

# Tenor<sup>®</sup> Call Relay

## The VoIP Network Portal



**Tenor<sup>®</sup> Call Relay**

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Provides VoIP switching between IP networks

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Supports IP endpoints behind the NAT firewall

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PacketSaver<sup>™</sup> minimizes bandwidth requirements

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Up to 720 simultaneous VoIP calls

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Standard and High Capacity Service Provider (SP) versions

## A more intelligent way to switch VoIP calls among different IP networks

Quintum's Tenor Call Relay<sup>™</sup> provides a single VoIP portal between IP networks allowing for end to end VoIP communications across multiple IP networks. All calls are switched through multiple IP networks with just one single compression and decompression of the voice. The result is less latency and higher voice quality as the call passes from network to network.

The Tenor Call Relay allows VoIP endpoints such as VoIP gateways, IP phones and IP soft phones which are behind a Network Address Translation (NAT) firewall, to communicate with VoIP endpoints on external IP networks. This allows both enterprises and service providers to expand their VoIP networks to home offices, branch offices, customers, partners, and across the public Internet.

Tenor Call Relay also provides a single point for call management, administration and security at the edge of your VoIP network.

With this unique intelligent VoIP network switching, the Tenor Call Relay makes expanding VoIP calling both easy and risk free. Call Relay is available in two versions: Standard version supports up to 32 simultaneous VoIP calls; Call Relay SP supports up to 720.

### **More intelligence means higher voice quality and less delay**

When separate VoIP networks are linked using circuit switched connections, the multiple compression and de-compression processes that occur increase transmission delay and cause unnecessary degradation of the voice quality. Tenor Call Relay eliminates these delays with its direct IP connection between VoIP networks, thereby increasing voice quality.

### **More intelligence eliminates firewall issues**

With NATAccess<sup>™</sup> the Tenor Call Relay is able to pass VoIP traffic from internal end points transparently through your IP networks' NAT firewalls.

### **More intelligence means less network congestion**

With its PacketSaver<sup>™</sup> technology, the Tenor Call Relay reduces bandwidth consumption of VoIP calls by multiplexing multiple calls into the same packet, reducing the overall bandwidth utilization by up to 50%, beyond voice compression and silence suppression.

## CALL MANAGEMENT FEATURES

- Call Detail Records
- Support for public and private dial plans

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## TECHNICAL SPECIFICATIONS

### Call Relay Specifications

- H.323 v2 Support: RAS, Fast Start
- Standard version base unit supports 16 simultaneous VoIP calls, software upgradeable to 32
- SP version supports 120 simultaneous VoIP calls, software upgradeable to 720
- VoIP firewall with intelligent NATAccess™
- PacketSaver™ packet multiplexing

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### IP Network Specifications

- LAN Interface: 10/100 Mbps autosensing Ethernet
- Standard RJ-45 interface (IEEE 802.3) for 10 Base-T or 100 Base-T connections
- QoS Support: IP TOS

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### Configuration/Management

- Remote Management
- SNMP v2 Agent
- Command Line Interface
- Remote Telnet Access
- Serial Console Port: RS-232/DB-9

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### General Specifications

- Operating Temperature: 40° - 104° F (5° - 40° C)
- Operating Humidity: 20% - 80% non-condensing
- Emissions: ENN55022:98; EN61000:95, FCC Part 15 Class A, ICES-003, CNS 13438 Class A
- Immunity: EN55024:98
- Safety: EN60950, UL 1950, CSA 22.2 No. 950

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### Basic Call Relay

- Dimensions:
  - W 17 3/8" x H 1 3/4" x D 11 7/8"
  - W 44.5cm x H 4.5cm x D 30.2cm
- Weight: 8 lbs. (3.6 kg); 11.5 lbs (5.25 kg)
- AC Power: 100-240 Volts AC, 50/60 Hz, 3.5A maximum
- DC Power: -48 Volts DC, 3.5A maximum

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### High Capacity Call Relay

- Dimensions:
  - W 17 1/2" x H 1 3/4" x D 11 7/8"
  - W 44.5cm x H 4.5cm x D 30.2cm
- Maximum weight: 11.5 lbs (5.25kg)
- AC Power: 100-240 Volts AC, 50/60 Hz, 3.5A maximum
- DC Power: - 48 Volts DC, 3.5A maximum



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