W RLD TELECOM LABS

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## *WebTL: Web-Based Billing for all SIP Customers*

WTL have now made the real-time billing of VoIP calls completely simple. Using a central web server to host the WebTL billing application means that Call Shops, Cyber Cafes, residential users, small businesses, hotels etc can access their call billing instantly – all they need is an internet connection. Data billing is also supported.

Quick & Simple Set Up

Most billing solutions require the installation of software and/or hardware at the customer premises. WebTL changes this – all that is needed is a standard web browser.

- No costly installations
- Nothing to go wrong on the customer/call shop side
- No problems maintaining remote versions of software
- No risk of wrong rate sheets in the call shop
- The client is tied to your service

WebTL Intelligent Billing System
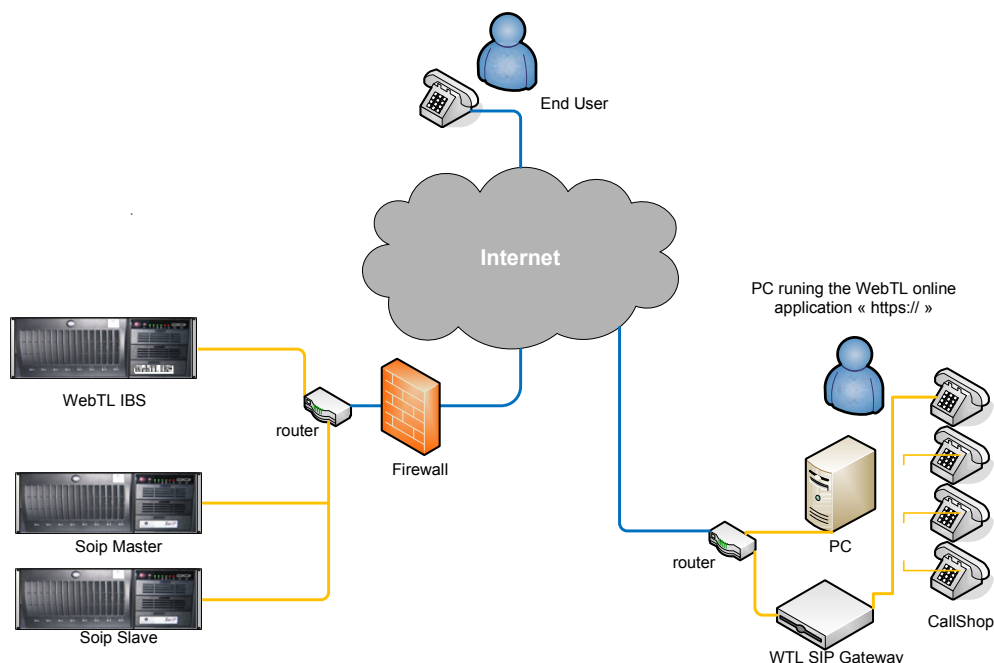
Features

- Clear graphical display of all current calls
- Real time cost of call available as soon as user hangs up
- Full set of statistics and reports available - most popular destination, busiest customers etc

- Traffic & margin reports available per shop
- Price lists imported from text or CSV files (easy to load carrier price lists)
- Feature to block calls if Buy Price is higher than Selling Price
- Language configurable per client
- Calls from SIP phones, PC phones, IP-PBXs, legacy phones & PBxs (via VoIP gateways)
- Supports any kind of VoIP gateway which can send CLIs (but central switch must be WTL!)
- Internet data billing for cyber cafe operation

Client Display

The interface that the client sees to track live calls is very clear and shows graphically all the booths/phones and their current status. This display can be customised by including the company's logo on all the pages (this includes the possibility to display interactive images).

Who Should Use WebTL?

Call Shops/Cyber Cafes – This is the most common use for WebTL. Multiple Call Shops can be supported with a mix of different set ups in every shop.

SIP Resale: Residential clients / VoIP diallers- Clients can be validated by their login & password and can view their call costs immediately (Skype-like service). The service provider can monitor live calls, manage rates and get reports on his business.

Changing the Way the World Communicates

Hotels & Accommodation Blocks – WebTL can act as a standalone billing system for SIP phones in guest rooms. If required the WebTL log files are available to be imported into a 3rd party billing package.

System Architecture

A dedicated web server is co-located with one of the WTL switches in the network. This allows the WTL switch to give a data feed of call events as they happen. The WebTL server must have a fixed IP address and will normally be accessed by a host name via a DNS server. This may be a public IP address or may be protected within a VPN.

The Web Server uses an open source HTTP server (from Jetty) running on Sun Solaris 10. The WebTL application is a Java virtual machine running on this web server. Account/rate management is handled by an integral PostgresSQL database.

Security

As for any web-based financial system, security is of critical importance within WebTL.

The WTL WebTL application makes use of SSL when communicating between the remote location (e.g. the Callshop) and the central billing server. The user access is via an https:// page. Like all https:// "Secure web pages" the SSL certificate will protect the web site at the heart of the central server. SSL refers to the digital certificate used with the most popular security protocol on the Internet. Whenever you make a purchase on the Web and notice the closed lock icon at the top or bottom of your browser or the HTTPS:// prefix in the URL, it means you have established a secure SSL connection. Your browser has examined the signed certificate received from the web site, determined it to be authentic and secret keys have been computed at both ends of the connection. All the information you enter online is encrypted before being sent to the server.

The use of SSL means Web site visitors can trust the site in three essential ways:

1. An SSL Certificate enables encryption of sensitive information during online transactions, like login and password access.
2. Each SSL Certificate contains unique, authenticated information about the certificate owner.
3. A Certificate Authority verifies the identity of the certificate owner when it is issued

As with most security products, it is the responsibility of the customer to select the right level of protection for their own business. Indeed, because of point 2 above, it is not actually possible for WTL to supply SSL certificates on behalf of customers.

A number of SSL certificate providers exist. For example:
http://www.verisign.com/ssl/buy-ssl-certificates/index.html
http://www.instantssl.com/promo/free-ssl-certificate.html?ap=GoogleJul10&gclid=CPbHqcfMo5wCFU0A4wodcgPrjw

Product Options

WebTL is supplied pre-loaded on a suitable server. The product is licensed according to capacity (number of end-user billing accounts). As standard the Central Software includes 1 – 50 Accounts/CLIs. This would cover up to 5 x 10 booth call shops for example. If more accounts are required they can be purchased in blokcks of 50 extra licenses up to a maximum of 800 per WebTL system.