



## AWITEL solution and services for PTTs:

### AWITEL Voice Traffic Solutions for Carriers using IP backbone

AWITEL supports PTTs; International carriers and service providers with high quality voice/Data traffic exchanges over IP; this service covers establishing Bi-Lateral voice traffic exchange agreements with PTTs and other in-country partners (where permissible) to carry international traffic into and out of the country. In addition it will offer voice services such as IP telephony to private licensee organizations and ISPs in its regions of operation to enhance this market sector.

AWITEL offers A-Z as well as dedicated routes termination services in an effort to complement our offerings and provide you with a full Solution (Hardware, Billing and Traffic Termination) for your VoIP Business. Therefore, AWITEL clients are sure that all the components of their business are managed with the professionalism and technical expertise that only AWITEL can provide.

We have many years of VoIP deployment and maintenance experience and our team is certified by the best providers of VoIP hardware, integrated voice, data and networking equipment. Following diagram is our proposal to PTT carriers using state Of the art TMG Gateways from TelcoBridge. The gateway data sheets are attached to this proposal.

### Our solution for PTTs and Incumbent Telecom. Carriers

Traffic exchange from/to many PTT and Incumbent carriers is TDM based yet; this is because of two main reason:

1. QoS is highly important where the end user/carrier balances higher costs with quality.
2. The Carrier's gateway equipment are TDM switches.

If there is tendency to deploy VOIP platform at the same location of PTT/Carrier; AWITEL suggests a smart and win-win solution which is outlined here.

In the AWITEL PTT scenario; we provide:

- the VOIP Gateway/softswitch
- knowledge and competency of VOIP deployment to Carrier as well as technical supports

And the carrier:

- will allocate the floor space for the VOIP equipment at the same location of his international gateway, and
- provides required Internet BW according to agreed capacity.

Both parties are responsible for their billing facilities.

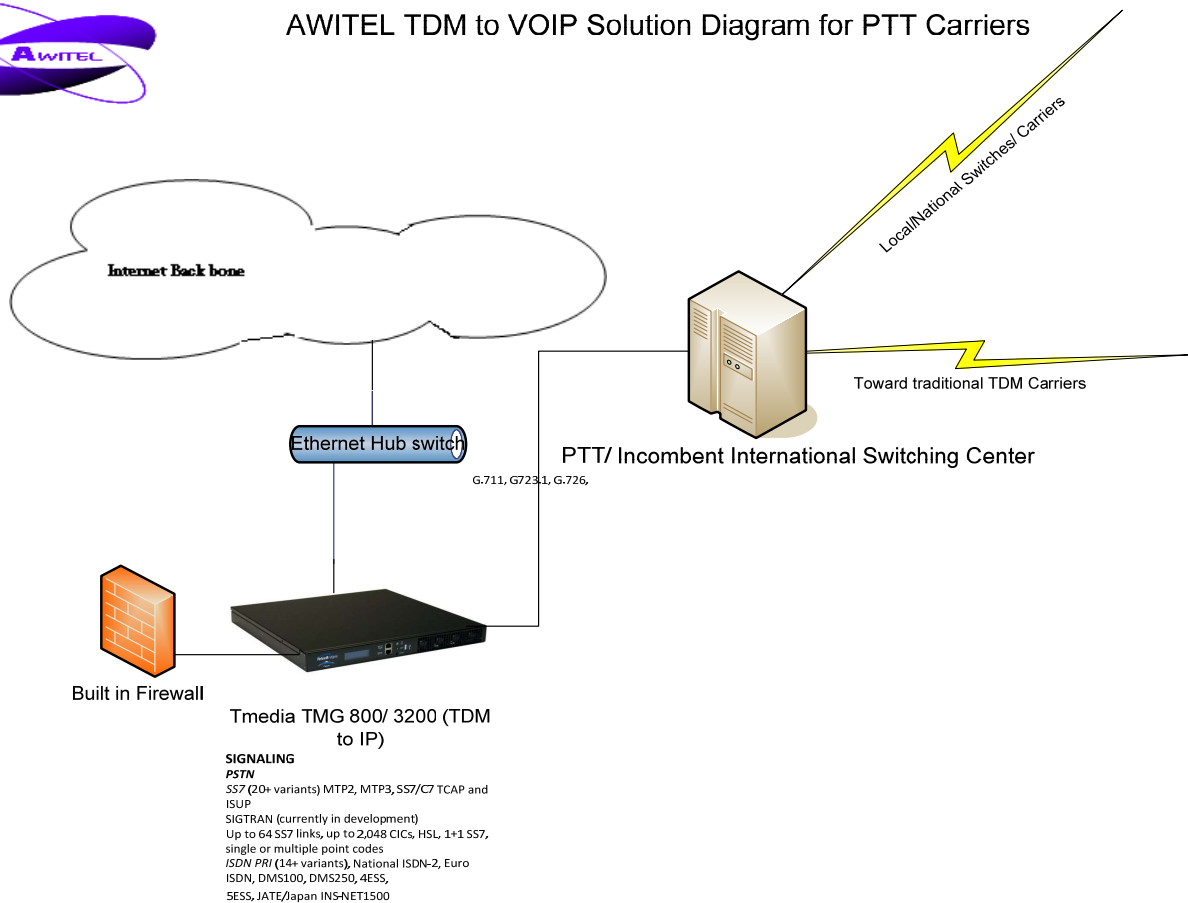
AWITEL and Carrier exchange the two-way traffic based on an agreement and after 5 years; the carrier owns the whole platform.

