

# Configure Session Initiation Protocol (SIP) Timer Values on SPA300/SPA500 Series IP Phones

## Objective

Session Initiation Protocol (SIP) is a signaling protocol used to create, manage and terminate sessions in an IP based network. SIP is a mechanism for call management. It also allows for the establishment of user location, provides for feature negotiation so that all of the participants in a session can agree on the features to be supported among them, and allows for changes to be made to features of a session while it is in progress.

The objective of this document is to show you the configuration of SIP Timer Values on SPA300 and SPA500 series IP phones.

## Applicable Devices

- SPA300 Series IP Phone
- SPA500 Series IP Phone

## SIP Timer Values Configuration

**Note:** On the actual SPA300 or SPA500 Series IP Phone set signaling protocol as **SIP**, use navigation keys to go to **Device Administration > Call Control Settings > Signaling Protocol SIP**.

Step 1. Log in to the web configuration utility and choose **Admin Login > 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 ▾
SIP-B Enable:	no ▾	Talk Package:	no ▾
Hold Package:	no ▾	Conference Package:	no ▾
Notify Conference:	no ▾	RFC 2543 Call Hold:	yes ▾
Random REG CID On Reboot:	no ▾	Mark All AVT Packets:	yes ▾
SIP TCP Port Min:	5060	SIP TCP Port Max:	5080
CTI Enable:	no ▾	Caller ID Header:	PAID-RPID-FROM ▾
SRTP Method:	x-sipura ▾	Hold Target Before REFER:	no ▾
Dialog SDP Enable:	no ▾	Keep Referee When REFER Failed:	no ▾
Display Diversion Info:	no ▾		
SIP Timer Values (sec)			
SIP T1:	.5	SIP T2:	4
SIP T4:	5	SIP Timer B:	16
SIP Timer F:	16	SIP Timer H:	16
SIP Timer D:	16	SIP Timer J:	16
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:	25	Reg Retry Long Random Delay:	0
Reg Retry Intvl Cap:	35	Sub Min Expires:	10
Sub Max Expires:	7200	Sub Retry Intvl:	10
Response Status Code Handling			
SIT1 RSC:		SIT2 RSC:	
SIT3 RSC:		SIT4 RSC:	

Step 2. Enter an RFC-3261 T1 value in the *SIP T1* field. The range is 0 to 64 seconds. The default is 0.5 seconds.

Step 3. Enter an RFC-3261 T2 value in the *SIP T2* field. It is the maximum retransmit interval for non-INVITE requests and INVITE responses. The range is from 0 to 64 seconds. Default is 4 seconds.

Step 4. Enter an RFC-3261 T4 value in the *SIP T4* field. It is the maximum duration a message remains in the network. The range is from 0 to 64 seconds. Default is 5 seconds.

Step 5. Enter an RFC-3261 INVITE transaction time-out value in the *SIP Timer B* field. The range is from 0 to 64 seconds. Default is 16 seconds.

Step 6. Enter an RFC-3261 Non-INVITE transaction time-out value in the *SIP Timer F* field. The range is from 0 to 64 seconds. Default is 16 seconds.

Step 7. Enter an RFC-3261 INVITE final response time-out value for ACK receipt in the *SIP Timer H* field. The range is from 0 to 64 seconds. Default is 16 seconds.

Step 8. Enter an RFC-3261 wait time for retransmits in the *SIP Timer D* field. The range is from 0 to 64 seconds. Default is 16 seconds.

Step 9. Enter an RFC-3261 wait time for Non-INVITE request retransmits in the *SIP Timer J* field. The range is from 0 to 64 seconds. Default is 16 seconds.

