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We're making news.

Teligent's new SmartWave™ DSL offers smaller businesses a "step up from dial up" – bigger bandwidth at an affordable price

VIENNA, VA., June 22, 1999 – Tired of telling the boss why she has to wait ten minutes to download that third-quarter sales forecast? Sick of making excuses for slow-as-molasses data rates? Ready to blast the hourglass icon into the company's permanent delete folder?

If the slow pace of your company's dial-up Internet connection is costing you time and money, it's time to step up from dial-up at a price that makes the transition easy for any small or mid-sized business. Beginning next month, Teligent is launching a new high-speed data service for cost-conscious customers – SmartWave™ DSL.

Using advanced "digital subscriber line" (DSL) electronics to enhance the copper circuits inside customer buildings, Teligent's new service will enable smaller businesses to take advantage of high-speed Internet access at prices starting at \$149 a month. Initially, the service will be available in selected buildings in approximately one-third of Teligent's 28 markets, with other markets following later this summer and fall.

SmartWave™ DSL service will combine the advantages of DSL copper-enhancing technology inside the customer building with the benefits of Teligent's digital SmartWave™ fixed wireless networks outside the building. The net result: Teligent will reduce costs for businesses that don't demand "dedicated" broadband access every minute of the day, but want and need a reliable, two-way, high-speed connection whenever they do get on the Net.

"With SmartWave™ DSL, even the smallest businesses will be able to afford the bandwidth they need to seize opportunities offered by the Internet and the fast developing world of e-commerce," said Kirby G. "Buddy" Pickle, Teligent's President and Chief Operating Officer. "With our new prices, businesses just can't afford to sit on the sidelines of the Internet revolution."

Teligent will offer SmartWave™ DSL service with four bandwidth options, ranging from 150 kilobits per second – about three times the speed of the fastest dial-up connection – up to 1.5 megabits per second – or nearly 30 times dial-up speed.

Unlike less robust DSL services engineered for consumers, Teligent's "industrial strength" SmartWave™ DSL is fully symmetrical – that means that a customer can transmit data just as quickly as he or she can receive it. That "always-on," two-way speed is critical for a business that needs to communicate quickly and effortlessly with its customers and suppliers.

Because Teligent uses DSL technology only on inside wiring, it avoids many of the issues associated with traditional DSL technology deployed

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Except for any historical information contained herein, the matters discussed in this press release contain forward-looking statements that involve risks and uncertainties, including but not limited to economic, key employee, competitive, governmental and technological factors. The company's growth, operations, products, services, licenses and other matters discussed in the company's filings with the Securities and Exchange Commission may vary materially due to these and other risks and uncertainties.

Communications

Robert W. Stewart

throughout local telephone networks spanning large metropolitan areas.

Unlike traditional DSL, Teligent SmartWave™ DSL will not be constrained by the local telephone company's antiquated copper networks. Because Teligent's service is independent of the local phone company, Teligent customers have no issues with phone company line quality, loop lengths, cross-talk, central office co-location or provisioning delays.

"Our customers will get 'DSL plus' at DSL prices," said Pickle. "And when they decide they want to move up to dedicated broadband access at speeds of up to 45 megabits per second, they can make that move seamlessly through Teligent – without going back to the incumbent local telephone company."

Teligent offers small and mid-sized businesses an integrated package of local, long distance, high-speed data and Internet access services in 28 markets nationwide. Those markets are: New York, Los Angeles, Chicago, Houston, Philadelphia, Dallas-Fort Worth, San Diego, San Antonio, San Jose, San Francisco-Oakland, Baltimore, Jacksonville, Milwaukee, Washington DC, Boston, Austin, Denver, Atlanta, Miami-Fort Lauderdale, Orlando, Seattle, Cleveland, Sacramento, New Orleans, Tampa, Richmond, West Palm Beach, and Wilmington, Del.

Together, those 28 markets comprise more than 464 cities and towns with a combined population of more than 83 million. By year-end, Teligent expects to offer service in 40 markets across the country.

Teligent offers small and medium-sized companies a flat monthly bill for local and Internet services, with savings of up to 30 percent off the rates they pay their local phone or Internet service providers. To qualify for the maximum discount, customers switch their existing service - local or Internet - and sign up with Teligent for a minimum of one year. Teligent averages several representative bills from the customer's current carriers and deducts up to 30 percent. That figure becomes the customer's new flat monthly rate. In most cases, it's that simple to qualify for unlimited local and Internet service.

Teligent offers long distance service at a single, "per minute" price. When customers install local, Teligent deducts up to an additional 30 percent off the already low per-minute long distance price. Prices for long distance calls within a state, so called intrastate calls, may vary in some states.

Teligent also gives customers e•magineSM, an interactive, Web-based business management tool that transforms a customer's communications bill into a simple, predictable package. Using their Internet browser, customers can access their billing and account information anytime they choose. e•magineSM allows them to sort and analyze calls by account code, originating number or other criteria – virtually any way they like. And they can download data for their own use – every day. That means they won't have to wait for a paper bill to arrive in the mail every month to keep abreast of their communications activity.

Integrating advanced point-to-multipoint and point-to-point microwave radio equipment with traditional broadband wireline technology, Teligent's SmartWave™ networks offer customers the advantages of lower costs and greater flexibility. SmartWave™ technology is configured to manage both voice and data traffic with equal ease, ensuring that Teligent can handle today's huge volume of voice traffic and at the same time is prepared for the coming data traffic explosion.

