated call. Defaults to *0172640. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |
| Force G726r40 Code | Makes this codec the only codec that can be used for the associated call. Defaults to *0272640. Note Not applicable to Cisco WIP310, Cisco SPA525G or Cisco SPA525G2. |
| Prefer G729a Code | Makes this codec the preferred codec for the associated call. Defaults to *01729. |
| Force G729a Code | Makes this codec the only codec that can be used for the associated call. Defaults to *02729. |

Time (Cisco SPA525G or Cisco SPA525G2 Only)

| Parameter | Description |
|-------------------------|--|
| Time Zone | Selects the number of hours to add to GMT to generate the local time for caller ID generation. Choices are GMT-12:00, GMT-11:00, ..., GMT, GMT+01:00, GMT+02:00, ..., GMT+13:00. Defaults to GMT-08:00. |
| Time Offset | This specifies the offset from GMT to use for the local system time. |
| Ignore DHCP Time Offset | See Ignore DHCP Time Offset in Miscellaneous . |

| Parameter | Description |
|-----------------------------|---|
| Daylight Saving Time Rule | See Daylight Saving Time Rule in Miscellaneous . |
| Daylight Saving Time Enable | Select yes to enable Daylight Saving Time. |

Language (Cisco SPA525G or Cisco SPA525G2 Only)

| Parameter | Description |
|---------------------------|--|
| Dictionary Server Script. | See Dictionary Server Script in Miscellaneous . |
| Language Selection | See Language Selection in Miscellaneous . |

Miscellaneous

| Parameter | Description |
|-------------------------|---|
| Set Local Date (mm/dd) | Sets the local date (mm represents the month and dd represents the day). The year is optional and uses two or four digits. Note Not applicable to the Cisco SPA525G or Cisco SPA525G2. |
| Set Local Time (HH/mm) | Sets the local time (hh represents hours and mm represents minutes). Seconds are optional. Note Not applicable to the Cisco SPA525G or Cisco SPA525G2. |
| Time Zone | Selects the number of hours to add to GMT to generate the local time for caller ID generation. Choices are GMT-12:00, GMT-11:00, ..., GMT, GMT+01:00, GMT+02:00, ..., GMT+13:00. Defaults to GMT-08:00. Note Found in the Time section for the Cisco SPA525G or Cisco SPA525G2. |
| Time Offset (HH/mm) | This specifies the offset from GMT to use for the local system time. Note Found in the Time section for the Cisco SPA525G or Cisco SPA525G2. |
| Ignore DHCP Time Offset | When used with some routers that have DHCP with time offset values configured, the IP phone uses the router settings and ignores the IP phone time zone and offset settings. To ignore the router DHCP time offset value, and use the local time zone and offset settings, choose yes for this option. Choosing no causes the IP phone to use the router's DHCP time offset value. The default value is yes . Note Found in the Time section for the Cisco SPA525G or Cisco SPA525G2. |

| Parameter | Description |
|---------------------------------------|---|
| Daylight Saving Time Rule | <p>Enter the rule for calculating daylight saving time; it should include the start, end, and save values. This rule is comprised of three fields. Each field is separated by ; (a semicolon) as shown below. Optional values inside [] (the brackets) are assumed to be 0 if they are not specified. Midnight is represented by 0:0:0 of the given date.</p> <p>This is the format of the rule: Start = <start-time>; end=<end-time>; save = <save-time>.</p> <p>The <start-time> and <end-time> values specify the start and end dates and times of daylight saving time. Each value is in this format: <month> /<day> / <weekday>[/HH:[mm[:ss]]]</p> <p>The <save-time> value is the number of hours, minutes, and/or seconds to add to the current time during daylight saving time. The <save-time> value can be preceded by a negative (-) sign if subtraction is desired instead of addition. The <save-time> value is in this format: [/[+ -]HH:[mm[:ss]]]</p> <p>The <month> value equals any value in the range 1-12 (January-December).</p> <p>The <day> value equals [+ -] any value in the range 1-31.</p> <p>If <day> is 1, it means the <weekday> on or before the end of the month (in other words the last occurrence of < weekday> in that month).</p> |
| Daylight Saving Time Rule (continued) | <p>The <weekday> value equals any value in the range 1-7 (Monday-Sunday). It can also equal 0. If the <weekday> value is 0, this means that the date to start or end daylight saving is exactly the date given. In that case, the <day> value must not be negative. If the <weekday> value is not 0 and the <day> value is positive, then daylight saving starts or ends on the <weekday> value on or after the date given. If the <weekday> value is not 0 and the <day> value is negative, then daylight saving starts or ends on the <weekday> value on or before the date given. Where:</p> <p>HH stands for hours (0-23).</p> <p>mm stands for minutes (0-59).</p> <p>ss stands for seconds (0-59).</p> <p>The default Daylight Saving Time Rule is start=4/1/7;end=10/-1/7;save=1.</p> <p>Note Found in the Time section for the Cisco SPA525G or Cisco SPA525G2.</p> |
| Daylight Saving Time Enable | <p>Select yes to enable Daylight Saving Time.</p> <p>Note Found in the Time section for the Cisco SPA525G or Cisco SPA525G2.</p> |
| DTMF Playback Level | <p>Local DTMF playback level in dBm, up to one decimal place.</p> <p>Defaults to -16.</p> |
| DTMF Playback Length | <p>Local DTMF playback duration in milliseconds.</p> <p>Defaults to .1.</p> |

| Parameter | Description |
|---|---|
| Inband DTMF Boost | <p>Controls the amount of amplification applied DTMF signals.</p> <p>Choices are 0dB, 3dB, 6dB, 9dB, 12dB, 15dB, or 18dB.</p> <p>Defaults to 12dB.</p> |
| Dictionary Server Script/SCCP Dictionary Server Script (Cisco SPA525G or Cisco SPA525G2 SCCP only) | <p>Defines the location of the dictionary server, the languages available and the associated dictionary. The syntax is as follows:</p> <pre><Dictionary_Server_Script ua="na"> </Dictionary_Server_Script></pre> <p>Defaults to blank and the maximum number of characters is 512. The detailed format is as follows:</p> <pre>serv={server ip port and root path}; d0=<language0>;x0=<dictionary0 filename>; d1=<language1>;x1=<dictionary1 filename>; d2=<language2>;x2=<dictionary2 filename>; d3=<language3>;x3=<dictionary3 filename>; d4=<language4>;x4=<dictionary4 filename>; d5=<language5>;x5=<dictionary5 filename>; d6=<language6>;x6=<dictionary6 filename>; d7=<language3>;x7=<dictionary7 filename>; d8=<language8>;x8=<dictionary8 filename>; d9=<language5>;x9=<dictionary9 filename>;</pre> <p>The following is an example value:</p> <pre><Dictionary_Server_Script ua="na"> serv=tftp://192.168.1.119//;d0=English;x0=enS_v101.xml;d1=S panish;x1=esS_v101.xml </Dictionary_Server_Script></pre> <p>Note Not applicable to the Cisco WIP310.</p> |
| Language Selection/SCCP Language Selection (Cisco SPA525G or Cisco SPA525G2 SCCP Only) | <p>Specifies the default language. The value needs to match one of the languages supported by the dictionary server. The script (dx value) is as follows:</p> <pre><Language_Selection ua="na"> </Language_Selection></pre> <p>Defaults to blank and the maximum number of characters is 512. The following is an example:</p> <pre><Language_Selection ua="na"> Spanish </Language_Selection></pre> <p>Note Not applicable to the Cisco WIP310.</p> |
| Default Character Encoding (Cisco SPA303, Cisco SPA500 Series) | <p>The default is ISO-8859-1 for backward compatibility with Cisco SPA900 series phones. If set to UTF-8, line keys and other labels entered by using the phone web user interface containing UTF-8 characters are displayed correctly on the phone. (SIP only)</p> |
| Locale | <p>Choose the locale that should be set in the HTTP Accept-Language header.</p> |

Phone Tab

This section describes the fields for the Phone tab.

General

| Parameter | Description |
|--------------------------|--|
| Station Display Name | Name to identify the IP phone; appears on the IP phone screen on models that have a display. You can use spaces in this field and the name does not have to be unique. If both the Station Display Name and Station Name fields are populated, the Station Display Name field takes precedence and is displayed on the phone. |
| Station Name | Name to identify this IP phone; appears on the IP phone screen on models that have a display. No spaces are allowed and the name must be unique. |
| Voice Mail Number | Phone number or URL to check voice mail. The service provider often hosts a voice mail service. The advantages of hosted voice mail include: <ul style="list-style-type: none"> Advanced features such as voice mail to email conversion. Calls can go to voice mail when the broadband connection is down. |
| Text Logo | Text logo to display when the phone boots up. A service provider, for example, can enter logo text as follows: <ul style="list-style-type: none"> Up to 2 lines of text Each line must be fewer than 32 characters Insert a new line character (\n) between lines Insert escape code %0a For example, Super\n%0aTelecom displays: <pre>Super Telecom</pre> Use the + character to add spaces for formatting. For example, you can add multiple + characters before and after the text to center it. <p>Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G. On the Cisco SPA525G or Cisco SPA525G2, this setting is located on the User tab.</p> |
| BMP Picture Download URL | URL locating the bitmap (.BMP) file to display on the IP phone screen background. <p>For more information, see Configuring Phone Information and Display Settings.</p> <p>Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G. On the Cisco SPA525G or Cisco SPA525G2, this setting is located on the User tab.</p> |

| Parameter | Description |
|---------------------------|--|
| Select Logo | <p>Select from Default, BMP Picture, Text Logo, or None.</p> <p>Defaults to Default.</p> <p>Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G. On the Cisco SPA525G or Cisco SPA525G2, this setting is located on the User tab.</p> |
| Select Background Picture | <p>Select from Default, BMP Picture, or None.</p> <p>Defaults to Default.</p> <p>Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G. On the Cisco SPA525G or Cisco SPA525G2, this setting is located on the User tab.</p> |
| Softkey Labels Font | <p>Choose the font width for the softkey labels to display on your phone. See Customizing Phone Softkeys.</p> <p>Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G.</p> |
| Screen Saver Enable | <p>Enables a screen saver on the IP phone screen. When the phone is idle for a specified time, it enters screen saver mode. (Users can set up screen savers directly using phone Setup button.) When the screen saver is active, the screen shows “Press any key to unlock your phone.”</p> <p>User input is accepted if the screen saver is active (for example, if a user begins to dial a number while the screen saver is active, the key press is accepted). If the phone LCD is displaying the Home screen and the screen saver becomes active, and if there are no active calls, the following events generated by user input are passed to the Home screen:</p> <ul style="list-style-type: none"> • Numeric keys • Line keys • Speaker key • Headset key • Mail Box key • Handset off hook <p>All other key events are not passed.</p> <p>Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G. On the Cisco SPA525G or Cisco SPA525G2, this setting is located on the User tab.</p> |
| Screen Saver Wait | <p>Amount of idle time before screen saver displays.</p> <p>Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G. On the Cisco SPA525G or Cisco SPA525G2, this setting is located on the User tab.</p> |

| Parameter | Description |
|---|--|
| Screen Saver Icon | <p>In screen saver mode, the IP phone screen can display:</p> <ul style="list-style-type: none"> • A background picture. • The station time in the middle of the screen. • A moving padlock icon. When the phone is locked, the status line displays a scrolling message “Press any key to unlock your phone.” • A moving phone icon. • The station date and time in the middle of the screen. <p>Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G. On the Cisco SPA525G or Cisco SPA525G2, this setting is located on the User tab.</p> |
| JPEG Logo Download URL (Cisco SPA525G or Cisco SPA525G2) | URL from which to download a .jpg file for the phone logo display. |
| JPEG Wallpaper Download URL (Cisco SPA525G or Cisco SPA525G2) | URL from which to download a .jpg file for the phone wallpaper. |
| Enable SMS | <p>Enables sending and receiving of SMS text messages on the phone.</p> <p>Note Cisco WIP310 only.</p> |
| Show DTMF Digits when connected | <p>The phone can be configured to show the digits entered by a local user while a call is connected or is proceeding.</p> <p>The display options are "No"/"Yes"/"Masked".</p> <p>'No'— No digits are displayed.</p> <p>'Yes'— Upto 15 most recently dialed digits are displayed.</p> <p>'Masked'—Behaves like 'Yes,' but the digits are masked with '*'.s.</p> <p>Note Display location of DTMF digits is slightly different on Cisco SPA5xx and Cisco SPA525 phones.</p> <p>SPA5xx: Dialed digits are displayed on the second line of the call screen. If the call is diverted while a new digit is entered, the line switches from "Via: XXXX" to digits for 10 seconds.</p> <p>If no digits are entered during the last 10 seconds, the line will switch back to "Via:XXXX."</p> <p>SPA525: Dialed digits are displayed on the fourth line. For a conference call, two call appearances present on the GUI, and the digits are displayed only on the highlighted call.</p> |

Line Key

When used in the configuration profile, parameters in this section must be appended with *n*, where *n* represents line 1, 2, 3, 4, 5 or 6. For more information on these parameters, see [Configuring Lines](#).


