

## Tenor<sup>®</sup> Call Routing Server

- Scalable Centralized Network Route Management
- QoS Performance Routing
- Least Cost and Source-Based Routing
- VoIP Local Access and Subscriber Access-Based Routing
- Up to 72K BHCA per Call Routing Server
- Up to 1,440K BHCA per High Capacity Call Routing Server
- Redundant Server Configuration
- Management via Web-based GUI
- Network Statistics / Alert Generation
- Network Access Control
- Flexible Number Translations
- Centralized Call Detail Record Generation



### A more intelligent way to optimize VoIP networks

*The Quintum<sup>®</sup> Tenor VoIP Call Routing Server system software provides CLECs, ILECs, ISPs, and next generation service providers with scalable centralized network routing, policy enforcement, and administration. The VoIP Advanced Call Routing Server provides enhanced network-wide routing flexibility, including QoS-based routing, least-cost routing and source-based routing. The Tenor Call Routing Server will compile network routing statistics and generate network reports. The Tenor Call Routing Server offers a scalable solution designed to support demanding applications such as:*

- Wholesale VoIP Termination
- Tandem Switching
- Call Centers
- VoIP SIP Trunking
- Least Cost Routing
- Calling Cards

#### Centralized Control

Scalable design allows for the management of mid to large size networks. Multiple Call Routing Servers may be distributed within the voice network for even greater capacity and redundancy. Routing modifications are immediately reflected throughout the entire voice network without the need for routing modifications on individual gateways.

#### QoS Monitoring and Routing

Monitors Quality of Service (QoS) metrics throughout the VoIP network. The Call Routing Server allows calls to be routed around portions of the network that are not supporting acceptable QoS characteristics, thereby assuring high quality voice for end users.

#### Flexible Routing

Source-based routing enables user-defined routing criteria to be applied, depending upon the subscriber or ingress point into the voice network. Routing criteria include Least Cost Routing, Route Quality, Best Pattern Match, Circuit Routing, Domain Priority, Answer Seizure Ratio (ASR), and Load Balancing. Routing criteria and prioritization is configurable for each ingress point into the voice network. Limits calls to routes or dialed numbers to better manage network endpoint loading.

#### Least Cost Routing

Connects incoming calls to available carriers at the lowest available cost, by routing calls between IP endpoints or between individual DS0 circuit trunks. Termination costs, time-of-day availability, and performance metrics such as ASR and Post Dial Delay (PDD) are maintained for each network termination.

#### Access Control

Controls access to the voice network by disallowing endpoints, providing control over unauthorized access to your network resources.

#### Carrier Management

Web-based graphical user interface allows rapid network routing and policy modifications throughout the voice network. Reporting capability provides network call routing statistics based upon either historical data or real-time activity. E-mail alerts are provided to inform the network administrator of network failures or suboptimal operating conditions.

# Tenor Call Routing Server

## TECHNICAL SPECIFICATIONS - SYSTEM SOFTWARE

### Call Routing

- Source or carrier-based call treatment
- Time-based routes with full time zone support
- User Defined Criteria Ordering
- Least Cost, Route Quality, Best Pattern Match, Circuit Routing, Time of Day, Load Balancing, ASR
- Limit maximum number of calls per route or dialed number
- Up to 72K BHCA per Call Routing Server
- Up to 1,440K BHCA per High Capacity Call Routing Server
- Automatic alternate route generation

### Access Control

- Dialed Number Blocking
- Origination Endpoint Call Blocking

### Subscribers

- Maintain network-wide or trunk group-based subscriber directories
- Subscriber-based routing policy

### Route Directories

- High Capacity - 100,000+ Routes
- POSIX regular expression pattern matching
- Direct Inward Dialing Support
- Import/Export Routes

### Digit Translation

- Ingress and Egress Number Translation
- Automatic appending and stripping of digits in dialed number

### IP Network Specifications

- 1 Fast autosensing Ethernet port (10/100 Base-T)
- IP network performance monitoring

### Endpoint Compatibility

- Tenor® AS Series
- Tenor® AF Series
- Tenor® AX Series
- Tenor® BX Series
- Tenor® DX Series
- Tenor® Call Relay 60 & Call Relay SP
- Tenor® CMS
- Tenor® GateKeeper+
- Third party gateways (via Quintum GateKeeper+)

### Configuration / Management

- Web-based graphical user interface
- E-mail alert generation on network conditions
- Call routing activity logging and real-time event monitoring

### Report Generation

- Statistics history includes ASR, % Loading, Active Calls, Average PDD, and Average Call Duration per Trunk Group
- Web-based statistics generation
- API for connecting external report generation software

## GENERAL SPECIFICATIONS - APPLICATION SERVER

### Dimensions

W 16 3/4" x H 1 3/4" x D 14"

W 42.6cm x H 4.4cm x D 35.6cm

- Maximum weight: 16.1 lbs. (7.3 kg)
- AC Power: 100-240 Volts AC, 50/60Hz, 250 watts
- Operating Temperature: 40°F - 104°F (5°C - 40°C)
- Operating Humidity: 20% - 80% non-condensing
- EMC: FCC Part 15 Class A, EN55022:97, EN55024:98, EN61000-3-2, and -3-3:95, AS/NZS 3548:1995
- Safety: EN60950:92 + A1:92 + A2:93 + A3:95 + A4:96



## GENERAL SPECIFICATIONS - HIGH CAPACITY CALL ROUTING SERVER

### Dimensions

W 17.5" x H 3.4" x D 29.31"

W 44.43cm x H 8.64cm x D 74.4cm

- Rack Weight 50.71 lbs (23 Kg), maximum configuration
- Auto-switching universal 110/220 Volts AC, 50/60 Hz, 750 watts max
- 2U Rack-mountable chassis
- Operating Temperature: 10° C to 35° C (50° F to 95° F)
- Operating Relative Humidity (non-condensing twmax=29C): 20% to 80% non-condensing
- FCC (U.S. only) Class A
- CE Mark (EN 55022 Class A, EN55024, EN61000-3-2, EN61000-3-3)
- C-Tick (Australia/New Zealand) Class A
- CCC (China) Class A
- EN 60950-1



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