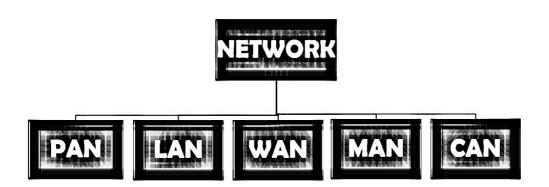
CLASSIFICATION OF AREA BY THEIR GEOGRAPHY



LOCAL AREA NETWORK(LAN)

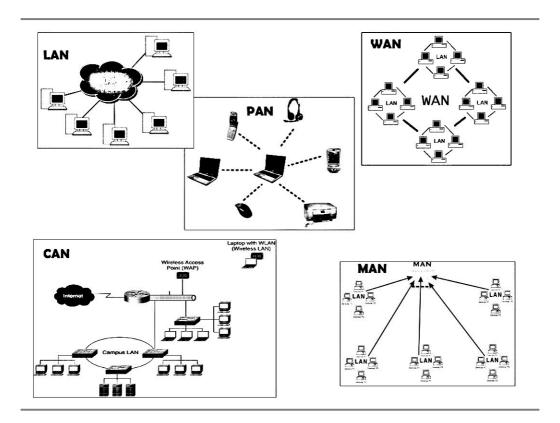
- LAN is a network which is designed to operate over a small physical area such as an office, factory or a group of buildings.
- □ LAN's are easy to design and troubleshoot
- Exchange of information and sharing of resources becomes easy because of LAN.
- In LAN all machines are connected to a single cable.
- Different types of topologies such as star, tree, bus, ring, etc Can be used
- It is usually a privately owned network.

WIDE AREA NETWORK(WAN)

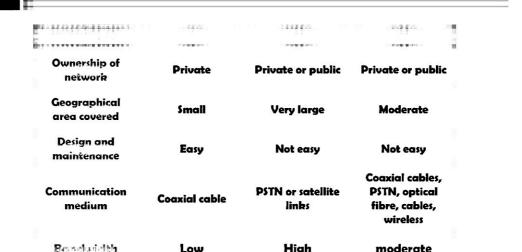
- When network spans over a large distance or when the computers to be connected to each other are at widely separated locations a local area network cannot be used. A wide area network(WAN) is installed.
- The communication between different users of WAN is established using leased telephone lines,

METROPOLITAN AREA NETWORK(MAN)

- It is in between LAN & WAN technology that covers the entire city.
- □ It uses similar technology as LAN.
- It can be a single network such as cable TV network, or a measure of connecting a number of LAN's o a large network so that resources can be shared LAN to LAN as well as device to device.



DISTINGUISH BETWEEN LAN, WAN, MAN



WIDE AREA NETWORK(WAN)

- When network spans over a large distance or when the computers to be connected to each other are at widely separated locations a local area network cannot be used. A wide area network(WAN) is installed.
- The communication between different users of WAN is established using leased telephone lines, satellite links and similar channels.
- It is cheaper and more efficient to use the phone network for the link.
- Most WAN networks are used to transfer large blocks of data between its users.

PERSONAL AREA NETWORK(PAN)

- A personal area network is a computer network organized around an individual person.
- It generally consists of a mobile computer, a cell phone or personal digital assistant. PAN enables the communication among these devices.
- It can also be used for communication among personal devices themselves for connecting to a digital level network and internet.
- □ The PANs can be constructed using wireless or cables.

CAMPUS AREA NETWORK(CAN)

- The campus area network is made up of an interconnection of LAN with limited geographical area.
- Network equipments such as switches, routers and the transmission media i.e. optical fibre etc are almost entirely owned by the campus owner.