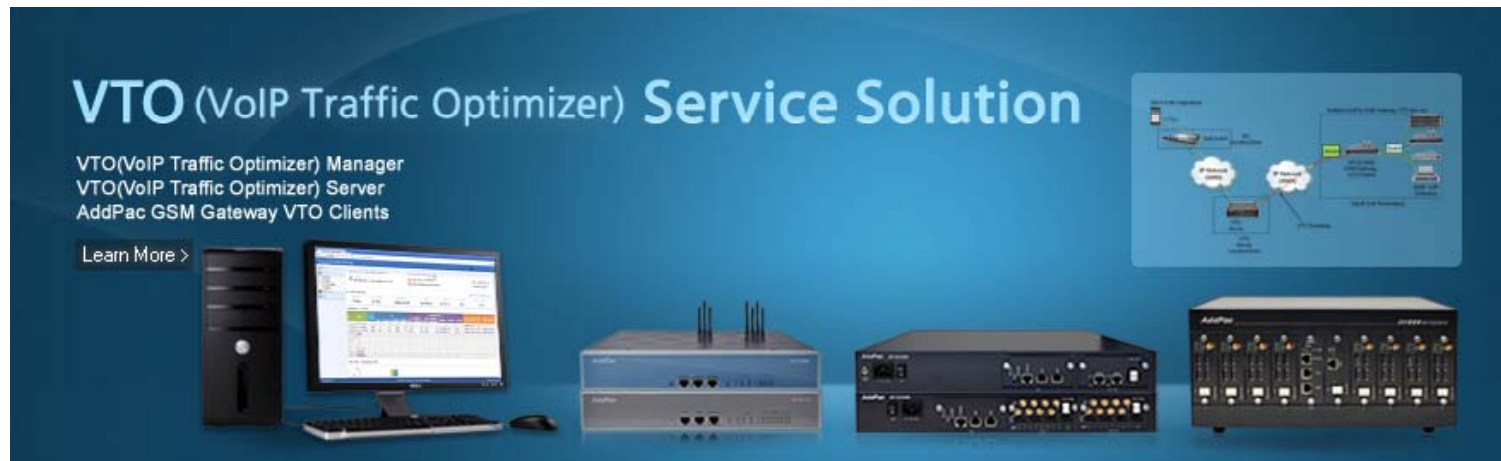


VTO (VoIP Traffic Optimizer) Service Network Configuration



VTO (VoIP Traffic Optimizer) Service Solution

VTO(VoIP Traffic Optimizer) Manager
VTO(VoIP Traffic Optimizer) Server
AddPac GSM Gateway VTO Clients

Learn More >

The banner features a blue background with a network diagram in the top right corner showing connections between a cloud, a server, and various network devices. Below the text, there are images of a desktop computer with a monitor displaying a web interface, a white wireless router, a black VoIP server unit, and a black AddPac GSM gateway device.

AddPac

AddPac Technology

2014, Sales and Marketing

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Contents

- VTO Service Concept
- VTO Service Component Table
- VTO Client Devices & Network Diagram for VTO Service
 - AddPac GSM Gateways (VTO Client Built-In)
 - VTO Client Dedicated Model for other Vendor GSM Gateways : AP-VTO200

VTO Service Concept Diagram



VTO Service Concept

- High Performance VTO(VoIP Traffic Optimizer) Solution
- VoIP Anti-Block Service Solution : AddPac Proprietary No IP Change Scheme
- VTO Server & Client Architecture
- Bandwidth Usage Reduction (Compression) Scheme for VoIP Call Termination
- VoIP Traffic Monitoring Service (CDR, ASR/ACD, Bandwidth, Packet Loss, Delay)
- Remote GSM Gateway Web (Http) Access Service
- Support various VoIP codecs like as G.729, G.723.1, G.711, etc
- Support various different internet network like as 3G, WiFi, WiMax, Broadband, etc
- Support various VoIP Equipment like as PSTN(Analog, Digital), GSM, CDMA, 3G, etc
- NAT and Firewall Support
- Multiple VoIP Equipment Support for bandwidth saving efficiency
- Transmit Scheduling Support for Jitter Control
- Embedded H/W and Real-Time Operating System for VTO Service

