PACIFIC BELL
NETWORK

Glossary of Terms

ADSL
Asymmetric Digital Subscriber Line: Modems attached to twisted pair copper wiring that transmit from 1.5 Mbps to 9 Mbps downstream (to the subscriber) and from 16 kbps to 800 kbps upstream, depending on line distance.

ATM Asynchronous Transfer Mode
A connection-oriented, packet-like switching technology that utilizes virtual channels instead of dedicated circuits to carry data in fixed-length (1 cell = 53 bytes) over a broadband network.

ATM25
A high speed, cell based, direct connection to a network where an ATM25 network interface card (NIC) is installed so that the user can access any host connected to the network.

DMT
Discrete multitone transmission which is used for DSL service from Pacific Bell.

Downstream/Upstream
Downstream refers to data flowing from the source such as a corporate host or Internet service provider (ISP) to the end user. Upstream refers to data flowing from the end user back to the corporate host or ISP.

DSLAM
Digital Subscriber Line Access Multiplexer specifically, a device which takes a number of ADSL subscriber lines and concentrates these to a single ATM line.

DSL Modem
Short for MOdulator-DEModular, this hardware device converts ATM cells to Ethernet packets and vis versa in the use of *FasTrak* DSL.

Ethernet Connection
A high speed direct connection to a network where an Ethernet network interface card (NIC) is installed so that the user can access any host connected to the network.

Network Interface Card
A expansion board you insert into a computer so the computer can be connected to a network. Most NICs are designed for a particular type of network, protocol, and media, although some can serve multiple networks.

RADSL
Rate Adaptive ADSL: a version of ADSL where the modems test the line at start up and adapt their operating speed to the fastest the line can handle.

Splitter
Filters which separate high frequency (ADSL) and low frequency (POTS) signals at both the end user and central office end points.

Virtual Circuit (VC)
Interface between Access Node and network. May have multiple physical connections although may also carry all signals across a single physical connection.

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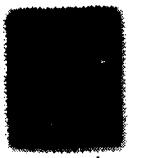

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PACIFIC BELL
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Benefits and Features

FasTrak DSL gives you high-speed access to your corporate LAN or Internet service provider. It provides you with bandwidth of up to 1.544 mbps downstream (toward your home or remote location) and up to 384 kbps upstream (towards your host Internet service provider or corporate LAN).

FasTrak DSL gives you a constant connection to your destination at the click of an icon--eliminating the time spent waiting for call set-up and busy signals.

FasTrak DSL offers data over voice capability--allowing you to talk on the phone and use your data connection at the same time.

FasTrak DSL offers the proven reliability and quality of Pacific Bell.

Applications

Initially, two *FasTrak* DSL speed packages are being made available, 1.544 mbps downstream with 384 kbps upstream OR 384 kbps in both directions.

Also during initial offerings, you will need to have your ADSL line associated with either a corporate LAN or a participating Internet service provider.

Remote LAN Access -- telecommuters have virtually the same LAN speed as on-site workers. *FasTrak* DSL downloads from your LAN at speeds up to 1.544 million bits per second and uploads data at 384 Kpbs.

With *FasTrak* DSL, you continue voice conversations and LAN access at the same time, on your existing line, so you can be talking about the data while it's coming in. No time wasted waiting for downloads.

Internet Access -- faster access means increased productivity. *FasTrak* DSL downloads at speeds up to 1.544 million bits per second--50 to 100 times faster than a standard modem--and uploads at up to 384 Kbps.

And, the advanced DSL modem requires only one phone line -- allowing Internet access and voice conversation at the same time, for added convenience and enhanced productivity.

More Information about ADSL

- TeleChoice
- ADSL Forum
- E-mail questions/comments to adsl-info@pacbell.com

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PACIFIC BELL
NETWORK

Pricing and Availability

FasTrak DSL Pricing

	Installation price	Monthly price
384/128 Kbps	$125	$59
384/384 Kbps	$125	$99
1.54Mbps/384Kbps	$125	$189

Notes: Price covers the circuit connection from the end user location to the Pacific Bell *FasTrak* DSL network and is in addition to charges for standard phone service. Prices coincident with FCC tariff approval.

Equipment and Equipment Installation Pricing

The required equipment for *FasTrak* DSL consists of an Ethernet Network Interface Card (NIC) and the following hardware: DSL modem, splitter, and inside wire. Prices include installation or phone support for one PC.

