

World Internet Topology

Brought to you by **AT&T Labs**

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This map represents the backbone of the Internet as of August 2007.

Each line depicts the shortest outgoing route from a test computer to each of more than 320,000 network nodes around the world. The map does not represent the physical or geographic location of servers, but rather is a topological representation of the various networks that combine to form the Internet.

It shows the incredible number of interconnected networks owned and maintained by private companies. These networks combine to form the World Internet backbone infrastructure.

This map is a product of the Internet Mapping Project. It was compiled and created by Bill Cheswick and Steven North at AT&T Labs Research, using technology and methods developed by the Lumeta Corporation.

AT&T's Network by the Numbers.

9.81

Petabytes of data transmitted across AT&T's networks on an average business day. It is the equivalent of moving the entire written contents of the Library of Congress every three minutes.

1

AT&T's rank among broadband providers in the United States.

12.9 Million

AT&T broadband customers in America.

540,000

Miles of Internet backbone fiber AT&T owns and operates.

\$6 Billion

Amount AT&T will spend by 2008 to bring fiber optics deeper into neighborhoods.

36

AT&T Internet data centers around the world.

301,760

AT&T employees worldwide.

97%

Percentage of the world economy reached by AT&T's networks.

99.998%

AT&T's network reliability.

49,000

Number of Wi-Fi hotspots AT&T provides or enables.

166

Number of United States cities where AT&T offers 3G wireless High-Speed Internet access

3 Million

AT&T wireless business data subscribers.

160%

Increase in bandwidth demand per AT&T user between June 2004 and October 2006.

7

Nobel Prizes awarded for innovations developed at the AT&T Bell Labs.

2

Average number of new patent applications AT&T files – every day.

These clusters represent Internet service provider network hubs. Each cluster represents a service provider capable of connecting thousands of individual users to the Internet. The endpoints of the smaller branches are more difficult to define; they may represent a firewall, another router, or even a smaller DSL router.

World Internet by the Numbers.

More than

320,000

Individual network nodes found by the Internet Mapping Project.

48 Million

Users on the Internet in 1995. (Source: IDC)

1.133 Billion

Internet users in 2006. (Source: Internet World Stats)

6.4 Million

New Internet users getting online every month. (Source: Internet World Stats)

1.6 Billion

Email boxes in use in 2006. (Source: IDC)

40 Million

New DNS Hosts every year. (Source: Internet Systems Consortium)

35,000

Web pages it takes to equal the amount of data transferred when a user downloads 1 HD movie. (Source: Craig Moffett)

100 Million

YouTube videos downloaded every day. (Source: YouTube)

161

Exabytes of new electronic data created every year. (Source: IDC)

12 Million

Miles of new fiber deployed in 2006. (Source: Telecommunications Industry Association)

15 Million

Miles of new fiber to be deployed annually by 2009. (Source: Telecommunications Industry Association)

\$72.5 Billion

Annual spending in support of network infrastructure in the United States by 2009. (Source: Telecommunications Industry Association)

