




Clarent
your choice is **Perfectly Clear**
the clearer. the better.

Clarent

delivers

real internet calling, today



IP Telephony is clearly an emerging standard in business and consumer markets. The Internet and managed IP networks — from dedicated corporate networks to “public” Virtual Private Networks — are quickly becoming next-generation telephone networks using Voice over Internet Protocol (VoIP).

Clarent’s software architecture and NT server-based gateways are designed by technologists who have demonstrated vision and experience in both IP and traditional telephony. This blend of knowledge in bridging packet- and circuit-switched networks enables Clarent to provide carriers and enterprises with high-quality, highly reliable platforms for voice and fax over IP.

With Clarent Gateways, growing your network is uncomplicated, manageable and cost-effective because Clarent constantly works to ensure that its technology will give you an easy-to-implement evolutionary path at the leading edge of IP network telephony.

Clarent products provide the complete business back-end you need to turn an IP network into a practical, realistic business opportunity, today. Clarent Carrier Solutions and Clarent Enterprise Solutions provide everything you need to manage IP networks with an unprecedented level of simplicity, clarity and control.

Phone-to-Phone VoIP Technology

Calls made through a network of Clarent Gateways over the Internet or any IP network are transparent to users. Clarent Internet Telephony Solutions are robust business systems, designed for carrier-quality performance with:

- PSTN voice quality*
- Networks of Clarent Gateways maintained by Clarent Command Center, a central, intelligent administrative system with flexible billing, call routing, call rating and network management capabilities
- Lowest measured system latency in the IP Telephony industry
- Open architecture allowing easy upgrades and dramatic price performance improvement as technology rapidly improves*
- A software architecture that allows easy addition of new features

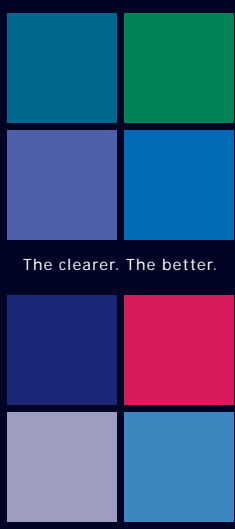
**Clarent has patents on file and pending regarding key elements of its clear voice technology and its overall architecture.*

Clear About Voice Quality

Whether you are a service provider or an enterprise, you can't afford to sound second rate – to your customers or your staff. With Clarent's Internet Telephony Solutions you won't, because we've mastered the technology of clear voice over IP. Customers worldwide have proven Clarent's Internet Telephony Solutions and made it their clear choice.



CLARENT.



Clear About Management

Clarent knows what it takes to run a business on a network – Telco, Internet, or Intranet. Clarent's experience in data communications and telecommunications places equal emphasis on both to build the robust business systems you need for billing, account management, roaming and settlement tools, operations management and other administrative capabilities. That's what doing business on telephone networks is all about. With Clarent Internet Telephony Solutions that's exactly what you get.

Clear About Growth

Clarent systems are designed to grow with your network, regardless of its size. Our software architecture lets our products capitalize on rapid technological change so your growth is uncomplicated, manageable and cost-effective. That means you can easily add Clarent Gateways and new features to make Internet telephony the clear path for future voice and data platforms. Also, you can connect your network to other Clarent-based networks to develop a global presence for your business.

Carrier Products Provide Real-World Solutions for the Emerging Next Generation Network



Technology trends are transforming the telecommunications industry from a traditional stand-alone circuit-switched model into a new integrated voice-and-data enhanced services market. Your company needs to stay abreast of those trends to enter new markets quickly and cost-effectively. A next-generation Internet-based network with efficient, feature-rich long distance telephone calls built on IP telephony is how you do that.

Clarent Carrier Solutions enable you to quickly develop and launch phone-to-phone long distance voice and fax services that offer the best of both the traditional voice telephony and the new IP-based technologies. Designed with traditional telephony requirements for voice quality, reliability, redundancy, scalability and management infrastructure in mind, Clarent's carrier-grade products also offer all of the benefits that come with efficient bandwidth utilization, lower capital costs and faster time to market.

CLARENT PRODUCTS OFFER THE BEST TRADITIONAL AND NEXT GENERATION TELEPHONY FEATURES:

- PSTN voice quality
- Truly scalable systems which allow millions of simultaneous calls
- A wide range of proven interfaces (T1, E1, analog and ISDN)
- SS7/C7 Capability (Support for both ITU and ANSI versions of the ISUP layer of SS7/C7.)
- Simultaneous voice, fax and data transmission
- Real time billing for calling card support
- Redundant routing and network design
- SNMP-compliant and Web-based system and network management tools



Clarent's Solutions for Enterprise. Voice, Fax, Data – One Network

Clarent Enterprise Solutions are designed as an integral part of an enterprise's communications network – large or small. For large, self-managed networks, Clarent equips the enterprise telecommunications department to fully provision and operate a complex corporate network from a single point of administration. For enterprises that use service providers for virtual private network services, Clarent's VPN Telephony Suite allows service providers to centrally manage thousands of corporate "domains" through a single interface. Either way, with Clarent Enterprise Solutions, corporations can enjoy the reliability of a private network, the economy of the public network and the flexibility of a single network.

CLARENT ENTERPRISE SOLUTIONS PROVIDE:

- Voice, fax and data on a single network
- Centralized administration of multiple, remote networks
- Flexibility to add new services as technology advances
- Reliability of a secure, closed corporate network
- Scalability, security and cost saving

Clearinghouse Capabilities:

THE KEYS TO EFFECTIVE PARTNERSHIPS — ROAMING, ROUTE SHARING AND SETTLEMENTS

CLARENT CONNECT	Partnerships. It is impossible to survive in Telephony without them. Partners bring traffic to your network and enable your customers to enjoy service no matter where in the world they are or where they are calling. But profitable partnerships depend on effective transaction settlements – service providers must generate billing records, share them and clear payments for network utilization.
CLARENT ROAMING SERVER	
CLARENT COLLECTOR AND CLARENT COLLECTIONS MANAGER	

CLARENT'S SETTLEMENT PRODUCTS PROVIDE EFFECTIVE, SIMPLE WAYS TO SETTLE TRANSACTIONS WITH YOUR BUSINESS PARTNERS, INCLUDING:

- Global coverage through route-sharing capabilities of Clarent Connect
- Convenience of mobility for your customers to use partner networks through Clarent Roaming Server
- Clear, accurate billing records for each partner through Clarent Collector and Collections Manager
- Scalable, dynamic service architecture to support multiple partnerships
- Security and control over customer data



clearly, Clarent **should be your choice**

IP TELEPHONY SOLUTIONS FROM CLARENT ARE SCALABLE, FLEXIBLE, RELIABLE AND AFFORDABLE.

Millions of minutes per month run over Clarent-enabled VoIP networks worldwide. Clearly, Clarent's technology has proven it reliably delivers quality telecommunications that make our customers successful.

Clarent technology is designed for telephony-centric customers, making Clarent the clear leader in providing Internet Telephony solutions.

Contact Clarent today for information regarding technical specifications and requirements, and sales information. Or, visit our Web site: [http: www.clarent.com](http://www.clarent.com),
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