

Internet ( made up of networks and the infrastructure to connect the various heterogenous networks together)

Each one of these is a specialized type of
Packet Switch

## 1.1-1.3

Communication takes place in an orderly International ISP manner - the rules are called a protocol. E.g. TCP/IP
ach communication link carries packets of data at a specific speed depending on the medium (e.g. copper wire vs. fiber optic) and different capacities (e.g. fiber optic cable may carry different wave lengths or colors of light)
Gateway Router(s) (edge router)


Tier 1 ISP Verizon

International ISP Tier 1 e.g. AT\&T/

Packets follow a path or route through the Internet based on information contained in the routers and switches. The process of building the information is called routing. The process of moving the packet from an input port to an output port is called forwarding.

Wireless Access Points


Wide area networks (WANs) connect LANs together and may be within a company or cross the Internet.


Computers

Switchs
Local area Network(s) LAN Shows another LAN connected to this network that may be a remote site. lit is connect to this WAN and under the control of the company-not the ISP.

time

TDM


Example:
4 users


