

# AT&T managed router service with voice over ip

 **Communication Systems  
International Incorporated**



## Benefits

- Consolidation of IP voice, fax and data across a dedicated WAN
- Cost-savings, simplified operations and the potential to create new, integrated IP applications
- QoS and bandwidth management for business-class performance and voice quality
- Full management from AT&T, including the voice gateway router and the network connecting the gateways

## Converging Data, Voice and Fax on Your Managed Router

If your business is generating a significant amount of voice traffic among your various locations . . .

If you have an existing frame relay VPN that could be leveraged for data and voice . . .

If you have traditional PBXs and key systems that need to be networked . . .

If you pay high phone rates . . .

It's time to consider AT&T Managed Router Service with Voice Over IP (MRS with VoIP).

With one service, you can cut costs, simplify your operations, leverage existing systems and open the door to new IP applications. And AT&T will implement and manage it for you.

## Realizing the Advantages of VoIP

**Start with cost-savings.** Voice over IP can move your circuit-switched voice and fax traffic off the Public Switched Telephone Network (PSTN), compressing and multiplexing it onto your data network. You can save as much as 30% to 40% on your domestic calls, and as much as 80% to 90% on international calls. And with the compression, you can handle more calls on one access line.

**Now consider network consolidation,** where you can realize operational benefits as well as cost-savings. With VoIP, you can reduce access trunks to the PSTN. Combine services on fewer large facilities. Use valuable voice bandwidth for data transfer during off-peak hours. Monitor one common backbone service. Receive consistent reports. Simplify your vendor relationships into a single source.

**And then there's your competitive edge.** Because of the nature of Internet Protocol, VoIP lets you combine voice and data applications through an open networking protocol. Voice stations become more portable. Call routing becomes more efficient and flexible. It becomes easier to develop and quickly deploy emerging applications that can determine your competitive edge – especially new, unified voice/data applications such as unified messaging, Net meetings and Web Call Centers.



## Turning the Job Over to AT&T

With AT&T MRS with VoIP, AT&T takes care of the design, implementation and management of your IP-based voice/data solution. Your “on-net” voice and fax traffic (communications that flow site-to-site within your organization) will run concurrently with your IP data traffic. You can eliminate your expensive PBX tie-lines. And you can leverage AT&T global network services and management expertise to increase the value of your networking solution.

**Here's how it works:** AT&T implements your VoIP service on gateway routers. Your voice traffic, call signaling and control are encoded and packetized in IP (changed from a 64 Kbps analog channel to an 8 Kbps data packet). The IP traffic runs over AT&T's Frame Relay Service, a world-class, Layer 2 transport network. To ensure Quality of Service that supports business-class voice and data quality, AT&T engineers advanced bandwidth management and network topology, and implements traffic-queuing priorities in the gateway router.

## Building in Manageable Scalability

AT&T helps to make sure that your MRS with VoIP service can grow along with your business demands. The managed router platform has all the interfaces needed to support your LAN and voice environments, including analog trunk interfaces and digital voice trunk interfaces to handle a large number of simultaneous voice calls.

Most important, we build in scalability so that your service can support a graduated level of users, from a handful at your small branch sites to dozens at your regional sites, all the way to hundreds of users at your corporate headquarters. The “gatekeeper” support in your AT&T MRS with VoIP enables cost-effective management of your VoIP network as it scales from a few sites to many sites. You have access to a variety of reports such as call detail records with voice-quality metrics, call end-points and duration, and more – the tools you need to effectively monitor, troubleshoot and plan.

## Looking Toward the Future

As you grow, international interfaces for AT&T MRS with VoIP will reap benefits beyond your US locations. You'll be able to deploy the latest messaging applications such as “follow me” voice services, interactive Call Centers and web-enabled VoIP. With it all, you can take advantage of full-featured management and expertise from AT&T.