DSL hardware and Network Interface Card, with full installation	$660
DSL hardware, with full installation	$610

Notes:
Other Equipment Installation pricing options available upon request.

- Network Interface Card pricing for Macintosh computers available upon request.
- Customers may provide their own Ethernet Network Interface Card.
- Modem and splitter vendor: Alcatel.
- All rates, terms, and conditions are subject to change without notice.
- Prices coincident with FCC tariff approval.

Installation and Customer hardware support is provided by Prime Services Group, Inc. In addition to supporting the installation of the Alcatel 1000 ADSL modem, PSG also supports *FasTrak* DSL LAN solutions. With the Alcatel 1000 ADSL modem and a router, customers can establish a small LAN ideal for sharing the bandwidth of *FasTrak* DSL for high speed Internet access.

Internet Service Provider Pricing

You must have an Internet access account with an Internet Service Provider that supports *FasTrak* DSL. You may select the Internet Service Provider of your choice. Participating providers currently include:

- Concentric Network Corporation
- Direct Network Access, Inc.
- Orconet
- Pacific Bell Internet. For more information, call 1-888-884-2DSL.
- SlipNet

Corporate LAN Connection to The Pacific Bell *FasTrak* Network

Pacific Bell *FasTrak* ATM Cell Relay Service is required for corporate customers with the *FasTrak* DSL remote LAN access application. Please contact your Pacific Bell Account Representative for more information on ATM Cell Relay Service.

Availability

Click here to see if *FasTrak* DSL is available in your area. If you have questions, see the DSL FAQ or contact adsl-info@pacbell.com

benefits and features | pricing and availability

service and support | how to order

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PACIFIC BELL
NETWORK

Service and Support

All Pacific Bell data transport products and services are backed by our extensive network experience and our highly trained professional service technicians.

If you require assistance, call Pacific Bell 24 hours a day, any day of the year. You'll reach experts who can help identify the problem and get the right people on the job quickly.

FasTrak DSL is part of the expanding portfolio of Pacific Bell *FasTrak* Data and Video Services. *FasTrak* offers a complete range of data products and services including fast packet, dedicated private line, ISDN, packet switching, and enterprise network integration. *FasTrak* represents Pacific Bell's commitment to always deliver the right solution at the right price.

Information by Fax

Call 1-800-704-4636 to request fax information about Pacific Bell products and services. Most of the information available by fax is available on this site. Look in the Customer Guide in the front of your phone book to see what is available by fax.

1-800-528-0000

This is the number to call if you have any difficulty with a Pacific Bell product or service, or if you have any questions about your phone service. No matter what your question or concern, an operator will be able to assist you.

When you call in, you will first encounter a voice mail system which will ask you to key in your phone number and area code. You will also be asked to make several choices about the sort of information you are seeking. Answering these questions will expedite assistance when an operator comes on the line.

If you are using a rotary phone, stay on the line and an operator will assist you directly.

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US WEST

June 5, 1998

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(303) 896-5528

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U S WEST !NTERPRISE Networking
(303) 896-9402

U S WEST to Launch Second 20-City Wave of Lightning-Fast ADSL Internet Service; Will Complete Deployment of Always-on 'Web-tone' to Homes and Businesses in 40 Cities by July

- Affordable, Ultra-Fast Digital Service Lets Customers Use Single Phone Line to Simultaneously Surf the Internet While Making Voice or Fax Calls; Already Deployed in 20 Cities in U S WEST Region -

DENVER - In its first move as an independent telecommunications and data company, the new U S WEST today announced the second 20-city wave of its industry-leading, mass-market deployment of ultra-fast ADSL integrated Internet and voice service. The new service, which will reach more than 40 cities by the end of July, promises to revolutionize how people use the Internet by bringing always-on, no-wait 'web-tone' - the data equivalent of dial-tone - to millions of homes and offices across America.

U S WEST MegaBit Services' ADSL (Asymmetric Digital Subscriber Line) debuts next in Washington State in mid-June, and is already available in more than 20 cities in U S WEST's region. It lets customers transmit both data and voice calls over turbocharged existing phone lines, and eliminates the headaches of working on-line with its affordable high-speed bandwidth and "plug-and-play" ease of use.

Go to the MegaBit Services home page.

