## Switched SDH/SONET



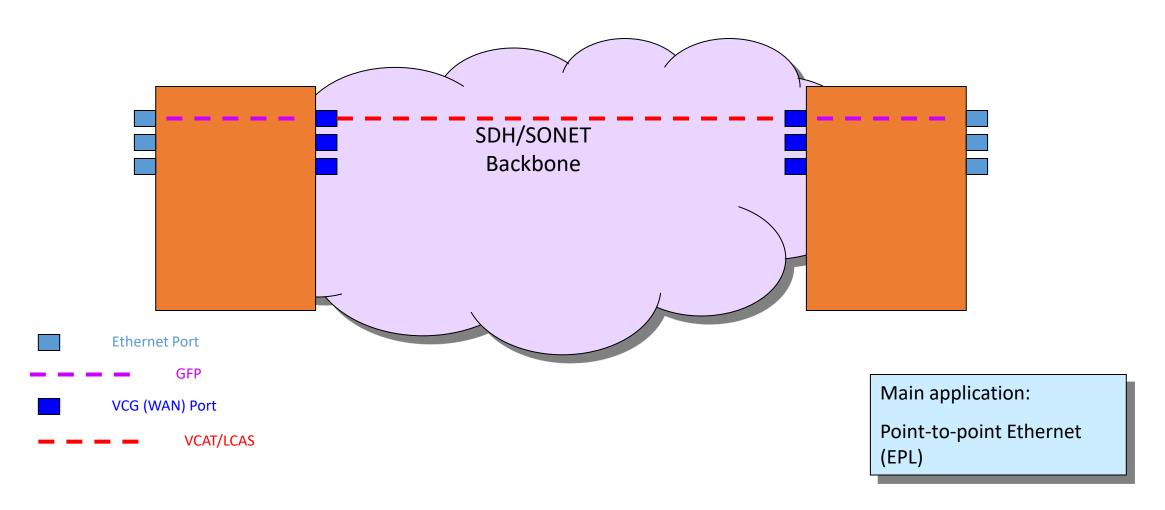
#### **Table of content**



- <u>Transport Ethernet</u>
- Aggregation application
- WAN application
- Service definition
- PAUSE mechanism in Transport
- Security in transport
- Conclusion

