



Global

# ATM (Asynchronous Transfer Mode)

## High bandwidth and virtual circuit efficiency for voice, data and video

Because your high-bandwidth applications require fast and efficient data transfer, you need Verizon® Global ATM (Asynchronous Transfer Mode) service.

Global ATM service uses cell-switching technology to segment circuit bandwidth into separate virtual channels. Each of these channels can have a separate Class of Service (CoS). Separate channels with separate CoSs facilitate the simultaneous transmission of multiple separate applications. This means that one circuit can transmit data, voice and video traffic at the same time at speeds of more than 155 Mbps (megabits per second).

Its versatility is ideal for time-sensitive applications such as distance learning, medical image transfer, remote court arraignment and other real-time video procedures.

### A single solution for multiple applications

When your company transmits information via Global ATM service, you'll enjoy many benefits, including:

#### ■ **Simultaneous Video, Voice and Data**

- Transparent support of multiple applications, which eliminates the need for separate networks supporting different protocols at a single location
- Multiple-user access to a single circuit can lead to reduced network costs
- Dependable virtual channel connection allows your business to implement multiple interstate applications that have been cost-prohibitive in the past

#### ■ **Low Transfer Delay**

- Low delay facilitates sensitive applications such as voice and real-time video
- High-speed transmission of fixed-size cells greatly reduce the variance of delay known as "jitter"

- Dependable class of service backed by Service Level Agreements (SLA) ensure transmission requirements for mission-critical applications

#### ■ **Reliable High-Speed Service**

- High-speed bandwidth enables simultaneous applications to be transmitted
- Global ATM service access speeds ranging from 1.5 Mbps to 155 Mbps

#### ■ **Compatibility with All Applications**

- Global ATM allows interworking with new or existing frame relay networks and their applications in specific locations
- Ongoing standard upgrades support new applications to ensure service and equipment do not become obsolete

#### ■ **Professional Maintenance and Network Management**

- Maintenance, administration and engineering responsibilities are shared with Verizon, so you can utilize your resources to run your business
- 24-hour-a-day/seven-day-a-week network monitoring
- Verizon manages all technology and interfaces
- Verizon is your single point of contact (SPOC) for the network

#### ■ **Why Verizon?**

- A proven reputation as a data service provider
- Extensive availability and end-to-end service, billing and support solutions
- We offer pricing flexibility (i.e., term, volume and multi-service discounting and introduction incentives)

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### Components of Global ATM service

The Verizon Global ATM Service Transport provides reliable, high-speed data connectivity from POP-to-POP (Point of Presence), End-to-End and End-to-POP. Components of Global ATM service include:

- **Local Access:** A dedicated digital line providing direct access from the CPE at your location to the switch at our Global ATM POP or ATM access which connects your CPE to the local ATM services of our Regional Verizon Operating Company which is interconnected to the Verizon Global ATM network.
- **ATM Port:** The physical connection on an ATM switch. Depending on the subscriber's requirements, we provide:
  - **National Ports:** Connects locations within the U.S.
  - **Global Ports:** Connects locations in select international countries to locations in the U.S. For example, a Global Port in New York City is connected to a Global Port in London via international PVPC/PVCCs

- **Non-U.S. Ports:** Connects locations outside the U.S. (can apply to a country or many countries grouped into a region). For example, Non-U.S. Ports throughout the United Kingdom might connect to a Global Port in London via international PVPC/PVCCs, while the Global Port in London connects to a Global Port in New York City. Verizon provides Non-U.S. Ports on a case-by-case basis, and only when hubbed to a Verizon Global Port in selected international countries and regions

- **PVPC/PVCC (Permanent Virtual Path or Channel Connection):** A connection between two ATM switch ports with one or more Class of Service. Multiple channels or CoSs allow one ATM circuit to support a range of applications. Depending on the subscriber's requirements, we provide:
  - **National PVPC/PVCC:** Connection between National Ports or between National Ports and a Global Port in the U.S.
  - **International PVPC/PVCC:** Connection between Global Ports, or between Global and Non-U.S. Ports

### Flexible Global ATM network solutions

Choose from three options of Global ATM service, one of which is sure to suit your company's information transport needs:

- **National POP-to-POP:** Expands the subscriber's geographic reach by extending the existing local ATM network beyond the local area. National POP-to-POP service is typically used by customers to establish an ATM connection between LATAs, within states and between states. It includes:
  - Verizon National Ports which connect local exchange carrier ATM networks with Verizon
  - Verizon National PVPC/PVCCs

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### Flexible Global ATM network solutions

- **End-to-End:** A packaged solution providing either national or international connectivity to subscribers who do not have existing ATM service—providing the customer with a single Verizon ATM bill. Global ATM service includes the following, depending upon geographical reach:
  - **National Connectivity**
    - ▶ Verizon National Ports
    - ▶ Verizon National PVPC/PVCCs
    - ▶ Local Direct or ATM Access obtained by Verizon
  - **International Connectivity**
    - ▶ Verizon Global Ports
    - ▶ Verizon Non-U.S. Ports
    - ▶ Verizon International PVPC/PVCCs
    - ▶ Access (typically Direct Access)
  - **Frame Relay-to-ATM Service Interworking**
    - ▶ A user's host site with ATM service can connect to other sites that have Frame Relay service with this capability.

Access can be provided in two ways:

- **Direct Access:** A dedicated, digital line from the customer's premises to Verizon's ATM network
- **ATM Access:** A connection using a Local Exchange ATM Network where available to connect to Verizon's ATM network
- **End-to-POP:** A solution designed for customers with existing local ATM service in one or more locations who request that Verizon establish connectivity to another location either nationally or internationally.

### Other Global ATM service options

- National, Global and Non-U.S. Port speeds ranging from 1.5 Mbps to 155 Mbps
- Flat-rate pricing
- Term and volume pricing plans
- Service level agreements (SLAs) associated with National Ports, PVPC/PVCCs and Verizon-provided Access
- Classes of Service (CoSs)
  - VBR — realtime
  - VBR — non-realtime
  - CBR

### For all your networking and communications needs

For more information about Verizon Global ATM service, or our:

- Long Distance Calling Plans
- International Calling Plans
- Toll Free
- Calling Card
- Dedicated Access
- Account Codes
- National and Global Private Lines
- National and Global Frame Relay

Contact your Verizon account representative today, or dial:

**1-800-846-1200**  
**ext. 8003**