AT&T Business

Maximize your WAN with AT&T Private Mobile Connection

Help protect, control, and route data your way using the AT&T mobility network

Features and benefits

- Extends existing enterprise wide area network (WAN) infrastructure and Class of Service (CoS) into the AT&T mobility network

- Variety of network connectivity options with AT&T VPN services

- Proxy Mobile IP (PMIP) capability advertises IP addresses behind the wireless router

- Flexible connections and IP addressing options

- Customizable standards–based security enhancements

- Diversity options for enterprise connections and redundancy in AT&T radio and core network elements

- Easy to use with no additional costs to WAN infrastructure

- Device-agnostic

- 24/7/365 technical support

- Enterprise applications are supported on the network

AT&T Private Mobile Connection is a flexible and reliable connectivity solution that provides secure WAN access in distributed environments.

Expand the possibilities for your enterprise

Connecting remote workers and branch locations to your enterprise WAN is a must in today's competitive landscape. Connection flexibility is equally important given diverse enterprise environments and security needs. Using a customized connectivity solution enables your enterprise to support remote and branch location access to the enterprise WAN while providing true access diversity in backup applications.

AT&T Private Mobile Connection extends your enterprise's existing WAN infrastructure into a mobility network. It enables businesses as well as government entities to pursue application deployments involving mobile workers, temporary locations, or hard-to-reach sites. The service also supports backup application scenarios to help maintain connectivity if your primary connection goes down.

Industries supported by AT&T Private Mobile Connection

AT&T Private Mobile Connection supports an array of advanced technologies across many industries. Some applications currently supported include:

- **Government/public safety:** first responder applications such as remote government database access, computer-aided dispatch, and Automatic Vehicle Location (AVL)
- **Financial:** wireless ATM machines, primary or backup of premises applications
- **Utilities:** telemetry applications, remote meter reading
- **Transportation/logistics:** vehicle location and vehicle performance monitoring, package tracking applications
- **Manufacturing:** Supervisory Control and Data Acquisition (SCADA) applications
- **Healthcare:** remote monitoring of a patient's vital signs and patient monitoring through maintenance metrics reporting
- **Retail:** point-of-sale and energy management applications

Wireless devices supported

Gaining access to your enterprise's network can be accomplished using a variety of wireless devices. These include: handsets, laptops, tablets (with embedded cellular capabilities, PC card, or USB wireless interfaces), wireless routers, embedded devices, and IoT and specialty devices. Although AT&T Private Mobile Connection doesn't specify which devices an enterprise must use to support their application, all devices must be certified to work with the AT&T network.

AT&T Private Mobile Connection architecture

Network-to-network connectivity options, including Multiprotocol Label Switching-based (MPLS) virtual private network (VPN) services or internet VPN IPsec (Internet Protocol security) tunneling, provide enterprises private and reliable connectivity between wireline and wireless environments that encompass the entire network. Wireless traffic is segmented and isolated within the network, aggregated at our diverse and redundant network facilities, and routed to the enterprise WAN. The following chart demonstrates the end-to-end connectivity solution options available with AT&T Private Mobile Connection.
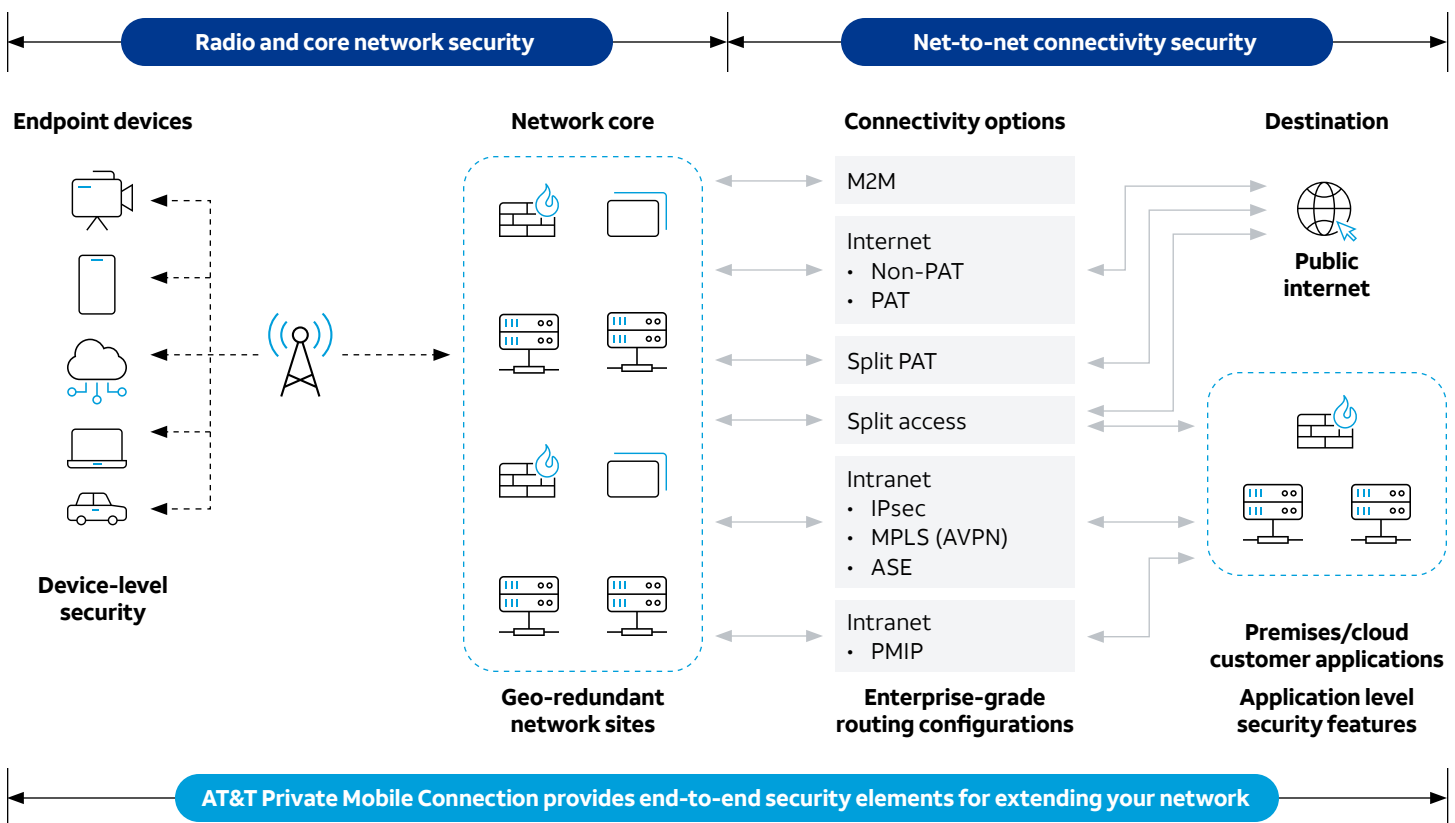
Secure and flexible connections

