Satellite Network
Topology and Network Management

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Typical Networks

- Point to Point/Point to Multi-point
- Switched (BOD)
- TDMA
- Hybrid
PT to PT / PT to Multi-point

- Star Network
- partitioned outbound
- dedicated inbound
- no direct user to user
- permanent connections
Switched (BOD)

- Mesh Network
- connections made as required
- online traffic require dedicated connections
- well suited to VC applications
- resource pool is shared among all users or by partition
- Mesh Network
- connections made as required
- well suited to bursty traffic
- network sized with demand
- resource pool is shared among all users or in partition
- IP acceleration
Hybrid — Mesh/Star

- Mesh for community to community traffic
- V/C, QOS, etc
- Capacity dedicated and shared
- BOD or TDMA

- Star for internet traffic
- Hub to/from multiple communities
- Capacity dedicated and shared
- Star TDMA
- IP Acceleration
Examples

- BOD Mesh, 64k to 2048k fixed or BOD
- SOHO Star, 2M / 2M (ku R&D)
- Schoolnet Star, 16M / 2M (ku R&D)
- HSI Service Star, 500k / 153 (ku)