Note

Does not apply to the Cisco WIP310.

| Parameter | Description |
|-----------------------|---|
| Extension | Extension number of the line key. |
| Short Name | A short label shown on the IP phone screen for Line Key 1 through Line Key 6. |
| Share Call Appearance | Yes indicates that Line Key 1/2/3/4/5/6 is a shared call appearance. Otherwise this call appearance is not shared (it is private). Defaults to no. |
| Extended Function | Use to assign Busy Lamp Field, Call Pickup, and Speed Dial Functions to Idle Lines on the IP phone. Syntax is: <code>fnc=type;sub=stationname@\$PROXY;ext=extension#@\$PROXY</code> where: <ul style="list-style-type: none"> • fnc: function • blf: busy lamp field • cp: call pickup • sub: station name (not needed for speed dial) • ext or usr: extension or user (the usr and ext keywords are interchangeable) Note Not applicable to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G. |

Miscellaneous Line Key Settings

Does not apply to the Cisco WIP310.

| Parameter | Description |
|---|--|
| Line ID Mapping | <p>Specifies the call appearance line ID mapping when the call appearance per line is set to two. Applied to both shared line and private lines. Effective for incoming calls only.</p> <p>Choose Vertical First or Horizontal First. Each LED can hold multiple calls and the first call on an LED makes it light up. Horizontal first means the second incoming call makes the same line LED flash. Vertical first means the second incoming call lights up the next line LED with the same account.</p> <p>For example, if Extension 101 is assigned to two LEDs, and Vertical First is selected, the second incoming call on Extension 101 lights up the second LED. The third call makes the first LED flash, and the fourth call makes the second LED flash.</p> <p>If Horizontal First is selected, the second incoming call on Extension 101 makes the first LED flash. The third call lights up the second LED, and the fourth call makes the second LED flash.</p> |
| SCA Barge-In Enable | <p>Enables the SCA Barge-In.</p> <p>Defaults to no.</p> |
| SCA Sticky Auto Line Seize | <p>When enabled, taking the phone off-hook will not automatically pick up an incoming call on a shared line.</p> |
| SCA Unseize Delay | <p>Allows shared line unseize delay to be Configurable. Default is 0.</p> |
| Line Navigation (Does not apply to the Cisco SPA525G or Cisco SPA525G2.) | <p>This parameter controls the way that the IP phone navigates between call appearances when the user presses the up or down navigation button. The default value is “per line.”</p> <p>When Per Call is configured, and the user presses the up and down navigation button, the phone displays each call for a line before moving to subsequent lines. For example, if there are two calls on Line 1, pressing the up or down navigation button scrolls between the two calls first, before moving to display any calls that are on Line 2. We recommend you enable programmable softkeys when choosing this option.</p> <p>When Per Line is configured, and the user presses the up and down navigation button, the phone displays one call appearance for a line, before moving to the next line. For example, if there are two calls on Line 1, pressing the up or down navigation button moves directly to display any calls on Line 2 (rather than the second call on Line 1).</p> |

| Parameter | Description |
|--------------------------|--|
| Call Appearance Per Line | <p>This parameter allows you to choose the number of calls per line button. You can choose a value from 2 (the default) to 10.</p> <p>When you increase the number of calls per line to a value greater than 2, the phone automatically sets the Line ID Mapping option to Horizontal First. Changing the Line ID Mapping value has no effect if the value of the Call Appearance Per Line setting is greater than 2.</p> <p>Note The maximum number of calls per an SPA525G or 525G2 phone is 10. When the maximum numbers of calls per phone is reached, the phone does not allow you to make a new call and rejects incoming calls.</p> <p>This parameter is not supported on the Cisco SPA501G and Cisco SPA301 phones. Also, this parameter is only supported when the phones are operating in the SIP mode. In version 7.4.8a, only private call appearances are supported. In versions 7.5.1a and higher private and shared call appearances are supported.</p> |
| Softkey Navigation Style | <p>If scrollable is chosen, users must use the navigation button on the IP phone to scroll to see the additional softkeys. If more is chosen, a “More” softkey is displayed, which, when pressed, displays the additional softkeys.</p> <p>Note The Cisco SPA525G and Cisco SPA525G2 always display the “More” softkey when in an idle state.</p> |

Line Key LED Pattern

Does not apply to the Cisco WIP310.

| Parameter | Description |
|-----------------------|--|
| Idle LED | The call appearance is not in use and is available to make a new call. Leaving this entry blank indicates the default value of c=g. |
| Remote Undefined LED | The shared call state is undefined (the phone is still waiting for the state information from the application server). Not applicable if the call appearance is not shared. Leaving this entry blank indicates the default value of c=r;p=d. |
| Local Seized LED | This phone has seized the call appearance to prepare for a new outbound call. Leaving this entry blank indicates the default value of c=r. |
| Remote Seized LED | The shared call appearance is seized by another phone. Not applicable if the call appearance is not shared. Leaving this entry blank indicates the default value of c=r;p=d. |
| Local Progressing LED | This phone is attempting on this call appearance an outgoing call that is in proceeding (i.e. the called number is ringing). Leaving this entry blank indicates the default value of c=r. |

| Parameter | Description |
|------------------------|--|
| Remote Progressing LED | Another phone is attempting on this shared call appearance an outbound call that is progressing. Not applicable if the call appearance is not shared. Leaving this entry blank indicates the default value of c=r;p=d. |
| Local Ringing LED | The call appearance is ringing. Leaving this entry blank indicates the default value of c=r;p=f. |
| Remote Ringing LED | The shared call appearance is in ringing on another phone. Not applicable if the call appearance is not shared. Leaving this entry blank indicates the default value of c=r;p=d. |
| Local Active LED | The call appearance is engaged in an active call. Leaving this entry blank indicates the default value of c=r. |
| Remote Active LED | Another station is engaged in an active call on this shared call appearance. Not applicable is this call appearance is not shared. Leaving this entry blank indicates the default value of c=r;p=d. |
| Local Held LED | The call appearance is held by this phone. Leaving this entry blank indicates the default value of c=r;p=s. |
| Remote Held LED | Another phone has placed this call appearance on hold. Not applicable if the call appearance is not shared. Leaving this entry blank indicates the default value of c=r;p=s. |
| Register Failed LED | The corresponding extension has failed to register with the proxy server. Leaving this entry blank indicates the default value of c=a. |
| Disabled LED | The Call Appearance is disabled (not available for any incoming or outgoing call). Leaving this entry blank indicates the default value of c=o. |
| Registering LED | The corresponding extension is trying to register with the proxy server. Leaving this entry blank indicates the default value of c=r;p=s. |
| Call Back Active LED | Call Back operation is currently active on and this call appearance is not shared. Leaving this entry blank indicates the default value of c=r;p=s. |
| Trunk In-Use LED | A shared trunk is in use. |
| Trunk No Service LED | A shared trunk is not in service. |
| Trunk Reserved LED | A shared trunk has been reserved. |

Supplementary Services

Enable or disable the corresponding supplementary services on the phone. A value of **yes** indicates enabled; **no** indicates disabled.

| Parameter | Description |
|-------------------------|--|
| Conference Serv | Enable/disable Three way conference service. Defaults to yes. |
| Attn Transfer Serv | Enable/disable attended-call-transfer service. Defaults to yes. |
| Blind Transfer Serv | Enable/disable blind-call-transfer service. Defaults to yes. |
| DND Serv | Enable/disable do-not-disturb service. Defaults to yes. |
| Block ANC Serv | Enable/disable block-anonymous-call service. Defaults to yes. |
| Call Back Serv | Enable/disable call-back (aka. repeating dialing) service. Defaults to yes. |
| Block CID Serv | Enable/disable blocking outbound Caller-ID service. Defaults to yes. |
| Secure Call Serv | Enable/disable secure-call service. Defaults to yes. |
| Cfwd All Serv | Enable/disable call-forward-all service. Defaults to yes. |
| Cfwd Busy Serv | Enable/disable call-forward-on-busy service. Defaults to yes. |
| Cfwd On No Ans Serv | Enable/disable call-forward-on-no-answer service. Defaults to yes. |
| Paging Serv | Enable/disable the paging service. Defaults to yes. |
| Call Park Serv | Enable/disable the call park service. Defaults to yes. |
| Call Pick Up Serv | Enable/disable the call pickup service. Defaults to yes. |
| ACD Login Serv | Enable/disable the ACD Login Service, used for call centers. Typically enabled with the <SIP-B> parameter. Defaults to no. |
| Group Call Pick Up Serv | Enable/disable the group call pickup service. Defaults to yes. |

| Parameter | Description |
|---|---|
| Group Call Pick Up Serv | Enable/disable the group call pickup service. Defaults to yes. |
| ACD Ext | The extension used for handling ACD calls. Select from 1, 2, 3, 4, 5, or 6. Defaults to 1. |
| Service Ann Serv | Enable/disable sending announcement requests to a customer-supplied announcement server. Defaults to no. |
| Web Serv (Cisco SPA525G or Cisco SPA525G2 only) | Enable/disable the web server. Defaults to yes. |
| SMS Serv (Cisco SPA525G or Cisco SPA525G2 only) | Enable/disable the SMS text messaging server. |

Ring Tone (Cisco SPA300 Series and Cisco SPA500 Series)

Each entry defines a ring tone to be used on the phone, with an ID between 1 and 12. The ID can be used in a DirEntry to indicate which ring tone to use when the corresponding caller calls.

