

# AT&T ip-enabled frame relay/ atm service



## Benefits

- Enables virtual private networking features in the traditional frame relay/ATM environment
- Establishes any-to-any IP connectivity with IP addressing schemes
- Builds IP-based intranets and extranets utilizing your current frame relay and ATM connections
- Offers Quality of Service (QoS) capabilities with delivery validation
- Enables the same security features as standard frame relay/ATM connections
- Enhances network management with performance monitoring and reporting via AT&T Frame Relay Plus
- End-to-end (DSU-to-DSU) Service Level Agreements (SLAs) for Frame Relay Service
- Provides all of these features without the need to upgrade your existing equipment or change your established network addressing scheme

## Evolving to Enterprise VPN the Frame Relay and ATM Way

Corporate networking is evolving. Some key trends: IP is the dominant intranet protocol ... intranets are carrying corporate and regional traffic and creating the need for more meshed traffic patterns ... extranets are an integral part of communications with your customers ... and the networks are delivering a complex and performance-sensitive mix of traffic like Enterprise Resource Planning (ERP) applications, supply chain management, customer relationship management, e-mail, virtual meetings and more.

Given the variety of applications you run today and envision for tomorrow, the performance requirements of your network, the enterprise IP virtual private network (IP VPN) features you desire and your existing network investment, where do you start?

AT&T IP-Enabled Frame Relay/ATM Service gives you an efficient, scalable way to incorporate today's business-critical applications into what you already have – your frame relay/ATM network. AT&T IP-Enabled Frame Relay/ATM Service accomplishes this by integrating traditional frame relay/ATM with a private IP network that enables a seamless network evolution. In addition, AT&T IP-Enabled Frame Relay features AT&T Frame Relay Plus, a sophisticated monitoring service that allows you to make sure your frame relay network is operating at peak performance.

## Any-to-Any Connectivity and Quality of Service

Building on AT&T's current Frame Relay/ATM Service network, IP-Enabled Frame Relay/ATM addresses the enterprise's evolution to IP-based networking as well as its increasingly distributed communications needs. For your business networking needs, this service expands the Enterprise VPN functionality of your current frame relay/ATM service with two new capabilities: simplified any-to-any connectivity and Quality of Service (QoS). And IP-Enabled Frame Relay with Frame Relay Plus brings you enhanced monitoring and performance validation reports.

In this high-tech, high-touch business environment, keeping in contact with all your internal organizations, your suppliers, your vendors, your partners, not to mention your customers, is essential to maintaining your competitive edge. By utilizing AT&T Frame Relay/ATM as access to your Enterprise IP VPN and incorporating an IP addressing scheme into each

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location of your frame relay and/or ATM network, you can establish any-to-any connectivity among all the locations in your enterprise.

Just as any-to-any communication is important, so too is high availability. Your business can't afford network failures, so reliable service with guaranteed quality of service (QoS) becomes an absolute requirement. AT&T IP-Enabled Frame Relay Service offers extremely high availability and strong SLAs. In fact, with AT&T Frame Relay Plus, you gain end-to-end SLAs from DSU to DSU – and advanced reporting capabilities to track performance. IP-Enabled Frame Relay also gives you the ability to assign classes of services to your data traffic (bursty high, burst low and best effort), so you can segment and prioritize traffic according to your needs. An IP Class of Service delivery validation report lets you confirm that traffic is prioritized correctly. Overall, these changes give AT&T a strong competitive position in IP-aware frame relay services and raise the bar on SLAs.

## Robust Security Features

AT&T IP-Enabled Frame Relay/ATM Service provides flexible, more intelligent frame relay/ATM connectivity than ever before – and contains the same security and privacy features as traditional frame relay and ATM service. Within the IP-Enabled Frame Relay/ATM service infrastructure, your network is logically segmented into a unique Enterprise VPN, formed to isolate your data and provide high security.

This Enterprise VPN segmentation is possible because every packet is appended with its own VPN ID. Before the AT&T network switches the packet to its destination, it verifies that the terminating location is part of that same VPN ID group.

In summary, by using AT&T's frame relay and ATM access as the basis for establishing the IP VPN segmentation, the security exposure of Layer 3 is minimized, virtually eliminating the threat of typical Layer 3 security attacks.

## Leading-Edge MPLS Technology

AT&T can implement IP-Enabled Frame Relay Service because of our deployment of advanced IP routing technology based on Multiprotocol Label Switching (MPLS) within the existing AT&T Frame Relay/ATM Service infrastructure. MPLS uses the intelligence of IP routing technology to establish route assignments, but then uses the high performance of ATM to transport the IP packets. Because the MPLS technology is integrated into the AT&T Frame Relay/ATM architecture, it can be easily accessed. For you, MPLS means that AT&T assumes responsibility for routing your data packets to their destination. By contrast, in a standard frame relay/ATM environment, your customer premises equipment (CPE) is responsible for most routing decisions.

And, in the bigger picture, MPLS is another example of how AT&T is committed to making your networking life better and easier. AT&T IP-Enabled Frame Relay/ATM Service combines the flexibility of IP networking with the security of AT&T's best-in-class frame relay/ATM network to provide your company with the Enterprise VPN capabilities essential for today's business needs.

For more information, contact your AT&T Account Executive or AT&T Alliance Program Agent, or call 1 800 288-3199. Visit our Web site at [www.att.com/ipservices/data](http://www.att.com/ipservices/data).

