Configure Real-time Transport Protocol (RTP) Parameters 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.

Real-time Transport Protocol (RTP) is an internet protocol to carry data which has real-time properties. It is a standard format to transmit real-time data such as audio, video.

The objective of this document is to explain the configuration of Real-time Transport Protocol (RTP) Parameters on SPA300 and SPA500 Series IP Phones.

Applicable Devices

- SPA300 Series IP Phone
- SPA500 Series IP Phone

RTP Parameters Configuration

Note: On the actual SPA300 or SPA500 Series IP Phone set signaling protocol as **SIP**, use the 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 Parameters* page opens:



Step 2. Scroll down to the RTP Parameters area.

- Step 3. Enter the minimum port number in the *RTP Port Min* field. It is the minimum range which contains at least ten even number ports for transmission and reception. The default is 16384.
- Step 4. Enter the maximum port number in the *RTP Port Max* field. It is the maximum range which contains at least ten even number ports for transmission and reception. The default is 16482.
- Step 5. Enter the size of RTP packet in the RTP Packet Size field. The range is from 0.01 to 0.16. The default is 0.030.

- Step 6. Enter the number of successive Internet Control Message Protocol (ICMP) errors allowed before the termination of the IP Phone in the *Max RTP ICMP Err* field. ICMP is a internet protocol which is used to send network error message. The default is 0.
- Step 7. Enter the interval to send out sender reports of the Real-Time Transport Control Protocol (RTCP) on an active connection in the *RTCP Tx Interval* field. The range is from 0 to 255 seconds. The defaults is 0.
- Step 8. Choose **Yes** or **No** from the *No UDP Checksum* drop-down list. If you choose **Yes**, the IP Phone will calculate the UDP header checksum for SIP messages.
- Step 9. Choose **Yes** or **No** from the *Symmetric RTP* drop-down list. If you choose **Yes**, the RTP packets will be sent to the source address and if you choose **No** the RTP packets will be sent to the destination address. The default is **No**.
- Step 10. Choose **Yes** or **No** from the *Stats in BYE* drop-down list. If you choose **Yes** the P-RTP-Stat header will be sent in response to a BYE message. The default is **No**.
- Step 11. Click **Submit All Changes** to save the settings.