SNS COLLEGE OF TECHNOLOGY

Coimbatore-35
An Autonomous Institution

Accredited by NBA – AICTE and Accredited by NAAC – UGC with 'A++' Grade
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai

DEPARTMENT OF ELECTRONICS & COMMUNICATION ENGINEERING

19ECT301- COMMUNICATION NETWORKS

III YEAR/ V SEMESTER

UNIT 1 – INTRODUCTION TO NETWORKS AND LAYERED ARCHITECTURE

TOPIC – INTRODUCTION TO COMMUNICATION NETWORKS

COMMUNICATION

Communication:

Means of sending and receiving an information from one point to another point

Networks:

A **Network** is a collection of computers, servers, mainframes, **network** devices, peripherals, or other devices connected to one another to allow the sharing of data.

COMMUNICATION NETWORKS

A **communication** **network** is a set of **computers** connected together for the purpose of sharing resources or offering a service such as E Mail, Banking, Shopping Etc., The most common resource shared today is connection to the Internet. Other shared resources can include a printer or a file server. The Internet itself can be considered a **computer network**.

WHY COMMUNICATION NETWORK IS IMPORTANT

INTERNET

❖ We could clearly see that how the internet have changed the way interact, shop, study, paly and even the life styles.

❖ Internet have been used as an important tool for many start-ups to reach more people.

If networking is so important, and seems to have a tremendous growth in the future... Why cant you set up a career in this domain?