"This new service will revolutionize how Americans use the Internet. Ultra-fast 'web-tone' makes all the difference. Now, working on-line is as easy as picking up the phone or changing the channel on your TV," said Sol Trujillo, president and CEO of the new U S WEST. "Best of all, millions of customers can get it today. A lot of companies promise big changes with new technology some time in the distant future. We're offering this service right now - not just to a few high-end users, but to homes and offices across the region."

U S WEST MegaBit Services dramatically improves people's Internet and data network experience because:

- Customers can make or receive phone calls over the same line while simultaneously surfing the Internet;
- It offers speeds from 256 kbps to 7 Mbps - up to 250 times faster than traditional modems;
- The service offers a continuous 'always-on' digital connection, letting customers simply open their Internet browser software to get access. No dial-up is required, eliminating annoying busy signals;
- Customers get their own private link to the Internet - over their existing phone line - increasing security and reliability, and eliminating traffic jams from sharing copper or fiber-optic lines with other users.

"MegaBit Services turns existing phone lines into high-speed data pipelines," said Joe Zell, president, U S WEST !NTERPRISE Networking. "It lets our customers unleash the power and productivity of the Internet. It lets homes and offices across our region experience the benefits and bandwidth of high-speed data networking. And it finally makes telecommuting and telework viable business solutions."

This spring, U S WEST deployed ADSL in a first wave of 20 markets, including Boulder, Denver, Fort Collins and Greeley, Colorado; Boise, Nampa and Meridian, Idaho; Phoenix and Tucson, Arizona; Minneapolis, St. Paul and Rochester, Minnesota; Omaha, Nebraska; Fargo, North Dakota; and Salt Lake City, Provo, Orem, Kearns, Murray, Bountiful, Clearfield, Farmington, Kaysville, Holladay, Utah.

By the end of July, U S WEST plans to turn on MegaBit Services in more than 20 additional markets, for a total of 226 wire centers, serving 5.5 million customer lines in U S WEST's 14 states:

Colorado	Iowa	Minnesota	New Mexico	Oregon	Washington
Colorado Springs	Ames	St. Cloud	Albuquerque	Corvallis	Bellingham
	Cedar Rapids		Las Cruces	Eugene	Olympia, Seattle
	Council Bluffs	Montana	Los Alamos	Portland,Salem	Spokane, Tacoma
	Des Moines	Helena	Sante Fe		
			White Rock	South Dakota	Wyoming
				Sioux Falls	Cheyenne

Wide Range of U S WEST High-Speed Internet/Data Options
MegaBit Services offers a variety of high-speed ADSL options at affordable flat-rate prices.

- U S WEST MegaHome - Gives standard Internet users 256 kbps access for about $40/mo.
- U S WEST MegaOffice - Telecommuters and small businesses can get 512 kbps for about $65/mo.
- U S WEST MegaBusiness - Heavier-use business customers can get 768 kbps for about $80/mo.
- U S WEST MegaPak - Combines MegaHome and U S WEST.net Internet service for $59.95/mo.
- U S WEST MegaBit - Intensive business users and cyber-surfers can get 1-7 Mbps for $120-$840/mo.
- U S WEST MegaCentral - Businesses and Internet service providers (ISPs) wanting end-to-end ADSL connections for their customers or employees can install MegaCentral at their host site.

To hook up customers, MegaBit Services provides a Cisco SpeedRunner modem that simply plugs into a customer's existing phone jack and connects to their computer. With no special wiring required, customers can work in any room with a standard phone jack. Customers also get a "one-bill" service that combines all their MegaBit Services, Internet and local phone charges on a single monthly statement.

Later this fall, customers will also be able to order personal computers with built-in ADSL modems, thanks to an initiative announced in May by U S WEST, Dell Computers and Cisco Systems. Select Dell Dimension XPS desktop PCs will be able to plug directly into phone jacks without an external modem.

MegaBit Services can be ordered by calling 1-888-MEGAUSW (634-2879). Availability, scale and timing will depend on rollout schedule, local market conditions and regulatory environments. The technology also requires that customers live within range of ADSL-equipped wire centers. U S WEST representatives will work with customers to verify availability. Coverage area will continue to expand over time as the technology advances, much like the expansion of coverage for cellular services in the 1980's.

There are additional options for those who want different capabilities or aren't included in the initial rollout.