An schematic diagram in the following picture is a brief of this solution. We use TelcoBridge TMG gateways and soft switchs starting 8 E1 and up to STM-1 interconnection. Many Signaling formats e.g.

CCS7, SS7, TCAP, ISUP, etc. are supported by TMG gateways. Technical data of TelcoBridge TMG gateways are in attached data sheets.



### AWITEL TDM to VOIP Solution Diagram for PTT Carriers



### AWITEL Carrier Benefits:

- \* Top Quality Worldwide Call Routing
- \* Superior Network Security
- \* Reliability – Backed up platform to guarantee our services
- \* Compatibility - Compatible with all types of hardware (All Gateways, Switches, Call Router Servers, IP phones) and also Netmeeting.
- \* Technical Support – Support Plans to provide level of support you need
- \* Web management tools – So you can check your balance at all times

Our functional management tool provides our clients with a detailed report of their calls so they have a clear idea of their traffic and balance of their accounts.

Additionally to the outstanding tools and quality offered, we know how important is for you to offer competitive services to your clients and this is why we are tirelessly working on providing you with the most competitive rates in the market.

For pricing information, please e-mail: [sales@awitel.com](mailto:sales@awitel.com) and let us help you decide which TelcoBridge, Cisco our other products are right for your business

AWITEL provides a no hassle, cost-effective Equipment Leasing for businesses located in the US & Canada. You can finance your new or used business equipment with fixed monthly payments — over a period you choose.

Connections to AWITEL's Voice & Internet Backbone can be made through many points worldwide over the Internet, either through satellite or fiber optic links. With such a network in place AWITEL can confidently deliver the Carrier class A quality at the lowest cost to its clients. In a partnership tie up , AWITEL has enough switching capabilities throughout Europe and North America and can also give the opportunity of Co-locations for carrier's NGN soft switches at North America for carriers.

AWITEL is able to deliver voice services to any of the countries worldwide at very competitive rates. In addition it can also deliver services to other countries not on its own network or route the whole traffic of the carriers through Bi-lateral agreements at the best market prices. Combining voice services with high quality Internet access gives customers a unique opportunity to provide an integrated service to end users.

At AWITEL we believe in creating **great business partnerships**, so our **Partner Program** is designed entirely around mutually benefiting Carriers, VoIP resellers and AWITEL partners. In our experience, a happy and satisfactory partnership is one that makes good commercial and business sense for you, the partner, and AWITEL. After all, a real return on investment (ROI) is what it's all about.

AWITEL is able to provide customers with voice over IP, through facilities in North America and Canada. This will allow customers around the globe to deliver international calls from countries where IP calls are allowed and deliver it through high quality networks, often better than the existing in-country services. The set up is easy and fast over one day; the only technical requirement from carrier side is to identify the IP address of the Origin or destination of the traffic to be exchanged.

AWITEL provides reliable, affordable, intelligent, and secure VoIP-Based Solutions and hardware systems that give a service provider the scalability and flexibility to distinguish itself and succeed in the booming VoIP market.

### **VoIP Soft-switch Solution**

Our VoIP Soft-switch Solution is an intelligent, scalable user friendly application that allows service providers to unify voice and data traffic in one network. It provides flexible, programmable routing intelligence and includes a management application for switching and phone operations.

### **Carrier Billing Solution**

Our Carrier Billing Solution provides a way for system owners to manage traffic terminating from multiple carriers to single or numerous POPs. The solution offers real-time CDR information as well as monitoring, reporting and business analysis tools.