| Parameter | Description |
|-----------|--|
| Ring1 | Ring tone script for ring 1. Defaults to n=Classic-1;w=3;c=1. |
| Ring2 | Ring tone script for ring 2. Defaults to n=Classic-2;w=3;c=2. |
| Ring3 | Ring tone script for ring 3. Defaults to n=Classic-3;w=3;c=3. |
| Ring4 | Ring tone script for ring 4. Defaults to n=Classic-4;w=3;c=4. |
| Ring5 | Ring tone script for ring 5. Defaults to n=Simple-1;w=2;c=1. |
| Ring6 | Ring tone script for ring 6. Defaults to n=Simple-2;w=2;c=2. |
| Ring7 | Ring tone script for ring 7. Defaults to n=Simple-3;w=2;c=3. |
| Ring8 | Ring tone script for ring 8. Defaults to n=Simple-4;w=2;c=4. |
| Ring9 | Ring tone script for ring 9. Defaults to n=Simple-5;w=2;c=5. |
| Ring10 | Ring tone script for ring 10. Defaults to n=Office;w=4;c=1. |
| Ring11 | (Cisco SPA300 Series and Cisco SPA500 Series) Ring tone script for ring 11. Defaults to n=Pulse;w=5;c=1. (Cisco SPA525G or Cisco SPA525G2) Ring tone script for ring 11. Defaults to n=Pulse;w=file://Pulse1.raw;c=1. |

| Parameter | Description |
|----------------------|--|
| Ring12 | (Cisco SPA300 Series and Cisco SPA500 Series) Ring tone script for ring 12. Defaults to n=Du-dut;w=6;c=1. (Cisco SPA525G or Cisco SPA525G2) Ring tone script for ring 11. Defaults to n=Du-dut;w=file://Ring7.raw;c=1. |
| Silent Ring Duration | (Cisco SPA 300 Series and Cisco SPA500 Series) Controls the duration of the silent ring. For example, if the parameter is set to "20" seconds, the phone plays the silent ring for 20 seconds then sends 480 response to INVITE message. |

In addition to these two ring tones, four user-configurable ring tones were added. See the [“Configuring Ring Tones”](#) section on page 3-18 for more information.

| Label | Value of the w Parameter |
|--------|---|
| Warble | (Cisco SPA300 Series and Cisco SPA500 Series) w=7 ((Cisco SPA525G or Cisco SPA525G2)) w=file://Warble.raw |
| Low | (Cisco SPA300 Series and Cisco SPA500 Series) w=8 ((Cisco SPA525G or Cisco SPA525G2)) w=file://Low.raw |
| Floor | (Cisco SPA300 Series and Cisco SPA500 Series) w=9 ((Cisco SPA525G or Cisco SPA525G2)) w=file://Floor.raw |
| Reverb | (Cisco SPA300 Series and Cisco SPA500 Series) w=10 ((Cisco SPA525G or Cisco SPA525G2)) w=file://Reverb.raw |

Ring Tone (Cisco WIP310)

| Parameter | Description |
|--------------------|---|
| Keypad Tone | Select yes to enable the keypad tone to be played when a key on the keypad is pressed. Select no to silence the keypad. |
| Keypad Tone Volume | Corresponds to the volume of the keypad tone. Default is 5. |

Audio Input Gain (dB)


Note

Does not apply to the Cisco WIP310.

| Parameter | Description |
|--|---|
| Handset Input Gain | The amount of amplification to apply to the audio input signal for the handset. Defaults to zero. |
| Headset Input Gain | The amount of amplification to apply to the audio input signal for the headset. Defaults to zero. Note Not applicable to the Cisco SPA301 or the Cisco SPA501G. |
| Speakerphone Input Gain | The amount of amplification to apply to the audio input signal for the speakerphone. Defaults to zero. Note Not applicable to the Cisco SPA301 or the Cisco SPA501G. |
| Bluetooth Input Gain (Cisco SPA525G or Cisco SPA525G2 only) | The amount of amplification to apply to the audio input signal for the Bluetooth device. Defaults to zero. |
| Handset Additional Input Gain | Applies additional input gain to the handset. The maximum value is 9. Note Does not apply to the Cisco SPA525G or Cisco SPA525G2. |
| Headset Additional Input Gain | Applies additional input gain to the headset. The maximum value is 9. Note Does not apply to the Cisco SPA525G or Cisco SPA525G2, or the Cisco SPA501G. |
| Speakerphone Additional Input Gain | Applies additional input gain to the speakerphone. The maximum value is 9. Note Does not apply to the Cisco SPA301 or Cisco SPA525G or Cisco SPA525G2 or Cisco SPA501G. |
| Bluetooth Additional Input Gain (Cisco SPA525G or Cisco SPA525G2 only) | Applies additional input gain to the Bluetooth device. Defaults to zero. The maximum value is 9. |

Multiple Paging Group Parameters

You can configure a phone as part of a paging group by using a Group Paging Script. Users can then direct pages to specific groups of phones. A phone can be part of no more than two paging groups, and user can page a maximum of five paging groups.

Syntax:

```
[pggrp=ip-address:port; [name=xxx; ]num=xxx;
[listen={yes|no}]];
```

Where:

IP address: Multicast IP address of the phone that listens for and receives pages.

port: Port on which to page; you must use different ports for each paging group.

name (optional): The name of the paging group. In this name, do not use the pggrp string because it is reserved. Using it causes the script not to work, as in these examples:

```
pggrp=224.168.168.168:3141;name=ITGPgGrp;
num=800;listen=yes;
pggrp=224.168.168.168:3141;name=PgGrp;num=800;listen=yes;
```

num: The number users dial to access the paging group; must be unique to the group.

listen: If the phone should listen on the page group. Only the first two groups with listen set to yes will listen to group pages. If the field is not defined, the default value is no, so you must set this field to listen to the group pages.

BroadSoft Settings

The Cisco SPA300 Series and Cisco SPA500 Series supports the BroadSoft directory feature and synchronization of Do Not Disturb and Call Forward.

| Parameter | Description |
|------------------|---|
| Directory Enable | Set to yes to enable BroadSoft directory for the phone user. Defaults to no. Note Not applicable to the Cisco SPA301 or Cisco SPA501G. |
| XSI Host Server | Enter the name of the server; for example, xsp.xdp.broadsoft.com. Note Not applicable to the Cisco SPA301 or Cisco SPA501G. |
| Directory Name | Name of the directory. Displays on the user phone as a directory choice. Note Not applicable to the Cisco SPA301 or Cisco SPA501G. |

| Parameter | Description |
|-----------------------|---|
| Directory Type | <p>Select the type of BroadSoft directory:</p> <p>Enterprise (default): Allows users to search on last name, first name, user or group ID, phone number, extension, department, or email address.</p> <p>Group: Allows users to search on last name, first name, user ID, phone number, extension, department, or email address.</p> <p>Personal: Allows users to search on last name, first name, or telephone number.</p> <p>Note Not applicable to the Cisco SPA301 or Cisco SPA501G.</p> |
| Directory UserID | <p>BroadSoft User ID of the phone user; for example, johndoe@xdp.broadsoft.com.</p> <p>Note Not applicable to the Cisco SPA301 or Cisco SPA501G.</p> |
| Directory Password | <p>Alphanumeric password associated with the User ID.</p> <p>Note Not applicable to the Cisco SPA301 or Cisco SPA501G.</p> |
| Call Feature Sync Ext | <p>Allows the phone to synchronize with the call server so that if Do Not Disturb or Call Forwarding settings are changed on the phone, changes are also made on the server; if changes are made on the server, they are propagated to the phone.</p> <p>This feature is disabled by default.</p> <p>Choose the extension (1 through 5) that is registered to the BroadSoft server.</p> <p>Note This parameter was removed in software release 7.4.9, and replaced by the Feature Key Sync parameter in the Extension tab.</p> |

LDAP Corporate Directory Search

If using Active Directory with authentication set to MD5, you must first configure the following:

- Click the **System** tab. In the **Optional Network Configuration** section, under **Primary DNS**, enter the IP address of the DNS server.
- In the **Optional Network Configuration** section, under **Domain**, enter the Lightweight Directory Access Protocol (LDAP) domain.



Note

Does not apply to the Cisco WIP310, Cisco SPA301, or Cisco SPA501G.

| Parameter | Description |
|--------------------|---|
| LDAP Dir Enable | Choose yes to enable LDAP. |
| LDAP Corp Dir Name | Enter a free-form text name, such as “Corporate Directory.” |

| Parameter | Description |
|------------------------|---|
| LDAP Server | Enter a fully qualified domain name or IP address of LDAP server, in the following format: nnn . nnn . nnn . nnn |
| LDAP Auth Method | Select the authentication method that the LDAP server requires. Choices are: None—No authentication is used between the client and the server. Simple—The client sends its fully-qualified domain name and password to the LDAP server. Might present security issues. Digest-MD5—The LDAP server sends authentication options and a token to the client. The client returns an encrypted response that is decrypted and verified by the server. |
| LDAP Client DN | Enter the distinguished name domain components [dc] ; for example: dc=cv2bu,dc=com If using the default Active Directory schema (Name(cn)->Users->Domain), an example of the client DN follows: cn="David Lee",dc=users,dc=cv2bu,dc=com |
| LDAP Username | Enter the username for a credentialed user on the LDAP server. |
| LDAP Password | Enter the password for the LDAP username. |
| LDAP Search Base | Specify a starting point in the directory tree from which to search. Separate domain components [dc] with a comma. For example: dc=cv2bu,dc=com |
| LDAP Last Name Filter | This defines the search for surnames [sn], known as last name in some parts of the world. For example, sn:(sn=*\$VALUE*). This search allows the provided text to appear anywhere in a name, beginning, middle, or end. |
| LDAP First Name Filter | This defines the search for the common name [cn]. For example, cn:(cn=*\$VALUE*). This search allows the provided text to appear anywhere in a name, beginning, middle, or end. |
| LDAP Search Item 3 | Additional customized search item. Can be blank if not needed. |
| LDAP Item 3 Filter | Customized filter for the searched item. Can be blank if not needed. |
| LDAP Search Item 4 | Additional customized search item. Can be blank if not needed. |
| LDAP Item 4 Filter | Customized filter for the searched item. Can be blank if not needed. |

| Parameter | Description |
|---------------------|--|
| LDAP Display Attrs | <p>Format of LDAP results display on phone where:</p> <ul style="list-style-type: none"> • a—Attribute name • cn—Common name • sn—Surname (last name) • telephoneNumber—Phone number • n—Display name <p>For example, n=Phone causes "Phone:" to be displayed in front of the phone number of an LDAP query result when the detail soft button is pressed.</p> <ul style="list-style-type: none"> • t—type <p>When t=p, that is, t is of type phone number, then the retrieved number can be dialed. Only one number can be made dialable. If two numbers are defined as dialable, only the first number is used. For example, a=ipPhone, t=p; a=mobile, t=p;</p> <p>This example results in only the IP Phone number being dialable and the mobile number will be ignored.</p> <ul style="list-style-type: none"> • p—phone number <p>When p is assigned to a type attribute, example t=p, then the retrieved number is dialable by the phone.</p> |
| LDAP Number Mapping | <p>Can be blank if not needed.</p> <p>Note With the LDAP number mapping you can manipulate the number that was retrieved from the LDAP server. For example, you can append 9 to the number if your dial plan requires a user to enter 9 before dialing. Add the 9 prefix by adding (<:9xx.>) to the LDAP Number Mapping field. For example, 555 1212 would become 9555 1212.</p> <p>If you do not manipulate the number in this fashion, a user can use the Edit Dial feature to edit the number before dialing out.</p> |

XML Service

The Cisco SPA300 Series and Cisco SPA500 Series IP phones support XML services, such as an XML Directory Service or other XML applications. (Not applicable to the Cisco SPA301 or the Cisco SPA501G.)

| Parameter | Description |
|----------------------------|--|
| XML Directory Service Name | Name of the XML Directory. Displays on the user's phone as a directory choice. |
| XML Directory Service URL | URL where the XML Directory is located. |

| Parameter | Description |
|------------------------------|---|
| XML Application Service Name | Name of the XML application. Displays on the user's phone as a web application choice. |
| XML Application Service URL | URL where the XML application is located. |
| XML User Name | XML service username for authentication purposes. |
| XML Password | XML service password for authentication purposes. |
| Cisco XML EXE Auth Mode | Select the authentication mode for <i>http://ip/CGI/Execute</i> . There are 3 modes: Trusted: This is the default value. Local Credential: Use the password to authenticate. Remote Credential: Use XML User Name and XML Password to authenticate. |

Extension Mobility

For more information, see [Configuring Extension Mobility](#).