VTO Service Component Table

VTO Service List	Description
VoIP Traffic Compression Service	Proprietary Algorithm
VoIP Anti-Block Service	Proprietary Algorithm
Plug & Play VTO Service	No Need Linux Server for VTO Client AddPac GSM Gateway support VTO Client.
VoIP Traffic Monitoring Service	To Termination : Raw Data, Compressed Data, Packet Loss From Termination : Raw Data, Compressed Data, Packet Loss Round-Trip Delay CDR Information : No Need Soft-switch for CDR
VoIP Traffic Call Re-Routing Service	VTO Server Interworking with GSM Gateway (SIM Block, GSM Port Fault, etc)
VoIP Traffic Clouding Service	Proprietary Algorithm
GSM Gateway Web Connection Service*	Remote Access Control Service for AddPac GSM Gateway Management, No Need Team Viewer



VTO Client Devices for VTO Service



VTO Client Built-In AddPac GSM Gateway

Benefits and Features





GSM Gateway VTO Client

- GSM VoIP Gateway + VoIP Traffic Optimization Service
- VoIP Anti-Block Service
- Embedded H/W platform with Real-time OS
- Multiple VoIP Equipment Support for Efficiency Increasing
- Various VoIP Codec Support
- Various Different Internet Environment Support
- Compact Size and Low Power Consumption compare with Commercial Server
- NAT and Firewall Support
- Advanced QoS Algorithm
- VTO Server & Client Architecture
- VTO Service Manager Software (Server & Client)
- User Friendly VTO Management Software with options like managing call capacity, endpoints, view CDR, active calls etc.
- Real-time VoIP Packet Loss Rate Monitoring

GSM Gateways for VTO Client Service

GSM Gateway VTO Client







High-end
RISC

Model	AP-GS2500	AP-GS3000	AP-GS4500	AP-GS5000
				
Available Modules	AP-N1-GSM4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1	AP-N1-GSM4 AP-N1-FXS8 AP-N1-FXO8 AP-N1-FXS4O4 AP-N1-E1	AP-N1-GSM8 AP-N1-FXS8 AP-N1-FXO8 AP-N1-E1 AP-N1-2E1	AP-N1-GSM8 AP-N1-FXS8 AP-N1-FXO8 AP-N1-E1 AP-N1-2E1
GSM Channel	Up to 16 Ch.	Up to 36 Channel	Up to 64 Channel	Up to 80 Channel
GSM Antenna	One(1) / 4 Channel GSM Module (AP-N1-GSM4)	One(1) / 4 Channel GSM Module (AP-N1-GSM4)	Two(2) / 8 Channel GSM Module(AP-N3-GSM8)	Two(2) / 8 Channel GSM Module(AP-N1-GSM8)
Module Slot	Four(4) Module Slots for GSM	Nine(9) Module Slots for GSM, E1/T1 Module Slot	Eight(8) Module Slots for GSM, E1/T1 Module Slot	Ten(10) Module Slots for GSM, E1/T1 Module Slot
LAN Port	2	2	2	2
Console	1	1	1	1
Power	Single PSU	Single PSU	Single PSU	Dual PSU (module)

GSM Gateways for VTO Client Service

GSM Gateway VTO Client





High-end
RISC

Model	AP-GV3300	AP-GV3200	AP-GV3100
	 	 	 
Available Modules	AP-N5-GSM8UI AP-N5-GSM8I AP-N5-GSM8SI AP-N5-1E1/T1 AP-N5-2E1/T1	AP-N5-GSM8UI AP-N5-GSM8I AP-N5-GSM8SI AP-N5-1E1/T1 AP-N5-2E1/T1	AP-N5-GSM8UI AP-N5-GSM8I AP-N5-GSM8SI
GSM Channel	Up to 48 Channel	Up to 40 Channel	Up to 32 Channel
Module Slot	Six(6) Module Slots for GSM,E1/T1 Module, etc	Five(5) Module Slots for GSM,E1/T1 Module, etc	Four(4) Module Slots for GSM Module, etc
LAN Port	2	2	2
Console	1	1	1
Power	Single PSU	Single PSU	Single PSU

