

SIP Trunk

A **SIP Trunk (Session Initiation Protocol Trunk)** is a **virtual phone line** that uses the **internet (IP network)** to connect a business's private branch exchange (PBX) to the public switched telephone network (PSTN). It replaces traditional analog or ISDN lines for voice communication.

Business Benefits

- Lower telecommunication costs
- Easy to scale with business growth
- Supports remote and hybrid work setups
- Improves call quality and reliability
- Simplifies integration with modern communication platforms
- Enable VoIP (Voice over IP) calling for businesses
- Reduce costs on local and international calls
- Scale phone systems without adding physical lines
- Integrate voice with data and unified communications

Features

Voice over IP (VoIP)

- Transmits voice as digital packets over the internet
- Supports high-quality audio and multiple simultaneous calls

PBX Integration

- Connects directly to on-premises or cloud PBX
- Works with IP-PBX or hosted PBX systems

Scalability

- Easily add or remove channels based on business needs
- No physical line limitations

Features

Security

Supports encryption protocols like TLS and SRTP

Protects calls from eavesdropping and fraud

Unified Communication

Enables voice, video, messaging, and conferencing over one connection

Integrates with collaboration tools like Microsoft Teams or Zoom

Cost-effective replacement for ISDN/analog lines

High call capacity per trunk

Flexible channel allocation

Disaster recovery and failover support

Centralized management and monitoring

Considerations

Requires reliable internet connectivity

Quality depends on bandwidth and network stability

Security measures (encryption, authentication) are essential

Compatible PBX system or cloud phone solution required

ABOUT CIPHERWAVE

CipherWave is an established South African, Tier1, Internet Services Provider(ISP).

We are a Verified B-BBEE Level 1 contributor. Our strong partnerships allow us to provide best-in-class, global, enterprise-grade technology-combined with our expertise, we deliver tailor-made, scalable, CONNECTIVITY, VOICE, CLOUD and SECURITY solutions, to fuel your business ambition. Our differentiator is the quality of our service, driven by our relentless focus on customer experience. We Own and Manage our network, cloud and voice infrastructure, which enables us to provide fast, reliable and efficient service and support to our customers.