Note

Does not apply to the Cisco WIP310.

| Parameter | Description |
|---------------------------|---|
| Extension Mobility Enable | Enable or disable extension mobility. Defaults to no (disabled). |
| EM User Domain | The user domain for extension mobility. Defaults to blank. |

Programmable Softkeys

The Cisco SPA300 Series and Cisco SPA500 Series IP phones (models with display screens) have four softkeys on the screen that, when pressed, perform certain actions.

You can customize the softkeys displayed on the phone, and create your own softkeys for speed dials or XML scripts. Customized softkey information is entered in the PSK1 through PSK16 fields. (See [Customizing Phone Softkeys](#) for more information.)

| Parameter | Description |
|-----------------------------|--|
| Programmable Softkey Enable | Enables programmable softkeys. |
| Idle Key List | Softkeys that display when the phone is idle. |
| Missed Call Key List | Softkeys that display when a call has been missed. |
| Off Hook Key List | Softkeys that display when the receiver is lifted, or the headphone or speakerphone buttons are pressed. |

| Parameter | Description |
|------------------------|---|
| Dialing Input Key List | Softkeys that display when the user must enter dialing data. |
| Progressing Key List | Softkeys that display when a call is attempting to connect. (Cisco SPA525G or Cisco SPA525G2 only) |
| Connected Key List | Softkeys that display when a call is connected. |
| Start-Xfer Key List | Softkeys that display when a call transfer has been initiated. |
| Start-Conf Key List | Softkeys that display when a conference call has been initiated. |
| Conferencing Key List | Softkeys that display when a conference call is in progress. |
| Releasing Key List | Softkeys that display when a call is disconnecting. (Cisco SPA525G or Cisco SPA525G2 only) |
| Hold Key List | Softkeys that display when one or more calls are on hold. (Cisco SPA525G or Cisco SPA525G2 only) |
| Ringing Key List | Softkeys that display when a call is incoming. |
| Shared Active Key List | Softkeys that display when a call is active on a shared line. (Cisco SPA525G or Cisco SPA525G2 only) |
| Shared Held Key List | Softkeys that display when a call is on hold on a shared line. (Cisco SPA525G or Cisco SPA525G2 only) |
| PSK1 through PSK16 | Programmable softkey fields. Enter a string in these fields to configure softkeys that display on the phone screen. You can create softkeys for speed dials to numbers or extensions, vertical service activation codes (* codes), or XML scripts. For more information on the types of softkeys that can be created and the string syntax to enter, see the “Programmable Softkeys” section on page 3-15 . |

Call Audio Recording (Cisco SPA525G and SPA525G2)

| Parameter | Description |
|----------------------|---|
| Record Enable | <p>The Cisco SPA525G2 supports recording a call to a USB flash drive. Select yes to enable this feature. The user can record and play back the call using the phone interface. The following limitations apply:</p> <ul style="list-style-type: none"> Supported in SIP mode only. Recording is limited to a single active call. Multiple calls cannot be recorded at the same time. <p>If the user performs a blind transfer, call recording stops immediately. If the user performs an attended transfer, call recording stops after the local call exits from the bridged call. Call recording stops when a call is parked.</p> <p>If an incoming call is answered while on the first call, the first call continues to be recorded after the second call is connected. The calls must be joined by conference to record both calls. If a call is put on hold and the user makes another call, the first call continues to be recorded unless the calls are joined by conference. Call recording can only be performed on conferenced calls when the original recorded call is still active, or when the recording is started after both calls are joined by conference.</p> <p>If call recording is stopped on a call and started on another call, a new, separate call recording file is created.</p> <p>The remote call number and call name are part of the filename of the record file. If the filename contains any of these characters (\ / : * ? " < >), that character is replaced by '-' in the call recording filename.</p> |
| Record Beep Reminder | <p>When enabled, the phone plays a beep when call recording is started. This feature is enabled by default.</p> |

Ext Tab

The Ext tabs vary by phone and depend on the number of extensions the phone model supports. In a configuration profile, the Line parameters must be appended with the appropriate numeral to indicate the line to which the setting applies. For example:

```
[1] to specify line one
[2] to specify line two
```

General

Line Enable: To enable this line for service, select **yes**. Otherwise, select **no**.

Defaults to yes.

Share Line Appearance

| Parameter | Description |
|--|--|
| Share Ext | Indicates whether this extension is to be shared with other Cisco SPA IP phones or private. If the extension is not shared, then a call appearance assigned to this extension is not shared, regardless the setting of <Share Call Appearance> for that call appearance. If the extension is shared, then whether or not a call appearance assigned to this extension is shared follows the setting of <Share Call Appearance> for that call appearance. The choices are shared or private. Defaults to shared. |
| Shared User ID | The user identified assigned to the shared line appearance. |
| Subscription Expires | Number of seconds before the SIP subscription expires. Before the subscription expiration, the phone gets NOTIFY messages from the SIP server on the status of the shared phone extension. Defaults to 60 seconds. |
| Restrict MWI | When enabled, the message waiting indicator lights only for messages on private lines. |
| Monitor User ID (Cisco SPA300 Series, Cisco SPA500 Series) | This field is for future use. |

NAT Settings

| Parameter | Description |
|-----------------------|---|
| NAT Mapping Enable | To use externally mapped IP addresses and SIP/RTP ports in SIP messages, select yes . Otherwise, select no . Defaults to no. |
| NAT Keep Alive Enable | To send the configured NAT keep alive message periodically, select yes . Otherwise, select no . Defaults to no. |
| NAT Keep Alive Msg | Enter the keep alive message that should be sent periodically to maintain the current NAT mapping. If the value is \$NOTIFY, a NOTIFY message is sent. If the value is \$REGISTER, a REGISTER message without contact is sent. Defaults to \$NOTIFY. |
| NAT Keep Alive Dest | Destination that should receive NAT keep alive messages. If the value is \$PROXY, the messages are sent to the current or outbound proxy. Defaults to \$PROXY. |

Network Settings

| Parameter | Description |
|--------------------------|--|
| SIP TOS/DiffServ Value | TOS/DiffServ field value in UDP IP packets carrying a SIP message. Defaults to 0x68. |
| SIP CoS Value | CoS value for SIP messages. Defaults to 3. |
| RTP TOS/DiffServ Value | ToS/DiffServ field value in UDP IP packets carrying RTP data. Defaults to 0xb8. |
| RTP CoS Value | CoS value for RTP data. Defaults to 6. |
| Network Jitter Level | Determines how jitter buffer size is adjusted by the Cisco SPA9000. Jitter buffer size is adjusted dynamically. The minimum jitter buffer size is 30 milliseconds or (10 milliseconds + current RTP frame size), whichever is larger, for all jitter level settings. However, the starting jitter buffer size value is larger for higher jitter levels. This setting controls the rate at which the jitter buffer size is adjusted to reach the minimum. Select the appropriate setting: low, medium, high, very high, or extremely high. Defaults to high. |
| Jitter Buffer Adjustment | Controls how the jitter buffer should be adjusted. Select the appropriate setting: up and down, up only, down only, or disable. Defaults to up and down. |

SIP Settings

| Parameter | Description |
|-------------------|--|
| SIP Transport | Select from UDP, TCP, or TLS. Defaults to UDP. |
| SIP Port | Port number of the SIP message listening and transmission port. Defaults to 5060. |
| SIP 100REL Enable | To enable the support of 100REL SIP extension for reliable transmission of provisional responses (18x) and use of PRACK requests, select yes . Otherwise, select no . Defaults to no. |
| EXT SIP Port | The external SIP port number. |

| Parameter | Description |
|-------------------------|--|
| Auth Resync-Reboot | If this feature is enabled, the Cisco SPA9000 authenticates the sender when it receives the NOTIFY resync reboot (RFC 2617) message. To use this feature, select yes . Otherwise, select no . Defaults to yes. |
| SIP Proxy-Require | The SIP proxy can support a specific extension or behavior when it sees this header from the user agent. If this field is configured and the proxy does not support it, it responds with the message, unsupported. Enter the appropriate header in the field provided. |
| SIP Remote-Party-ID | To use the Remote-Party-ID header instead of the From header, select yes . Otherwise, select no . Defaults to yes. |
| Referor Bye Delay | Controls when the SPA9000 sends BYE to terminate stale call legs upon completion of call transfers. Multiple delay settings (Referor, Refer Target, Referee, and Refer-To Target) are configured on this screen. For the Referor Bye Delay, enter the appropriate period of time in seconds. Defaults to 4. |
| Refer-To Target Contact | To contact the refer-to target, select yes . Otherwise, select no . Defaults to no. |
| Referee Bye Delay | For the Referee Bye Delay, enter the appropriate period of time in seconds. Defaults to 0. |

| Parameter | Description |
|--------------------------|--|
| SIP Debug Option | <p>SIP messages are received at or sent from the proxy listen port. This feature controls which SIP messages to log. Choices are as follows:</p> <p>none—No logging.</p> <p>1-line—Logs the start-line only for all messages.</p> <p>1-line excl. OPT—Logs the start-line only for all messages except OPTIONS requests/responses.</p> <p>1-line excl. NTFY—Logs the start-line only for all messages except NOTIFY requests/responses.</p> <p>1-line excl. REG—Logs the start-line only for all messages except REGISTER requests/responses.</p> <p>1-line excl. OPT NTFY REG—Logs the start-line only for all messages except OPTIONS, NOTIFY, and REGISTER requests/responses.</p> <p>full—Logs all SIP messages in full text.</p> <p>full excl. OPT—Logs all SIP messages in full text except OPTIONS requests/responses.</p> <p>full excl. NTFY—Logs all SIP messages in full text except NOTIFY requests/responses.</p> <p>full excl. REG—Logs all SIP messages in full text except REGISTER requests/responses.</p> <p>full excl. OPT NTFY REG—Logs all SIP messages in full text except for OPTIONS, NOTIFY, and REGISTER requests/responses.</p> <p>Defaults to none.</p> |
| Refer Target Bye Delay | <p>For the Refer Target Bye Delay, enter the appropriate period of time in seconds.</p> <p>Defaults to 0.</p> |
| Sticky 183 | <p>If this feature is enabled, the IP telephony ignores further 180 SIP responses after receiving the first 183 SIP response for an outbound INVITE. To enable this feature, select yes. Otherwise, select no.</p> <p>Defaults to no.</p> |
| Auth INVITE | <p>When enabled, authorization is required for initial incoming INVITE requests from the SIP proxy.</p> |
| Ntfy Refer On 1xx-To-Inv | <p>If set to yes, as a transferee, the phone will send a NOTIFY with Event:Refer to the transferor for any 1xx response returned by the transfer target, on the transfer call leg.</p> <p>If set to no, the phone will only send a NOTIFY for final responses (200 and higher).</p> <p>Note Not applicable to the Cisco WIP310.</p> |

| Parameter | Description |
|-------------------------|---|
| Use Anonymous With RPID | <p>This parameter applies only if <SIP Remote-Party-ID> is set to yes; otherwise, it is ignored.</p> <p>If the parameter is set to yes, the FROM header's display-name and user-id fields are set to anonymous when the caller blocks his caller-id. If the parameter is set to no, the FROM header's display-name and user-id are not masked. The Remote-Party-ID header indicates privacy=full when the caller wishes to block his caller-id.</p> <p>Defaults to yes.</p> <p>Note Not applicable to the Cisco WIP310.</p> |
| Set G729annexb | <p>Configure G.729 Annex B settings.</p> <p>Note Not applicable to Cisco SPA525G or Cisco SPA525G2.</p> |

| Parameter | Description |
|------------------------------|---|
| Voice Quality Report Address | <p>For configuration of a SIP event package, SIP PUBLISH, that enables the collection and reporting of metrics that measure the quality for VoIP sessions. Voice call quality information derived from RTCP-XR and call information from SIP is conveyed from a User Agent in a session to the third party in SIP PUBLISH method.</p> <p>To configure, first configure RTCP-XR (see RTP Parameters). Configure the RTCP Tx Interval. In the Voice Quality Report Address field, enter the name of the collector that collects the statistics from the SIP PUBLISH events. For example, enter collector@fully-qualified-domain-name (collector@reports.cisco.com) or collector@IP-address (collector@192.168.5.1).</p> <p>After RTCP-XR feature is enabled, the call status information is updated on Voice > Info during an active call. Additionally, RTCP-XR packets containing a voice metrics block report are sent with the interval specified in the RTCP Tx Interval. When the call session is ended, a SIP PUBLISH with voice metrics information is sent to the collector endpoint. This parameter supports a full SIP URI. Examples of valid addresses are:</p> <ul style="list-style-type: none"> • collector@domain.com • 123.collect@123.123.123.123:5555 • 5678@domain.com:5656 <p>For example to configure for extension 1, edit the phone configuration file as follows:</p> <pre><Voice_Quality_Report_Address_1_ ua="na">collector@domain.com </Voice_Quality_Report_Address_1_> <Voice_Quality_Report_Address_1_ ua="na">123.collect@123.123.123.123:5555 </Voice_Quality_Report_Address_1_> <Voice_Quality_Report_Address_1_ ua="na">5678@domain.com:5656 </Voice_Quality_Report_Address_1_></pre> |
| User Equal Phone | <p>When a tel URL is converted to a SIP URL and the telephone number is represented by the user portion of the URI, the SIP URL includes the optional :user=phone parameter (RFC3261). For example:</p> <pre>To: sip:+12325551234@example.com;user=phone</pre> <p>To enable this optional parameter, choose yes. The default value is no.</p> |

