Ports IPs and our Network

Santiago Garcia - 2025-04-03 - Peering, Ports and IPs

SIP Gateway Configuration and Network Details

Supported Protocols

Our SIP Gateway natively supports UDP and TCP as transport protocols, with optional security enhancements via TLS and SRTP:

1. UDP (User Datagram Protocol) - Default transport for SIP signaling and media.

2. TCP (Transmission Control Protocol) - Reliable transport option for SIP signaling and media.

3. TLS (Transport Layer Security) - Encrypts SIP signaling over TCP for secure communication.

4. SRTP (Secure Real-time Transport Protocol) - Encrypts media streams for privacy, compatible with UDP or TCP.

UDP (User Datagram Protocol):
UDP is our default protocol for SIP (Session Initiation Protocol), offering efficient, low-latency communication ideal for many setups. However, it requires frequent keep-alive messages (approximately every 30 seconds) to maintain NAT (Network Address Translation) table entries, which can be demanding in larger systems.

TCP (Transmission Control Protocol):
TCP provides a more reliable alternative to UDP, ensuring stable connections with fewer keep-alive messages (approximately every 15 minutes). This makes TCP particularly advantageous for enterprise environments, reducing network overhead while maintaining consistent performance. Applications like Microsoft Teams leverage TCP as a fallback for media and for secure signaling, enabling the use of TLS (Transport Layer Security) for encrypted communication and SRTP (Secure Real-time Transport Protocol) for protected voice data, enhancing both reliability and security.

Firewall IP Range: 27.111.12.0/24

AS Number: AS55561

SIP Peering IP: 27.111.12.66

Ports IPs and Network Setting

Proxy	plus.2talk.com
TCP/TLS Proxy	plus.2talk.com port 5061
SIP Peering	27.111.12.66 (or 27.111.12.0/24)
SIP Port – UDP	5060
SIP Port – TLS	5061 (ensure transport = TLS)
P-Asserted_ID	P-Asserted-Identity: <sip:+13106351799@27.111.12.66:5060>

Other Ports

RTP and UDPTL	Set by your router (our port range is 30,000 – 40,000)
t.38 (faxing)	4000-6000
Fax	fax.2talk.com
Primary NTP	n/a