CAREER OPTIONS IN NETWORKING

PROTOCOLS

Protocol

A set of rules governing data communications

Syntax: format of data block

Semantics: meaning of each section

Timing: speed and sequencing

Creation Committees

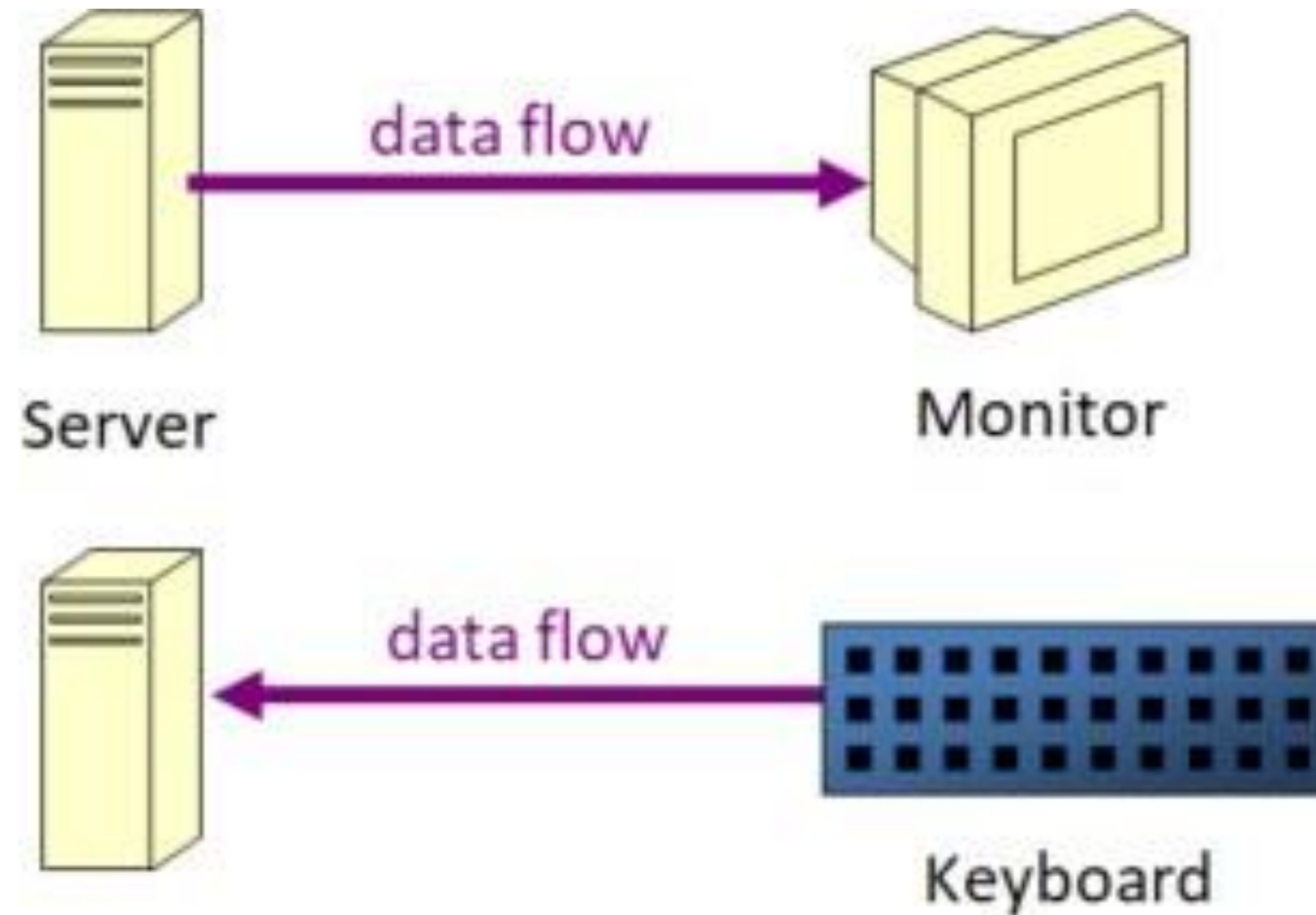   ISO, ITU-T, ANSI, IEEE, EIA

Forums

Regulatory Agencies
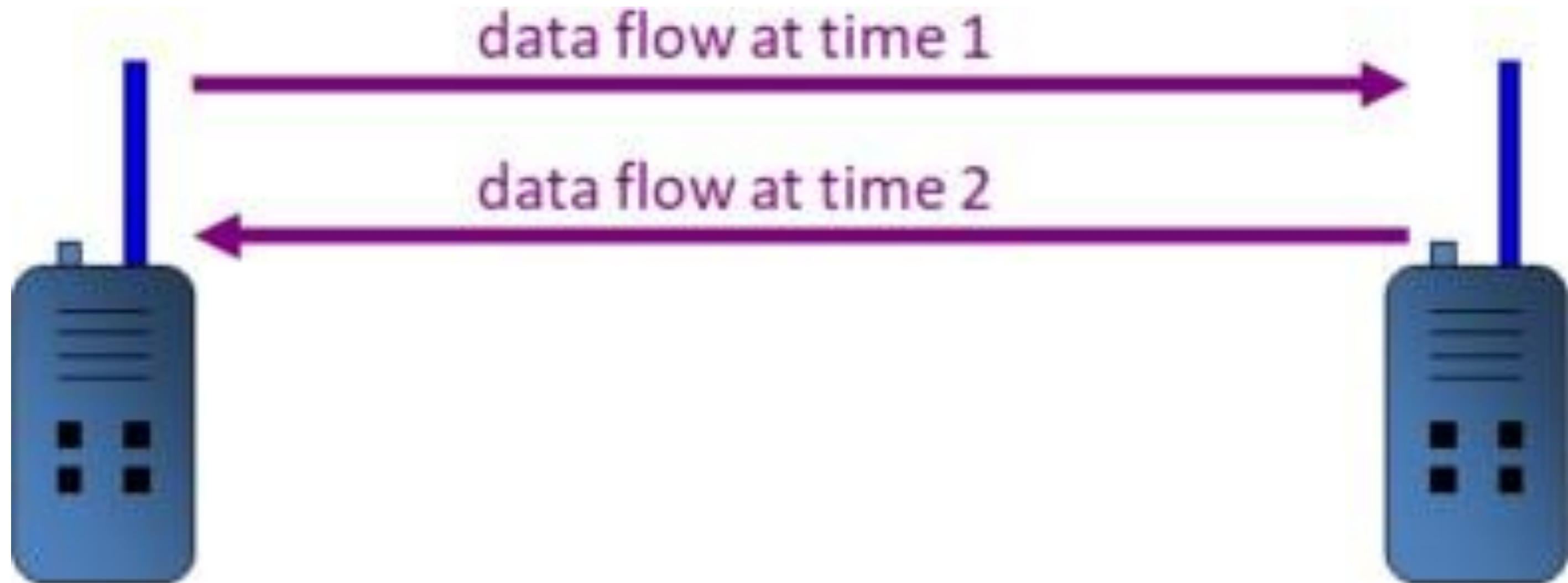
DIRECTION OF DATA FLOW

