Solution Overview:

The AT&T U110 customer premises equipment (CPE) hardware device operates as a centrally managed firewall, router, VPN device and VLAN switch on the secure Local LAN side. The AT&T VPN Gateway supports both wired (Ethernet) and cellular wireless connections to the Internet. The AT&T U110 provides the customer's premises a fully managed security device protecting them from the Internet while providing them secure access to their enterprise network through a secure IPSec VPN tunnel with the ability to support the highest level of encryption (256 bit AES). The AT&T U110 is powered by a state of the art Marvell embedded processor providing at least 130 Mbits of hardware accelerated 3DES encryption support. The world class operating system utilized by the AT&T U110 is an embedded version of uClinux Linux (www.uclinux.org).

The AT&T U110 is an eighth generation AT&T VPN Gateway that has been developed by AT&T since 2001. The AT&T U110 is manufactured by Accelerated Concepts. New features are constantly being added by the development team with the ability to automatically push updates out to the devices in the field during the middle of the night (or other times that a customer would want). The fully managed AT&T U110 is supported by a team of world class professionals with the ability to be notified by the AT&T U110 proactively of problems occurring at the customer's location. With the SNMP support included in the AT&T U110 the customer has the ability to monitor the AT&T U110 securely through their VPN tunnel. The AT&T U110 equipment provides a user friendly Web interface accessible through the local LAN or securely across the Internet. This interface provides the customer the ability to view diagnostic and configuration information. The VPN tunnels can also be viewed and controlled via the web interface.