Teligent delivers its fixed wireless service by installing small antennas

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on the roofs of customer buildings. When a customer picks up a telephone, accesses the Internet or activates a videoconference, the signal travels over inside wiring to the rooftop antenna. The customer building antenna then relays the voice, data or video signals to a Teligent base station antenna.

The base station antenna gathers signals from a cluster of surrounding customer buildings, aggregates the signals and then routes them to a Teligent broadband switching center. At the switching center, Teligent uses ATM (asynchronous transfer mode) switches and data routers along with Nortel DMS switches to hand off the traffic to other networks – the public circuit-switched voice network, the packet-switched Internet, and private data networks.

Based in Vienna, Va., Teligent, Inc. (NASDAQ: TGNT) is a full-service, integrated communications company that is offering small and medium-sized business customers local, long distance, high-speed data and dedicated Internet services over its digital SmartWave™ local networks in 28 major markets. Eventually, Teligent will expand service to 74 major metropolitan areas throughout the United States. Teligent's offerings of regulated services are subject to tariff approval.

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The Smart Way To Communicate™

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High-speed. Low-cost.

Always-on. Internet access your business can rely on.

With Teligent's Internet services, you can access the Web fast—and we mean FAST! Our SmartWave DSL™ is up to 50 times speedier than a 28.8Kbps dial-up connection. But we have more to offer than speed. Dedicated Internet Access provides maximum up-time. And our hosting services give you what you need to effectively take your business on the Web. With all of our services you enjoy significant savings and dependable round-the-clock customer service.

So the only question is, what are you waiting for?

SmartWave DSL™—always on, fully symmetrical transmission.
 Dedicated Internet Access—for maximum up-time with several bandwidth options.
 TeligentHost™—hosting solutions available in several packages.

SmartWave DSL™

Teligent's SmartWave DSL™ combines the advantages of Digital Subscriber Line (DSL) copper-enhancing technology and our SmartWave™ network. SmartWave DSL™ is fully symmetrical, so your business can transmit data just as quickly as you can receive it—two-way speed that is critical for communicating quickly with customers and suppliers.

We offer SmartWave DSL™ service with five bandwidth options, ranging from 150Kbps—about five times the speed of a 28.8Kbps dial-up connection—up to 1.5Mbps, or nearly 50 times faster than a 28.8Kbps modem.

[View our SmartWave DSL™ DEMO](#)

Dedicated Internet Access

When your business requires dedicated Internet access, Teligent's high-speed Dedicated Internet Access provides highly reliable bandwidth options ranging from 128Kbps to 45Mbps. Our proven and cost-effective technology provides clear, digital transmission with maximum up-time.

Plus, with Teligent's Dedicated Internet Access service, you can take advantage of our competitively priced connectivity options, all of which are easily upgraded. You can also get equipment (CPE) and maintenance services. And our 24x7x365 continuous network monitoring ensures your network connection is always up and running.

TeligentHost™

Are you looking to move your business onto the Web? Our TeligentHost™ service provides you with all the server infrastructure you need to establish your web location. Our solutions take advantage

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of the economies of scale offered in a shared server environment.

With several packages available, TeligentHost™ offers:

- high-speed redundant connectivity into and out of our server farm
- a UNIX hosting platform
- online administration of your hosting, email domain accounts
- abundant data storage capacity
- traffic and usage reporting
- full domain service
- CGI scripts
- FTP or Telnet accounts
- secure socket layer (SSL) as well as password protection and access control.

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We're making news.

Teligent brings big bandwidth communications to businesses in Dayton

VIENNA, VA., July 12, 2000 – Teligent, a global leader in broadband communications, today launched lower cost, high bandwidth communications services in Dayton.

With its advanced, digital SmartWave™ technology, Teligent offers customers significant savings on local, long distance, high-speed data and Internet access services. Teligent gives businesses of any size the higher network speed and capacity – up to 45 megabits per second – that they need to compete in today's fast-paced marketplace.

With the addition of the Dayton market, Teligent now serves business customers in 42 of the nation's top metropolitan areas.

"Today's service launch will expand the communications reach and power of Dayton's business community," said Teligent Chairman and Chief Executive Officer Alex J. Mandl. "Teligent offers companies the communications advantage they need to maintain a competitive edge – and that is especially important in a city with a thirst for innovation as big as Dayton's."

Unlike many other new communications companies that have emerged in recent years, Teligent is building its own local networks – not reselling services over the old local phone networks.

"Large companies, like Dayton's own NCR Corp., for years have had access to the latest communications services and savings," said Teligent President and Chief Operating Officer Kirby G. Pickle, Jr. "Teligent offers businesses of any size the same access and the same opportunity."

Teligent service is now available in: New York, Los Angeles, Chicago, Houston, Philadelphia, Dallas-Fort Worth, San Diego, San Antonio, San Jose, San Francisco-Oakland, Baltimore, Jacksonville, Milwaukee, Washington DC, Boston, Austin, Denver, Atlanta, Miami-Fort Lauderdale, Orlando, Tampa, Richmond, West Palm Beach, Wilmington, DE, New Orleans, Sacramento, Cleveland, Seattle, Phoenix, Detroit, Indianapolis, Nashville, Portland, OR, Charlotte, Kansas City, Minneapolis-St. Paul, St. Louis, Cincinnati, Raleigh, Hartford, Columbus and Dayton.

Together, those 42 markets comprise more than 591 cities and towns with a combined population of more than 102 million.

Eric Makos, Founder and CEO of TownCompass.com of Seattle, Washington, which provides information products covering a variety of topics for handheld information devices, noticed a difference with Teligent immediately. His company has Teligent local, long distance and SmartWave DSL™ service.