GSM Gateways for VTO Client Service

GSM Gateway VTO Client

High-end
RISC

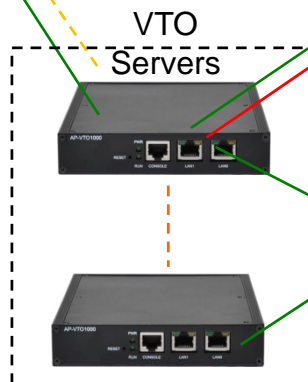
Model	AP-GS1016	AP-GS916	AP-GS716	AP-GS516
				
Module Type : Available Modules	AP-N5-GSM8UI AP-N5-GSM8I AP-N5-GSM8SI (8 channel module)	AP-N1-GSM4I AP-N1-GSM4UI (4 channel module)	N/A	N/A
Module Slots	2	4	N/A	N/A
GSM Channel	16-Port	16-Port	16-Port	16-Port
IMEI change	Support : Multiple Change	Support : Multiple Change	Support : Multiple Change	Support : One Time Change
Auto BTS	Support	Support	N/A	N/A
SIM Client for Remote GSM SIM Server	Support	Support	N/A	N/A
External Antenna	16 ea	16 ea	16 ea	16 ea
VoIP Codec	G.711, G.729, G.723.1,etc	G.711, G.729, G.723.1,etc	G.711, G.729, G.723.1,etc	G.711, G.729, G.723.1,etc

VTO Client Service Diagram (Case 1)

Site A (Call Origination)



VTO Server Location Zone

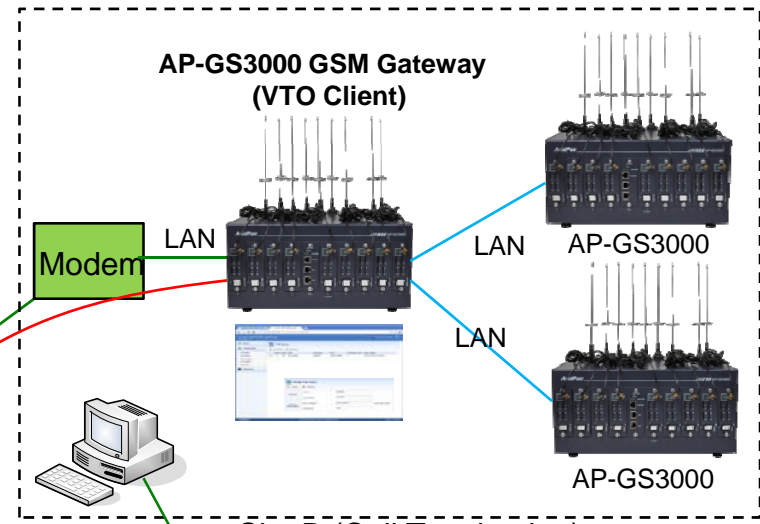


VTO Tunneling



VTO Manager (Server)

All AddPac GSM Gateway VTO Service (virtual network)