- U S WEST.net - For $19.95/mo., this fast, reliable Internet service is available with any of the MegaBit Services options or as a stand-alone service with dial-up speeds up to 56 kbps. Includes CNET Snap!Online and Netscape Communicator 4.0 software. It can be ordered by calling 1-800-244-1111.
- ISDN One-Pak - Offers voice/video/data capability, 128 kbps, U S WEST.net access for $78-$115/mo.
- Frame Relay service - For business customers that do not immediately qualify for ADSL service but are still interested in upgrading data access services for their company and their employees.

Solutions that Improve People's Lives

"For all its potential, the promise of the Internet is yet to be realized in improving people's daily lives," said Trujillo. "High-speed access to the Internet and corporate data networks can make that promise a reality."

- **Telecommuting**
  In Denver alone, the time people spend on the road commuting is expected to top 2.3 million hours a year by 2020, a 55% jump from 1995. In other cities, the situation is even grimmer. Millions of Americans are ready and eager to substitute telecommuting for the daily grind of rush-hour commuting. The Department of Transportation estimates that new communications technology can help double the number of U.S. telecommuters to 15 million by next decade. Industry experts say employees who telecommute two days a week over high-speed data networks increase their productivity by 25-40%.

- **Education**
  In education, the Internet has only scratched the surface. According to the National Foundation for the Improvement of Education, "the integration of technology into teaching as a tool for challenging and meaningful study has been more a goal than a reality." The gap between information "haves" and "have nots" is widening, and too few children, especially minority children, are cyberliterate. Eliminating dial-up and download hassles will dramatically improve the Internet's usefulness at school. And high-speed data at home can extend the learning day, letting children do high-speed homework on-line.

The new U S WEST provides a full range of telecommunications services - including wireline, wireless PCS and data networking - to more than 25 million customers nationally and in 14 western and midwestern states. On June 4, shareowners approved splitting U S WEST from its sister company, MediaOne Group, which will take final effect in mid-June. U S WEST !NTERPRISE is the data networking arm of the new U S WEST. U S WEST, Inc. can be found on the Internet at http://www.uswest.com.

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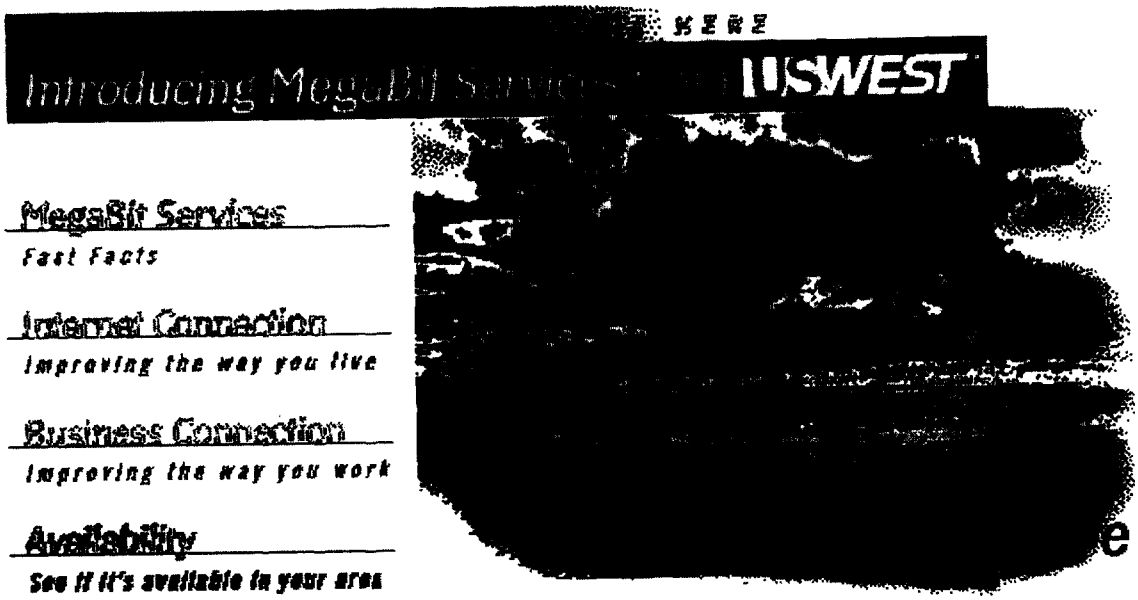

MegaBit Services

Fast Facts

Internet Connection

Improving the way you live

Business Connection

Improving the way you work

Availability

See if it's available in your area

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Fast Facts [redacted]

Fast Facts [redacted]

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MegaBit Services General Product Descriptions:

MegaBit Services provides end to end connectivity for simultaneous high-speed data and voice transmissions over a dedicated transport architecture. The service uses Rate Adaptive DSL (RADSL) technology for subscriber end service delivery, and ATM for host end connectivity.

