# Session Initiation Protocol (SIP) Trunking Parameters Configuration on SPA8000 Telephone Adapter

## Objective

Session Initiation Protocol (SIP) is a signaling protocol used to control multiple media communication sessions. SIP creates, manages and terminates sessions in an IP based network. SIP trunking facilitates private branch exchange to the Internet through the use of Voice over IP (VoIP). SIP trunking parameters on SPA8000 include proxy debug option and hunt policy. Proxy debug option controls which proxy debug messages are logged. The hunt group refers to a group of phone extensions that are organized to process specific calls. An incoming call can be forward to any member of a selected hunt group through the use of a specified algorithm. Multiple hunt groups are generally used to manage multiple incoming calls. The objective of this article is to configure SIP trunking parameters on the SPA8000 Phone Adapter.

## Applicable Device

• SPA8000

## Software Version

• 6.1.12

## SIP Trunking Configuration

Step 1. Log in to the web configuration utility as an administrator and choose **Advanced > Voice > SIP**. The *SIP* page opens:

| SIP Parameters | | | |
|---|---|---|---|
| Max Forward: | 70 | Max Redirection: | 5 |
| Max Auth: | 2 | SIP User Agent Name: | $VERSION |
| SIP Server Name: | $VERSION | SIP Reg User Agent Name: | |
| SIP Accept Language: | | DTMF Relay MIME Type: | application/dtmf-relay |
| Hook Flash MIME Type: | application/hook-flash | Remove Last Reg: | no |
| Use Compact Header: | no | Escape Display Name: | no |
| RFC 2543 Call Hold: | yes | Mark All AVT Packets: | yes |
| SIP TCP Port Min: | 5060 | SIP TCP Port Max: | 5080 |
| SIP TCP Port Min Mod2: | 5160 | SIP TCP Port Max Mod2: | 5180 |
| SIP TCP Port Min Mod3: | 5260 | SIP TCP Port Max Mod3: | 5280 |
| SIP TCP Port Min Mod4: | 5360 | SIP TCP Port Max Mod4: | 5380 |

| SIP Timer Values (sec) | | | |
|---|---|---|---|
| SIP T1: | .5 | SIP T2: | 4 |
| SIP T4: | 5 | SIP Timer B: | 32 |
| SIP Timer F: | 32 | SIP Timer H: | 32 |
| SIP Timer D: | 32 | SIP Timer J: | 32 |
| INVITE Expires: | 240 | ReINVITE Expires: | 30 |
| Reg Min Expires: | 1 | Reg Max Expires: | 7200 |
| Reg Retry Intvl: | 30 | Reg Retry Long Intvl: | 1200 |
| Reg Retry Random Delay: | | Reg Retry Long Random Delay: | |
| Reg Retry Intvl Cap: | | | |

| Response Status Code Handling | | | |
|---|---|---|---|
| SIT1 RSC: | | SIT2 RSC: | |
| SIT3 RSC: | | SIT4 RSC: | |
| Try Backup RSC: | | Retry Reg RSC: | |

| Trunking Parameters | | | |
|---|---|---|---|
| Proxy Debug Option: | none | Hunt Policy: | onhook only |

[ Undo All Changes ]  [ Submit All Changes ]

Step 2. In the Trunking Parameters area, choose an option from the Policy Debug Option drop-down list. The trunk parameters are Option, Notify, and Register. Option is the parameter that sends and receives optional response or request. Notify is the parameter that provides notification regarding response and request. Register is the parameter that registers the response and request received.

- None — This option allows no logging to occur. This is the default setting for proxy debug option.
- 1 - line — This option allows the start-line to be logged only for messages.
- 1 - line excl. OPT — This option allows the start-line to be logged for messages except OPTIONS response/request.
- 1 - line excl. NTFY — This option allows the start-line to be logged for messages except NOTIFY response/ request.
- 1 - line excl. REG — This option allows the start-line to be logged for message except REGISTER response/request.
- 1 - line excl.OPTINTFYIREG — This option allows the start-line to be logged for messages except OPTIONS, NOTIFY, and REGISTER response/request.
- full — This option logs all the SIP messages in full text.
- full excl. OPT — This option logs all the SIP messages in full text except OPTIONS response/ request.
- full excl. NTFY — This option logs all the SIP messages in full text except NOTIFY response/request.
- full excl. REG — This option logs all the SIP messages in full text except REGISTER response/ request.
- full excl. OPTINTFYIREG — This option logs all the SIP messages in full text except OPTIONS, NOTIFY, and REGISTER.

Step 3. In the Trunking Parameters area, choose an option from the Hunt Policy drop-down list. Hunt is the process of pursuing incoming calls that are applicable to the respective hunt policy chosen.

- Onhook only — The Hunt includes only the phones that are on hook state.
- Any state — The Hunt includes all phones regardless of the state.

Step 4. Click **Submit All Changes** to save the settings.