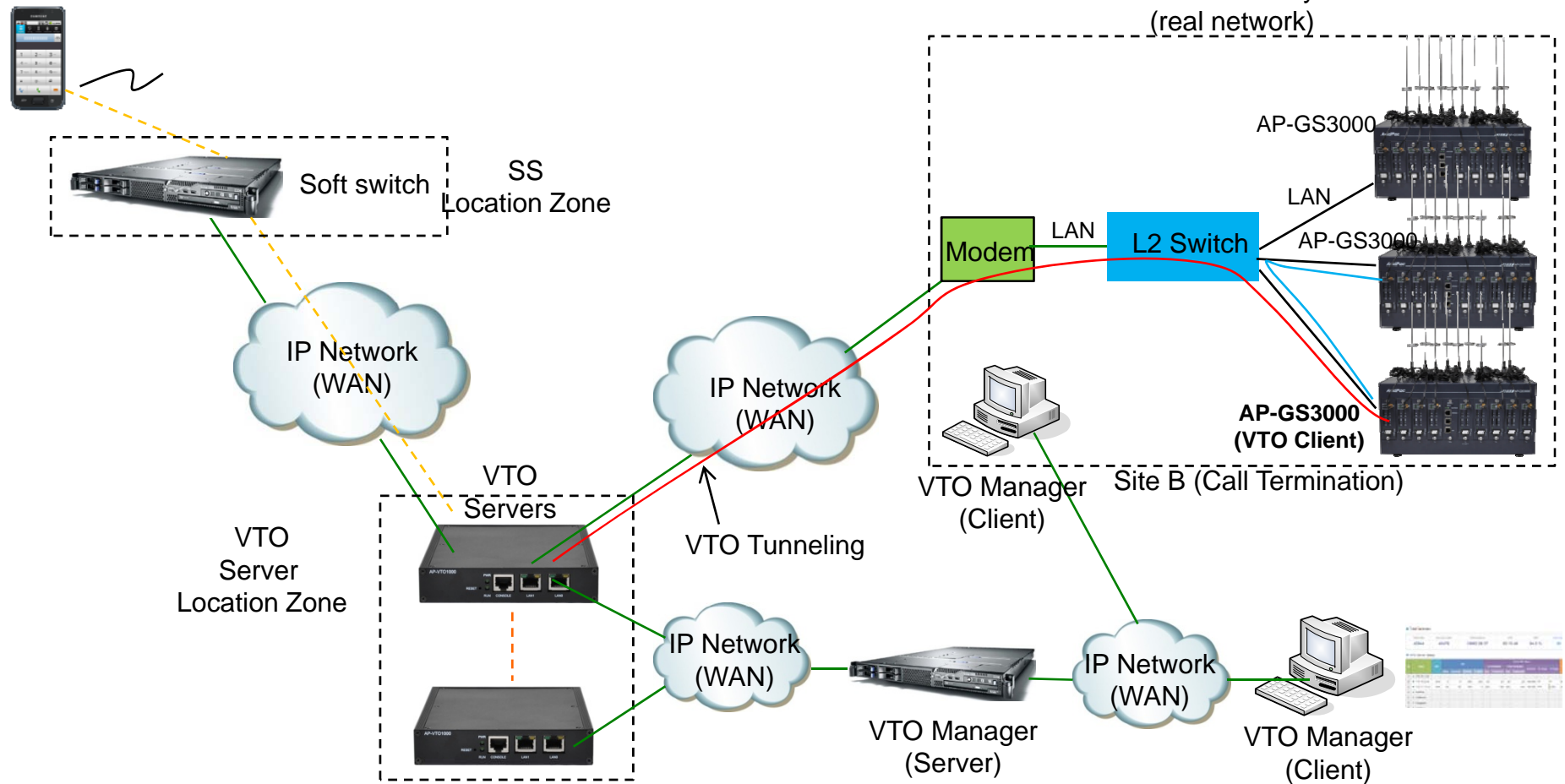
VTO Manager (Client)



VTO Manager (Client)

