ATM Transport Services

Enable your existing technology to grow as your customer's demands do. ATM transport solutions generate new revenue opportunities for carriers. Multiple classes of service offerings provide for high-speed LAN interconnection, voice, video and multimedia applications. You can give customers the broadband capacity they require – at a price you both can afford.

Customers are looking for ways to use technology to improve productivity and reduce operating costs. By offering them ATM services, you can help customers realize their goals and cement your position as a market leader in their eyes.

The Technology Migrator
ATM is a high performance, fast packet, cell-based switching and multiplexing technology that carries a variety of protocols over the same transport facility. The technology uses uniform “cells” to separate digitized information into efficient byte units for ultra fast switching. Allowing multiple services over a single, efficient network, ATM operates simply to provide a stable environment for seamless connectivity at a variety of transport speeds.

To enable ATM network service, ATM switching units are provisioned in selected central offices and serving wire centers. ATM networks in different service areas are formed by linking ATM switches with trunks arranged in patterns that address predicted or predominant traffic flow patterns.

Customers gain access to the network via port cards mounted in ATM switching platforms and physical access channels that conform to national and international standards.

Working with Verizon, you won’t need to outlay major capital in order to provide ATM transport services to your customers. Verizon already has the infrastructure in place. Our ATM solutions simply expand
your present offerings, so you can offer subscribers the bandwidth needed to run any application – from text/data/image transfer, messaging, distribution and telecommuting to real time applications, such as video conferencing, distance learning and video-on-demand.

**Multiple Configurations**
A choice in network port speeds allows you to decide what bandwidth options you’ll make available to your customers. We offer access channels and supporting port speeds from DS1 through OC-12c with eventual migration to OC-48c and higher. All interfaces are aligned to ATM Forum specifications.

**Maximum Utilization of Ports**
ATM network services from Verizon are structured to allow maximum utilization of port capacity. The number of subscribed permanent virtual circuits (PVCs) per port is limited only by port interface address units.

Over-subscription of non-real time PVCs is allowed within tariff-specified parameters. And, PVCs are permitted to burst up to port speed to fully utilize the dynamic bandwidth available from the network. Thus, you have flexibility in meeting customer requirements.

**Options in Class of Service**
A big benefit of ATM transport solutions is our class of service support for multimedia traffic. Data, video and voice are all supported through our industry standard Quality of Service (QoS) selections that prescribe different network operating and throughput parameters for each. That means you have an ATM service offering that will suit any type of subscriber request. Available QoS options include:

- **Constant Bit Rate (CBR)** – guarantees a constant cell rate for video conferencing, television and other applications sensitive to cell delay variations
- **Variable Bit Rate - Real Time (VBR-RT)** – ideal for applications that are sensitive to cell delay variations with bit rates that vary depending on the information being transmitted, such as compressed or digital video
- **Variable Bit Rate - Non Real Time (VBR-NRT)** – use for applications like multimedia e-mail where variable time delays are not critical and bit rates vary depending on the data being sent
- **Available Bit Rate (ABR)** – customers specify a minimum of needed bit rate while the maximum rates are limited by the degree of network congestion at the time of transmission
- **Unspecified Bit Rate (UBR)** – the most economical of service levels, UBR is used primarily for TCP/IP communication; connections can be dropped if the network is at capacity
**Favorable Pricing**

Pricing for network transport of ATM traffic is based on the percentage of port-entered traffic that requires delivery according to “real time” sensitive parameters (CBR, VBR-RT), rather than on distances traversed across the network during transit. Therefore, once outlying locations are “on the Net,” traffic delivery incurs no premiums for longer distances between locations. Verizon’s ATM tariff is structured to provide five levels of service based on real-time traffic:

- **Level 1** – 100% CBR, VBR-RT, non real-time fill
- **Level 2** – 75% CBR, VBR-RT, non real-time fill
- **Level 3** – 50% CBR, VBR-RT, non real-time fill
- **Level 4** – 25% CBR, VBR-RT, non real-time fill
- **Level 5** – 100% VBR-NRT, ABR, UBR

At Verizon, we make it virtually risk-free for you to add our ATM transport solutions to your subscriber offerings for increased revenue opportunities. Choose from our month-to-month, one-year, three-year or five-year term agreements on ports and channels. Then, your network, based solely on the percentage of the port actually used by real-time traffic, adds an amount that can vary (within a modest range) on a monthly basis according to changing subscription requirements. Total port capacity, however, is available for your use at all times at no additional cost. ATM service is cost-effective for you and your subscribers.

**Step Ahead of the Competition**

Offer something more than many of your competitors. Verizon ATM transport solutions are reliable and can become a key market differentiator for you.

Talk with your Verizon account manager or contact us through our Web site at verizon.com/wholesale for more information on ATM transport solutions.