Typical Deployments

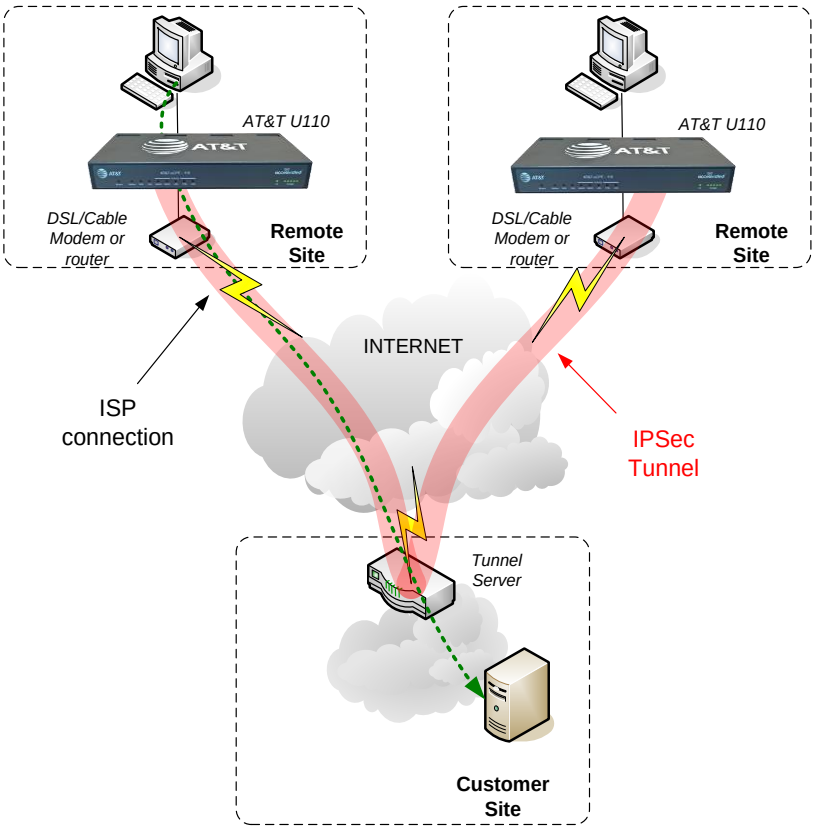

Figure 1: AT&T U110 Inbound Tunnel Connectivity

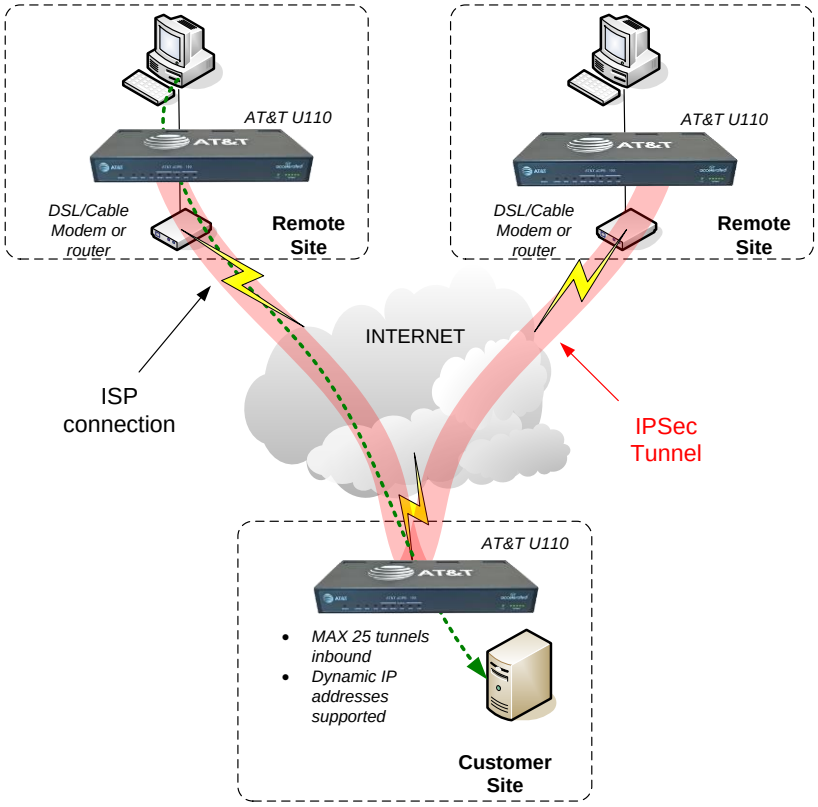

Figure 2: AVTS Service Connectivity

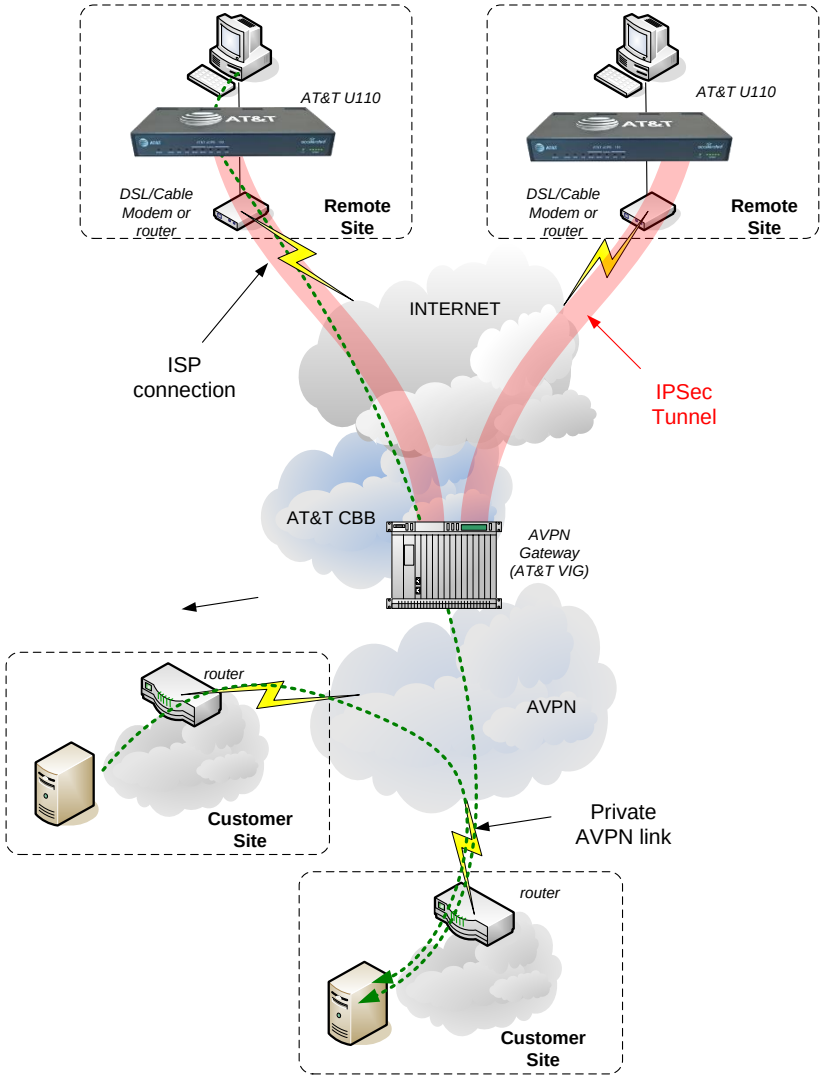

Figure 3: ANIRA Service Connectivity

Technical Specifications:	
Throughput	130 Mbps 3DES/AES
IPsec VPN Compatibility	• AT&T SIG (Remote Access & Site-to-Site); • Nortel Contivity (Remote Access & ABOT); • Cisco Unity (Remote Access & Network Extension Mode); • AT&T VIG (ANIRA EVPN) • AT&T U110 inbound tunnels • Central configuration of IPSEC tunnel encryption/authentication methods including: DES, 3DES, 128 bit AES, 192 bit AES, 256 bit AES, SHA-1, MD5, LZS

Features	• Class of Service: the ability to mark each packet with DSCP markings, and the ability to shape the traffic inbound and outbound for each class of traffic.
	• Automatic WAN bandwidth determination logic used for Class of Service configuration
	• Centrally managed Stateful firewall
	• Port Address Translation NAT for Internet traffic
	• Multiple options for address translation when sending traffic through the VPN
	  ○ No NAT: route natively (Internet or VPN)
	  ○ Source NAT: NAT entire subnets of addresses
	  ○ Source NAT plus PAT: NAT entire subnets of addresses with the rest of the subnet not NAT'd sent using a single PAT'd address
	  ○ 1 to 1 NAT: NAT single addresses through central configuration
	• Port Forwarding on Internet and VPN interfaces
	• RIP routing available on the Local VLAN networks and used for communicating within the VPN tunnel to Nortel & SIG
	• VRRP on the Local VLAN interfaces
	• Multiple outbound tunnels (up to 4)
	• Local and remote access to the Web interface for configuration, diagnostic information and VPN tunnel control
	• Admin password and SSL security available to secure Web interface access
	• AT&T proprietary proactive monitoring alerts with active time of day windows
	• SNMP polling access using version 1, 2, or 3 for basic MIB-II support
	• SNMP traps/informs using version 2 or 3
	• Access to AT&Ts proprietary reports through Focus

VLAN Features	• POE via ports 7 and 8 • Built in 8 port VLAN switch with the ability to support up to 8 VLANs internally or through 802.1Q trunking • VLANs and cascaded networks classification allowed for Internet Only and VPN access • Directed Broadcast to the VLAN interface supported through the VPN tunnel • Multicast through an AT&T ANIRA IPsec tunnel • Centrally managed DHCP Server • DHCP Relay • Rogue MAC detection • 802.1x support • Native VLAN support
WAN Access Methods	• DHCP • PPPoE • Static IP