MegaBit Services is based on a "hub and spoke" model. The "hub" in this model corresponds to the host location - either a corporate LAN or an Internet Service Provider (ISP). The hub location buys one of the MegaCentral product offerings. The "spoke" corresponds to subscribers who need access to the host network or resources. Each subscriber (spoke) must be connected to a host (hub) location. The subscriber chooses one of the MegaSubscriber options.

[redacted]

Get connected up to 250 times faster than a 28.8k analog modem

The MegaSubscriber options are:

MegaLine:

For about $40 a month plus a one time set up fee and modem, U S WEST MegaLine gives the user 256 Kbps access to a corporate LAN or ISP. MegaLine Services offer connectivity at roughly 9 times the speed of a 28.8 Kbps modem.

MegaOffice:

Those subscribers with greater bandwidth needs can select U S WEST MegaOffice, which provides 512 Kbps access for about $65 a month plus a one time set up fee and modem.

MegaBusiness:

Heavier-use business customers and serious cyber-surfers needing more bandwidth and video capability can get U S WEST MegaBusiness. With 768 Kbps at about $80 a month plus a one time set up fee and modem, customers can work from home at speeds once available only at the office.

MegaBit:

A new offering for 1998, intensive business users will be able to get three U S WEST MegaBit high-speed options: 1 Mbps downstream/1 Mbps upstream; 4 Mbps downstream/1 Mbps upstream access; and 7 Mbps downstream/1 Mbps upstream access.

The MegaCentral options are:

MegaCentral:

The host (hub) location can choose speeds of 1.5 Mbps or 3 - 45 Mbps in 3 Mbps increments.

If you are looking for fast paced access to the Internet *using DSL technology*, here are your options:

MegaPak:

U S WEST.net is poised to offer an Internet solution coupled with MegaBit services in some areas. The package is called MegaPak, and it provides 256 Kbps access to the Internet for $59.95 per month plus a one time set up fee. MegaPak includes:

- Continuous 256kbps digital connection with U S WEST.net Internet Access*
- Netscape Communicator 4.0 Internet browser
- 24-hour technical support 7 days a week
- 2 e-mail boxes
- 2 megabytes of Web page storage
- On-site wiring and complete technical setup including a personal training session and e-mail and web page setup

Several Internet Service Providers (ISPs) are offering or will soon be offering their customers high-speed access to the Internet using MegaBit Services. Please ask your ISP if it is offering MegaBit Services or check the yellow pages for Internet Service Providers in your area.

Additional DSL sites

- ADSL Forum
- xDSL Technologies (Telechoice)
- Bellcore (Bell Communications Research)
- Network Management Forum
- IEEE, ISO, ITU
- Netspeed

*MegaBit Services are available separately

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Internet Connection

The Internet is a valuable resource for you and your entire family. From educational research to medical information, to e-mailing, communicating and trading photos with friends and relatives, the Internet gives you countless options at your fingertips. But if you don't have time to wait for a slow connection, what good is it?

MegaBit gives you a very fast Internet connection that's also secure and reliable. And because MegaBit is a continuous digital line, you never have to log on or manually dial in, which means no more busy signals and no more hang ups!

Get connected up to 250 times faster than a 28.8k analog modem

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What's more, we've put everything together for you--complete with support--in one convenient MegaPak:

- Continuous 256kbps digital connection with U S WEST.net Internet Access*
- Netscape Communicator 4.0 Internet browser
- 24-hour technical support 7 days a week
- 2 e-mail boxes
- 2 megabytes of Web page storage
- On-site wiring and complete technical setup including a personal training session and e-mail and web page setup

For more information on MegaPak, please visit the USWEST.net site.

MegaBit Services also offer Internet Service Providers (ISP's) a phenomenal solution for their customers. If you are an ISP, visit our ISP pages for more information on what MegaBit Services can do for you and your customers.

*MegaBit Services are available separately

Click here to find out which Internet Service Providers in your area are providing DSL service.