### **Class A VoIP Soft-switch**

AWITEL's Class A VoIP Soft-switch has been designed to entitle Service Providers with an all-in-one Management Tool for all their varied IP Telephony Services. AWITEL's Class A VoIP Soft-switch integrates Call Routing Services, Client Management and Reporting Platform to provide VoIP and circuit-switch Origination and Termination Services.

AWITEL's Class A VoIP Soft-switch incorporates Soft-switch, Billing server, VoIP hardware and full technical integration of the whole solution. AWITEL's Class A VoIP Soft-switch IP Billing Platform enables you to successfully manage Prepaid/Postpaid Services, Wholesale,

Termination, Caller ID ANI, Callback, PC to Phone, IP Phones and other Adaptors and Hosted Call shop all in one Solution.

AWITEL's Class A VoIP Soft-switch provides the following advantages:

- Integration of all VoIP Services all in one Platform
- SIP and H323 Compatible
- Quintum and Cisco Hardware support
- Scalability and Reliability
- Allows VoIP Market rapid entry with a minimum investment

Key Features:

- SIP Proxy Server
- H323 AAA
- IP2IP AAA
- Prepaid / Postpaid Billing
- Proxy gatekeeper
- NAT Client support
- Online Call Status
- Built-in Radius, IVR and Database
- Unlimited Tariffs
- Proxy Call Signaling Enabled
- Full feature Tariff (Surcharge Fee, Resolution, 30 by 6)
- Unlimited Carrier Support (Termination Side)
- Least Coast Routing Support
- Instant H323 and SIP Carrier Support
- Unlimited Client Registration
- Call Control Features (Maximum Talk Time, Max Ring Time)
- Automatic User Generation
- User friendly Database Management System
- Online Statistics and Reporting

- Fraud detection tools
- Unlimited Gateway Support

Enhanced Features:

- PIVR
- Customized Reports and Invoices
- Web Based Customer Care
- Web Based CDR
- Web based Reseller Module
- Callback Module ( Web, ANI, SMS)
- PC2Phone Module
- Ecommerce Module including Credit Card Payment support

Platinum Features:

- Call Forward
- Call Waiting
- Call Three Way Calling
- Multiples Numbers
- Voice Mail / Web Mail

Solution Components:

- Analog or Digital VoIP Gateway
- AWITEL's Soft-switch Billing Platform
- Partnership with VoIP Carrier(s)
- Remote Installation Services and Training to get your business up and running in two to three hassle free business days.

Who may take advantage of these solutions?

- Service Providers looking to Prepaid Calling Cards, Postpaid, Prepaid, Termination and Wholesale Services with one fully integrated Solution.
- ITSPs with single or Multiple POPs/VoIP Gateways in one or more locations.

•ISPs or Carriers who would like to add additional Operations Services using their existing infrastructure.

For more info on our Soft-switch VoIP Platform Solution please contact our technical team at: [technical@awitel.com](mailto:technical@awitel.com)

## **Wholesale VoIP Carrier Billing Solution**

AWITEL's Wholesale VoIP Carrier Billing Solution enables exchange of traffic from IP to IP clients allowing system owners' function as Carriers and Manage Real Time Traffic Exchange with Monitoring, Billing, Reporting and Business Analysis Specialized Tools.

AWITEL's Wholesale VoIP Carrier Billing Solution allows VoIP endpoints such as VoIP gateways, IP phones and IP soft phones which are behind a Network Address Translation (NAT) firewall, to communicate with VoIP endpoints on external IP networks.

AWITEL's Wholesale VoIP Carrier Billing Solution for routing and reselling traffic to Carriers and Service Providers features IP phone and small devices Billing support, Multiple Clients and Web Interface for Resellers and End-Users.

