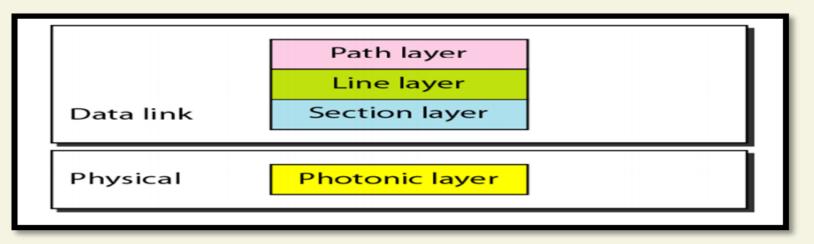
Computer Network Protocols Physical Layer Lesson -2



SONET\SDH Networks

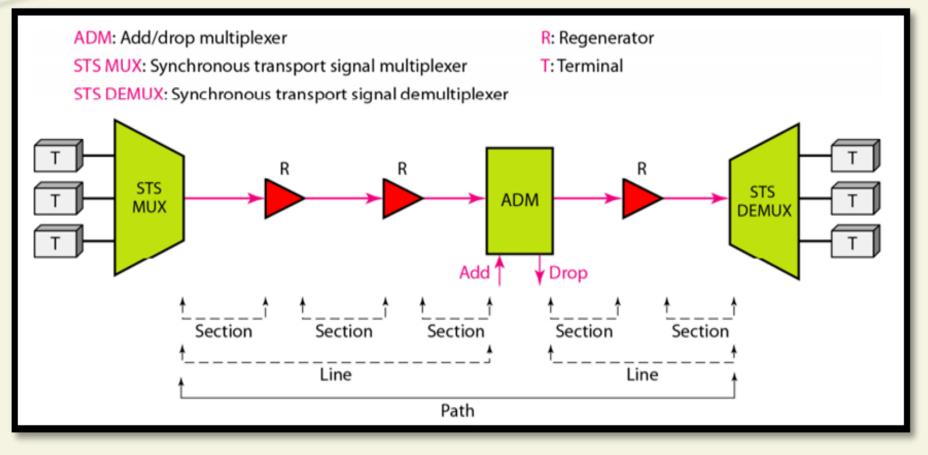
The SONET standard includes **four functional layers** they correspond to both the **physical and the data link layers** shown in figure below.

- **Path layer** is responsible for the movement of a signal from its optical source to its optical destination.
- *Line layer* is for the movement of a signal across a physical line.
- **Section layer** is for the movement of a signal across a physical section, handling framing, scrambling, and error control.
- **Photonic layer** corresponds to the physical layer of OSI model



2

SONET\SDH Networks

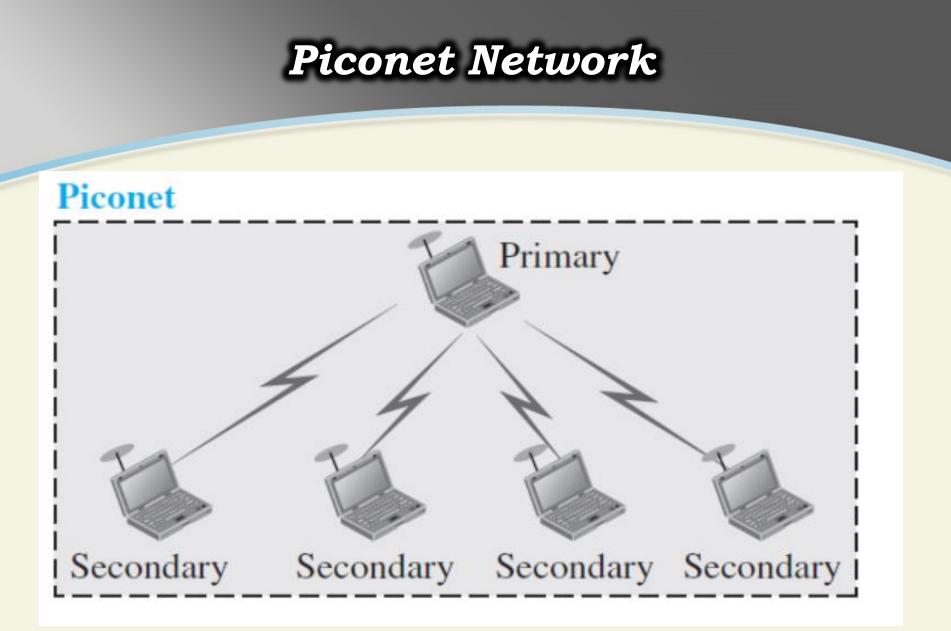


BLUETOOTH

Bluetooth is a wireless LAN technology designed to connect devices of different functions such as telephones, notebooks, computers (desktop and laptop), cameras, printers, and even coffee makers when they are at a short distance from each other.

Architecture of Bluetooth:

- > Bluetooth defines two types of networks: **piconet** and **scatternet**.
- A Bluetooth network is called a piconet, or a small net. A piconet can have up to **eight stations**, one of which is called the primary; the rest are called secondaries.



Scatternet Network Piconet Piconet I Primary Secondary Secondary Secondary Secondaryi Primary/ Secondary Secondary



Piconet	Scatternet
In this bluetooth network, device can function either as master or slave.	In this bluetooth network, device can function as master or slave or (master+slave)
It serves smaller coverage area.	It serves larger coverage area.
It supports maximum 8 nodes.	It supports more than 8 nodes.
It allows less efficient use of available bluetooth channel bandwidth.	It allows more efficient use of available bluetooth channel bandwidth.

End Of Lesson 2

Thanks For Listening