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[redacted] Business Connection [redacted]

Business Connection

Corporate IS | Small Business/Home office | ISPs

[redacted]

Improving the way you work

Whether you need more speed for your home office, more freedom to telecommute, better connectivity for your small business, or all of the above to improve networking in a large corporation, MegaBit Services from U S WEST has the solution for you.

Get connected up to 250 times faster than a 28.8k analog modem

[redacted]

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Business Connection

MegaCentral from U S WEST offers businesses and telecommuters the high speed digital connection they're looking for.

When you're accessing your corporate LAN, you can get quick, reliable connections to the information you need, helping you and your business increase productivity.

- Real-time audio/video communications
- Constant access to e-mail and shared files
- Send/receive large documents quickly

Click here for information about what you need at the Subscriber location and/or Host or MegaCentral location (when connection is to the organization LAN).

MORE INFO

What You Need

Bandwidth Options

Business Applications

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Business Connection

Maybe you run a small business and you want to make sure your area offices are connected to each other and to the Internet at speeds that will help your business run more efficiently. Maybe you have a home office and want to save time downloading video and text files as well as surfing the Web. Or maybe you're a telecommuter who wants access to e-mails and shared files at your main office. MegaBit Services lets you do it all.

Click here for information about what you need at the Subscriber location and/or Host or MegaCentral location (when connection is to the organization LAN).

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Business Connection

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Now you can offer your customers more than a competitively-priced Internet connection. You can deliver the high speed connection they've been craving for all of their on line communications.

MegaBit Services bypasses the Public Switched Telephone Network that causes so much of the congestion your subscribers currently experience. By bypassing the Public Switched Telephone Network, your customers will have the reliable connections they need at speeds up to 25 times faster than a 28.8K analog modem.

Your benefits include:

- Value-added package solutions
- Gaining the competitive edge
- Bypassing the Public Switched Telephone Network

Your customers benefits include:

- Total package solution
- High speed connection
- Competitive price

For more information, please call our Internet Providers Sales Service Center at 800-879-6300.

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Pricing

The following prices are based on a one year contract. Pricing state to state may vary.

Product	Per month fee	Initial set-up fee	ATM OAL* Per Month	ATM OAL* Install
MegaLine (256k)	$40	$110	n/a	n/a
MegaOffice (512k)	$62.40	$110	n/a	n/a
MegaBusiness (768k)	$76.80	$110	n/a	n/a
MegaBit:				
1 M down 1 M up	$120	$110	n/a	n/a
4 M down 1 M up	$480	$110	n/a	n/a
7 M down 1 M up	$840	$110	n/a	n/a
MegaCentral:				
1.544 Mbps	$455	$500	**	n/a
3 Mbps	$967	$500	$674.50	$840.27
Each additional 3 Mbps	+ $239 to previous fee	$500	n/a	n/a
MegaPak (MegaLine + U S WEST.net access)	$59.95	$400***	n/a	n/a

In addition to the above charges, the MegaLine, MegaOffice, MegaBusiness and MegaBit customers will need to buy a Netspeed Modem or PCI card from U S WEST for their computer. The price for this ranges from $199 to $299.

MegaBit Services provide users with a fast-paced connection to either a corporate LAN or the Internet. Both the data and voice traffic travel on the same pair of telephone wires so the user may use the phone while working on the computer. The customer's phone service remains the same and the customer continues to pay the current charges for residential or business phone service. The pricing of MegaBit Services does not include pricing of phone service.

*Asynchronous Transfer Mode Optical Access Link Ò Certain parameters need to be met. Contact your sales representative for further information.

**A clear channel DS-1 is required. Your sales representative will further help you in determining this charge.

***This is a post launch offer. When you talk to a sales consultant, please ask about any promotional deals.

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Availability

MegaBit Services is coming soon to many U S WEST locations! To find out if it's available in your area, please enter your area code and phone number here*. You can also check availability through our customer service team at **1-888-MEGA-USW**.

( ) - Check Availability

U S WEST plans to expand MegaBit Services to the following cities before the end of June 1998:

Available Now!