Call Feature Settings

| Parameter | Description |
|------------------------|--|
| Blind Attn-Xfer Enable | <p>Enables the IP phone to perform an attended transfer operation by ending the current call leg and performing a blind transfer of the other call leg. If this feature is disabled, the IP phone performs an attended transfer operation by referring the other call leg to the current call leg while maintaining both call legs. To use this feature, select yes. Otherwise, select no.</p> <p>Defaults to no.</p> |
| MOH Server | <p>User ID or URL of the auto-answering streaming audio server. When only a user ID is specified, the current or outbound proxy is contacted. Music-on-hold is disabled if the MOH Server is not specified.</p> <p>Defaults to imusic when used with a Cisco SPA9000 IP PBX.</p> |
| Message Waiting | <p>Indicates whether the Message Waiting Indicator on the phone is lit. This parameter is toggled by a message from the SIP proxy to indicate if a message is waiting. You can manually modify it to clear or set the flag in the Ext 1-6 tab.</p> <p>Setting this value to Yes can activate stutter tone and VMWI signal. This parameter is stored in long-term memory and survives after reboot or power cycle.</p> <p>Defaults to No.</p> |
| Auth Page | <p>Specifies whether to authenticate the invite before auto answering a page.</p> <p>Defaults to No.</p> |
| Default Ring | <p>Type of ring heard. This corresponds to the Ring Tone on the Phone tab. Choose from No Ring, 1 through 10, User 1, or User 2.</p> <p>Defaults to 1.</p> |
| Auth Page Realm | <p>Identifies the Realm part of the Auth that is accepted when the Auth Page parameter is set to yes. This parameter accepts alphanumeric characters.</p> <p>Defaults to blank.</p> |
| Conference Bridge URL | <p>This is the URL used to join into a conference call, generally in the form of the word conference or user@IPaddress:port.</p> <p>Defaults to blank.</p> |
| Auth Page Password | <p>Identifies the password used when the Auth Page parameter is set to yes. This parameter accepts alphanumeric characters.</p> <p>Defaults to blank.</p> |
| Mailbox ID | <p>Identifies the voice mailbox number/ID for the phone.</p> <p>Defaults to blank.</p> |
| Voice Mail Server | <p>Identifies the SpecVM server for the phone, generally the IP address and port number of the VM server.</p> |

| Parameter | Description |
|---|--|
| Voice Mail Subscribe Interval | The expiration time, in seconds, of a subscription to a voice mail server. |
| State Agent | Reserved feature. |
| CFWD Notify Serv | Specifies whether to enable a SIP-B feature regarding the sending of a Notify to the phone when a call is forwarded elsewhere. Defaults to No. |
| CFWD Notifier | Typically, this field is configured with the SIP proxy information. |
| User ID with Domain (Cisco SPA300 Series and SPA 50X IP Phones) | When this field is set to yes , the IP phone will show the Caller ID followed by domain name, and the domain name is also shown in the received calls list. This parameter is used when calls are made between different branches of the same phone system. For example, if user John@domain1.com receives a call from Mary@domain2.com, by default the phone only shows the call as being from Mary, so John is not able to pick up or call back Mary from the received call list. With this parameter set to yes , the phone logs the call as being from Mary@domain2.com, and John can dial Mary from the received call list. |
| BroadSoft ACD | <p>This parameter enables support for basic BroadSoft Automatic Call Distribution (ACD). The supported values for this option are Yes and No (default).</p> <p>If you set Broadsoft ACD to Yes, the phone sends a Subscribe message according to the BroadSoft specification.</p> <p>If you set Broadsoft ACD to No, the phone may still send out a Subscribe message because another feature is using ACD, but the phone ignores any Notify message from the BroadSoft server related to ACD.</p> <p>Limitations:</p> <ul style="list-style-type: none"> • Cisco SPA301 or Cisco SPA501G—ACD is not supported. The ACD Login and Status keys are not visible. • Cisco SPA509—Lines 9–12 cannot be used as ACD Agents since the Lines cannot be selected for Login/Logout and Agent status. <p>You can also configure BroadSoft ACD support by adding the following line to your configuration file to configure this feature on line 1:</p> <pre><Broadsoft_ACD_1_ ua="na">Yes</Broadsoft_ACD_1_></pre> |

| Parameter | Description |
|-------------------------------|--|
| Auto Ans Page on Active Call | <p>In conjunction with the global Auto Answer Page parameter (found in the Phone tab), this parameter determines the behavior of the phone when a page call arrives.</p> <p>When set to no, page calls are not auto answered (even if the phone is idle), regardless of the value of the global Auto Answer Page setting in the Phone tab. When the global Auto Answer Page parameter is set to yes, whether page calls are auto answered or not during an active call depends on the <i>per line</i> Auto Answer Page setting (this parameter). Both Auto Answer Page and Auto Answer Page on Active Call are enabled by default.</p> |
| Feature Key Sync | <p>Allows the phone to synchronize with the call server. If yes is selected, if Do Not Disturb or Call Forwarding settings are changed on the phone, changes are also made on the server; if changes are made on the server, they are propagated to the phone.</p> <p>This feature is disabled by default.</p> |
| Call Park Monitor Enable | <p>When this parameter is set to yes, the phone monitors the call park status against that extension. When the extension is private, the phone sends out the call park SUBSCRIBE message to the server to request call park notification. When the extension is shared, the SCA SUBSCRIBE includes an ACCEPT header with the <i>x-broadworks-callpark-info</i> tag.</p> <p>By default, a BLF button always sends out a SUBSCRIBE message, and the server notifies the BLF button if there is a call parked against the monitor extension. The phone presents this information to the user without any client-side configuration.</p> <p>When this parameter is set to no, the primary extension or shared extension will not monitor the call park status.</p> |
| Enable Broadsoft Hoteling | <p>Default is no.</p> <p>When this parameter is set to yes, the phone sends out subscription message (without body) to the server; the phone requests "GuestIn" on the registered extension line with input "User ID" and "Password." The phone then sends out subscription message (with body) to the server with the 'guestAddress' attribute containing the "User ID" and "Password" for authentication.</p> <p>When this parameter is set to no, the phone sends out unsubscribe message (with empty body) to the server to request Host-Guest Association termination.</p> |
| Hoteling Subscription Expires | <p>An expiration value is put in the subscription message. Default value is 3600.</p> <p>Note If this parameter is set to 0, the default 3600 is used instead.</p> |

Proxy and Registration

| Parameter | Description |
|---|--|
| Proxy | SIP proxy server and port number set by the Service Provider for all outbound requests. For example: 192.168.2.100:6060. |
| Outbound Proxy | SIP Outbound Proxy Server where all outbound requests are sent as the first hop. |
| Alternate Proxy Alternate Outbound Proxy | <p>These fields are used with the Verizon dual registration/fast fallback feature. This feature provides fast fallback when there is network partition at the Internet or when the primary proxy (or primary outbound proxy) is not responsive or available. The feature works well in a Verizon deployment environment as the alternate proxy is the Integrated Service Router (ISR) with analog outbound phone connection.</p> <p>Enter the proxy server addresses and port numbers in these fields. After the phone is registered to the primary proxy and the alternate proxy (or primary outbound proxy and alternate outbound proxy), the phone always sends out INVITE and Non-INVITE SIP messages (except registration) via the primary proxy. The phone always registers to both the primary and alternate proxies. If there is no response from the primary proxy after timeout (per the SIP RFC spec) for a new INVITE, the phone attempts to connect with the alternate proxy. The phone always tries the primary proxy first, and immediately tries the alternate proxy if the primary is unreachable.</p> <p>Active transactions (calls) never fall back between the primary and alternate proxies. If there is fallback for a new INVITE, the subscribe/notify transaction will fall back accordingly so that the phone's state can be maintained properly.</p> <p>You must also set Dual Registration in the Proxy and Registration section to yes.</p> |

| Parameter | Description |
|------------------------|--|
| Use Outbound Proxy | <p>Enables an outbound proxy (for example, 172.20.2.1:5060—port is optional) or a domain name such as sip.server.com as long as this name is a fully-qualified domain name. If set to no, the Outbound Proxy and Use OB Proxy in Dialog fields are ignored.</p> <p>Defaults to no.</p> <p>Optionally, the proxy can be configured (Cisco SPA500 Series only) for Survivable Remote Site Telephony (SRST) support. The proxy is configured with an extension that includes a statically-configured DNS SRV record or DNS A record. Configuring the proxy allows for failover and fallback functionality with a secondary proxy server. For example:</p> <p>For SRV Record:</p> <pre> sip.server.com:SRV=node1.sip.server.com:5060:p=1:w=50 node2.sip.server.com:5060:p=2:w=50 </pre> <p>Set Use DNS SRV to no and DNS SRV Auto Prefix to no.</p> <p>For A Record:</p> <pre> sip.server.com:A=172.20.2.1,172.20.2.2 </pre> <p>Set Use DNS SRV to no and DNS SRV Auto Prefix to no.</p> |
| Use OB Proxy In Dialog | <p>Whether to force SIP requests to be sent to the outbound proxy within a dialog. Ignored if <Use Outbound Proxy> is no or <Outbound Proxy> is empty.</p> <p>Defaults to yes.</p> |
| Register | <p>Enable periodic registration with the <Proxy>. This parameter is ignored if <Proxy> is not specified.</p> <p>Defaults to yes.</p> |
| Make Call Without Reg | <p>Allow making outbound calls without successful (dynamic) registration by the unit. If no, the dial tone will not play unless registration is successful.</p> <p>Defaults to no.</p> |
| Register Expires | <p>Allow answering inbound calls without successful (dynamic) registration by the unit. If proxy responded to REGISTER with a smaller Expires value, the phone will renew registration based on this smaller value instead of the configured value. If registration failed with an Expires too brief error response, the phone will retry with the value given in the Min-Expires header in the error response.</p> <p>Defaults to 60.</p> |
| Ans Call Without Reg | <p>If enabled, the user does not have to be registered with the proxy to answer calls.</p> <p>Defaults to no.</p> |
| Use DNS SRV | <p>Whether to use DNS SRV lookup for Proxy and Outbound Proxy.</p> <p>Defaults to no.</p> |

