

Advanced Internet Service

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1. Internet

The American Ministry of Defense disperses information around the beginning of the Internet for 1969 years, and it is kept, and it has begun in having connected computers on-line for the research to try to prevent the loss of the data due to the war disaster and so on.

Then, WWW (World Wide Web) of the archetype of today's Internet was devised for 1989 years.

Though it appeared, an image couldn't use the first homepage 1992 years in Japan in the homepage of only the character at this time yet.

For 1993 years, Mosaic (mosaic) which was the archetype of the browser was developed, and the real use of the Internet began.

An image could be handled, too, and Mosaic came to be seen, and Windows95 was put on the market for 1995 years, and generally it was spreading.

The outline of the Internet is shown in the Figure 1.

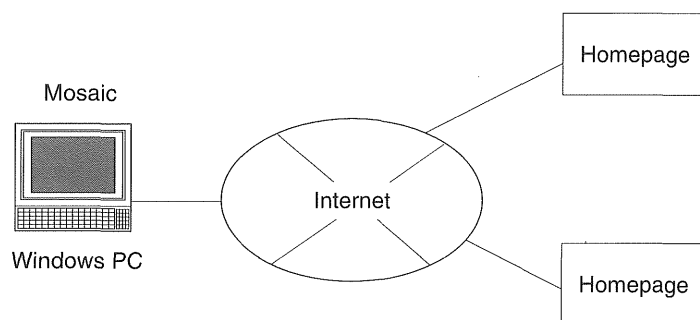


Figure 1 The outline of the Internet

2. Best effort connection and QOS

A data speed from the provider is the highest, and a communication speed is lower than 12Mbps in 12Mbps with Best effort in the internet connectivity in the time of the descent 12Mbps by the conditions of the circuit.

The speed of each data becomes slower than 12Mbps because it is that the data of several people some minutes pass through the circuit at the same time if more than one person uses it at the same time because more than one person is usually sharing the circuit of Best effort connection The outline of the Best effort connection is shown the Figure 2.

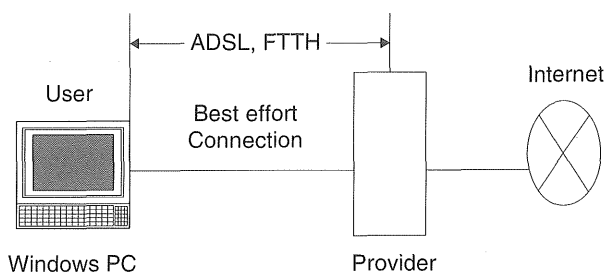


Figure 2 The outline of best effort connection

3. Internet broadcasting

Music, sport, a movie, news, a linguistic program, and so on are transmitted through Broadband Internet such as ADSL and FTTH.

The quality of the image and the voice sometimes gets bad by the conditions of the circuit, and it is sometimes interrupted like general broadcasting because it is here through the Internet though even an individual learns to broadcast it because don't have large-scale broadcasting equipment and so on.

Sreaming technology is being used for the Internet broadcasting.

It learns to regenerate, and it is live such as a television and a radio with Sreaming at before the loud voice and the motion picture data with receiving a voice and the file of the motion picture real time regenerate technology character data compare download reproduce thing receive.

The outline of the Internet broadcastings is shown in the Figure 3.

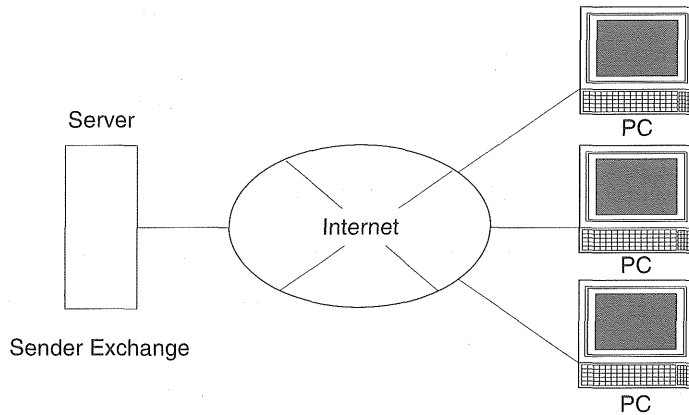


Figure 3 The outline of the Internet broadcasting user

4. ADSL and FTTH

ADSL (Asymmetric Digital Subscriber-Line) and non-symmetrical digital member lines are broadband Internet lines to come most at present.