	• Cellular wireless access provided through external USB cellular modems provided by Wireless provider (Primary or Backup access) • Cellular access provided by the Accelerated Cellular Extender Model 6200-FX. • Secondary WAN port can be used in place of the standard cellular or analog backup. (Analog backup is via a certified External USB modem.) • Dial and Cellular backup logic to take over when primary broadband/cellular access is down. Centralized configuration controlling when to initialize backup.
Tunnel Options	• Persistent • Traffic initiated • User initiated • VRRP controlled
Upgrades	• Centrally managed automatic upgrades from AT&T at no charge • Ability to lock a customer's device to a specific version of code
External Interfaces:	
Ethernet ports	8 X IEEE 802.3-2008 GbE specifications VLAN switch capable LAN ports 2 X IEEE 802.3-2008 GbE specifications WAN ports
Power over Ethernet	2 X PoE GbE LAN ports IEEE 802.3af
USB 2.0 ports	2
Signal Strength	Front panel cell signal strength LEDs and connected network indicator
Internal sockets	Cellular Modem Socket SATA Socket PCIe Socket
Internal Cellular Modem:	(available only on SKU: ASB-U110-RATT-OUS)
3G/4G Cellular	LTE, HSPA+
Cellular Certifications	PTCRB, AT&T and Verizon
4G Bands **3G Bands**	2, 4, 5, 12, 13, 17 2, 5
Supported USB Devices:	
3G/4G Cellular	Sierra Wireless USB 305, 308, 598U, 250U, 313U (AT&T Momentum), AT&T BEAM, 319U, 330U Novatel Wireless U760, 551L, U679 Huawei EC1261, EC169C, EC1750, E1815, E3131 E-Mobile D26HW, D31HW, D32HW Vodafone K3520-Z, K4505, K4511, K3765, K3773 Sprint 3G/4G USB U600, 341U, Tri-Mode, Pantech UML290, UML295 ZTE Rocket MF668 Contact your AT&T Representative for a current list of supported cellular modems. AT&T employees can find the current list at: https://olympus.labs.att.com/attvpng/Education/att_vpn_gateway_supported_cellular_cards.pdf

Environmental Operating Ranges:	
Operating Temperature	0 – 40 deg C
Relative Humidity	0 – 95% non-condensing
Storage Temperature	-20 – 70 deg C
Power:	
INPUT	
Line voltage range	100-240V
Current	1.5A
Frequency	50-60 Hz
OUTPUT	
Line voltage range	19V DC +-5%
Current	2.5A
Physical Specifications:	
Dimensions (L x W x H)	11.8” x 5.7” x 1.55”
Weight	2.75 lbs
Regulatory and Standards Compliance:	
Electrical Safety	CAN/CSA-C22.2 No. 60950-00 IEC60950-1:2005, 2nd Edition with the following group and national differences where applicable for AR, AT, AU, BE, BR, CA, CH, CN, DE, DK, FI, FR, GB, HU, IL, IN, IT, JP, KE, KR, MY, NL, NO, PL, SE, SG, SI, SK, and US
Immunity	EN55024:2010 (ITE immunity) IEC 61000-4-2 (ESD) IEC 61000-4-3 (RF EM field) IEC 61000-4-4 (EFT) IEC 61000-4-5 (Surge) IEC 61000-4-6 (Conducted) IEC 61000-4-11 (Dips/inter.)
Emissions	FCC Part 15, Subpart B, Class A; EN55022:2010 / AC:2011 (ITE emissions), Class A
Marks	CE C-tick FCC cTUVus
Other Product Information:	

Manufacturer	The Accelerated UTM Security Appliance is manufactured by Accelerated Concepts Inc. for AT&T and is marketed by AT&T as the AT&T U110. Accelerated Concepts, Inc. 1120 E. Kennedy Blvd, Suite 227 Tampa FL 33602
Part Number	U110
SKUs	ASB-U110-XATT-OUS; ASB-U110-XATT-OCN; ASB-U110-XATT-OIN; ASB-U110-RATT-OUS