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Communications

Robert W. Stewart

"We are very happy with Teligent," Makos said. "Teligent has been very responsive, providing a high degree of customer service and savings." For TownCompass.com, "Teligent's local, long distance and DSL service offers more than just savings, we see our relationship with Teligent as a partnership," added Makos.

Teligent offers small and medium-sized companies a flat monthly bill for local services with savings of up to 30 percent off the rates they pay their local phone providers. To qualify for the maximum discount, customers switch their existing local service – and sign up with Teligent for a minimum of one year. Teligent averages representative bills from the customer's current carrier and deducts up to 30 percent. That figure becomes the customer's new flat monthly rate. In most cases, it's that simple to qualify for unlimited local service.

Teligent offers long distance service at a single, per minute price. When customers use Teligent for their local service, Teligent deducts up to 30 percent off Teligent's already low per-minute long distance price. Prices for long distance calls within a state may vary in some states.

Teligent also offers a high-speed data service for cost-conscious customers called SmartWave DSL™. Using advanced digital subscriber line (DSL) electronics to enhance the copper circuits inside customer buildings, Teligent's new service enables businesses to take advantage of high-speed Internet access at prices starting at \$149 a month.

Teligent also gives customers e-magineSM, an interactive, Web-based business management tool that transforms a customer's communications bill into a simple, predictable package. Using their Internet browser, customers can access their billing and account information anytime they choose. e-magine allows them to sort and analyze calls by account code, originating number or other criteria virtually any way they like. Customers can download data for their own use every day. Customers no longer wait for a paper bill to arrive in the mail every month to keep abreast of their communications activity.

About Teligent's broadband networks

Teligent's local communications networks represent the integration of the latest advances in high-frequency microwave technology with traditional broadband wireline equipment. Together these technologies enable Teligent to increase its local network efficiency and significantly lower network costs.

Teligent delivers fixed wireless services by installing small antennas on the roofs of customer buildings. When a customer makes a telephone call or accesses the Internet, the voice, data or video signals travel over the building's internal wiring to the rooftop antenna. These signals are then digitized and transmitted to a "base station" antenna on another building, usually less than three miles away.

Each base station antenna gathers signals from a cluster of surrounding customer buildings, aggregates the signals and then routes them to a broadband switching center. At the switching center, ATM (Asynchronous Transfer Mode) switches and data routers distribute the traffic to other networks, such as public circuit-switched voice networks, packet-switched Internet and private data networks.

Teligent's service offering is supported by a skilled communications workforce that has grown to more than 3,000 employees. Teligent teams now are deployed in more than 42 markets across the country building Teligent's local SmartWave networks.

Teligent is serving Dayton from the following location:

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About Teligent

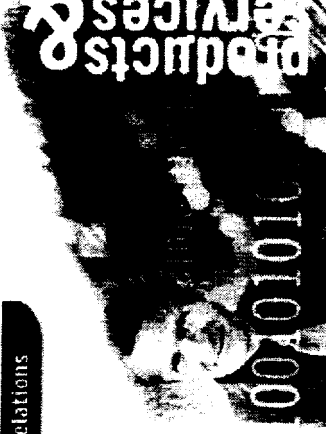
Based in Vienna, Virginia, Teligent, Inc. (NASDAQ: TGNT) is a global leader in broadband communications offering business customers local, long distance, high-speed data and dedicated Internet services over its digital SmartWave™ local networks in 42 major markets throughout the United States. The company is working with international partners to extend its reach into Europe, Asia and Latin America. Teligent's offerings of regulated services are subject to all applicable regulatory and tariff approvals.

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High Speed Internet

Step up from dial-up and join the new e.economy.

Finally blazing fast Internet connections at affordable prices for small and mid-sized businesses. Say goodbye to busy signals, long wait times and dropped connections. Take advantage of the full power of the new e.economy with High Speed Internet from Winstar.

Standard Features:

- Unlimited Usage
- Supports static and dynamic IP addressing
- Internet router
- Allows up to 7 PCs to share a single Internet connection without requiring a LAN (optional features allow sharing for additional PCs or to connect an entire LAN with an unlimited number of users)
- Up to 7 individual e-mail accounts with 10Mb server storage per mailbox and 8Mb attachment limitation (optional features allow additional POP e-mail accounts)
- Winstar provides primary and secondary Domain Name Service
- 24 X 7 support

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Service Options:

Speed	For Businesses With...
128Kbps	Single or multiple users who send e-mails with file attachments and use the Internet for research.
384Kbps	Single or multiple users who send and receive

large files, including graphics.

768Kbps

Users who send a lot of large files, including multimedia. Also recommended for LAN connections.

T1 (1.54Mbps)

Multiple users who are connected to a LAN, utilize the Internet extensively, and send multiple large files, including multimedia.

Benefits:

- No phone lines required
- "Always On" Internet access
- Range of high speed service options available
- No busy signals, re-dialing, or dropped connections

For more information about Winstar High Speed Internet, please contact us at 1-888-winstar (946-7827).

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Winstar Granted Additional Spectrum by FCC in Major Markets

Licenses Granted for Boston, Chicago, Cleveland, Denver, Detroit, Kansas City, Milwaukee, Minneapolis, Phoenix, Pittsburgh and San Diego

NEW YORK, MARCH 22, 2000 – WINSTAR COMMUNICATIONS, INC. (NASDAQ: WCII) today announced that it has been granted additional licenses in the 38 GHz spectrum by the Federal Communications Commission. Two new channels were granted to Winstar on the basis of previously filed applications in each of the following major markets: Boston, MA; Chicago, IL; Cleveland, OH; Denver, CO; Detroit, MI; Kansas City, MO; Milwaukee, WI; Minneapolis, MN; and Phoenix, AZ. One new channel was granted in Pittsburgh, PA and San Diego, CA. Winstar is the largest holder of 38 GHz spectrum in the United States, with extensive bandwidth coverage in all of the top 60 U.S. markets.

