

# Ring or loop networks



This kind of network is not really efficient and reliable but it is quite cheap. As soon as two lines are cut the network no longer works.



We can use this topology for security reasons. It is also used for FDDI (optical fibre) local networks.

### Networks in star



Network in star

This topology is quite efficient and cheap. Most small local networks is built on this model (mainly for cost reasons), by using a central hub that connects computers together. Private phone networks (PABX) are also based on this topology. The weakness of this structure is the central node that must never be broken.

### Complete networks or with regular meshing



This topology is reliable but it is also the most expensive one. Each node is connected to every other node. It is never used in practice.

### Hierarchical structure



It is sometimes used to copy a given hierarchical organization. In practice, it is not efficient because intermediate nodes can be congestion points.

#### Buses

TmP - Networks



The main characteristic of this topology is that it is a passive structure: is a node is down, the network is not affected. The signal go through the bus and disappears once it has reached an end (terminations on coaxial Ethernet networks).

## Undefined network or irregular meshing



Unfortunately it is the most frequent topology. Communication is seldom direct, messages need to go through intermediate nodes. It is not the most efficient and reliable configuration (intermediate nodes can play an important role). This structure is the consequence of interconnection of several local subnetworks.





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