

Unit-3

Line Configuration

Line Configuration refers to the way two or more Communication devices attached to a link. It is also referred to as Connection.

A Link is the physical Communication pathway that transfers data from one device to another.

For establishing a Communication, two devices must be connected in same way to the same link at the same time. There are two possible line Configurations :-

1) Point to Point

ii) MultiPoint / Multidrop line Configuration

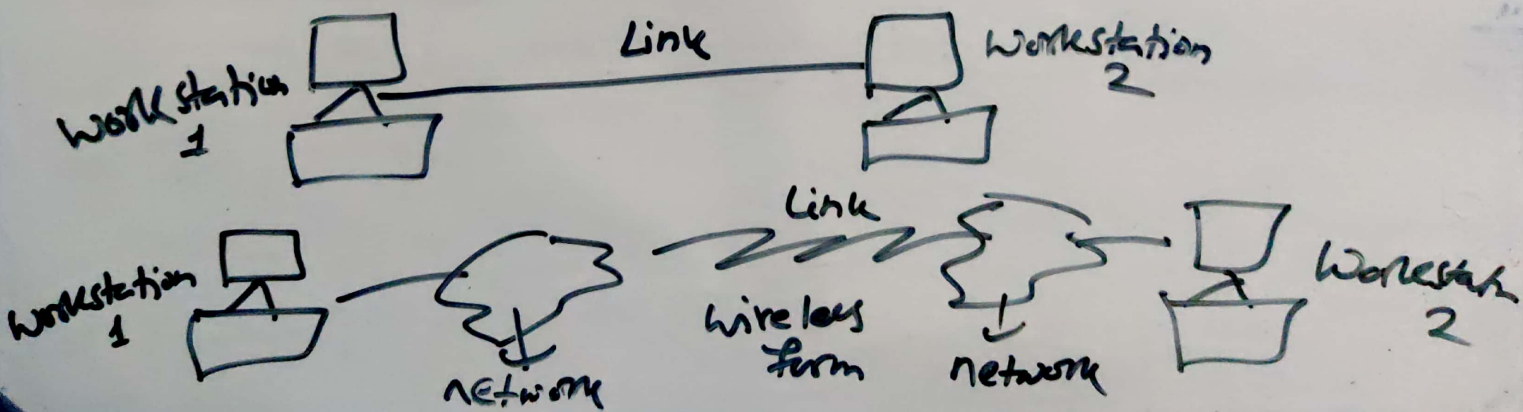
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1) Point to Point :- It provides a dedicated link between two devices use actual length of wire/cable to connect the two end.

Basically, Point to Point is a network topology i.e. Considered to be one of the easiest network topology.

In point to point, the entire capacity of the channel is reserved for transmission between those two devices.



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Multipoint Configuration / Multidrop Line Configuration

It is another form of Line Configuration where Sharing Concept always occurs.

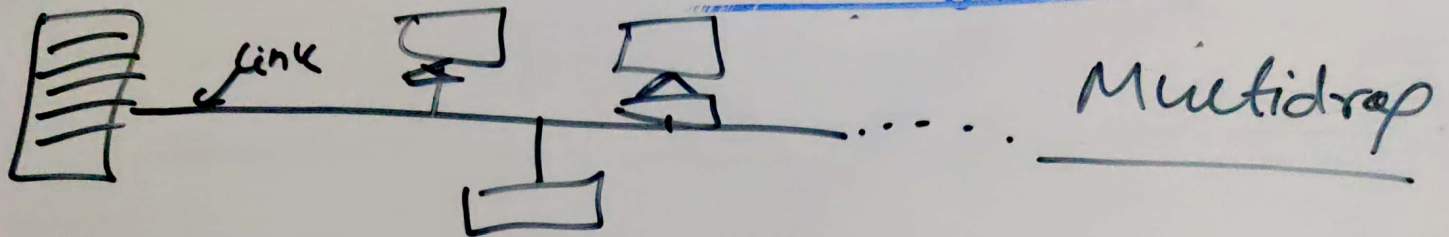
Here, two or more devices are attached and shared a specific link capacity of the Channel.

Based on their Sharing Capacity, there can be two possibilities in a multipoint Line Configuration.

- 1) Spatial sharing
- 11) Temporal (Time) sharing

Mainframe Unit-3

Line Configuration



- * Spatial Sharing :. If several devices can share the link simultaneously, it is called spatially shared line configuration.
- * Temporal (Time) Sharing : If users must take turns using the link, then it is called temporal sharing.