



Toshiba's SIP Trunking I-VoIP Service

A Single-Vendor Solution for Converging Voice and Data on Your Broadband Access Connection

If your organization has or is considering an IP business phone system, you'll want to take full advantage of what VoIP has to offer. That depends not only on the phone system you choose, but also on how you connect that system to the outside world.

If the trunk connection is an analog CO (central office) line or ISDN primary rate interface (PRI), you're missing advanced features that are quickly becoming essential, and trunk bandwidth is not being used as efficiently as it could be. And you have to maintain separate voice and data connections.

Toshiba's SIP Trunking I-VoIP Service enables you to use your existing broadband access connection to carry voice calls between your Toshiba business phone system and the public switched telephone network (PSTN). The key behind this service is Session Initiation Protocol (SIP), an industry-standard protocol that has been formalized as a standard (RFC 3261) by the Internet Engineering Task Force (IETF), the body responsible for administering Internet mechanisms.

Top Benefits of SIP Trunking

SIP trunking supports the standard services businesses require, such as call forwarding, call waiting, caller ID, hunt groups and audio-conferencing. But it redefines the possibilities with new IP services such as IP contact centers, Find-Me/Follow-Me, unified communications and the ability to have local numbers in various markets served by one central business phone system

Support Business-Grade Voice Quality.

Calls on SIP trunks can have voice quality comparable to traditional phone company circuits. Toshiba-recommended Adtran NetVanta routers provide bandwidth management capabilities to ensure that voice traffic gets the network performance it needs for clear, two-way conversations.

Simplify the Communications Infrastructure.

With traditional ISDN trunks, you have to buy, deploy, operate, manage, troubleshoot and upgrade separate company networks for voice and data. With VoIP and SIP trunks, you use one network for both voice and data.

Get More Out of Available Trunk Bandwidth.

ISDN channels must be configured either for voice or data. You cannot use idle voice channels to handle sudden spikes in data traffic, or vice versa. With SIP trunks, bandwidth is dynamically allocated between voice and data at any time. If there are lots of concurrent calls, the SIP trunk can apply more bandwidth for voice. And if nobody is talking on the phone, all bandwidth is available for data.

Reduce Communications Costs.

Due to the efficiency and flexibility gained with SIP trunking, you can do more with fewer of those expensive broadband access connections. And you can choose from calling plans with competitive low rates.

Improve Scalability and Reduce Costs.

With ISDN trunks, if you only need 15 voice channels, you still have to pay for 23. If you need more than 23, you have to buy two trunks (46 channels). With Toshiba's SIP Trunking I-VoIP Service, pay only for what you need, and choose from calling plans with competitive low rates.

Assured Interoperability

The SIP standard was designed to be flexible, which resulted in interoperability issues. Not every SIP trunking provider interworks seamlessly with every IP phone system—or with each other. Some organizations find themselves stalled in troubleshooting, custom configuration and frustration.

Not with Toshiba. Toshiba's SIP Trunking I-VoIP Service provides a pre-tested, pre-certified, single-vendor solution for connecting Toshiba business phone systems to the PSTN.

Assured Capacity and Call Quality

Toshiba's SIP Trunking I-VoIP Service includes valuable features to ensure every call gets through:

Support occasional or unexpected spikes in call volume.

For IPedge® systems, SIP trunks are configured with on-demand reserve capacity beyond the channels purchased. With call bursting onto that reserve bandwidth, calls still get through during sudden periods of high calling activity, yet you don't have to pay for unused capacity.

Provide service continuity/survivability. DID Failover Forwarding sends direct inward dial (DID) calls to a specified alternate number, such as a mobile phone. For each DID, you can set calls to forward all the time or only if the broadband connection is unavailable.

Get started with Toshiba's SIP Trunking I-VoIP Service

SIP trunks enable you to take full advantage of what IP can offer.

- Use a single Toshiba Strata® CIX or IPedge platform to support users at sites across the country.
- Publish local phone numbers for each location, yet have those calls centrally handled.
- Use trunk bandwidth very efficiently and eliminate the need for separate voice and data circuits.
- Have overflow calls automatically handed off to reserve, on-demand bandwidth or a second trunk connection.
- Have calls forwarded to a mobile phone or other number if the WAN connection is unavailable.

Your Authorized Toshiba Dealer engineers your requirements, handles the SIP partner relationships, and configures the router/firewall based on our tested and proven guidelines. You don't have to worry about integration; simply pick up the phone and it works. Toshiba's SIP Trunking I-VoIP Service makes it that easy.

SPECIFICATIONS

Supported Toshiba Phone Systems	Strata CIX 40, Strata CIX 100, Strata CIX 200, Strata CIX 670, Strata CIX 1200 Software: R5.20 MT069 and higher, MIPU firmware 02_12 and higher	IPedge EP, IPedge EC, IPedge EM Software: IPedge R1.6, TGZ 1.6.0.26 and higher
Audio Compression	G.711, G.729	
Calling Plans	V-SIPU-CH – SIP Trunking Channel – Unlimited Unlimited local and long-distance inbound and outbound minutes Toll-free inbound calls at a low per-minute price International calling charged per minute based on the international rate schedule Low monthly rate per channel* *Two-year minimum contract, VIPedge Terms of Service and Acceptable Use Policy apply	V-SIPM-CH – SIP Trunking Channel – Measured Up to 300 local and long-distance inbound/outbound minutes included Modest charge for additional minutes Toll-free inbound calls at a low per-minute price International calling charged per minute based on the international rate schedule Low monthly rate per channel* SIP Trunking DID and Parked DID billed on a per user/per month basis
Coverage Area	All 48 states in the continental United States	
Customer Premises Equipment	Toshiba IP end-user devices (wired, wireless or computer-based phones) Toshiba IPedge system; or Strata CIX system equipped with MIPU interface card(s) Voice-ready local area network (network assessments available from Toshiba) SIP-capable router/firewall (Adtran NetVanta models recommended) Business-grade broadband connection (VDSL, Metropolitan Ethernet, etc.)	

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