As a result of the new grants, Winstar has now increased the amount of its spectrum in these markets to the following: Boston—800 MHz; Chicago—900 MHz; Cleveland—700 MHz; Denver—900 MHz; Detroit—800 MHz; Kansas City—800 MHz; Milwaukee—800 MHz; Minneapolis—900 MHz; Phoenix—900 MHz; Pittsburgh—700 MHz; and San Diego—500 MHz.

The new licenses cover more than 54 million channel pops, increasing Winstar's total license coverage to approximately 1.3 billion channel pops. In total, Winstar's licenses cover approximately 292 million people, and approximately 80% of the business market.

About Winstar

Winstar Communications, Inc. (www.winstar.com) helps companies around the globe engage in Frictionless Businesssm through the use of seamless communications and technology. Winstar provides its customers with a comprehensive set of high-quality, digital-age broadband communications services, including high-speed Internet access and data transport, Web-based information, Web hosting and local and long distance services.

Winstar offers its services in more than 70 markets throughout the U.S. and in Europe, Asia and South America. It is the largest holder of broadband fixed wireless spectrum, with licenses in the top 60 U.S. markets and in 10 international markets. Winstar's broadband fixed wireless capabilities complement and extend the reach of its extensive fiber network. The company's long-haul fiber network, which supports IP (Internet Protocol), ATM (Asynchronous Transfer Mode) and frame relay, will extend more than 16,000 route miles and connect the top 60 U.S. markets. Winstar's intracity fiber network will consist of nearly 6,000 route miles in over 60 major domestic and international markets.

Winstar's Tier 1 Internet backbone and enhanced Web service offerings, including Web hosting and design, make Winstar one of the largest Internet companies in the U.S. The company's innovative applications enable businesses to take advantage of the new Internet economy. In 1999, the company launched Office.com®, A Service From Winstar, (www.office.com) the new online business service for small and medium-sized businesses. Office.com was ranked first overall among Online Business Centers by Cahners In-Stat Group.

Winstar is based in New York City. The company has strategic relationships with several leading corporations, including Lucent Technologies; Williams Communications, Inc.; CBS

Corporation; and Microsoft Corporation.

Except for any historical information contained herein, the matters discussed in this press release contain forward-looking statements that involve risks and uncertainties, which are described in Winstar's SEC reports and other filings.

Winstar and Office.com are registered trademarks, and Wireless Fiber and Frictionless Business are service marks, of Winstar Communications, Inc.

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Winstar Completes Point-To-Multipoint Commercial Deployment In Six U.S. Markets

Winstar on Track for Worldwide Rollout; Technology Reduces Network Deployment Costs, Reaches More Buildings and Customers

NEW YORK, DECEMBER 22, 1999 - WINSTAR COMMUNICATIONS, INC. (NASDAQ: WCII) today announced that it has completed the commercial rollout of point-to-multipoint (PMP) technology in six major U.S. markets: Washington, DC; Phoenix; Oakland; San Jose; Seattle and Salt Lake City. Winstar will continue the integration of PMP technology into its nationwide, 60-market network throughout 2000.

Winstar expects to reap significant benefits from the combination of PMP technology and point-to-point technology in its network, including reduced network deployment costs, more efficient use of spectrum and the ability to serve more buildings from each local hub site. Customers will realize significant benefits from PMP technology, including the option of bandwidth on-demand, which allows users to receive a wide range of services - from voice and videoconferencing to high-speed data and Internet - on a "pay-per-use" basis.

"We're right on track with our point-to-multipoint deployment," said David Ackerman, group executive, Winstar Network and Systems Services. "Coupled with our current deployment of ATM-based local network infrastructure, PMP technology enables unparalleled network provisioning, configuration management and control capabilities, resulting in the highest possible network quality of service."

Winstar's commercial deployment of PMP is the culmination of a four-year research and development collaboration with leading telecom equipment providers to design, develop and manufacture the technology.

Winstar also deployed PMP technology in Amsterdam during the third quarter of 1999, and will integrate the technology into its network in other international markets during 2000.

About Winstar

Winstar Communications, Inc. (www.winstar.com) helps companies around the globe engage in Frictionless Business through the use of seamless communications and technology. Winstar provides its customers with a comprehensive set of high-quality, digital-age broadband communications services including high-speed Internet access and data transport, Web hosting, Web-based information and local and long distance services.

Winstar offers its services in more than 70 markets throughout the U.S. and in Europe, Asia and South America. It is the largest holder of broadband fixed wireless spectrum, with licenses in the top 60 U.S. markets and in 10 international markets. Winstar's broadband fixed wireless capabilities complement and extend the reach of its extensive fiber network. The company's long-haul fiber network, which supports IP (Internet Protocol), ATM (Asynchronous Transfer Mode) and frame relay, will extend more than 16,000 route miles and connect the top 60 U.S. markets. Winstar's intracity fiber

network will consist of nearly 6,000 route miles in over 60 major domestic and international markets.

Winstar's Tier 1 Internet backbone and enhanced Web service offerings, including Web hosting and design, make Winstar one of the largest Internet companies in the U.S. The company's innovative applications enable businesses to take advantage of the new Internet economy. Recently, the company launched Office.com, A Service From Winstar, (www.office.com) a premier Internet destination site designed to bring the best of the business Web to the desktop.

