Accelerate™

Voice over IP (VoIP) Solutions



Accelerate carriers' ability to deploy the enhanced services that consumers and enterprises want today.

Lucent Technologies
Bell Labs Innovations

Lucent's Accelerate™ VoIP Solutions help service providers deliver *value over IP* — whether adding capabilities to an existing network or building a greenfield, softswitch-driven network.



What customers want:

The voice and data applications that today's customers are demanding:

- *Unified communications*
- *Messaging services*
- *Location-based services*
- *Traditional and next-generation calling features*
- *Voice and data VPNs*

The key to Accelerate™ is *speed* – the ability to rapidly deploy the enhanced services that consumers and enterprises want today. Lucent puts service providers on an "accelerated" path to an all-IP network by rapidly enabling revenue-generating services that can help fund next-generation network builds.

Accelerate™ solutions enable service providers to offer VoIP services that are *more secure, reliable and cost-effective,* whether they are evolving an existing circuit-switched network to IP or building a greenfield, softswitch-driven VoIP network for a specific application or region.

Lucent solutions deliver the highest value with differentiated applications, more revenues, better network ROI, and more efficient management of capital and operating expenses for better profit margins.

Five key benefits of Accelerate™ VoIP solutions:

- **Rapidly create new applications** – whether from Lucent, our strategic partners, or other developers – is enabled with open and programmable application platforms.
- **Offer customers one-click access** to voicemail, email, faxes and advanced voice/data services with seamless customer access to services from multiple devices, including PCs, PDAs, cell phones and office phones.
- **Simplify network operations**, lower operating costs and ensure QoS and service level management with automated provisioning and activation capabilities.
- **Leverage your existing infrastructure** with new components and interfaces to migrate TDM networks to IP.
- **Improve your time to revenue and lower costs** for deploying and migrating to VoIP networks by taking advantage of Lucent's full suite of consulting, deployment, and maintenance services to help carriers .

Lucent's expertise is driving the new generation of VoIP networks.

Lucent's Bell Labs invented voice networking. Today, Bell Labs research is easing the migration from voice to packet-based networks. Accelerate™ solutions scale up to the demands of the largest service providers, bringing quality, reliability and feature-rich services to a new generation of IP networks. Lucent Worldwide Services offers a suite of consulting, deployment, and maintenance services that surround the Accelerate™ solutions to help carriers speed their time to revenue and lower their costs for deploying and migrating to VoIP networks.

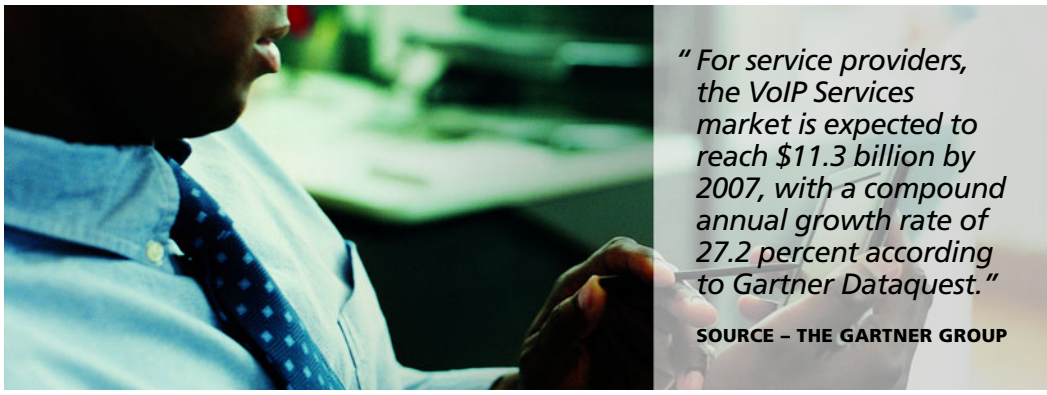


Accelerate™ VoIP solutions:

- **Enterprise Solutions** – High-demand voice and data services for medium and large enterprises that unify communications for greater efficiencies.
- **Mobility Solutions** – 3G Wireless (W-CDMA/UMTS & CDMA® 2000) solutions enabling next-generation secure voice and high-speed data services across multiple types of mobile devices.
- **Voice/Data/Video over Broadband Solutions** – Voice and data services such as voice over DSL and IP video – for both residential and business customers – delivered over any IP connection.
- **Local Network Solutions** – Based on a next-generation platform that provides traditional Class 5 services via VoIP, these solutions connect any end user to any network. From mobile to Personal Digital Assistants to computers, service providers can deliver high-value voice and data services over a single IP connection.
- **Service Provider Trunking Solutions** – VoIP Packet interconnections for network switches and mobile switching centers that greatly simplify network engineering and management.
- **Next-Generation Applications Solutions** – Revenue-generating applications such as unified communications and short messaging services. These applications have been created by Lucent and its partners, and combine reliable hardware and software with advanced billing systems for a total solution approach.

