

# Kentrox

## Optimizing VoIP Call Quality

Today, many companies are considering voice over IP (VoIP) because of the lower telephony expenses associated with converging voice and data traffic over a single line. However, as voice traffic can be adversely affected by other traffic running on the same WAN line, many businesses are concerned about the potential call-quality degradation associated with VoIP.

One solution to ensuring VoIP gets the necessary bandwidth for quality performance is to purchase a separate WAN link for VoIP traffic, but this negates much of the cost savings normally gained by adopting VoIP. A better solution is to choose a QoS access router that can prioritize voice traffic over less time-sensitive business applications.

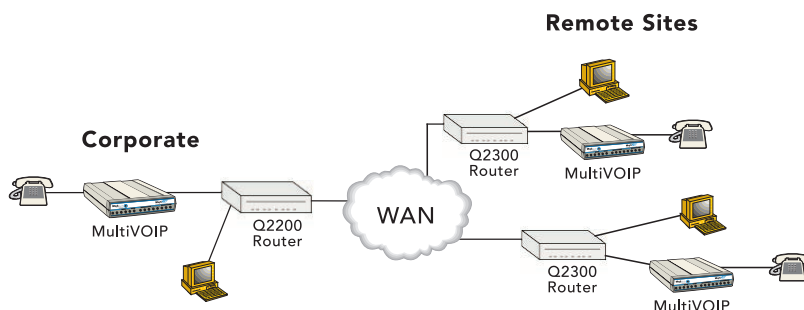
### Quality Performance for Voice over IP

Right out of the box, the Q-Series™ QoS Access Router from Kentrox does just that by detecting and providing precedence to voice traffic running on the network. It ships with default settings to automatically prioritize traffic marked with IP QoS classifications, such as MultiVOIP's Voice over IP, using DiffServ or Type of Service (ToS). These QoS settings help ensure quality VoIP calls, even during peak congestion periods – without adding bandwidth.

“When Q-Series routers are used in conjunction with MultiVOIP gateways over a wide-area network, they provide excellent voice quality, even at busy locations,” explains Dan Murray, VP of Marketing at Kentrox. “Bursty data traffic and lack of QoS are the main factors that can affect voice quality. Q-Series routers can control these network conditions by automatically giving voice priority over data to ensure consistent, business-quality voice connections every time.”

### Easy Installation and Setup for Businesses of All Sizes

The Q-Series QoS router includes an intuitive GUI that is designed to make installation and setup faster and easier for both network administrators and less experienced installers. Using the Q-Series' web-based GUI, you can also fine-tune network performance with QoS monitoring and reports. These graphical reports let you monitor traffic performance at each established QoS priority level to see whether the critical traffic flows are getting the bandwidth they need. The report data helps you identify performance problems and modify your QoS policies appropriately. Combining the power and simplicity of its web GUI with automatic VoIP prioritization, the Q-Series gives businesses the confidence to successfully deploy VoIP technology, even on the busiest networks.



## MultiVOIP and Q-Series Routers

### Solution Benefits:

- Delivers consistent business-quality Voice over IP
- Reduces telephony expenses, without sacrificing quality
- Improves application performance without adding bandwidth

### Solution Components:

- MultiVOIP Voice over IP gateways at each location
- Q2300 Ethernet router or Q2200 T1 router at corporate office
- Q2300 Ethernet router or Q2200 T1 router at each remote site

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-Dan Murray, Kentrox

## Multi-Tech MultiVOIP

Multi-Tech's MultiVOIP Voice over IP gateways bridge the voice network to the data network to provide toll-bypass long distance calling over the Internet or private WAN. MultiVOIP operates alongside a company's PBX and analog phone systems to extend voice and PBX functionality to remote locations. By integrating voice and fax into an existing data network, businesses can realize substantial savings on inter-office long distance toll charges.

### MultiVOIP Features:

- Flexible 1-, 2-, 4-, and 8-port analog models and 24-port digital solution
- Award-winning business quality voice connections (supports DiffServ)
- Minimal bandwidth requirements (14K bps per call including IP overhead)
- Utilizes H.323 and SIP protocols for complete interoperability
- No disruption to existing voice equipment
- No additional hardware needed
- Transparent to the user (no training required)
- PSTN fail-over automatically routes calls over the PSTN if the IP network is congested or down
- Supports H.450 supplementary services to provide for call transfer, call forwarding, call hold, call waiting, and name identification
- Web based configuration and management
- 2-year warranty

Model No.	Description
MVP130	1-Port VOIP gateway
MVP210	2-Port VOIP gateway
MVP410	4-Port VOIP gateway
MVP810	8-Port VOIP gateway
MVP2410	24/48-Port T1/PRI VOIP gateway

## Kentrox Q-Series QoS Access Routers

The Kentrox Q-Series family of QoS Access Routers provides all-in-one networking solutions to small and medium offices. With the Q-Series, customers get the functions of an IP router, QoS appliance, VPN appliance, firewall, WAN access device and Ethernet switch - all in a single, affordable device. Integrating six devices into a single unit significantly reduces capital outlay and management and maintenance expenses over the life of the product.

### Q-Series QoS Features

- Automatic prioritization of VoIP and video
- Auto DiffServ/ToS priority queuing
- Class-based weighted fair queuing
- User-selectable QoS policies
- Traffic reports and graphs

Model No.	Description
2200	Q2200 T1 QoS Access Router
2201	Q2201 T1 QoS Access Router with Modem
2300	Q2300 Ethernet QoS Access Router
2301	Q2301 Ethernet QoS Access Router with Modem



## About Kentrox

*Kentrox is a worldwide supplier of high-speed access equipment, including QoS IP Routers, DSU/CSUs, and ATM Access Concentrators.*



**For more information contact**

**Kentrox directly at:**

800-733-5511 or 503-643-1681

[www.kentrox.com](http://www.kentrox.com)

## About Multi-Tech

*An ISO 9001 certified global manufacturer of award winning Internet, remote access, and telephony products, Multi-Tech Systems provides end-to-end solutions for small- to medium-sized businesses.*

*Multi-Tech holds over 60 patents in voice and data technologies and has deployed thousands of MultiVOIP gateways since 1999.*

**Multi-Tech Systems**

800-328-9717 or (763) 785-3500

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