Security features

AT&T Private Mobile Connection uses a layered security approach. We recommend using network management practices that incorporate security features at each segment of the network.

- **Device segment:** A wide variety of vendors offer device security solutions. AT&T partners with these vendors to provide a solution that works best with your enterprise's application and network deployment.

- **Radio access network:** Encrypts data traveling between the wireless device and our mobility network using A5/3 128-bit stream encryption on 4G LTE and AES-256 on 5G.

- **Network core segmentation:** Separates mobile data traffic in the core network using individual Layer 2 tunnels to route traffic to AT&T business-grade network cores. The traffic is aggregated and further isolated per customer in these cores via individual Layer 2 virtual local area networks (VLANs) and virtual routing and forwarding instances.

- **Distributed network elements:** Employ fully geo-redundant network sites that divert wireless traffic to other sites in the case of a link or data center outage.

- **Connectivity segment:** Supports a variety of private network connection protocols that connect our network to your enterprise WAN. AT&T Private Mobile Connection supports AT&T MPLS-based VPN services and IPsec protocols for public VPN connections.[1] These are tailored to keep customer traffic private and to reduce security risks when using unprotected public networks and gateways.

- **Destination segment:** Once the aggregated mobile traffic is handed off to the enterprise WAN, additional application-level security features can be implemented.

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[1] The AT&T mobility network can interface to the AT&T VPN service via standard IP routing and a 10-Gigabit Ethernet connection. The MPLS protocol and its features are supported within those VPN services. The customer will not interface directly with the mobility network using Multiprotocol Label Switching (MPLS).

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WAN connectivity options

AT&T Private Mobile Connection connects a mobility network to the most widely deployed WAN technologies. This includes MPLS, plus a variety of network connectivity options like MPLS with AT&T VPN service, internet VPNs using IPsec, or direct internet access.

- **MPLS-based VPN services:** MPLS is currently one of the fastest-growing data networking technologies. Its appeal stems from its ability to provide a fully meshed network without having to deploy individual virtual connections to each end location. By using distributed IP routers and Virtual Routing and Forwarding (VRF) tables, MPLS enables customers to reach all their locations efficiently. AT&T Private Mobile Connection connects the mobility network to an existing MPLS-based VPN network for a consistent end-to-end experience.

- **Internet VPN:** Increased popularity of Virtual Private Network (VPN) technologies has led to many different VPN deployment architectures. However, the unifying theme of VPN deployments is that they can accept IPsec or Generic Routing Encapsulation (GRE) tunnel connections over the public internet. To accommodate the variety of enterprise IP VPN deployments, AT&T Private Mobile Connection supports a range of standard IPsec tunnel configurations. IPsec tunneling is a widely used and standards-based method of connecting to internet VPN networks.

IP address management

AT&T Private Mobile Connection provides a range of capabilities in the IP address stage. Enterprise applications dictate the type of IP addressing required. This service supports all the existing types.

- **Static IP addressing:** Enables the enterprise to specify the IP address that will consistently be assigned to each mobile device.

- **Dynamic IP addressing:** Enables AT&T to assign a different IP address to individual mobile devices each time the device makes a connection to the network.

- **Private IP addressing:** RFC1918 is an internet standard that enables enterprises to assign certain IP addresses to hosts within an internal or private network. Because these addresses aren't routed to the public internet, multiple enterprises can use the same IP address. This is done due to limited availability of registered, public IP addresses.

- **Public IP addressing:** Enables registered IP addresses to be routable over the public internet.

Customer care and technical support

Enterprises risk significant consequences if they experience a service interruption. Should an incident occur, our experienced customer care teams are available 24 hours a day, 7 days a week. Enterprises with their own help desk can obtain help-desk-to-help-desk support, while customers without a help desk receive direct end-user support.

Expand mobile access to your enterprise WAN with AT&T Private Mobile Connection.

Why AT&T Business

See how ultra-fast, reliable fiber, protected by built-in security, and 5G connectivity give you a new level of confidence in the possibilities of your network. Let our experts work with you to solve your challenges and accelerate outcomes. Your business deserves the AT&T Business difference—a new standard for networking.

Contact your AT&T Business representative to learn more or visit AT&T Private Mobile Connection.