

## Line Configuration

Line configuration refers to the way two or more communication devices attached to a link. Line configuration is also referred to as connection. A Link is the physical communication pathway that transfers data from one device to another. For communication to occur, two devices must be connected in same way to the same link at the same time.

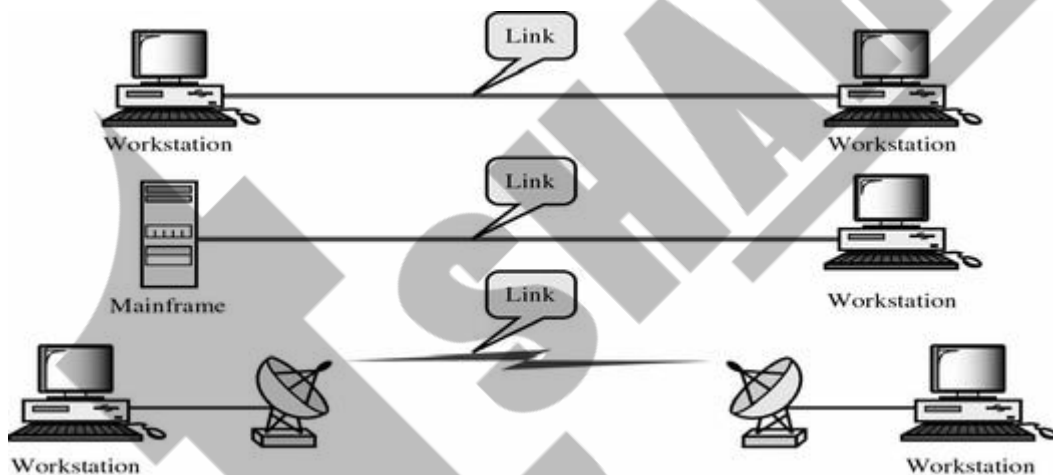
There are two possible line configurations.

1. Point-to-Point.
2. Multipoint.

### Point-to-Point

A Point to Point Line Configuration Provide dedicated link between two devices use actual length of wire or cable to connect the two end including microwave & satellite link. Infrared remote control & TVs remote control.

The entire capacity of the channel is reserved for transmission between those two devices. Most point-to-point line configurations use an actual length of wire or cable to connect the two ends, but other options, such as microwave or satellite links, are also possible. Point to point network topology is considered to be one of the easiest and most conventional network topologies. It is also the simplest to establish and understand. To visualize, one can consider point to point network topology as two phones connected end to end for a two way communication



### Multipoint Configuration

Multipoint Configuration also known as Multidrop line configuration one or more than two specific devices share a single link capacity of the channel is shared. More than two devices share the Link that is the capacity of the channel is shared now. With shared capacity, there can be two possibilities in a Multipoint Line Configurations:

- **Spatial Sharing:** If several devices can share the link simultaneously, it's called Spatially shared line configuration
- **Temporal (Time) Sharing:** If users must take turns using the link , then it's called Temporally shared or Time Shared Line Configuration