They are descent 8Mbps, up 1Mbps with 8MADSL on the Internet because there are many more overwhelmingly than the quantity ascent of the data which the amount of data descent to receive transmits when it is said why it isn't symmetrical.

The outline of ADSL is shown in the Figure 4.

A digital signal from the personal computer is changed into the analog signal with an ADSL modem, and is being sent.

The signal which becomes the base of the irregularity and irregularity is being caused with the carriage wave to change a digital signal into the analog signal.

It is connected from home with the Telephone Company with a copper wire, and ADSL learns to use it with the telephone in the telephone member lines.

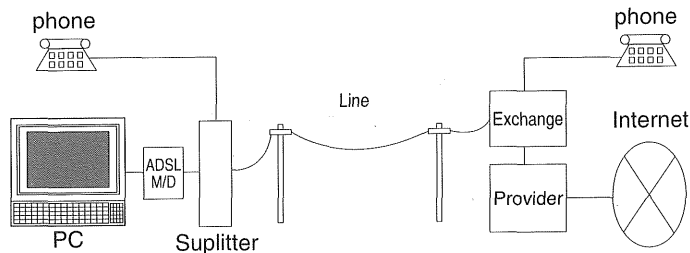


Figure 4 The outline of ADSL

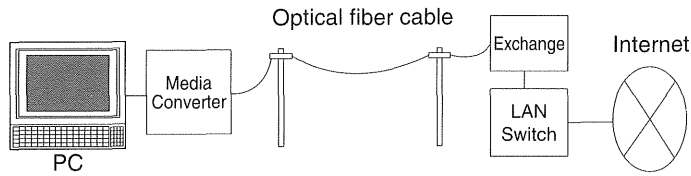


Figure 5 The outline of FTTH

A circuit separates the signal of the telephone and ADSL with the frequency separation vessel called splitters because it is one though the frequency which was different from the frequency used over the telephone is being used with ADSL.

FTTH (Fiber to the Home) are high-speed Internet lines best.

Though a service is provided, B fletze of NTT, an electric power communication company, cable broadband and so on haven't spread very much yet.

An electric signal from the personal computer is changed into the optical signal with a media converter, and connected to the Internet in 100Mbps through the optical fiber cable. The outline of FTTH is shown in the Figure 5.

5. Wireless Internet service

The place where the Internet connectivity environment where wireless LAN was used in the station, the airport, the hotel, and so on.

High-speed lines such as ADSL are quoted, and the access, point of wireless LAN is connected.

As for the communication form of wireless LAN, a maximum communication speed is 11Mbps by the thing called IEEE802.11b.

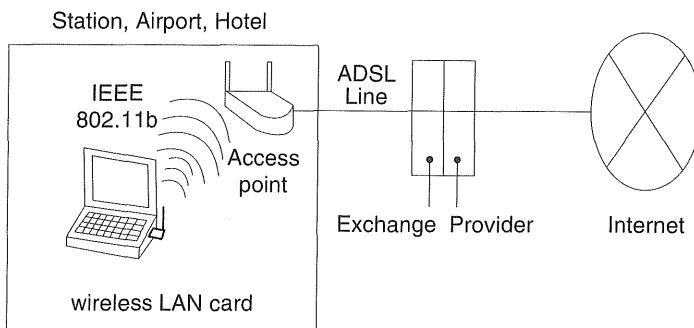


Figure 6 The outline of the wireless Internet service

The outline of the wireless Internet service is shown in the Figure 6.

Registration is necessary for the dealer who provides a service in advance, and no one is available to use a wireless Internet service.