Except for any historical information contained herein, the matters discussed in this press release contain forward-looking statements that involve risks and uncertainties, which are described in the company's SEC reports, including the 10-K for the period ended December 31, 1998, and the 10-Q for the period ended June 30, 1999.

Winstar is a registered trademark, and Wireless FiberSM and Office.comSM are service marks of Winstar Communications, Inc.

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Dedicated point-to-point access provides your business with fast, reliable and secure Internet access. Winstar's Tier-1 National Backbone Network means direct access to the Internet, which minimizes network delays due to extensive routing. It also means guaranteed bandwidth from 56Kbps to DS3 (45Mbps) in all Winstar cities, with expansion to OC3 or higher in many major areas.

Features

- State-of-the-art, fully redundant switching infrastructure
- Physically diverse backbone
- Excellent switch-to-switch interconnectivity
- Efficient network performance and congestion management
- 7 x 24 Network Operations Center
- Proactive network monitoring and support

Benefits

- Exceptional reliability
- Fault-tolerant performance
- Superior service quality
- Excellent Value
- Two-layer network redundancy
- High-speed automatic rerouting
- Proactive capacity management

If your business requires high-speed dedicated Internet access to support "bursty" information exchange -- and is located at least 10 miles from a Winstar Point of Presence (POP) -- our Shared Access Service may provide you with a cost-effective alternative to private line access.

With Shared Access, you won't incur the costly mileage-based charges associated with private lines, yet you'll still be able to send and receive bursts of data to and from the Internet at a PVC/CIR rate you select. Winstar offers network speeds from 56Kbps up to DS-3 with a wide selection of PVC/CIR rates.

Features

- State-of-the-art switching infrastructure
- Scalable architecture
- Bandwidth on demand
- Efficient network performance
- 7 x 24 Network Operations Center
- Flat-rate pricing

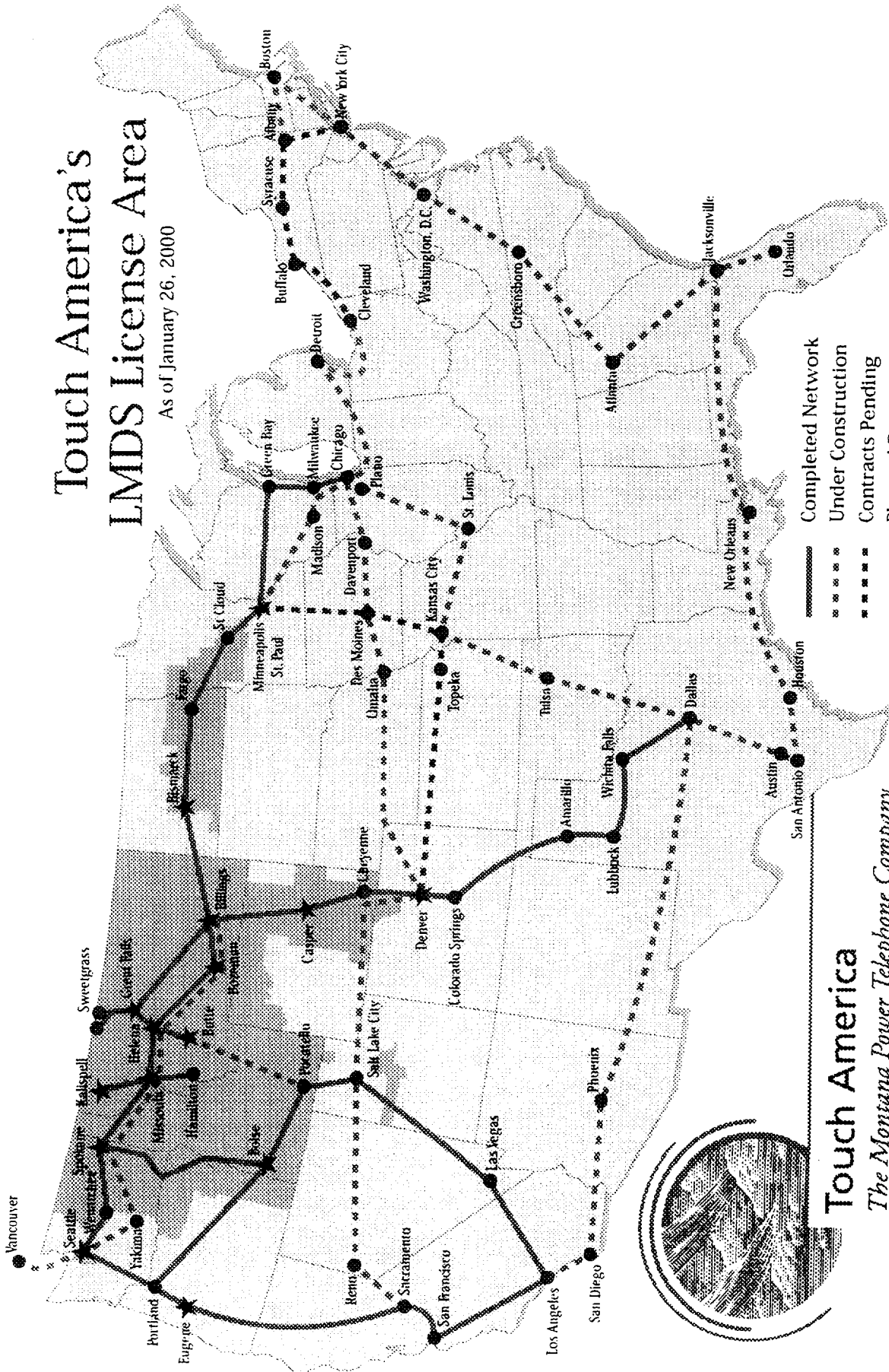
Benefits

- Reliable network connectivity
- Flexible access speeds
- Support for "bursty" applications
- Proactive capacity management
- Excellent operational support
- Value for money

Winstar Integrated T-1 Service bundles local, long distance and high-speed Internet access on a single, multi-purpose T-1 connection. You choose the right mix of communication services for your business. Eliminate paying for multiple access lines and receive one, easy-to-read monthly invoice for all of your local, long distance and Internet services.