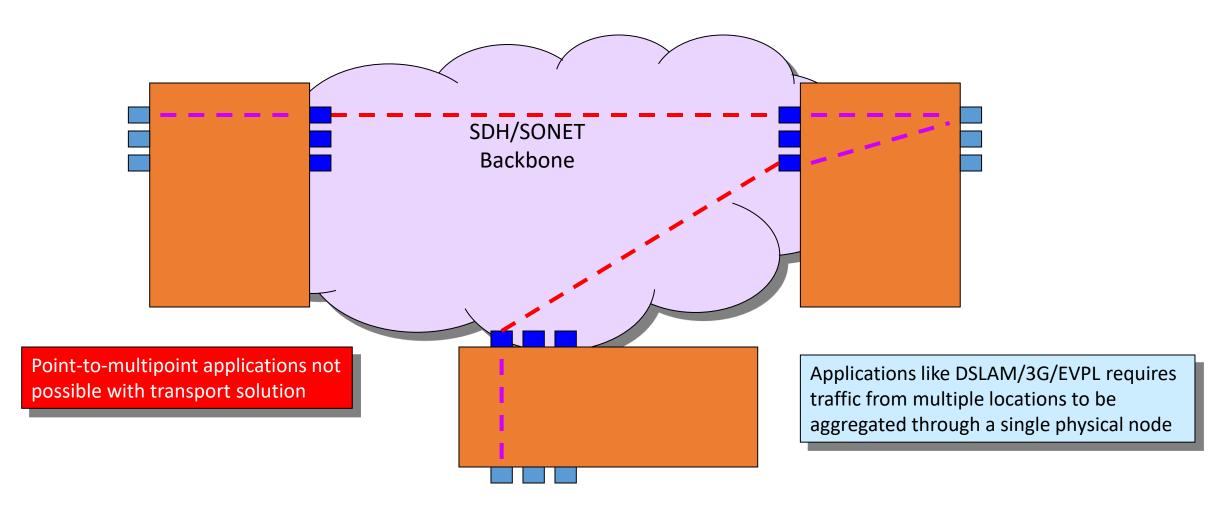






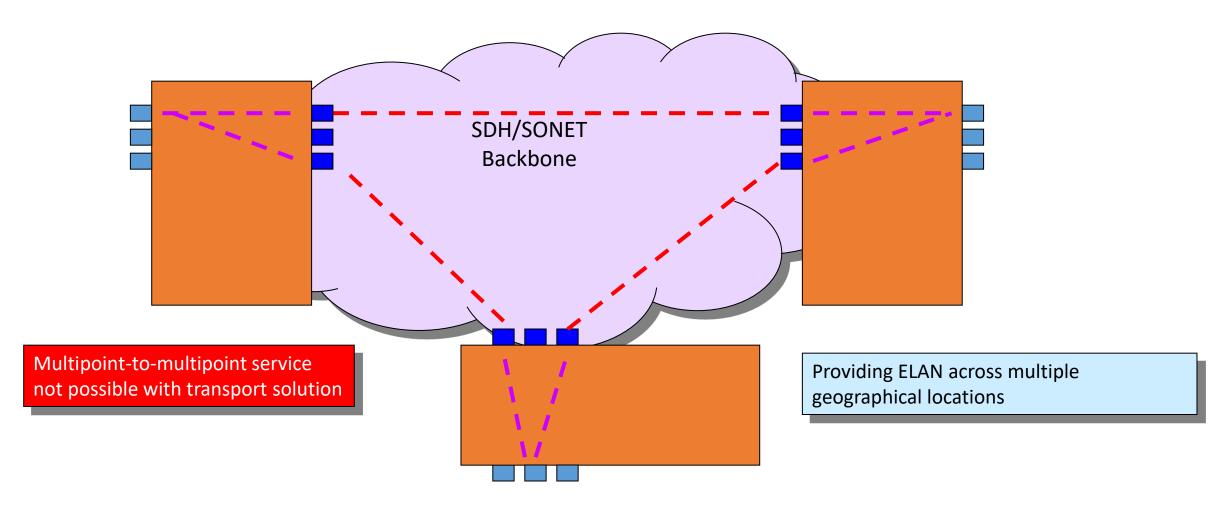
### Aggregation application









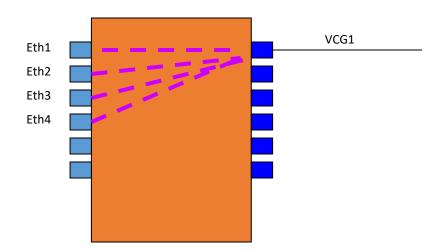


## Statistical Multiplexing



There is no allocation of bandwidth till total client bandwidth is more than service bandwidth.

Every client can use the same bandwidth at the same time.



Statistical Gain not possible with transport solution.

Also, Different clients cannot be separated.

Total bandwidth on the Ethernet ports is more than VCG bandwidth.

Bandwidth profiling is possible for Diffserv and CoS.

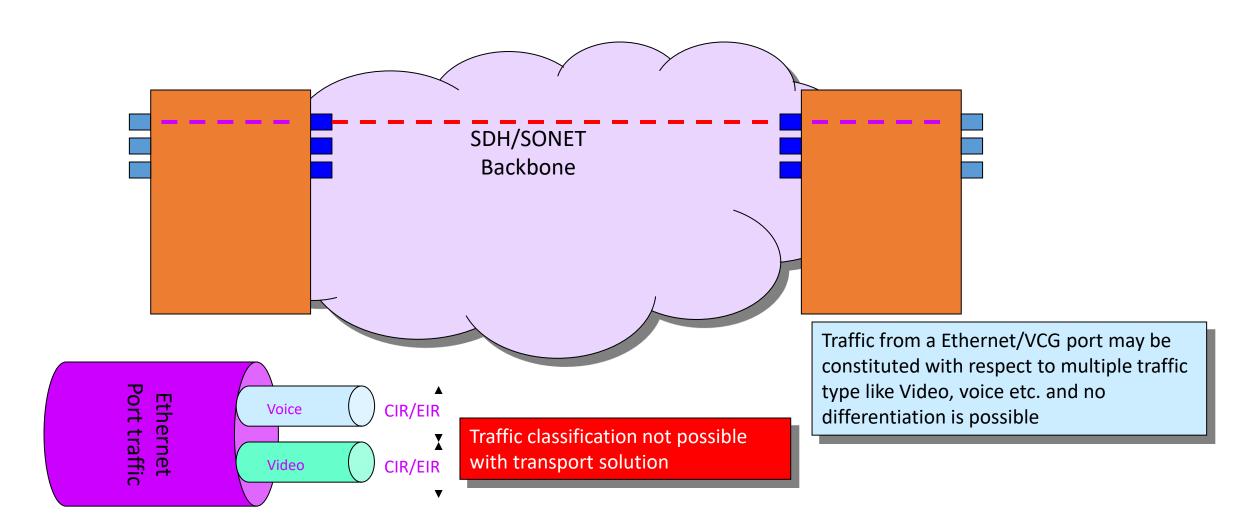
Also, minimum bandwidth requirements for different clients can be served by using WFQ.