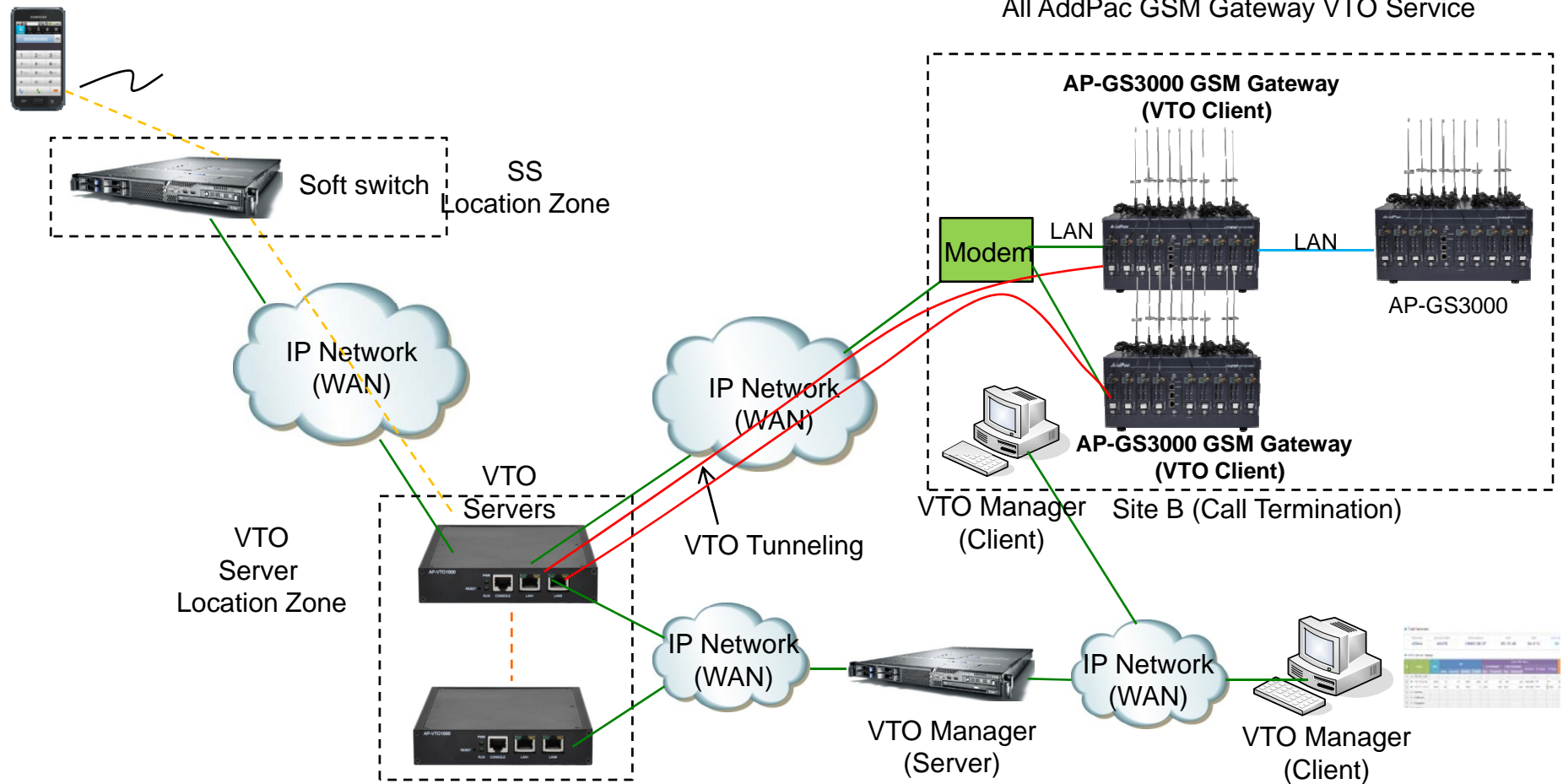
VTO Client Service Diagram (Case 1)

Site A (Call Origination)