| Parameter | Description |
|-----------------------------|---|
| DNS SRV Auto Prefix | <p>If enabled, the phone will automatically prepend the Proxy or Outbound Proxy name with <code>_sip._udp</code> when performing a DNS SRV lookup on that name.</p> <p>Defaults to no.</p> |
| Proxy Fallback Intvl | <p>This parameter sets the delay (sec) after which the phone will retry from the highest priority proxy (or outbound proxy) servers after it has failed over to a lower priority server. This parameter is useful only if the primary and backup proxy server list is provided to the phone via DNS SRV record lookup on the server name. (Using multiple DNS A record per server name does not allow the notion of priority and so all hosts will be considered at the same priority and the phone will not attempt to fall back after a fail over).</p> <p>Defaults to 3600</p> |
| Proxy Redundancy Method | <p>Select Normal or Based on SRV port. The phone creates an internal list of proxies returned in the DNS SRV records.</p> <p>If you select Normal, the list contains proxies ranked by weight and priority.</p> <p>If you select Based on SRV, the phone uses normal, then inspects the port number based on the first listed proxy port.</p> <p>Defaults to Normal.</p> |
| Dual Registration | <p>Set to yes to enable the Verizon dual registration/fast fallback feature. You must also configure the alternate proxy/alternate outbound proxy fields in the Proxy and Registration section.</p> |
| Auto Register when Failover | <p>This parameter controls the failover behavior when there is an error.</p> <p>Defaults to no.</p> <p>There are 2 Failover options:</p> <ul style="list-style-type: none"> • Unregister with current proxy, register to backup proxy and then re-send to backup proxy. <p>This option can be used under the following conditions:</p> <ul style="list-style-type: none"> • The parameter Auto Register when Failover is set to yes. • The failed message should be an INVITE message. • The return code should match the parameter Try Backup RSC, otherwise the message times out. <p>Note When the parameter Auto Register when Failover is set to no, if the return code matches with Try Backup RSC or the message times out, the phone re-sends this message directly to backup proxy.</p> <ul style="list-style-type: none"> • Re-send directly to backup proxy. |

Subscriber Information

| Parameter | Description |
|------------------------|---|
| Display Name | Display name for caller ID. |
| User ID | Extension number for this line. |
| Password | Password for this line. Defaults to blank. |
| Use Auth ID | To use the authentication ID and password for SIP authentication, select yes. Otherwise, select no to use the user ID and password. Defaults to no. |
| Auth ID | Authentication ID for SIP authentication. Defaults to blank. |
| Reversed Auth Realm | The Reversed Authentication Realm field. The default value is empty; the proxy address is used as the authentication realm. To use a different authentication realm, enter the IP address to use in the Reversed Authentication Realm field. |
| Mini Certificate | Base64 encoded of Mini-Certificate concatenated with the 1024-bit public key of the certificate authority (CA) signing the mini-certificate of all subscribers in the group. Defaults to blank. |
| SRTP Private Key | Base64 encoded of the 512-bit private key per subscriber for establishment of a secure call. Defaults to blank. |
| Resident Online Number | For Skype use. Enter the Skype Number associated with the registration user ID. |
| SIP URI | The parameter by which the user agent will identify itself for this line. If this field is blank, the actual URI used in the SIP signaling should be automatically formed as: "sip:UserName@Domain" Where UserName is the username given for this line in the User ID, and Domain is the domain given for this profile in the User Agent Domain. If the User Agent Domain is an empty string, then the IP address of the phone should be used for the domain. If the URI field is not empty, but is a SIP or SIPS URI that contains no "@" character, then the actual URI used in the SIP signaling should be automatically formed by appending this parameter with an "@" character followed by the IP address of the device. |

Audio Configuration

A codec resource is considered as allocated if it has been included in the SDP codec list of an active call, even though it eventually might not be the one chosen for the connection. So, if the G.729a codec is enabled and included in the codec list, that resource is tied up until the end of the call whether or not the call actually uses G.729a. If the G.729a resource is already allocated and since only one G.729a resource is allowed per device, no other low-bit-rate codec might be allocated for subsequent calls; the only choices are G711a and G711u. On the other hand, two G.723.1/G.726 resources are available per device.

Therefore, it is important to disable the use of G.729a in order to guarantee the support of two simultaneous uses of the G.723/G.726 codecs.

| Parameter | Description |
|------------------------|--|
| Preferred Codec | Preferred codec for all calls. (The actual codec used in a call still depends on the outcome of the codec negotiation protocol.) Select one of the following: G711u, G711a, G722, G726-16, G726-24, G726-32, G726-40, G729a, or G723. Cisco SPA525G or Cisco SPA525G2: G711u, G711a, G726-32, G729a, and G722. G.723 (not available on Cisco SPA300 Series or Cisco SPA500 Series). G722 not available on Cisco WIP310. Defaults to G711u. |
| Use Pref Codec Only | To use only the preferred codec for all calls, select yes. (The call fails if the far end does not support this codec.) Otherwise, select no. Defaults to no. |
| Second Preferred Codec | The second preferred codec when the preferred codec cannot be used. If <i>Use Pref Codec Only</i> is enabled (set to yes), this parameter is not used. Defaults to Unspecified. |
| Third Preferred Codec | The third preferred codec when the preferred codec and second preferred codec cannot be used. If <i>Use Pref Codec Only</i> is enabled (set to yes), this parameter is not used. Defaults to Unspecified. |
| G711u Enable | Enables use of the G711u codec. Defaults to yes. |
| G711a Enable | Enables use of the G711a codec. Defaults to yes. |
| G729a Enable | To enable the use of the G.729a codec at 8 kbps, select yes. Otherwise, select no. Defaults to yes. |
| G722 Enable | Enables use of the G.722 codec. Defaults to yes. Note Not applicable to the Cisco WIP310. |
| G723 Enable | To enable the use of the G.723a codec at 6.3 kbps, select yes . Otherwise, select no . Defaults to yes. Note G.723 is not supported on the Cisco SPA300 Series, Cisco SPA500 Series, or Cisco WIP310. |

| Parameter | Description |
|----------------------|--|
| G726-16 Enable | To enable the use of the G.726 codec at 16 kbps, select yes . Otherwise, select no . Defaults to yes. Note Not supported on the Cisco SPA525G or Cisco SPA525G2. |
| G726-24 Enable | To enable the use of the G.726 codec at 24 kbps, select yes . Otherwise, select no . Defaults to yes. Note Not supported on the Cisco SPA525G or Cisco SPA525G2 or Cisco WIP310. |
| L16 Enable | To enable the use of the L16 codec, select yes . Otherwise, select no . Defaults to yes. Note Cisco SPA525G or Cisco SPA525G2 only. |
| G726-32 Enable | To enable the use of the G.726 codec at 32 kbps, select yes . Otherwise, select no . Defaults to yes. |
| G726-40 Enable | To enable the use of the G.726 codec at 40 kbps, select yes . Otherwise, select no . Defaults to yes. Note Not applicable to the Cisco SPA525G or Cisco SPA525G2. |
| Release Unused Codec | Allows the release of codecs not used after codec negotiation on the first call so that other codecs can be used for the second line. To use this feature, select yes . Defaults to yes. |
| DTMF Process AVT | Select yes to process RTP DTMF events. Otherwise, select no . If this parameter is set to no, the AVT payload type is not included in outbound SDP. Defaults to yes. |
| Silence Supp Enable | To enable silence suppression so that silent audio frames are not transmitted, select yes . Otherwise, select no . Defaults to no . |
| DTMF Tx Method | Select the method to transmit DTMF signals to the far end: InBand, AVT, INFO, Auto, InBand+INFO, or AVT+INFO. InBand sends DTMF using the audio path. AVT sends DTMF as AVT events. INFO uses the SIP INFO method. Auto uses InBand or AVT based on the outcome of codec negotiation. Defaults to Auto. |

| Parameter | Description |
|-------------------------------|--|
| DTMF Tx Volume for AVT Packet | <p>Allows you to manually configure the AVT Tx volume. The value of this parameter is inserted into the volume field of the payload in the AVT packet.</p> <p>Values are based on the AVT specification as described in RFC 2833, <i>RTP Payload for DTMF Digits, Telephony Tones and Telephony Signals</i>. According to RFC 2833, the volume field is represented by 6 bits, and describes the power level of the tone, expressed in dBm0 after dropping the sign.</p> <p>Valid range for this parameter is 0 to 63. If the provisioned value is negative, it will be negated first. Thereafter, if the value is beyond the high limit of 63, it will be clipped to 63.</p> <p>The default value is 0, and is the recommended setting. However, some gateways do not accept this volume setting. If the gateway does not accept the value of 0, the DTMF tone is not relayed to the remote end. As a workaround for the phone to interoperate with those gateways, you can change the value to a value greater than 0.</p> |
| Use Remote Pref Codec | <p>If set to yes, the phone communicates using the remote phone preferred codec. If set to no, the Cisco IP phone communicates using its own preferred codec (as indicated in the Preferred Codec field and in the SDP by order of preferences). The default value is no.</p> |
| Codec Negotiation | <p>When set to Default, the Cisco IP phone responds to an Invite with a 200 OK response advertising the preferred codec only. When set to List All, the Cisco IP phone responds listing all the codecs that the phone supports. The default value is Default, or to respond with the preferred codec only.</p> |

A codec resource is considered allocated if it has been included in the SDP codec list of an active call, even though it eventually might not be chosen for the connection. If the G.729a codec is enabled and included in the codec list, that resource is tied up until the end of the call whether or not the call actually uses G.729a. If the G.729a resource is already allocated (and since only one G.729a resource is allowed per phone), no other low-bit-rate codec can be allocated for subsequent calls. The only choices are G711a and G711u.

Since two G.723.1/G.726 resources are available per IP phone, you should disable the use of G.729a to guarantee support for two simultaneous G.723/G.726 codecs.

Dial Plan Script

The default dial plan script for each line is as follows:

```
(*xx|[3469]11|0|00|[2-9]xxxxxx|1xxx[2-9]xxxxxx|xxxxxxxxxxxxx.)
```

| Parameter | Description |
|-------------------|--|
| Dial Plan | <p>Dial plan script for this line.</p> <p>The default is (<9:>xx.)</p> <pre>(*xx [3469]11 0 00 [2-9]xxxxxxxx 1xxx[2-9]xxxxxxxxS0 xxxxx xxxxxxxx.)</pre> <p>The dial plan syntax is expanded in the Cisco SPA IP phones to allow the designation of three parameters to be used with a specific gateway:</p> <ul style="list-style-type: none"> • uid— authentication user-id • pwd—authentication password • nat— if this parameter is present, use NAT mapping <p>Each parameter is separated by a semi-colon (;).</p> |
| Caller ID Map | <p>Inbound caller ID numbers can be mapped to a different string. For example, a number that begins with +44xxxxxx can be mapped to 0xxxxxx. This feature has the same syntax as the Dial Plan parameter. With this parameter, you can specify how to map a caller ID number for display on screen and recorded into call logs. (Not applicable to Cisco WIP310.)</p> |
| Enable IP Dialing | <p>Enable or disable IP dialing.</p> <p>Defaults to no.</p> |

User Tab

This section describes the fields for the User tab.

Call Forward

| Parameter | Description |
|-------------------|---|
| Cfwd Setting | The overall control to turn on all forward functions. Defaults to yes. |
| Cfwd All Dest | Enter the extensions to forward calls to. |
| Cfwd Busy Dest | Enter the extensions to forward calls to when the line is busy. Defaults to voice mail. |
| Cfwd No Ans Dest | Enter the extension to forward calls to when the call is not answered. Defaults to voice mail. |
| Cfwd No Ans Delay | Enter the time delay in seconds to wait before forwarding a call that is not answered. Defaults to 20 seconds. |

See [Vertical Service Activation Codes](#) for more information on call forwarding parameters.