Touch America's LMDS License Area


As of January 26, 2000



- Completed Network
- Under Construction
- Contracts Pending
- Planned Expansion
- Touch America Offices
- LMDS License Area



Touch America
The Montana Power Telephone Company



The Whispering S

Internet Access

Benefits

- Low price and excellent service, an unbeatable combination
- Our reliable dedicated and dial-up services mean you don't have to worry about interruptions or outages.
- We have fast access speeds through our state-of-the-art network and equipment.
- Our helpful and enthusiastic employee team is always ready to answer your questions and provide you with quality service

Features

- Multi-homed broadband backbone for 90 megabit access
- All modems are V.90 for reliable high speed connections
- Full e-mail hosting and delivery
- Interactive web-site management and storage
- Domain name services Netscape (TM) Distributor

- Internet Dial-up Access Numbers
- Internet Support Menu

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Hughes Network Systems Announces Upcoming Two-Way DirecPC Satellite Internet Access

DirecPC Two-Way Service Also to be Offered as DIRECTV Broadband Satellite Service

GERMANTOWN, MD, USA, APRIL 27, 2000...Continuing its theme of Broadband Everywhere® the company that pioneered broadband Internet service via satellite today announced plans to market a two-way broadband satellite service to consumers. Hughes Network Systems (HNS), a unit of Hughes Electronics Corporation, will add two-way capabilities to its nationwide high-speed satellite Internet service, DirecPC®, early in the fourth quarter of this year. The new service will be marketed through the more than 26,000 retail and distribution outlets currently carrying Hughes products and services such as DIRECTV services and HNS receivers. Offering always-on capability, the new two-way high-speed satellite service allows consumers to completely bypass the dial-up telephone network and land-based choke points on the Internet.

"DirecPC makes truly universal broadband access a reality for consumers and enterprises alike," said Pradman Kaul, chairman and CEO, HNS. "With the launch of the new two way DirecPC Service consumers throughout the United States will now have access to broadband internet services. We are also deploying this technology to customers throughout the world. A recent example is S Kumars.com, an Internet kiosk operator that has purchased 50,000 DirecPC terminals for use throughout India, making this the largest single purchase of two-way satellite terminals ever. With broadband satellite services we can deliver applications to suit the needs of the Web-centric user everywhere."

"While other companies may have announced plans to launch two-way satellite services for the consumer, only HNS has the track record. Through DirecPC services, HNS has years of experience meeting the needs of consumers,

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SOHOs, and enterprises," said Paul Gaske, executive vice president of the Consumer Division at HNS. "In addition, HNS has unrivalled experience in the mass manufacture of consumer products having built four million DIRECTV System receivers and DirecPC terminals. With established distribution channels, and customer support services; as well as Internet partners such as America Online we will continue to lead the broadband satellite Internet services market by providing consumers with innovative new products and services."

Consumer and Enterprise Offerings

For consumers the upstream speed for the new service is anticipated to be between 128Kbps and 256kbps and the downstream will be at speeds over 40Mbps, supporting bursts up to 400 Kbps for each user. The new two way terminal will support small office/home office (SOHO) and enterprise applications such as IP multicasting and content delivery. Two-way DirecPC will also be offered with a DirecDuo antenna system, allowing consumers to receive both DirecPC and DIRECTV on the same antenna.

The company expects that the new two-way services will be competitive with cable and DSL broadband services, and will announce pricing, availability and service plans later this year.

The two-way DirecPC product will require an antenna to enable transmission to the DirecPC satellites and will use an external device connected via a USB port to the PC. The two-way version of DirecPC will operate on the current medium-power Ku-band satellites operated by PanAmSat, which is 81% owned by Hughes Electronics. A program enabling existing DirecPC subscribers to upgrade to two-way by adding the additional equipment will be announced later this year.

DIRECTV to Sell Broadband

The new two-way DirecPC will also be offered by DIRECTV as an integrated broadband service in conjunction with its industry-leading entertainment services. DIRECTV will now be able to enhance its popular entertainment programming packages with the addition of broadband services through DirecPC. Using the DirecDuo antenna, consumers will receive the new DirecPC service delivered to their desktop computers while simultaneously receiving DIRECTV service through a set-top box to their televisions.

"Adding the two-way DirecPC capability to the DIRECTV® service is a direct response to consumer demand for integrated entertainment and information products and services," said Eddy W. Hartenstein, corporate senior executive vice president, Hughes Consumer Sector. "Our goal is to provide the consumer with the most convenient and best in-home entertainment and information services available. Initially, we will do this by offering two-way broadband Internet services delivered via satellite modem in combination with DIRECTV services delivered via set-

top box — both using the DirecDuo single antenna. This will enable our customers to add broadband services while continuing to use their existing set-top boxes to receive their DIRECTV service. We believe this will appeal to many of our 8.3 million existing customers, and will be an incentive for new customers."

Spaceway Plans

"Our new two-way service will be the next step toward DirecPC products and services that will operate on the Spaceway satellite platform; an advanced generation of ultrahigh-speed satellites in the Ka band to be deployed in 2003," noted Gaske.

