Material Supporting 802.1AB-REV comment regarding Management VID
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DCN essential in SONET/SDH Transport

- NE attached to OSS via Data Communications Network (DCN)
- Key advantage: No need for N distinct P2P channels to GW

Supports these OAMP functions

- Eliminate P2P Channel between each NE and GW-NE (IP or OSI routing at intermediate NEs).
DCN similarly required for PBB-TE, and useful also for PB and PBB

- DCN VLAN protocol *already* available in bridge
  - introduce ‘consistent’ VID value
- No need for IP or OSI forwarding stack
  - except in GW Bridge(s)
  - but still need IP or OSI *host* stack in all bridges
  - this is proposed as an *option*
DCN: Routed or VLAN-based?

- VLAN-based DCN avoids overhead of router path
- Requires consistency of VID assignment

Red DCN VLAN terminated by routing function at each bridge; no need for VID consistency
Blue DCN VLAN spans Bridged LAN; VID consistency required