

NETWORKS STANDARD ,PROTOCOLS AND NETWORK MODELS

CHAPTER THREE
COMPUTER SCIENCE
Fourth class

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• Network Criteria

A network must be able to meet a certain number of criteria. The most important of these are

Performance

reliability

security.



a) Performance

including **transit time and response time**.

Transit time is the amount of time required for a message to travel from one device to another.

Response time is the elapsed time between an inquiry and a response.

The performance of a network depends on a number of factors:

- *Number of users.*
- *2) Type of transmission medium.*
- *3) Capabilities of the connected hardware.*
- *4) Efficiency of the software.*

Performance is often evaluated by two networking metrics: **throughput and delay**.



- throughput:

Indicate the level of successful packets (actual rate) delivery from one point on the network to another (measures in bit per second bps)

- Delay :

How long it takes for a bit of data to travel across the network from one communication end point to another.

We often need more throughput and less delay.