With Statistical multiplexing, one can oversubscribe under the assumption, not all the clients will be active simultaneously. (Statistical Multiplexing gain)

The link sharing is adapted to the instantaneous traffic demands of the data streams that are transferred over each channel.

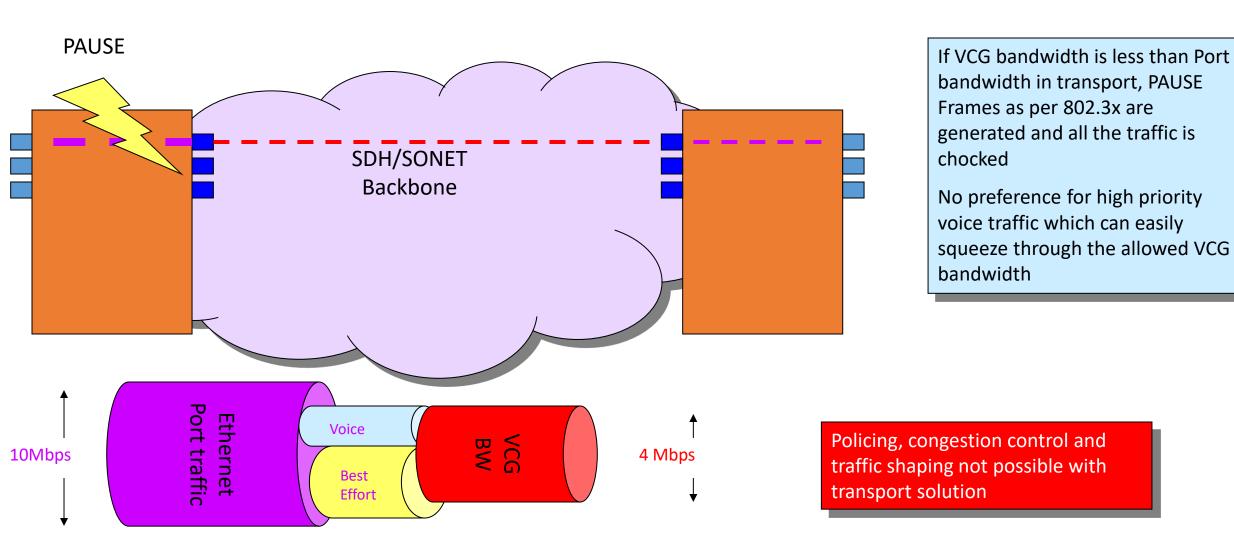






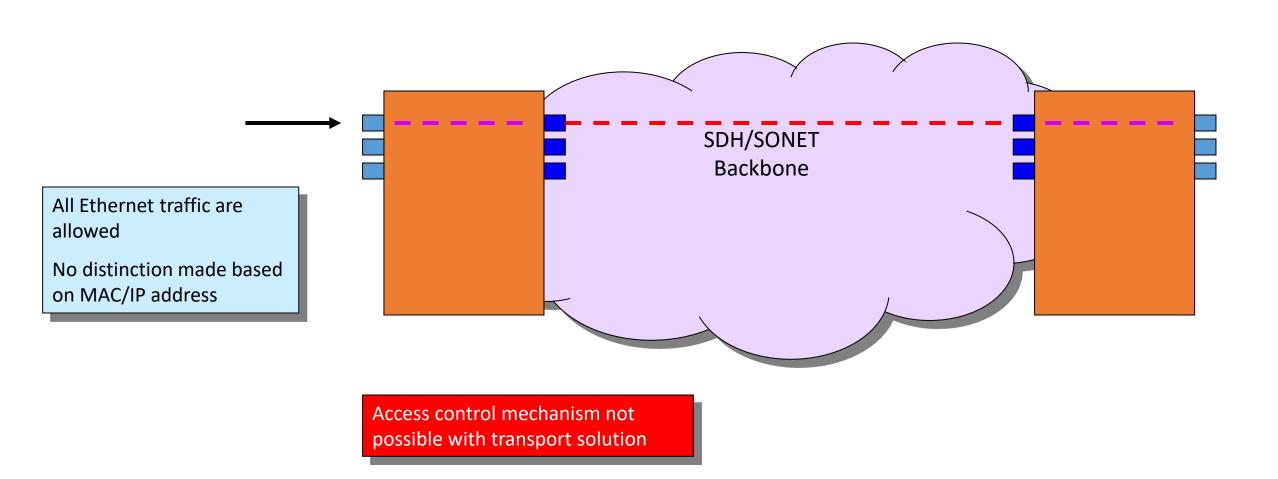






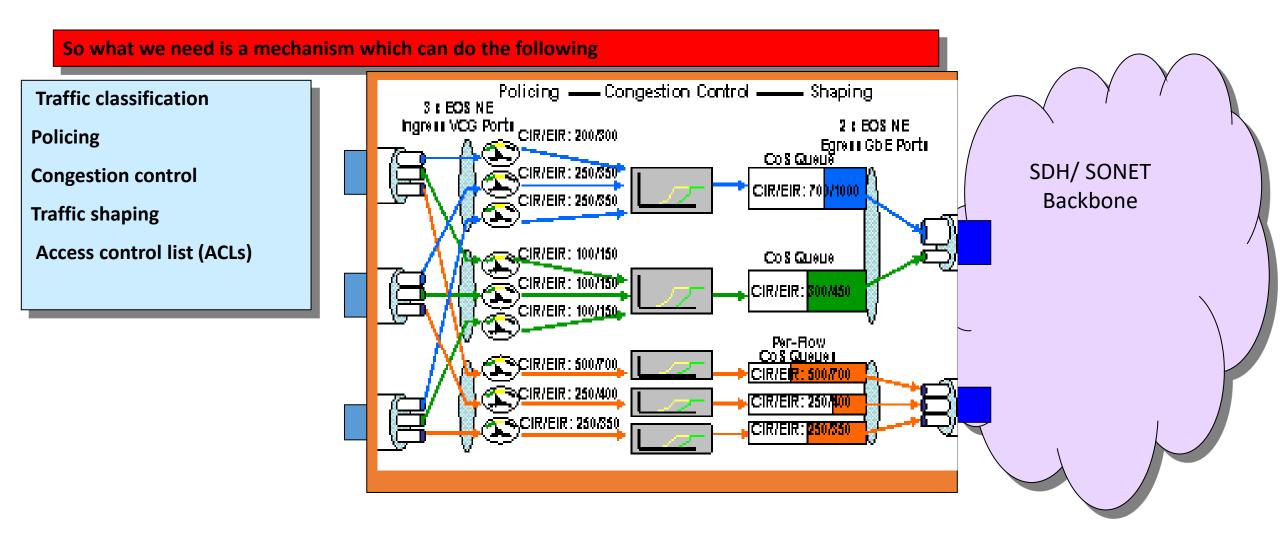




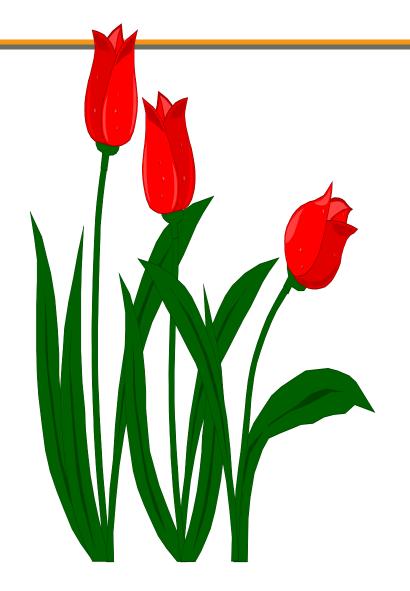


#### Conclusion









# Thank You...