AOL Plans

The two-way product and service will also offer new capabilities to support the announced AOL Plus Powered by DirecPC service. "We're very pleased to work with Hughes to bring this enhanced platform to AOL members using satellite technology, enabling them to enjoy the benefits of AOL Plus enhanced multimedia content and features via DirecPC," said Barry Schuler, President, AOL Interactive Services Group. "This will be another extension of our AOL Anywhere strategy, making our features and services available across a wide range of devices and platforms."

About DIRECTV

DIRECTV is the world's largest direct-to-home provider of digital entertainment programming. DIRECTV has more than 8.3 million customers worldwide, including customers of *PRIMESTAR By DIRECTV*, and in 1999 acquired a record 1.6 million net new customers in the United States, a 39-percent increase over the previous record year of 1998. In the first quarter of 2000, DIRECTV acquired 405,000 net new customers — a new record that represents a 33-percent increase in customer acquisition over the previous record first quarter in 1999.

About Hughes Network Systems

A world leader in providing wireless broadband solutions for businesses and consumers, Hughes Network Systems (HNS) is a unit of Hughes Electronics. With its award-winning DirecPC suite of products and services, its new DirecWay™ service for enterprises, and its AIReach™ Broadband products, HNS enables high-speed digital services and convergence products based on satellite and wireless technologies. Through its alliance with America Online, Inc. and DIRECTV, HNS has established a leadership position in providing enhanced TV and interactive services in addition to its role as a leading manufacturer of set-top receivers. Headquartered in Germantown, MD, HNS is the global VSAT market leader with sales of over 300,000 VSAT terminals and has sales and support offices worldwide. For more information, please visit the Web site at www.hns.com.

The earnings of Hughes Electronics, a unit of General Motors Corporation, are used to calculate the earnings per share attributable to the General Motors Class H common stock (NYSE:GMH).

Hughes Network Systems: The Broadband Company Bringing You Broadband Everywhere™

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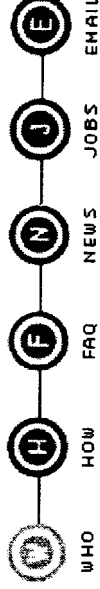
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Gilat



Gilat To-Home



Frequently Asked Questions

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What is Gilat-To-Home (GTH)?

GTH is the first two-way, always-on satellite-delivered Internet service for the consumer market. GTH uses a specially designed 24x36-inch satellite dish equipped with both a satellite transmitter and receiver for two-way satellite connectivity. The GTH system can also be configured to receive satellite television service from **DISH Network** – as well as two-way satellite Internet service from GTH – using a single dish. Inside the home, the GTH system currently consists of a pre-configured desktop PC that includes a satellite receiver card and a satellite transmitter card plugged into two PCI slots. In the near future, GTH will also offer an external "satellite modem" option that packages the PCI cards in a stand-alone box and connects to a PC through the USB port. In both cases, no telephone connection, no dial-up account and no terrestrial Internet service provider are needed.

How fast is the GTH Internet connection?

GTH provides an always-on broadband Internet service on par with other broadband offerings such as ADSL and cable delivered service. With GTH, the typical Web surfing experience will be about 10 times faster than standard dial-up modems when receiving content, and about twice as fast as standard dial-up service when sending information.

How much will the GTH system and service cost?

Exact pricing is still to be determined, but the GTH system will be priced to compete aggressively in the consumer broadband marketplace.

When and where will GTH service be available?

GTH expects to begin marketing its service in the fourth quarter of 2000 through a number of channels. The GTH Internet offering will be available directly from **Microsoft** and through **MSN** retailers, including more than 7,000 **RadioShack** locations throughout the United States. It will also be available through **EchoStar** DISH Network's **nationwide dealer network** under a bundled GTH Internet and DISH Network 500-channel digital television offering.

How can I learn more about GTH product availability and opportunities to participate in GTH pilot testing?

Check this site for regular service offering updates. [Click here](#) to put your name on the list to receive more information about product availability.

If this is a new service, how can you say that GTH uses "field-proven" technology?

While new to the consumer market, Gilat's industry-leading satellite technology has been the wide-area networking platform of choice for major businesses throughout the world for many years. The technology behind the GTH system is based on Gilat's corporate VSAT technology which is used in over 200,000 business locations to support a wide variety of mission-critical applications.

How does GTH compare with other satellite-delivered Internet systems?

GTH is a true always-on Internet service that both receives and transmits Internet content over satellite at broadband speeds. Unlike its satellite Internet competitors, GTH does not require consumers to tie up their phone line or retain a separate terrestrial Internet service provider. The GTH product responds to what today's Internet enthusiasts say they want – high-speed, always-on connection to the Internet that doesn't require a telephone connection. Instead of having to deal with multiple service providers, multiple bills, busy telephone lines and slow transmission speeds, GTH offers a one-stop complete Internet service package.

How does GTH service compare to Digital Subscriber Line (DSL) and cable modems?

GTH, like DSL and cable modems, provides an always-on, broadband connection to the Internet. However, unlike DSL and cable modem service, which are extremely limited in availability, GTH is available throughout the country – even in remote areas – over satellite. As long as you have line-of-sight to the satellite, the service is available to you.

How does GTH compare with standard dial-up Internet access?

GTH provides always-on Internet service that is many times faster than standard 56 kbps service. GTH does not require users to dial-in for access and it does not tie up telephone lines like dial-up connections do.

What is required in a GTH installation?

