

Types of Network



IN THIS LESSON WE WILL COVER:

- » **SECTION 1 : LOCAL AREA NETWORK (LAN)**
- » **SECTION 2 : METROPOLITAN AREA NETWORK (MAN)**
- » **SECTION 3 : WIDE AREA NETWORK (WAN)**
- » **SECTION 4 : PERSONAL AREA NETWORK (PAN)**
- » **SECTION 5 : CAMPUS AREA NETWORK (CAN)**



SECTION 1 : LOCAL AREA NETWORK (LAN)

Features	LAN
Distance	Short (1-2 kms)
Speed	High (1000MBPS)
Cables	Twisted pair cables, fibre optic cables & coaxial cables
Nodes	Normal Desktops
Ownership	Individual/ Organisation



SECTION 2 : METROPOLITAN AREA NETWORK (MAN)

Features	LAN	MAN
Distance	Short (1-2 kms)	Short (Within a city)
Speed	High (1000MBPS)	Moderate (100-1000 MBPS)
Cables	Twisted pair cables, fibre optic cables & coaxial cables	Twisted pair cables & fibre optic cables
Nodes	Normal Desktops	Normal Desktops & minicomputers
Ownership	Individual/ Organisation	Service providers/ multiple organisations

SECTION 3 : WIDE AREA NETWORK (WAN)

Features	LAN	MAN	WAN
Distance	Short (1-2 kms)	Short (Within a city)	Unlimited
Speed	High (1000MBPS)	Moderate (100-1000 MBPS)	Slow (10-100 MBPS)
Cables	Twisted pair cables, fibre optic cables & coaxial cables	Twisted pair cables & fibre optic cables	Twisted pair cables, coaxial cables, fibre optic cables / Wireless for satellite
Nodes	Normal Desktops	Normal Desktops & minicomputers	Normal desktops
Ownership	Individual/ Organisation	Service providers/ multiple organisations	Private or public

SECTION 4 : PERSONAL AREA NETWORK (PAN)

1 Used to connecting devices within a few metres

2 **Examples:**

a Connecting phone with tablet via bluetooth

b Connecting phone with wireless headset

c Connecting laptop with printer via wifi

3 Secure



SECTION 5 : CAMPUS AREA NETWORK (CAN)

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1 Used to connect different LANs across a Campus

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