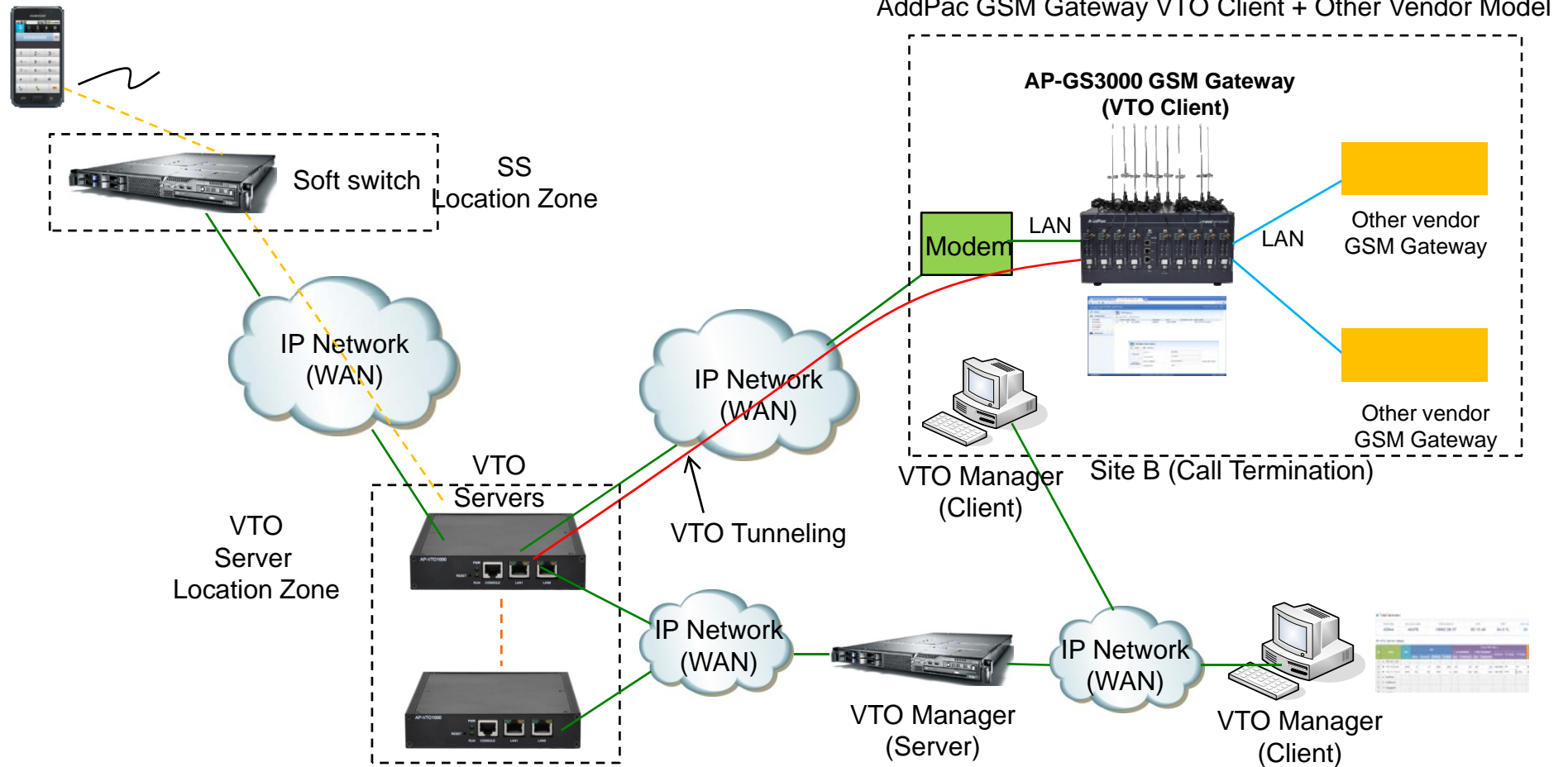
VTO Client Service Diagram (Case 2)


Site A (Call Origination)



VTO Client Service Diagram (Case 3)

Site A (Call Origination)





VTO Client Dedicated Hardware for General GSM Gateways (AP-VTO200)

Benefits and Features

AP-VTO200 VoIP Traffic Optimizer Client

- VoIP Traffic Optimization Service
- VoIP Anti-Block Service
- Embedded H/W platform with Real-time OS
- Multiple VoIP Equipment Support for Efficiency Increasing
- Various VoIP Codec Support
- Various Different Internet Environment Support
- Various VoIP Equipment Vendor Support
- Compact Size and Low Power Consumption compare with Commercial Server
- NAT and Firewall Support
- Advanced QoS Algorithm
- VTO Server & Client Architecture
- VTO Service Manager Software

Hardware Specification

AP-VTO200 VoIP Traffic Optimizer Client

High-end
RISC

- High-end Programmable RISC Hardware Architecture
- Network Interface
 - Two(2) 10/100Mbps Fast Ethernet
 - One(1) RS232C Console Port

