4G/LTE/Cable/DSL Modem

ATTGate u110

VRRP

AT&T Managed AVPN Router

Typical Remote Site:
ATTGate u110 (aka vGate) w/optional cellular wireless, Primary AVPN Router

Single User Office Optional

Broad Band AGNC or MRAS Firewall

IPSec

IPSec

IPSec

Ethernet or NxT1

Public Internet

Public Internet

VIG PNC (1M - 40M)

MSS-NBFW (1M-1G)

Mobile Resource Management (MRM) Portfolio

Mobile Workforce Management

ePTT

Fleet Tracking

ePTT

Hours of Service

AT&T MRM Solutions

Mobile Forms

Asset Tracking

ePTT

Please see Page 4, 5 for Detail

AT&T MPLS (AVPN / AVPN Express)

Dual Ports

ATT MRM

ATT VoIP VNI

VoIP GW Network to PSTN

Please see Page 2 for Network Diagram Terminology

AT&T NetBond

10M-1G

AT&T Managed AVPN Router

Customer App Servers

Router

IP Phones

HQ Site

Cloud Service Providers
(e.g. MS Azure/O365, AWS, SalesForce, IBM, Box, Cisco WebEx & more)

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Network Diagram Terminology

MPLS = Multi-Protocol Label Switching network

 Advantages of AT&T's MPLS implementation, **AVPN** = AT&T Virtual Private Network:

• Private / secure

• Reliable / self-healing

• Any-to-any connectivity

• Low latency / faster transfer

• Scalable for adding sites & cloud services

• Optional **SD-WAN** (Software Defined Wide Area Network)

• Optional **AT&T FlexWare** (AT&T Universal CPE scalable appliance with downloadable SW for Routing, Security, WAN Acceleration, etc.)

ANIRA = AT&T Network-Based IP VPN Remote Access

Includes:

• **VIG PNC** = VPN Internet Gateway Private Network Connection (1M – 40M, redundant firewall)

Provides:

• Cellular modem backup in case of LEC (Local Exchange Carrier) access failure

• Secure remote access from laptops, SOHO computers, and handheld devices

Can be used with:

• **MRAS** = Mobile Remote Access Services (cellular device app)

• **AGNC** = AT&T Global Network Client (optional single user client) for PC, SmartPhone or Tablet)

SNG-NBFW = Secure Network Gateway / Network-Based Firewall

• Managed Security Services (MSS) with optional Cloud Web Security • USA Based (Medium Complexity) (10M – 1G)

• Redundant Firewall

VoIP = Voice over Internet Protocol

Includes:

• VNI = Voice Network Infrastructure

• PSTN = Public Switched Telephone Network

AT&T MRM = AT&T Mobile Resource Management

Includes:

• Fleet Complete (FC) connection via VPN Node(s) or UniLink VNC • VNC = Virtual Network Connection

AT&T NetBond

• Private VNC to Cloud Service Providers including MS Azure/O365, Amazon Web Services (AWS), SalesForce, IBM, Box, Cisco Webex & more

AT&T NOC = Network Operations Center

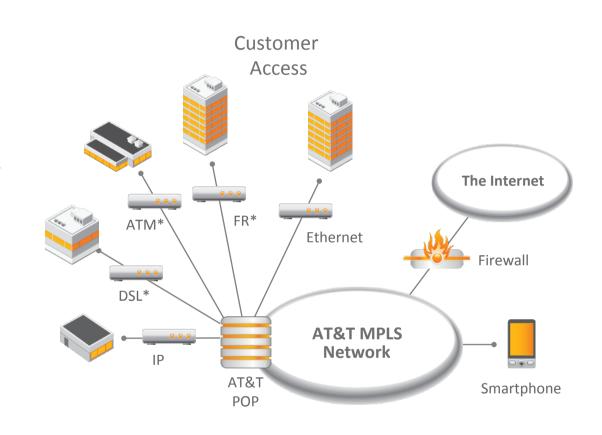• "Fort Knox" secure facility for 24x7x365 integrated management of all the above services

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AT&T VPN Express Service Overview

Benefits

- Application awareness

- Scalability

- Agile, reliable, flexible any-to-any connectivity

- Easy access to reporting / tools

- Industry-leading Service Level Agreements

- Meshed network with Class of Service
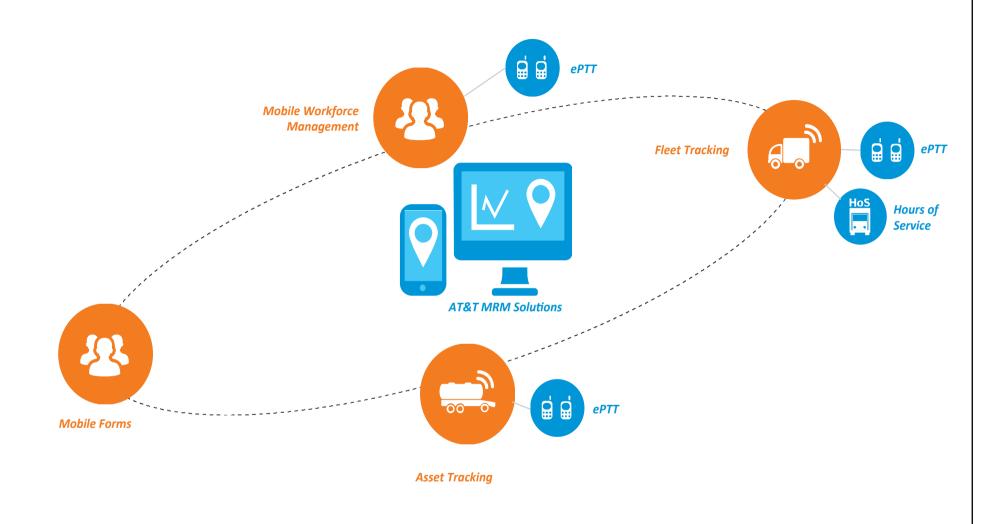
- Built-in Disaster Recovery

Customer Access

ATM*

FR*

Ethernet

DSL*

IP

AT&T POP

AT&T MPLS Network

The Internet

Firewall

Smartphone

*AT&T VPN Frame, ATM & DSL Ports are on Sales Hold and Unavailable to New Customers

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Mobile Resource Management (MRM) Portfolio

ePTT

Mobile Workforce Management

Fleet Tracking

ePTT

HoS

Hours of Service

AT&T MRM Solutions

Mobile Forms

ePTT

Asset Tracking

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Mobile Resource Management

Fleet Management

- HOS Compliance
- Fleet Tracking
- Telemetry Information
- Sensor Monitoring
- Engine Diagnostics
- Snow and Seasonal Operations
- Geo-fencing and Alerting
- Driver Behavior/Scorecard

Asset Tracking

- Employee Safety
- Minimizing Theft
- Asset Location Tracking
- Ping on Demand (Real Time)
- Container open/close
- Geo-fencing and Alerting
- Ping on Motion
- Up to 5 Year Battery Life
- 15 Year Battery Soon

Workforce Management

- Mobile Forms
- Job Dispatching
- Geo-fencing and Alerting
- Inspection Reporting
- Device Tracking/ePTT
- Back Office Integration
- Driving While Distracted

AT&T Solution Provider

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