- **Arizona**
  Phoenix, Tucson
- **Colorado**
  Boulder, Colorado Springs, Denver, Fort Collins, Greeley
- **Idaho**
  Boise
- **Iowa**
  Ames, Cedar Rapids, Council Bluffs, Des Moines
- **Minnesota**
  Minneapolis, St. Cloud, St. Paul, Rochester
- **Montana**
  Helena
- **Nebraska**
  Omaha
- **North Dakota**
  Fargo
- **Oregon**
  Albany, Corvallis, Eugene, Portland-area, Salem
- **South Dakota**
  Sioux Falls
- **Utah**
  Bountiful, Clearfield, Holladay, Kaysville, Kearns, Murray, Orem, Provo, Salt Lake City
- **Washington**
  Olympia, Seattle-area, Spokane, Tacoma
- **Wyoming**
  Cheyenne

Deployment is planned in these markets over the first half of 1998. Availability, scale and timing in each state will depend on local market conditions and regulatory environments.

Please check back to this availability site to see the most current updates on deployment in your city.

For further Central Office deployment information listed on a state by state basis, please see U S WEST's MegaBit Services Network Disclosure at
http://www.uswest.com/com/disclosures/netdisclosure403/index403.html.

Factors determining the deployment schedule include (but are not limited to) engineering on our backbone network, installation and turn-up of the DSL equipment and regulatory approvals.

Fast Facts [redacted]

FAQs

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For Technical FAQs
Click here

1) What is MegaBit Services?

2) What applications are appropriate for using MegaBit Services?

3) What services are being offered?

4) What do MegaSubscriber and MegaCentral mean?

5) When and where are you deploying service?

6) What is the level of consumer interest that would make it?

7) How do you decide where to deploy service?

8) What are the prices for MegaBit Services?

9) Do I pay for service on a per minute basis?

10) Why would customers be willing to pay more for MegaBit Services when they can use regular modems?

11) Do customers need to have voice service or is it included?

12) Do customers get to keep their current voice features?

13) Is there a limit as to the number of phones in a home

14) Do I need another phone line to get MegaBit Services?

15) Can customers get MegaBit Services if their Internet Service Provider does not use MegaCentral?

16) Can customers order MegaBit Services regardless of where they are located in the Phoenix metro area?

17) Where can I get updated information on your offerings?

18) How can I contact someone about getting service?

19) Can a customer use MegaBit Services for connecting to both the Internet and to a corporate LAN?

20) What ISPs are offering MegaBit Services?

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1) What is MegaBit Services?

MegaBit Services is the umbrella name for U S WEST's family of managed services delivered to a subscriber location on DSL (Digital Subscriber Line) technology.

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2) **What applications are appropriate for using MegaBit Services?**

The initial applications that we are focusing on include:

Telecommuting

- High-speed access to corporate networks

Internet Access

- High-speed access directly to the Internet

Desktop videoconferencing

- Based on emerging H.323 packet-based video applications.

Computer-Telephony Integration

- DSL technologies, with POTS and IP capabilities, will accelerate many Computer/Telephony Interface (CTI) applications.

Distance Learning

- Also based on emerging H.323 packet-based video applications.

Continuous-On or "PUSH" applications

- The xDSL packet-based (rather then circuit-switched) connectivity allows a user to be "on all the time." This will give rise to even more "push" or "trickle-in" applications which allow users to construct interest profiles and receive updates in near real-time on those topics from the network as events occur.

Product FAQs

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3) **What services are being offered?**

MegaBit Services will be initially launched with two service categories: MegaSubscriber and MegaCentral. These two categories correspond to the "hub" and "spoke" nature of the service architecture.

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4) **What do MegaSubscriber and MegaCentral mean?**

Our present MegaBit Services offering is based on a "hub and spoke" model. The "hub" in this model corresponds to the host location - either a corporate LAN or an Internet Service Provider (ISP). The hub location buys one of the MegaCentral product offerings. The "spoke" corresponds to subscribers who are at the other end of the connection. Each subscriber or spoke must be connected to a host or hub location. The subscriber chooses one of the MegaSubscriber options.

The MegaSubscriber options are:

MegaLine: For only about $40 a month plus a one time set up fee and modem, U S WEST MegaLine gives the occasional work-at-home user 256 Kbps access to a corporate LAN which is about 9 times faster than a 28.8 Kbps modem.

MegaOffice: Those subscribers with greater bandwidth needs can select U S WEST MegaOffice, which provides 512 Kbps access for about $65 a month plus a one time set up fee and modem.

MegaBusiness: Heavier-use business customers and serious cyber-surfers needing more bandwidth and video capability can get
U S WEST MegaBusiness. With 768 Kbps at about $80 a month plus a one time set up fee and modem, customers can work from home at speeds once available only at the office.