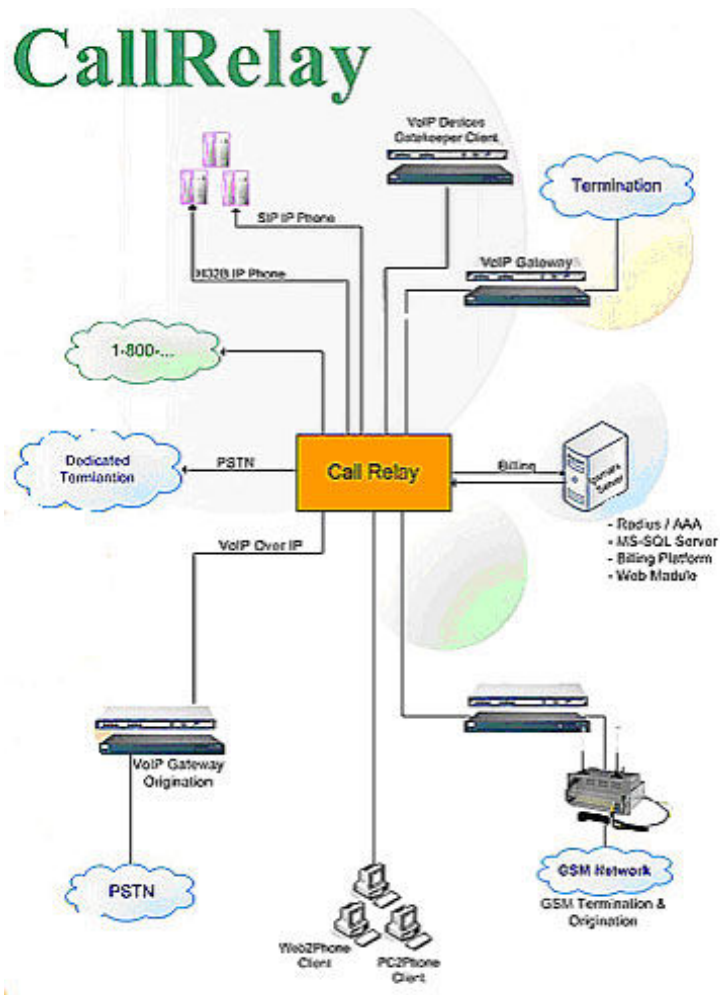
## **Key Features**

- Full Real-time Billing- For both Clients (Origination party) and Carriers (Termination party)
- Unlimited Client Support – Unlimited number of Clients or Carriers can be configured into the System
- Multiple Call Rating Tables - For both Clients and Carriers with Peak/Off-Peak time rate module included.
- Easy Management of Database - Import/export options from/to MS-excel files of rate tables
- Multiple Gateway / IP Address Support - Each Client or Carrier could be configured to have one or multiple IP addresses (gateways for example)
- Client Web Interface - Access modules for the Clients or Carriers so they can see real-time traffic and download their respective CDR (Call Detail Records)
- Hidden Client Support - If the Gatekeeper is used in Proxy-mode the IP addresses of the Client and Carrier can be hidden from each-other
- Warning Percentage Support- Will notify the owner of the system when a certain client is reaching his low amount threshold (so some action can be taken accordingly)
- Reports - Comprehensive CDR/Accounting reports by Client or Carrier for a given or selected time period. More detailed reporting for single or multiple gateways (IP addresses or H323 ID) are also available

## **Other Features**

- H323 AAA
- IP 2 IP AAA

- Built-in Proxy Gatekeeper
- Online Call Status
- Built-in Radius
- Prepaid / Postpaid Billing
- Unlimited Carrier Support
- Instant H323 and SIP Client Support
- Unlimited Client Registration
- Online Statistics and Report
- E-commerce Module
- Customized Reports
- Web Based CDR
- Web based Reseller Module



## **Solution Components**

The Wholesale Solution has the following components:

- TelcoBridge TMG Gateway / Gatekeeper
- ResaleVoIP Billing Software\
- Installation Services

Requirements

- Microsoft Windows Server
- Microsoft SQL Server
- Server
- Internet Access

Who may take advantage of these solutions?

- Anyone who would like to successfully enter the VoIP Traffic Exchange Business.
- Existing ITSPs willing to migrate their existing platform to VoIP

How Does The Solution Work?

You are the owner of a wholesale solution with many customers sending you traffic for Termination and receiving traffic from you to terminate:

- One of your customers' sends traffic to your VoIP Gatekeeper/TMG.
- Your Gatekeeper/Call Relay identifies, verifies and authorizes the traffic and re-routes it to one of your customers who is terminating traffic for you.
- Your system records the complete CDR information for the traffic for real-time and future billing, reporting and business analysis needs.

To get a closer look at the software and its features please contact us to schedule a remote or in-person demo.