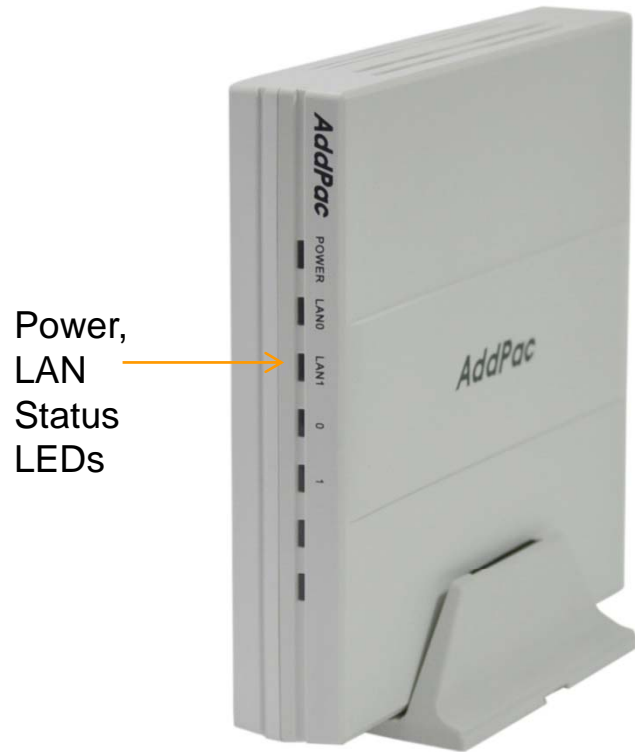


Hardware Specification

AP-VTO200 VoIP Traffic Optimizer Client

High-end
RISC

Front View



Back View

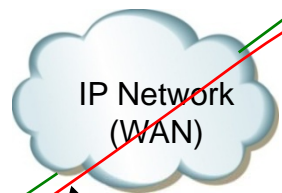
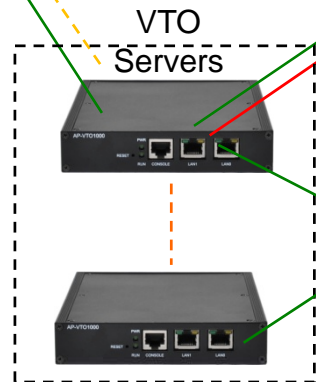


VTO Client Service Diagram

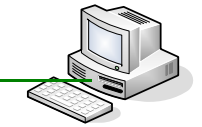
Site A (Call Origination)



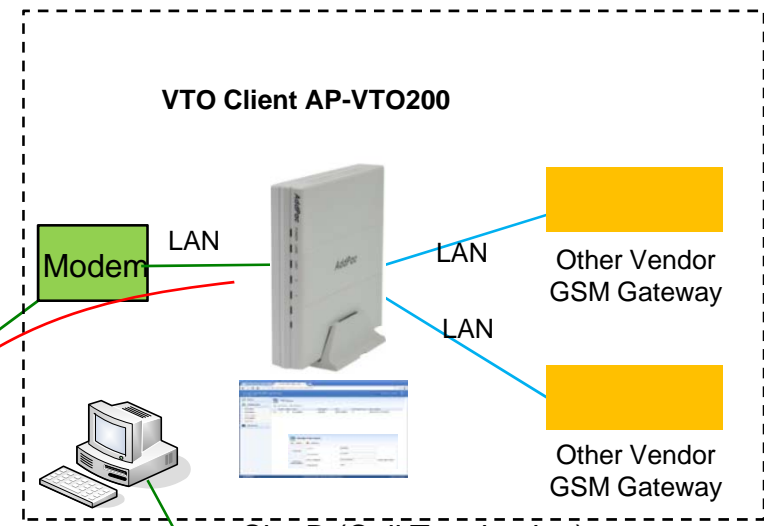
VTO Server Location Zone



VTO Tunneling



AddPac VTO Client + Other Vendor Model



Site B (Call Termination)



Thank you!

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