

Answer on Question #47068, Engineering, Other

Task:

Why STDM can prevent from wasting time slot unlike TDM?

Answer:

In STDM, the time slot could be used by any so long one could distinguish a packet from others by session, by receiver address and data.

STDM is an advanced form of TDM and is the primary switching technique is use now. The drawback of the TDM process is that if a device is not currently transmitting, its time slot is left unused and is therefore wasted. In contrast, in STDM, carrying capacity is assigned dynamically. If a device is not transmitting, its time slot can be used by the other devices, speeding up their transmission. In other words, a time slot is assigned to a device only if it has information to send. STDM eliminates wasted carrying capacity.

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