Speed Dial

You can configure speed dials on the Cisco SPA300 Series and Cisco SPA500 Series IP phones. Speed dial configuration is on a separate tab on the Cisco SPA525G or Cisco SPA525G2. It is not configurable from the phone web user interface on the Cisco WIP310. Speed dial configuration for the Cisco WIP310 is done on the IP phone screen.

Speed Dial 2 through 9: Target phone number (or URL) assigned to speed dial 2, 3, 4, 5, 6, 7, 8, or 9. Defaults to blank.

See the respective phone user guides for the phone for more information.

Supplementary Services

The IP phone provides native support of a large set of enhanced or supplementary services. All of these services are optional. A supplementary service should be disabled if the user has not subscribed to it or the service provider intends to support similar service by using other means.

A value of **yes** indicates the service is enabled; **no** indicates it is disabled.

| Parameter | Description |
|---------------------------|---|
| CW Setting | Enables or disables call waiting. |
| Block CID Setting | Enables or disables the Block Caller ID feature (caller ID is not transmitted). |
| Block ANC Setting | Enables or disables the blocking of anonymous calls. |
| DND Setting | Enables or disables Do Not Disturb. |
| Secure Call Setting | Enables or disables Secure Call. |
| Dial Assistance | Enables or disables Dial Assistance. |
| Auto Answer Page | Enables or disables automatic answering of paged calls. |
| Speakerphone DTMF Masking | Masks the DTMF playback when using the speakerphone. |

| Parameter | Description |
|-------------------------------|--|
| Preferred Audio Device | Designates the headset or the speaker as the preferred audio device. When the user answers a call by pressing the line button, the audio is directed to the chosen destination. Options for SPA30X, SPA50X, and SPA51X phones: <ul style="list-style-type: none"> • Speaker—Default value. The audio will direct to the speaker. • Headset—The audio will direct to the headset. Options for SPA525G or SPA525G2 phones: <ul style="list-style-type: none"> • Speaker—The audio will direct to the speaker. • Headset—The audio will direct to the headset. If Bluetooth is connected, direct to Bluetooth. • Bluetooth—The audio will direct to Bluetooth. If the Bluetooth headset is not connected, direct to headset. • None—Default value. The audio will direct to the last used audio device. If no last used audio device, the speaker is used. If offhook, direct to the handset |
| Send Audio to Speaker | If enabled, sends the audio to the speaker when the handset is lifted. The handset operates normally, but the speaker is muted. |
| Time Format | Choose the time format for the phone (12 or 24 hour). |
| Date Format | Choose the date format for the phone (month/day or day/month). |
| Miss Call Shortcut | Enables or disables a shortcut that appears as a softkey on the phone screen when a call is missed. The “miss” softkey, when pressed, returns the missed call. |
| Miss Call Banner | Enables or disables the notification on the phone screen that tells the user that a call has been missed. |
| Accept Media Loopback Request | Chooses the following behavior of the phone when responding to calls from an IP media loopback service (normally for testing purposes). The options are: <ul style="list-style-type: none"> • Never—Do not accept media loopback calls. • Automatic—Automatically accept media loopback calls. • Manual—Manually accept media loopback calls. |
| Media Loopback Mode | For media loopback calls, choose the loopback mode. One end is source, the other end is mirror. |
| Media Loopback Type | For media loopback calls, choose the loopback type (media or packet). |
| Text Message | Enables or disables receipt and display of text messages on Cisco SPA303 and Cisco SPA5XX phones by using SIP (RFC-3428). When this feature is enabled, the IP phone screen displays messages up to 255 characters in length. The message appears on the IP phone screen along with the date and time. |
| Text Message From 3rd Party | To enable receipt of text messages from a third party directly without proxy involvement, choose yes to enable. |

| Parameter | Description |
|----------------------------------|--|
| Alert Tone Off | Turn on or turn off the alert tone upon incoming paging or instant messages. |
| Log Missed Calls for Ext<number> | Enables or disables missed call logging per extension. For example, if you have set up a line to monitor another user line, you can disable missed call logging for the monitored line. |
| Shared Line DND Cfw Enable | For shared lines, allows the phone to synchronize with the call server. If yes is selected, if Do Not Disturb or Call Forwarding settings are changed on the phone, changes are also made on the server; if changes are made on the server, they are propagated to the phone. This feature is disabled by default. |
| DND Cfw Active Warning | (Applicable to SPA508 and SPA509 only). If "Yes", DND and CFWD message is shown as in other phone models. |

Camera Settings (Cisco SPA525G or Cisco SPA525G2)

The Cisco SPA525G or Cisco SPA525G2 works with the Cisco WVC2300 Wireless-G Business Internet Video Camera and the Cisco PVC2300 Business Internet Video Camera to provide simple video monitoring from your IP phone. See [Entering Camera Information Into the Cisco SPA525G or Cisco SPA525G2 Configuration Utility](#).

Web Information Service Settings (Cisco SPA525G or Cisco SPA525G2)

These parameters apply only to the Cisco SPA525G or Cisco SPA525G2. For configuration information, see [Configuring RSS Newsfeeds \(Cisco SPA525G or Cisco SPA525G2\)](#).

Audio (SPA5XX)/Audio Volume (SPA525G/525G2)



Note

Does not apply to the Cisco WIP310.

| Parameter | Description |
|----------------|---|
| Ringer Volume | Sets the default volume for the ringer. |
| Speaker Volume | Sets the default volume for the full-duplex speakerphone. |
| Handset Volume | Sets the default volume for the handset. |
| Headset Volume | Sets the default volume for the headset. |

| | |
|---|--|
| Handset Version | <p>Change the handset version manually.</p> <p>Auto—Phone automatically sets the handset version based on the hardware version and model. (Default)</p> <p>Original—Handset set to Version 2 and below.</p> <p>V3—Handset set to Version 3.</p> |
| Deep Bass | <p>Configures the audio bass settings for the phone handset.</p> <p>For SPA50X and SPA51X phones, the settings are:</p> <ul style="list-style-type: none"> • Default—Default equalization (EQ) taking advantage of the wideband handset. • HiDef—Alternative EQ that accentuates the high frequencies. • Standard—Emulates the sound of a traditional, narrowband handset. <p>For the SPA525G/525G2 phone, the settings are:</p> <ul style="list-style-type: none"> • Yes—Default equalization (EQ) taking advantage of the wideband handset. • No—Alternative EQ that accentuates the high frequencies. |
| Bluetooth Volume | <p>Volume of the Bluetooth device.</p> <p>Note Applies to the Cisco SPA525G or Cisco SPA525G2 only.</p> |
| Electronic HookSwitch Control (EHC) - (SPA525G/SPA525G2) EHS Type (SPA51X) | <p>Some headsets enable you to answer and end phone calls by using controls located on the headset. Set this parameter to yes if the user is using a headset with a control function. This feature has been tested with Plantronics base/headsets (that require adapter APC45):</p> <ul style="list-style-type: none"> • Savi W7xx series (Savi W710, W720, W730, W740, and W745) • CS5xx series (CS 540, CS 510, and CS520) <p>The default setting is no.</p> |
| Speakerphone Enable | <p>Enables or disables the speakerphone. If the parameter is set to yes (the default setting), the speakerphone is enabled. If the parameter is set to no, the speakerphone is disabled, and pressing the Speakerphone button on the phone sends the audio to the phone handset instead of the speaker.</p> |
| Mute Enable | <p>Allows you to enable or disable the Mute button.</p> <p>The default value is Yes.</p> <p>If the parameter is set to No, the user cannot mute the audio.</p> <p>Note This field is supported in Firmware Release 7.6.2 and later.</p> |

Screen (Cisco SPA525G or Cisco SPA525G2)

| Parameter | Description |
|---------------------------|--|
| Screen Saver Enable | Enables a screen saver on the IP phone screen. When the phone is idle for a specified time, it enters screen saver mode. (Users can set up screen savers directly using phone Setup button.) Any button press or on/off hook event triggers the phone to return to its normal mode. (The screen shows “Press any key to unlock your phone.”) If a user password is set, the user must enter it to exit screen saver mode. |
| Screen Saver Type | Choose the type of screen saver: <ul style="list-style-type: none"> • Black Background—Displays a black screen. • Gray Background—Displays a gray screen. • Black/Gray Rotation—The screen incrementally cycles from black to gray. • Picture Rotation—The screen rotates through available pictures on the phone. • Digital Frame—Shows the background picture. |
| Screen Saver Trigger Time | Number of seconds that the phone remains idle before the screen saver turns on. |
| Screen Saver Refresh Time | Number of seconds before the screen saver should refresh (if, for example, you chose a rotation of pictures). |
| Text Logo | Text logo to display when the phone boots up. A service provider, for example, can enter logo text as follows: <ul style="list-style-type: none"> • Up to 2 lines of text • Each line must be fewer than 32 characters • Insert a new line character (\n) between lines • Insert escape code %0a For example, “Super\n%0aTelecom” will display: <pre>Super Telecom</pre> For more information, see the “Configuring Phone Information and Display Settings” section on page 3-2. |
| BMP Picture Download URL | URL locating the bitmap (.BMP) or .jpg file to display on the IP phone screen background. <p>For more information, see the “Configuring Phone Information and Display Settings” section on page 3-2.</p> |
| Logo Type | Select from Default, Download BMP Picture, or Text Logo. <p>Defaults to Default.</p> <p>For more information, see the “Configuring Phone Information and Display Settings” section on page 3-2.</p> |

| Parameter | Description |
|-------------------------|--|
| Background Picture Type | Select from Default, Download BMP Picture, or None. Defaults to Default. For more information, see the “Configuring Phone Information and Display Settings” section on page 3-2. |
| LCD Contrast | Enter a number value from 1 to 30. The higher the number, the greater the contrast on the IP phone screen. |
| Back Light Enable | Select yes to enable the IP phone screen back light. |
| Back Light Timer (sec) | Enter the number of seconds before the back light should turn off. |

Attendant Console Tab (Cisco SPA500 and Cisco SPA500DS)