The GTH installation process is nearly identical to the standard small-dish satellite television installation process, except that it involves a slightly larger antenna and two additional coaxial cables running from the dish to the pre-configured consumer PC or stand-alone "satellite modem." In addition, because the GTH service both sends and receives content via satellite, the dish pointing process may require slightly greater precision, as compared to receive-only satellite television offerings.

Does GTH require a telephone connection?

No. Because it uses Gilat's industry-leading satellite return-path technology, the GTH system is completely independent of terrestrial wires and does not require a telephone connection. All Internet content is received and transmitted over satellite.

Does GTH require an account with a terrestrial Internet Service Provider (ISP)?

No. Because it doesn't use a dial-up telephone connection, the GTH service does not require an account with a terrestrial ISP.

What satellite does the GTH service use?

Through its relationships with GE Americom and other leading owners and operator of communications satellites, Gilat purchases capacity on a number of different satellites for both its business and consumer satellite products and services.

From whom will GTH users receive service?

GTH and MSN will be the primary ISPs for GTH subscribers, providing all Web access and e-mail services.

How will GTH users surf the Internet and receive e-mail?

GTH users will access Internet and e-mail content using standard PC-based browser and e-mail applications.

Is GTH available outside of the continental U.S.?

GTH service will launch in the continental U.S. in the fourth quarter of 2000.

Gilat Satellite Networks recently announced the creation of Gilat-To-Home Latin America, which will enter that market in early 2001. Gilat Satellite Networks will issue press releases regarding the Latin venture partners and company plans for other international market plans as appropriate.

Does GTH work with small-dish satellite television services?

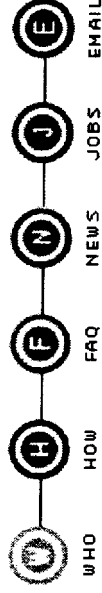
Yes. With a DISH upgrade, GTH's 24x36-inch satellite antenna is capable of simultaneously receiving DISH Network's 500-channel digital television programming for reception on your TV, as well as always-on Internet service on your PC from the GTH satellite. The GTH satellite antenna will be available in a configuration that has two DISH Network satellite receivers on the antenna for satellite television reception – this in addition to a third satellite receiver for receiving Internet content and a GTH satellite transmitter for transmitting to the Internet. The GTH system is not compatible with satellite television systems other than EchoStar's DISH Network.

If a consumer already has a DISH Network system installed, how do they upgrade to GTH?

If an existing DISH service subscriber receives programming from EchoStar satellites at 110° and 119°, upgrading to the GTH service is as simple as swapping out the standard DISH Network satellite antenna for a GTH satellite antenna and mount and running two additional coaxial cables from the antenna to the consumer's PC. No modifications are required to the existing DISH Network receivers or wiring.



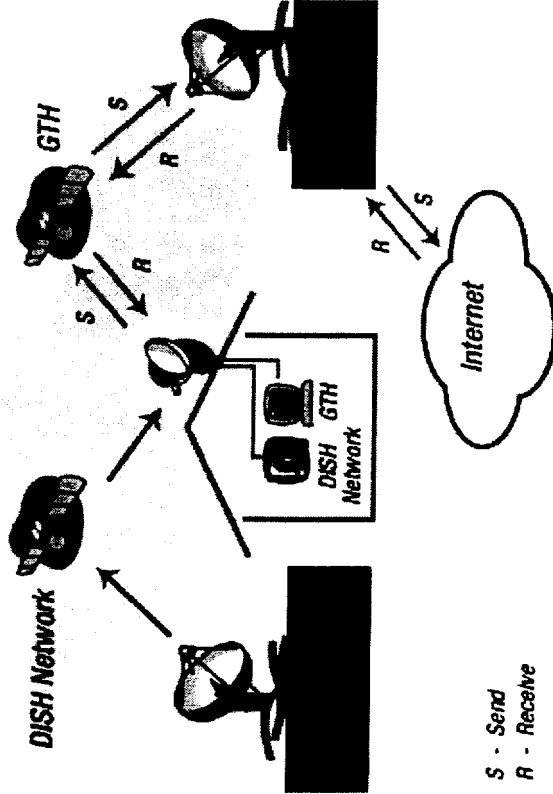
Gilat-To-Home



How Does Gilat-To-Home Work?

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The Gilat-To-Home (GTH) system consists of a 24x36-inch satellite dish mounted on your roof, chimney or on a pole in the yard. The dish must have a clear unobstructed view of the southern sky. Two standard coaxial cables connect the dish to a PC in your home, which is either pre-equipped with Gilat-To-Home transmit/receive cards or connected to an external Gilat-To-Home satellite modem.



S - Send
R - Receive

The GTH system both sends requests to the Internet and receives the

requested Internet content via a Ku-band satellite in geostationary orbit approximately 22,300 miles above the equator. The satellite, in turn, communicates with GTH's hub facility, which has a direct connection to the Internet.

The result is two-way satellite Internet service that provides high-speed, always-on access on par with other broadband technologies, such as cable modems and DSL. Best of all, no telephone connection is needed, no terrestrial Internet account is required, and the service is available in any location that enjoys a clear view of the satellite.

The GTH satellite dish is also capable of receiving EchoStar's DISH Network™ 500-channel satellite television programming. By taking advantage of this capability, a single antenna can provide two-way satellite Internet service, as well as receive DISH Network satellite television programming from two EchoStar satellites. Additional information about this combined offering will be provided in the near future on this Web page.

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Kentucky
Louisiana
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Missouri
Nebraska
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Texas
Utah
Virginia
Washington
Wisconsin

¹ Defined as states in which NorthPoint will have one or more collocation arrangement by the end of 2000.