

Tango Abrazo Simplifies SIP Trunking

Solution Description

The Tango Networks, Abrazo SIP Trunking Controller (Abrazo STC) provides any-to-any SIP connectivity:

- Within an Enterprise – Interconnect PBXs, Gateways, and SIP Applications servers (e.g. Voicemail) with ease regardless of vendor or version.
- Enterprise to Public Carrier – Connect any enterprise PBX to any SIP Trunk Service Provider.

Tango offers SIP Trunking as an add-on application to its awarding winning Abrazo Enterprise (Abrazo-E) Application Server. Enterprise customers have the option of deploying SIP Trunking as a stand-alone application or in conjunction with Tango's mobile UC application, giving them unprecedented control of both fixed and mobile communications.

Capabilities

The Tango Abrazo SIP Trunking Controller brings a new concept to enterprise SIP communications: simplicity. By working with major PBX, Gateway, and Application Server providers, Tango has created SIP Signaling Profiles for each in-market version of each vendor's product. Each Signaling Profile encapsulates the SIP/RTP signaling characteristics of the device including both standards supported, proprietary extensions, and any unique 'quirks'. By pre-defining the characteristics of each device, the Tango Abrazo STC allows enterprise IT and telecom administrators to simply select from a drop-down list the devices they have in their network and allow the Trunking Gateway to make all necessary signaling changes to accommodate any-to-any interconnectivity between devices.

In addition to signaling normalization, the Tango Abrazo STC provides additional feature functionality targeted at allowing enterprises to simplify their networks and provide for more resilient interconnections:

- Centralized Dial Plan – Simplify translations tables in each PBX by instead placing enterprise dial plan and PSTN inbound/outbound routing tables in the Abrazo STC. Adding a new PBX and/or PSTN provider now only requires a single change in a single place.
- Least Cost Routing – The Abrazo STC maintains knowledge of all PBXs and Gateways across the enterprise and can calculate the least cost

- PSTN breakout point based on Country Code and City Code information.
- Business Continuity – When combined with Tango's mobile UC offering, the Trunking GW can automatically redirect calls to a user's mobile device if the PBX serving their desk phone is unavailable (see mobile UC product information for additional Business Continuity capabilities).
- Network Bridging – The Tango Trunking GW provides a dual-interface option allowing it to span the enterprise WAN/LAN boundary and provide the necessary Network Address Port Translation (NAPT) logic within the SIP/RTP signaling.
- Media Anchoring – Intelligent media anchoring anchors the RTP stream at the Trunking GW only when necessary (due to Network Bridging, normalization requirements, etc.).

Enterprise Benefits

Cost Savings

- Connect PBXs/Gateways from various vendors via SIP over the enterprise IP network rather than the TDM network (i.e. legacy TIE lines).
- Spend less time managing PBX routing tables and troubleshooting signaling issues.
- Keep from being locked into a single SIP Trunk provider by easily re-routing inbound/outbound PSTN traffic to/from all PBXs.

Always Available

- Automatic Mobile Re-Routing – Allows employees to continue receiving phone calls even when a PBX or network fails.

Flexible Deployment

- Option to deploy within the enterprise protected network, DMZ, or as a bridge between the enterprise's protected and unprotected networks

SIP Trunk Service Provider Benefits

- Connect with Your Customers – With guaranteed interoperability out of the box for a wide range of PBXs and Gateways, Service Providers can connect with more customers and spend less time managing integration issues.

Meets the Diverse Needs of Enterprises

One Abrazo SIP Trunking Controller can support multiple enterprise locations and a mix of different types of communications platforms across the network. Sized to meet your initial requirements the Abrazo-E can be expanded as you add end users, integrate additional locations, or add functionality.

The Tango Abrazo STC is a software application that runs on the Tango Abrazo-E Application Server. If the Abrazo-E is already deployed in the enterprise network then the STC can simply be enabled via a software upgrade and/or new license key. For new deployments, the Abrazo-E and the STC application can be purchased as a software only solution and installed on enterprise provided hardware that meets minimum performance specifications.

Alternatively the Abrazo-E is available as an appliance in several scalable configurations, including redundant operation, meeting the operational needs of all enterprises.

Supported PBXs and Gateways

The Tango Abrazo provides out-of-box support for the following platforms. SIP devices not on this list can be supported if they are standards compliant or by contacting Tango Networks and requesting Professional Services support during the installation/commissioning phase. When requested, the Tango Professional Services team or an authorized Value Added Reseller will create and

validate the necessary Signaling Profile for the requested device on-site.

IP PBXs

- Alcatel OXE 7.2
- Asterisk 1.2, 1.4
- Avaya CM with SES 4.x, 5.x
- Cisco UCM 4.1, 5.1, 6.1, 7.0
- Cisco UCME 7.1,8.1
- Microsoft OCS R2
- Microsoft Exchange 2007
- Mitel 3000 R8
- Nortel CS-1000 – Rel. 4.5, 5.0, 5.5
- Nortel CS-2000/2100 – Rel. SN09, SN10
- Nortel MCS 5100 3.5, 4.0
- Nortel MCS 5200 9.1
- ShoreTel 10.1, 10.2

IP Centrex

- BroadSoft BroadWorks R14, R15, R16
- BroadSoft Synergy Rel 4

TDM PBXs

The Tango Trunking GW will support any TDM PBX or TDM Centrex using a TDM/SIP Gateway from the following vendors:

- Adtran
- Audiocodes
- Cisco
- Network Equipment Technologies (NET)

Network Diagram