General

| Parameter | Description |
|------------------------------------|--|
| Subscribe Expires | Specifies how long the subscription remains valid. After the specified period of time, elapses, the Cisco Attendant Console initiates a new subscription. Defaults to 1800. |
| Subscribe Retry Interval | Specifies the length of time to wait to try again if subscription fails. |
| Unit 1 Enable | Enables or disables the first Cisco Attendant Console unit (each IP phone can have up to two Cisco Attendant Consoles attached). |
| Subscribe Delay | Length of delay before attempting to subscribe. Defaults to 1. |
| Unit 2 Enable | Enables or disables the second Cisco Attendant Console unit (each IP phone can have up to two Cisco Attendant Consoles attached). |
| Server Type | Selects the type of server used (Cisco SPA9000, BroadSoft, or Asterisk). |
| Test Mode Enable | Enables or disables test mode. When test mode is enabled, the LEDs are turned on when keys are pressed, going from off to green to red, and back to off. In test mode, when all the buttons on the Cisco Attendant Console are returned to off, all the keys become orange. The IP phone must be rebooted after the test is completed. |
| Attendant Console Call Pickup Code | The star code used for picking up a ringing call. Defaults to *98. |
| Attendant Console Call Park Code | Not supported on Cisco SPA501, SPA502, and SPA301 phones. |
| Attendant Console Call unPark Code | You can configure a dedicated call park button to park a call, unpark a call and monitor the parking lot status. For more information on configuring call park buttons, see the “Unused line keys can be enabled to allow call park (for the MetaSwitch soft switch) on the Cisco SPA300 and SPA500 series phones. Users can press this line button to park a call or retrieve a parked call.” section on page 2-10. The Call Park code field contains the star code used for parking a call. Defaults to *68. The unPark code field contains the star code used for retrieving a parked call. Defaults to *88. You can change these values to the values used by the call server (for example, the BroadSoft server). |
| BLF List URI | Automatically configures Busy Lamp Field (BLF) subscriptions for all users on a monitored list. Note This feature generates the BLF configuration to the attendant console keys, not the regular line keys. |

| Parameter | Description |
|---|---|
| Use Line Keys For BLF List | Set the parameter to yes , to use the the line keys first for Broadsoft BLF list feature. Default is no . Note Previously, the phone used only side-car keys for Broadsoft BLF list feature |
| BLF Label Display Mode | This parameter displays both name and extension for BLF keys. Note Can be configured via phone UI also. The values are "Name/Ext/Both." Default is "Name". If set to "Both:" Line keys —Display alternates between name and extension in 5 seconds intervals. Sidecar keys —Both name and extension will be shown. The phone tries to render a single line using the selected font. If there is less space, it tries successively with smaller size fonts. If it fails even with 8pt, it renders name and extension in two lines. |
| Call Pickup Audio Notification | By default, this parameter is set to no . If you set it to yes , the phone plays the Call Pickup tone when there are incoming calls to any of the lines that the user is monitoring with the Call Pickup function. |
| Attendant Console LCD Contrast (SPA500DS) | The contrast between the text, lines, and background on the attendant console display. Enter a number value from 1 to 30. The higher the number, the greater the contrast on the display. |
| Attendant Console Font Size (SPA500DS) | Font size of the text on the attendant console display. Choose 10 or 12 point font. |
| BXfer to Starcode Enable | When set to yes , the phone performs a blind transfer when the *code is defined in a speed dial extended function,. If set to no , the current call is held and a new call is started to the speed dial destination. |
| BXfer on Speed Dial Enable | When set to yes , the phone performs a blind transfer when the speed dial function key is selected. When set to no , the current connected call is held and a new call to the speed dial destination is started. For example, when a user parks a call using the speed dial function, if the parameter is enabled, a blind transfer is performed to the parking lot. If the parameter is not enabled, an attended transfer is performed to the parking lot. |
| Unit 1/2 Key 1-32 (SPA500S) Unit 1/2 Key 1-30 (SPA500DS) | Enter a strings that define the extension and other parameters associated with each lighted button on the first Cisco Attendant Console. Keywords and values are case-sensitive. |

Attendant Key LED Patterns

The configuration for the attendant key LED patterns is the same as the line key LED script described in [Chapter 9, “Configuring LED Patterns.”](#)

| Parameter | Description |
|---------------------------|---|
| Application LED | Extended applications (for example, speed dial, xml, mp3, weather, news) are ready for use. |
| Serv Subscribe Failed LED | BLF service subscription failed. |
| Serv Subscribing LED | BLF service subscription is on proceeding. |
| SNRM Day Mode LED | (Used with Cisco UC320W.) The System Night Ringing Mode (SNRM) is turned off. The system is in day mode. |
| SNRM Night Mode LED | (Used with Cisco UC320W.) The SNRM is turned on. The system is in night mode. |
| Parking Lot Idle LED | <p>These parameters are used to define the LED pattern when the extension is in the parked state.</p> <p>By default, when there is a call parked on the monitored line (parking lot busy), the phone line LED is in a very slow red blinking state (150ms on, 150ms off). When there is no call parked on the monitored line (parking lot idle), the phone line LED will be in off (or line idle) state. If the button is the primary line, shared line or BLF line, the button LED will reflect the current button status and not reflect the Parking Lot Idle status if the parking lot is idle. If the button is a call park button, the button will reflect the Parking Lot Idle or Parking Lot Busy statuses.</p> <p>To define a pattern other than the default (slow red blinking), enter a pattern in these fields. See Chapter 9, “Configuring LED Patterns.”</p> |
| Parking Lot Busy LED | |
| BLF Idle LED | Busy lamp field service: the monitored phone or line is in the idle state. |
| BLF Ringing LED | Busy lamp field service: the monitored phone or line is in the ringing state. |
| BLF Busy LED | Busy lamp field service: the monitored phone or line is in the busy state. |
| BLF Held LED | Busy lamp field service: the monitored phone or line is in the held state. |

Attendant Console Status

This page provides two tabs to display the status of up to two Cisco Attendant Consoles that are supported by a single IP phone:

- Unit 1—Displays information about the first Cisco Attendant Console.
- Unit 2—Displays information about the second Cisco Attendant Console.

Each tab provides the read-only fields described in the following table:

| Parameter | Description |
|--------------------------|---|
| Unit Enable | Indicates that the Cisco Attendant Console is enabled or disabled. |
| Subscribe Expires | When the current subscription expires. After the subscription expires, the Cisco Attendant Console automatically requests a new subscription. |
| HW Version | Version of the hardware. |
| Unit Online | Indicates that the Cisco Attendant Console is powered on and connected. |
| Subscribe Retry Interval | Length of time the Cisco Attendant Console waits to try again if subscription fails. |
| SW Version | Version of the software. |
| Key | Key number on the attendant console. |
| Name | Name assigned to each key. |
| Type | Function enabled for each key. |
| Line | Extension assigned to each key. |
| Station | Displays the subscribe URI configured for each key. |
| Subscribed | Subscription status of the unit/key. The value can be Yes, Fail, or N/A. N/A indicates that the feature/function (fnc) of that line does not require a subscription (such as a speed dial). |

TR-069 Tab

This tab is available on the Cisco SPA51X and Cisco SPA525G/525G2 phones. For more information on TR-096, see the “Using TR-069” section on page 6-12.

| Field | Description |
|------------------------|---|
| Enable TR-069 | From the drop-down menu, select yes to enable TR-069, or no to disable TR-069. |
| ACS URL | Enter the URL of the ACS using the CPE WAN Management Protocol. This parameter must be in the form of a valid HTTP or HTTPS URL. The host portion of this URL is used by the CPE to validate the ACS certificate when using SSL or TLS. |
| ACS Username | Enter the username that authenticates the CPE to the ACS by using the CPE WAN Management Protocol. This username is used only for HTTP-based authentication of the CPE. |
| ACS Password | Enter the password grants access to the ACS for this user. This password is used only for HTTP-based authentication of the CPE. |
| ACS URL In Use | Displays the ACS URL. |
| Connection Request URL | Displays the ACS making the connection request to the CPE. |

| Field | Description |
|-----------------------------|--|
| Connection Request Username | Enter the username that authenticates the ACS making the connection request to the CPE. |
| Connection Request Password | Enter the password used to authenticate the ACS making a connection request to the CPE. |
| Periodic Inform Interval | The duration in seconds of the interval between CPE attempts to connect to the ACS when Periodic Inform Enable is set to yes . |
| Periodic Inform Enable | From the drop-down menu, select yes to enable CPE connection requests. Enter no to disable connection requests. |
| TR-069 Traceability | From the drop-down menu, select yes to enable TR-069 transaction traceability. Enter no to disable traceability. |
| CWMP V1.2 Support | From the drop-down menu, select yes to enable CPE WAN Management Protocol (CWMP) support. Enter no to disable CWMP support such that the device does not send any Inform messages to the ACS or accept any connection requests from the ACS. |
| TR-069 VoiceObject Init | From the drop-down menu, select yes to initialize all voice objects to factory default values. Enter no to retain the current values. |
| TR-069 DHCP Option Init | From the drop-down menu, select yes to initialize the DHCP settings from the ACS. Enter no to leave the settings unchanged. |
| TR-069 IGD Support | From the drop-down menu, select yes to enable TR-069 on the Internet Gateway Device (IGD). Enter no to disable traceability. (This is used for debugging purposes.) |
| TR-069 Fallback Support | From the drop-down menu, select yes to enable TR-069 fallback support. Enter no to disable fallback support. If the SPA phone first attempt to discover the ACS by using DHCP, it attempts to use DNS to resolve ACS IP address. |
| TR-069 DHCP Inform Timer | Enter the interval in seconds that the phone should poll the DHCP server. |
| BACKUP ACS URL | Enter the backup URL of the ACS using the CPE WAN Management Protocol. This parameter must be in the form of a valid HTTP or HTTPS URL. The host portion of this URL is used by the CPE to validate the ACS certificate when using SSL or TLS. |
| BACKUP ACS User | Enter the backup username that authenticates the CPE to the ACS by using the CPE WAN Management Protocol. This username is used only for HTTP-based authentication of the CPE. |
| BACKUP ACS Password | Enter the backup password grants access to the ACS for the backup user. This password is used only for HTTP-based authentication of the CPE. |

Cisco SPA525G or Cisco SPA525G2-Specific Tabs

The tabs described in this section appear on the Cisco SPA525G or Cisco SPA525G2.

Wi-Fi

Enable or disable the Wireless-G service on the phone from this tab.

| Parameter | Description |
|-----------------|---|
| Wireless Enable | Click on to enable the wireless controller. |
| Wi-Fi Device | Choose the method of wireless setup: <ul style="list-style-type: none"> • Wi-Fi Profile—Create a wireless profile by manually entering the information. • Wi-Fi Protected Setup—If your router has a WPS button, you can use Wi-Fi Protected Setup to add a new wireless network profile. |
| Wireless Status | Information about the wireless network. |
| Wi-Fi Profile | Contains up to 3 wireless profiles for the phone. Includes a wireless profile for the Cisco Unified Communications Server. |

Bluetooth

For more information on configuring Bluetooth, see [Configuring Bluetooth \(Cisco SPA525G or Cisco SPA525G2 only\)](#).

| Parameter | Description |
|---|--|
| Bluetooth Device | Click on to enable Bluetooth. |
| Bluetooth Status (Cisco SPA525G2 only) | Name and status of any connected Bluetooth devices. |
| Bluetooth Mode (Cisco SPA525G2 only) | Shows the method of Bluetooth connection chosen: <ul style="list-style-type: none"> • Phone—Pairs with a Bluetooth headset only. • Handsfree—Operates as a handsfree device with a Bluetooth-enabled mobile phone. • Both—Uses a Bluetooth headset, or operates with a Bluetooth-enabled mobile phone (see Configuring Bluetooth (Cisco SPA525G or Cisco SPA525G2 only)). <p>The Cisco SPA525G2 connects to only one Bluetooth device at a time.</p> |

| Parameter | Description |
|--|---|
| Bluetooth Profiles (Cisco SPA525G2 only) | <p>This table shows the MAC (hardware) address, device name, and other information for the Bluetooth device that is associated with a Cisco SPA525G or Cisco SPA525G2.</p> <p>If multiple Bluetooth devices are in range of a Cisco SPA525G or Cisco SPA525G2, the phone attempts to pair with the devices in order the shown in the list. Highlight an entry and click the arrow keys to move devices up and down the list, changing the priority.</p> <p>You can choose yes or no to indicate if the phone should connect to a Bluetooth device automatically. You can also remove devices from the list.</p> |
| Bluetooth Device List (Cisco SPA525G2 only) | Click Scan for Bluetooth Devices to locate Bluetooth devices in the area. Found devices are shown with the type of device, MAC address, and device name. |

Personal Address Book

Address book for the phone. For more information, see the respective Cisco Small Business IP Phone User Guide.

Call History

Displays the call history for the phone. To change the information displayed, select the type of call history from the drop-down list:

- All Calls
- Received Calls
- Placed Calls
- Missed Calls

Speed Dials

See [Speed Dial](#).

Firmware Upgrade

Used to upgrade the firmware for the Cisco SPA525G or Cisco SPA525G2. See [Updating Firmware](#).