Accelerate™ solutions offer our customers the greatest flexibility and benefit in creating next-generation networks. In new network builds, Accelerate™ solutions enable service providers to build cost-effective next-generation networks for advanced services such as voice VPN, multimedia and location-based services that can be extended to both fixed and mobile customers. And Accelerate™ solutions can be deployed to introduce IP capabilities into traditional voice networks. For all Accelerate™ solutions:

Navis® iOperations OSS Software streamlines VoIP operations for faster and more efficient introduction and management of new services. The Navis® provisioning portfolio provides automated service activation, CPE provisioning, and IP Address Management with Navis® Provisioning Manager, VitalAccess™ and theindustry-leading VitalQIP™ software. The Navis® assurance portfolio proactively manages end-to-end VoIP service quality and SLAs with the award-winning VitalSuite™ and the newly released VitalSQM™ software and provides an integrated network-wide view of fault and performance data with Navis® ISA, allowing providers to rapidly identify and resolve network infrastructure issues.



" For service providers, the VoIP Services market is expected to reach $11.3 billion by 2007, with a compound annual growth rate of 27.2 percent according to Gartner Dataquest."

SOURCE – THE GARTNER GROUP

Lucent Worldwide Services offers include the Accelerate™ Readiness Service — a specifically designed set of network reliability assessments to ensure VoIP traffic is handled more reliably, securely and efficiently.

Lucent's Accelerate™ Solutions are customized to meet individual needs and include the following products:

Softswitch and Media Gateway

- The Lucent Softswitch (LSS) is at the heart of the Accelerate™ portfolio of Voice over IP products. Putting Bell Labs innovation to work for customers, Lucent has developed a unified softswitch that supports both wireline and mobile applications. In addition, the LSS architecture leverages an MPLS core to provide the needed Quality of Service (QoS) that customers expect for carrier grade applications.
- The Intelligent Media Gateway connects standard telephones to either the traditional voice network or a VoIP network. This enables service providers to evolve to a VoIP network that supports customers using standard telephones and services, or IP phones and services, including computer telephony.

Switching

- Lucent's 5E-XC™ Switch migrates TDM networks to IP, providing an IP interface while nearly tripling the capacity of the 5ESS® Switch. For smaller applications, there is our iGen™ Compact Switch, an economical "switch-on-a-pack" architecture that saves up to 90 percent on operating expenses compared to other small Class 5 switches.
- The Lucent Universal Gateway portfolio provides VoIP trunking gateway capabilities, enabling any service on any port.

Applications

- The iMerge® Gateway connects to any circuit switch and provides all of today's Centrex services to IP endpoints, while still serving traditional endpoints within the same Centrex group.
- Lucent's EBS Web Unifying Portal simplifies service deployment and provisioning. EBS supports convergence on desktops, so carriers can offer customers one "window" to voice and data applications, including new IP Centrex services such as business-grade call management.
- Lucent offers a strong portfolio of messaging products and features for Voice Mail, Unified Communications (UC), Speech Enabled Applications and Voice Portal solutions. The AnyPath® Messaging System can integrate new media-rich applications with the voice messaging capabilities you are already offering your customers.
- The PacketIN™ portfolio of applications and services solutions enables rapid creation of next-generation converged voice and data services.

Access

- The AnyMedia® Access System supports voice, DSL data and other special services over a copper loop. When integrated into a next-generation VoIP network, the AnyMedia Access System is an ideal platform to provide robust converged, next-generation services.
- The Flexent® Mobile Access products provide radio access for CDMA2000® and UMTS mobile networks with superior capacity, coverage, and QoS options for real-time VoIP applications like Push-to-Talk.

Security

- The award-winning Lucent VPN Firewall is today's broadest suite of carrier-grade IP solutions for delivering service level-assured security, VPN, and QoS services in environments ranging from the largest data center to the smallest office.

To learn more about our comprehensive portfolio, please contact your Lucent Technologies Sales Representative.

Visit our web site at http://www.lucent.com/accelerate.

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