MegaBit: A new offering for 1998, intensive business

users will be able to get three
U S WEST MegaBit high-speed options: 1 Mbps downstream/1 Mbps upstream; 4 Mbps downstream/1 Mbps upstream access; and 7 Mbps dowwnstream/1 Mbps upstream access.

The MegaCentral options are:

MegaCentral: The hub or host location can choose speeds of 1.5 Mbps up to 45 Mbps in 3-Mbps increments.

Product FAQs

5) When and where are you deploying service?

U S WEST plans to expand MegaBit Services to the following cities before the end of July 1998:

Arizona:
Phoenix, Tucson

Colorado:
Boulder, Colorado Springs, Denver, Fort Collins, Greeley

Idaho:
Boise

Iowa:
Ames, Cedar Rapids, Council Bluffs, Des Moines

Minnesota:
Minneapolis, St. Paul, Rochester

Montana:
Helena

Nebraska:
Omaha

North Dakota:
Fargo

Oregon:
Albany, Corvallis, Eugene, Portland-area, Salem

South Dakota:
Sioux Falls

Utah:
Davis County, Holladay, Kearns, Murray, Orem, Provo, Salt Lake City

Washington:
Olympia, Seattle-area, Spokane, Tacoma

Wyoming:
Cheyenne

Deployment is planned in these markets over the first half of 1998. Availability, scale and timing in each state will depend on local market conditions and regulatory environments. Please check back to the availability site to see the most current updates on deployment in your city.

Product FAQs

6) What is the level of consumer interest that would make it worthwhile for U S WEST to install MegaBit Services in my city?

Our focus market is on established businesses that provide line densities of 50-100 lines, which would provide us with an economic incentive to deploy. After that has been established, we would begin serving the consumer interest.

7) How do you decide where to deploy service?

Many factors go into our decisions on which cities to deploy in. The factors include, but are not limited to, the following:

The concentration of host or MegaCentral locations is high in any given city. In order to financially justify deploying in a city, there must be ample "anchor tenants." These anchor tenants are large corporations that employ many people with high bandwidth needs. The employees of these corporations may be telecommuters who need to access their corporate LAN and all of the applications associated with it. They may work with high bandwidth applications on a regular basis, such as CAD/CAM software, high-tech medical applications or bandwidth heavy graphical images. Also, there could be a host location that requires employees to access the Internet for long periods of time while downloading large files onto their desktops.

The majority of phone lines are no more than 18,000 feet from their respective Central Office (CO). Unfortunately, there are distance limitations on how far the DSL signal can travel. The farther one gets from a CO, the weaker the signals become. Related to this is how many COs there are in a given city. The more COs, the more complicated the technical issues become and the more equipment is needed to deploy and therefore the more expensive the project becomes.

Whether the geographic location of the city is within U S WEST's 14-state region. While we do intend to deploy MegaBit Services out of region, we are starting with cities in region. There are simply fewer obstacles to clear for deploying in region.

Finally, whether the regulatory environment in any given state is favorable or not to U S WEST deploying service also affects our decision.

Product FAQs

8)What are the prices for MegaBit Services?

Pricing will be available upon product roll out. As a general rule, MegaBit Services will be significantly less expensive than installing comparable line speed such as a T-1 and will be priced competitively in relation to cable modems. Also, the longer the term of contract, the less expensive the product will be.

Pricing of MegaBit Services will vary on a state to state basis. Pricing in Phoenix, Arizona and Boise, Idaho can be found at http://www.uswest.com/com/customers/interprise/dsl/pricing.html .

9) Do I pay for service on a per minute basis?

One of the advantages of using MegaBit Services is that there are no per minute usage charges. Our services are "always on" services so you don't need to worry about exorbitant usage charges. This is a flat rate service offering with one non-recurring installation charge and a fixed monthly fee.

10) Why would customers be willing to pay more for MegaBit Services when they can use regular modems?

The bottom line is speed. Our MegaBit Service's slowest speed is 256 Kbps whereas the fastest analog modem operates at 56 Kbps! Also, the size of files that is being transmitted via the Internet is getting larger and larger. Therefore, downloading or uploading a file via a traditional modem is becoming more and more time-consuming. Recognize that with a traditional modem, it can take hours to transmit a file as compared to a few seconds with our MegaBit Services. Using MegaBit Services