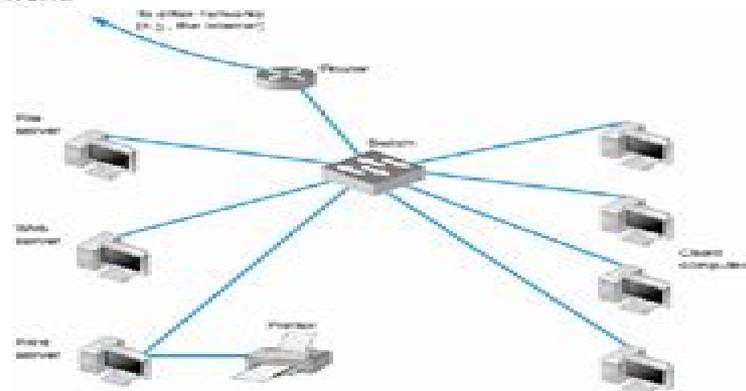


I. Data Communication Networks

- a. **Data Communications:** movement of computer information from one point to another via electrical or optical transmission systems, ex: data communication networks
- b. **Telecommunications:** includes transmission of voice, video, data over long distances
- c. **Components of a Networks – 3 hardware components:**
 - i. **Server (host computer) –** stores data, software that can be accessed by clients. Several can work together over network w/ client computer to support business application
 1. Typically microcomputers, can be minicomputers or mainframes
 2. Not technically necessary on all networks, ie: peer-to-peer networks
 - ii. **Client –** input-output hardware device at user's end of a communication circuit, provides users with access to network and software on the server
 - iii. **Circuit –** pathway that messages travel. Typically copper wire, fiber-optic and wireless are becoming common
 - iv. **LAN Network:**



- 1.
2. Clients: 4 microcomputers
3. Circuit: hub and cables
4. Router – connects two or more networks
5. File Server: stores data, software
6. Print Server: manages printing requests from clients
7. Web Server: stores documents, graphics that can be accessed from a web browser, can respond from requests from networks on any computer on internet

d. Types of Networks

- i. **Local Area Network (LAN) –** group of microcomputers located in same general area
 1. Covers clearly defined, small area, ie: one floor, single building etc
 2. Use shared circuits, computers take turns to use
 3. Support high-speed data transmission, 100Mbps
 4. Most connected to a backbone network (BBN)
 5. Intranet: LAN private to those w/o access – used in organizations

Business Data Communications Study Guide

Michael Brown



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