Simplex: One direction only

DIRECTION OF DATA FLOW

Half Duplex: Both directions, one at a time

data flow at time 1

data flow at time 2

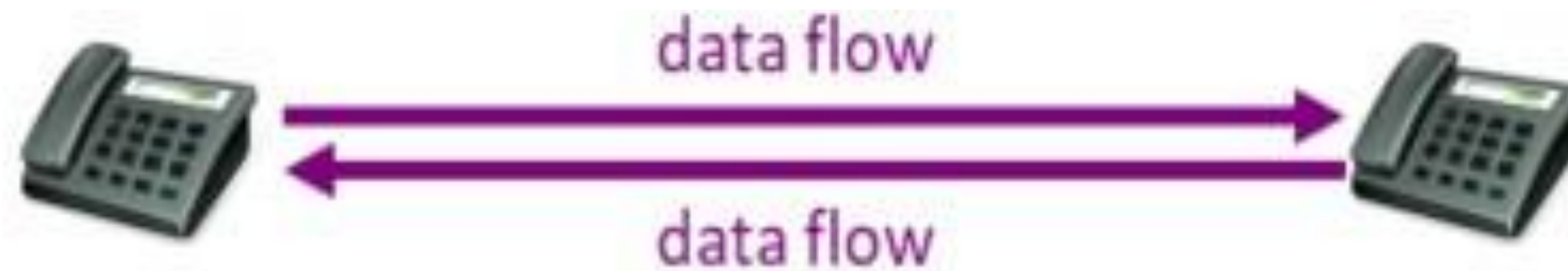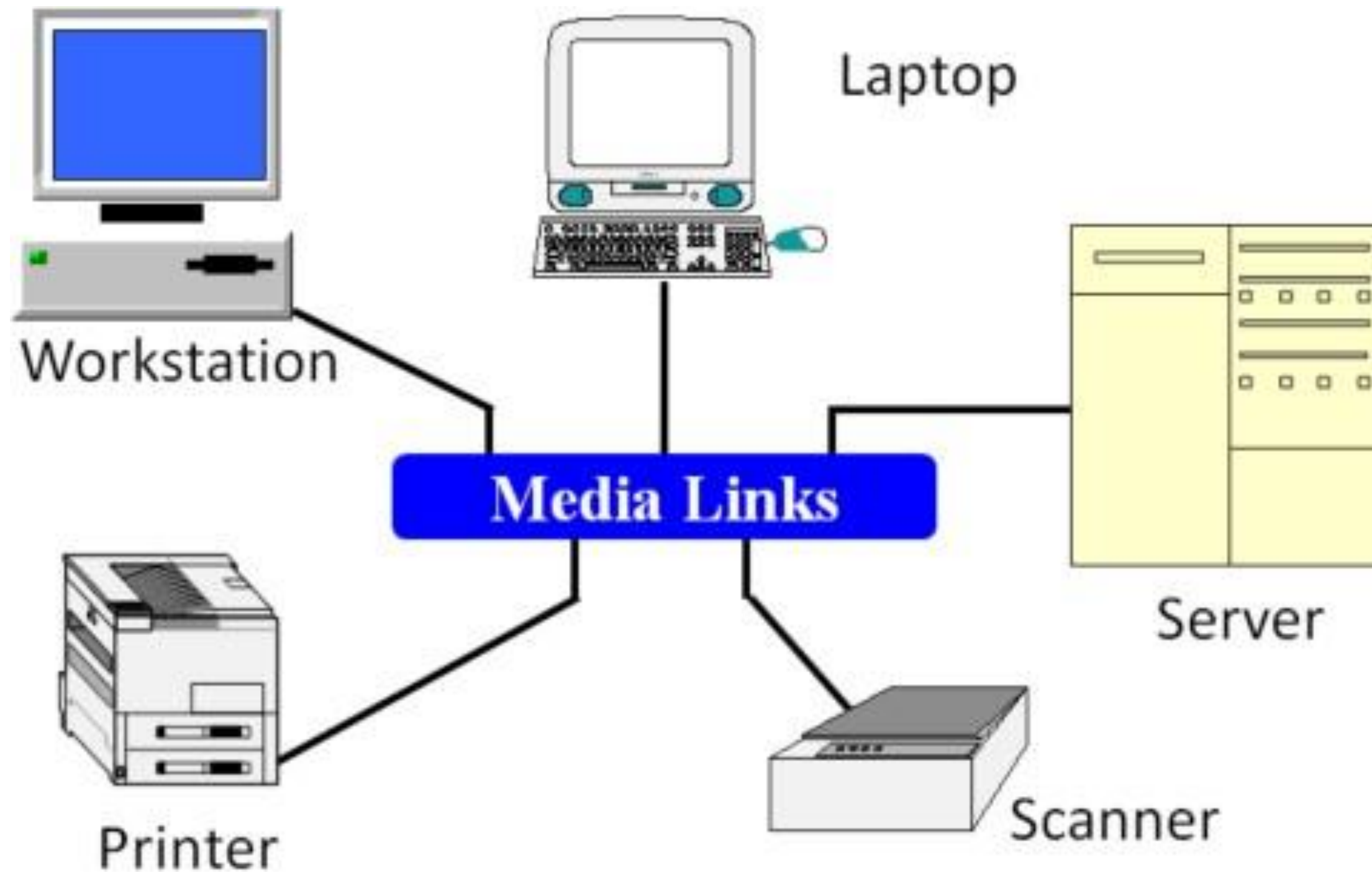**Full Duplex:** Both directions simultaneously

– E.g., telephone

NETWORKS

THANK YOU