For more info on our Wholesale VoIP Carrier Billing Solution please contact our technical team at: [technical@awitel.com](mailto:technical@awitel.com)

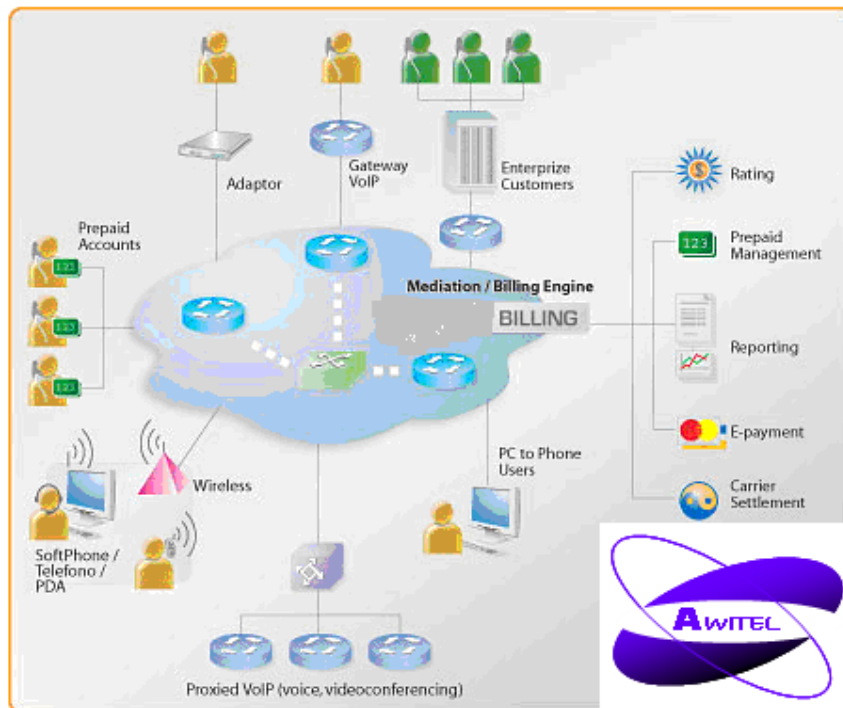
## **Hosting VoIP Solution**

AWITEL's Hosting VoIP Solution enable partners who want to leverage the benefits of a proven global VoIP infrastructure and manage their own rate decks to take advantage of the Hosted VoIP Service for authentication, authorization, and administration.

Benefits of Services from AWITEL:



- Rapid launch of services
- Operational freedom
- 24x7 web based access
- Elimination of technology risks
- Elimination of infrastructure risks
- Significant cost savings
- World class technology
- User training and support



### Who may take advantage of these solutions?

- New entrepreneurs looking to start a business using the emerging VoIP Technology.
- Existing Telco based Calling Card companies or Carriers who would like to migrate to VoIP and increase profits while decreasing costs.
- Existing or emerging ITSPs and ISPs who would like to use their existing infrastructure to add VoIP Calling Cards to their list of services.

For pricing information, please e-mail [sales@awitel.com](mailto:sales@awitel.com) and let us help you start a Business!

### Collocation Space

### Collocation for Carriers

No matter of an organization's size, AWITEL's interconnection solution is to reduce operating expenses and expand market opportunities. Currently there are PTTs,

International and long distance carriers, long haul transport, metro fiber, CLEC, IP Transit, TDM/Voice and VoIP providers in the marketplace.

AWITEL offers space ranging from racks to cabinets to cages, and access to network speeds from T1 to OC192 (E1 to STM-64).

If you are only need a small amount of bandwidth; AWITEL offers an interconnection starter package for organizations needing only small amounts of bandwidth. For example, if you only require one DS-3 cross-connections within the Marketplace, you can lease an AWITEL-provided access connection for a low initial investment and monthly fee. Once your organization's bandwidth needs expand, the leased access port(s) can be quickly and easily migrated to customer-owned "home runs" to connect your company's equipment to a Meet Me Room in the Marketplace.

### **Benefits for Carriers**

- Direct access to over 140 carriers to buy and sell services
- No monthly recurring fees for cross-connections between customers within the meet me room
- Provisioning cycles measured in hours instead of weeks
- World class customer care and business support
- Security and reliability: UPS & generator backup, cooling system, 24/7 secure site access

### **Collocations for Enterprise**

Enterprise traditionally purchase their communications services from a chosen vendor, but have to pay for a "local loop" to connect to their choice carrier, resulting in an increased cost by 30-40%.

Instead; AWITEL offers a cost-effective alternative to this model. By extending your network to the Marketplace, you can:

### **Benefits for Enterprise:**

- Streamlined network structure with built-in redundancy
- Selection of carriers offering services at wholesale rates
- Provisioning cycles (cross-connections to service providers) measured in hours instead of weeks
- World class customer care and business support
- Security and reliability: UPS & generator backup, 24/7 secure site access