

### Quantum and iPhone4Less offer a Comprehensive VoIP Solution With a Service Management Platform.

Service providers are faced with service delivery issues that were incomprehensible just a few years ago. Networks were clearly defined for voice or data. Today, however, VoIP is a disruptive technology that is radically changing the telecommunications business and posing new challenges for both new and existing service providers.

Quantum and iPhone4Less have partnered to offer a complete, cost effective solution for service providers to deploy and operate a state of the art VoIP network.

#### The Technical Challenge

Service providers are no longer in a class by themselves. The voice services market is now being pursued by not only the traditional telecom players, but also by next generation telcos, ISPs and cable companies; the profit margins are eroding; and there is an expensive infrastructure to support. The high cost of TDM networks, greater competition, and eroding profit margins are forcing service providers to change the way they do business.

This new world of VoIP and convergence of voice and data networks offers the ability to operate networks more efficiently and deliver revenue generating value added services. Service providers face the challenge of quickly and efficiently deploying VoIP and the support systems such as billing, order processing and service creation. Many service providers also need to efficiently integrate their VoIP networks together with existing networks and operations.

As service providers deploy VoIP they are also concerned about QoS and delivering the same level of voice quality that the customers are getting with their existing service. With the fast pace of change in this industry, service providers need the ability to deploy the network and put operations and services into place quickly.

#### The Business Solution

**Quantum's** Tenor VoIP MultiPath Switch products address the voice QoS concern, as well as basic interoperability and integration.

**Ease of Integration and Configuration:** The Tenor's MultiPath architecture allows it to be easily and seamlessly integrated in with the existing carrier infrastructure. There is no need for network upgrades or overhauls. Simply place the Tenors into the existing network, utilize Tenor's newest Configuration Manager and Network Monitor software, and VoIP is ready to go.

Quantum's Tenors can support small SOHO and smaller branch office locations needing as few as 2 simultaneous VoIP calls, up to 24 simultaneous analog VoIP calls in one unit, and enterprises needing fractional T1, E1 connections up to nearly 1000! All Tenors support H.323 and SIP, are IVR/RADIUS AAA compliant, have intelligent call routing, universal dial plan capability and can have integrated gatekeepers for simple network management.

**Built-in QoS for VoIP Communication:** It is critical to ensure the best possible network performance by assuring voice calls with be PSTN quality. The Tenor VoIP MultiPath switches offer patented SelectNet™ Technology, which monitors calls for jitter, packet loss and latency and can transparently switch calls from the IP to the voice network, mid-call, whenever conditions meet a targeted threshold of voice degradation. This assures superior voice quality.

**IPhone4Less** offers innovative software solutions for today's service providers and network operators for both wholesale and retail telecommunications products and services. They have also developed, implemented, and contracted a worldwide, private, packet-switched VOIP network, providing high-quality, low-cost, secured transport of voice communications.

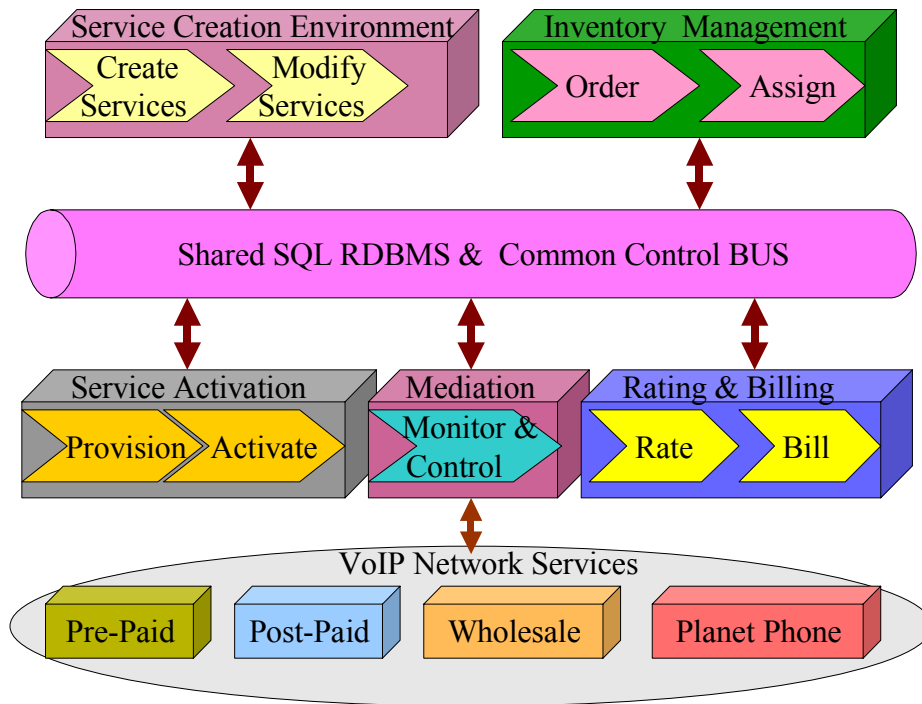
### **Solution by Quintum and IPhone4Less**

The IPhone4Less Services Management Platform™ (SMP) delivers many key business management and service management processes through an integrated and cost effective system, which addresses many of the key business and operational challenges of migrating into a VoIP network through:

- ◆ Process automation enables network managers to enter and/or expand its their VoIP market share without the need to increase staff.
- ◆ Near term revenues improve, and time-to-market is shortened for VoIP services.
- ◆ This fully integrated solution enables network managers to deploy expanded service offerings without the complexity and expense of purchasing individual OSS components that must be integrated by the Network Operators' engineers.
- ◆ Provides the ability for competitive differentiation in all areas of VoIP services including, but not limited to:
  - Pre-Paid services
  - Post-Paid services
  - Wholesale Telco services
  - Personal IP phone services
- ◆ The SMP system utilizes the latest in Web, Java, Linux and SQL database technology, providing a highly portable and scalable solution running on virtually any cost-effective computing platforms available today.
- ◆ SMP provides secure and ubiquitous web access to all systems functions though any common web browser, enabling authorized access by users across the company or their customers worldwide.
- ◆ SMP GUIs enable ease-of-use and convenience to network operators and their customers with online user guides and built-in help functions, through intuitive GUI screens to simplify the management and control of all SMP functions.
- ◆ SMP offers service providers a complete set of capabilities for delivering a wide variety of services and operating an efficient VoIP network including:
  - Service Creation Environment
  - Inventory Management
  - Service Authorization
  - Mediation
  - Rating and Billing
  - Trouble Management
  - Account Management for all Clients

The SMP may be integrated into a service provider's network or used on a hosted basis, allowing service providers to begin offering VoIP services quickly and cost effectively.

## SMP Functional Components



### Quantum® and iPhone4Less SMP Solution: Ideal for Innovative VoIP Applications

*These end-to-end software solutions, coupled with Quantum's Tenor VoIP MultiPath Switches which are available today will position your company to enjoy all of the advantages VoIP networking and services have to offer today and will position your company to readily and easily offer future products and services using the emerging VoIP technology. For more information: <http://www.iphone4less.com/products.html>*

### About Quantum Technologies

Eatontown N.J.-based Quantum Technologies specializes in voice-over-IP technologies that bring the reliability and voice clarity of public telephone networks to Internet telephony. Its Tenor VoIP MultiPath Switches help businesses of all sizes migrate to converged networking without risk. Quantum sells its MultiPath switches worldwide through a network of resellers and distributors. For more information call 877-SPEAK IP (1-877-773-2547), 732-460-9000 outside the U.S., or visit [www.quantum.com](http://www.quantum.com).



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