

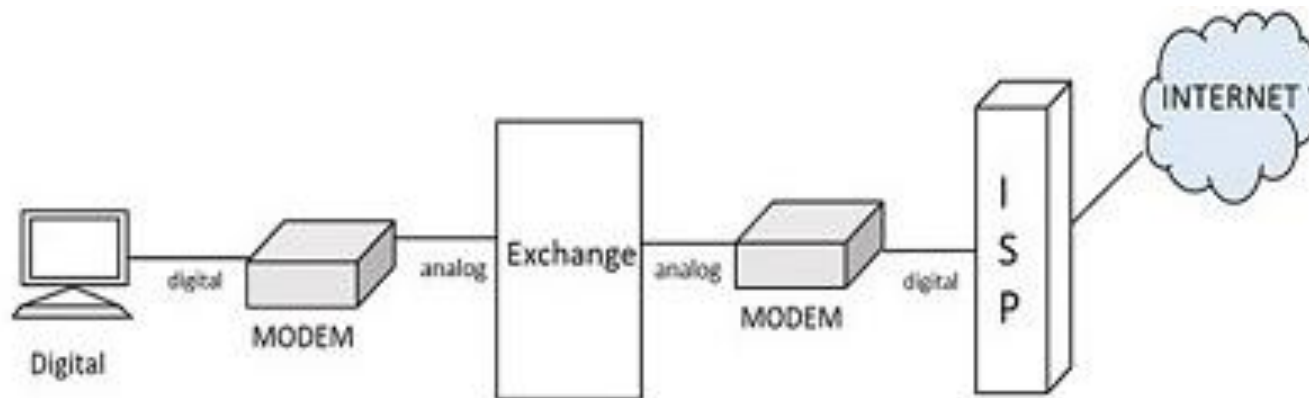
Integrated Services of Digital Networking (ISDN)

ISDN

- Earlier, the transmission of data and voice both were possible through normal POTS, Plain Old Telephone Systems.
- With the introduction of Internet came the advancement in telecommunication too.
- Yet, the sending and receiving of data along with voice was not an easy task

ISDN

- One could use either the Internet or the Telephone. The invention of ISDN helped mitigate this problem.



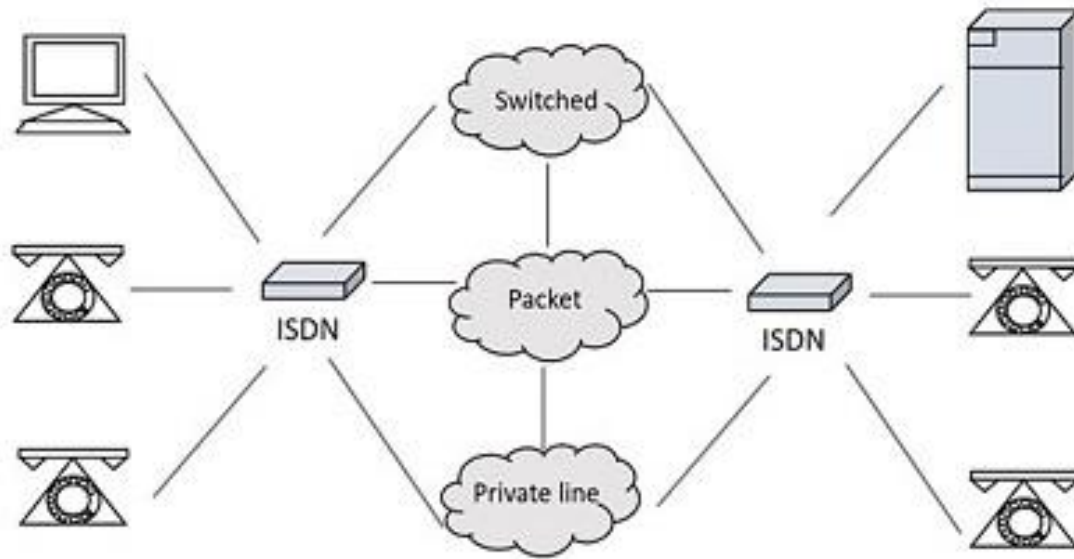
ISDN

- As the system has to use the telephone cable through the telephone exchange for using the Internet, the usage of telephone for voice calls was not permitted.
- The introduction of ISDN has resolved this problem allowing the transmission of both voice and data simultaneously.
- This has many advanced features over the traditional PSTN, Public Switched Telephone Network.

Integrated Services of Digital Networking

- ISDN is a telephone network based infrastructure that allows the transmission of voice and data simultaneously at a high speed with greater efficiency.
- This is a circuit switched telephone network system, which also provides access to Packet switched networks.

Integrated Services of Digital Networking



ISDN supports a variety of services

- Voice calls
- Facsimile
- Videotext
- Teletext
- Electronic Mail
- Database access
- Data transmission and voice
- Connection to internet
- Electronic Fund transfer
- Image and graphics exchange
- Document storage and transfer
- Audio and Video Conferencing
- Automatic alarm services to fire stations, police, medical etc.

Advantages of ISDN

- ISDN is a telephone network based infrastructure, which enables the transmission of both voice and data simultaneously.
- There are many advantages of ISDN such as
 - As the services are digital, there is less chance for errors.
 - The connection is faster.
 - The bandwidth is higher.
 - Voice, data and video – all of these can be sent over a single ISDN line.

Disadvantages of ISDN

- The disadvantage of ISDN is that it requires specialized digital services and is costlier.