- The star topology based on a hub *or concentrator* corresponds to a logical topology in bus.

- A hub can be seen as a repetar with multiple output ports. The *hub* regenerates the received signal and sends it to all the output ports.

- The *switches* permit to implement the switched Ethernet and extend the operation mode to full-duplex.

- Contrary to the hubs that only operate at the physical layer, the switches also operate at the MAC layer.

Network with *Hub*: Bus logical topology

HUB — Total Capacity 100 Mb/s
100 Mb/s
100 Mb/s
100 Mb/s
100 Mb/s

Network with a *switch* : Star logical topology

Switch — Total capacity N x 100 Mb/s
100 Mb/s
100 Mb/s
100 Mb/s
100 Mb/s