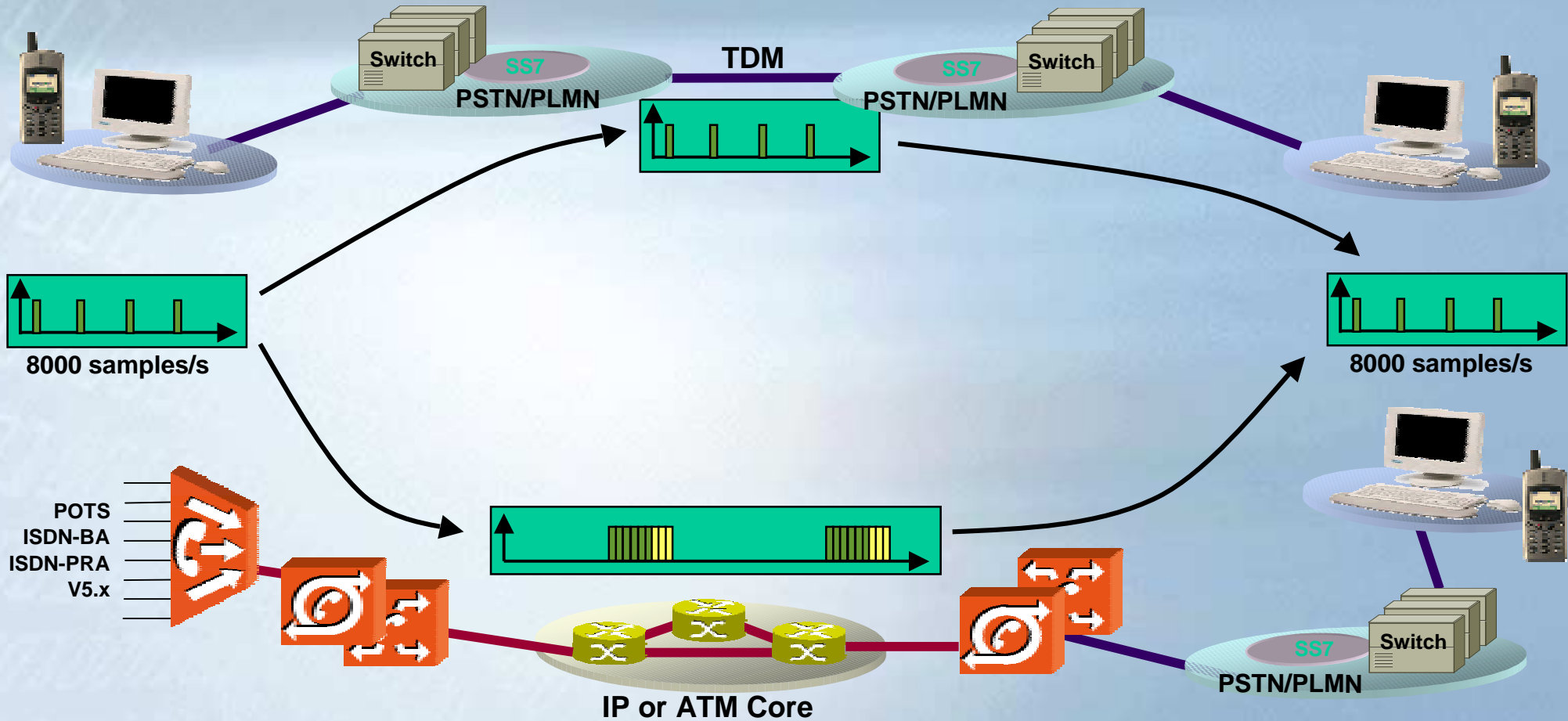


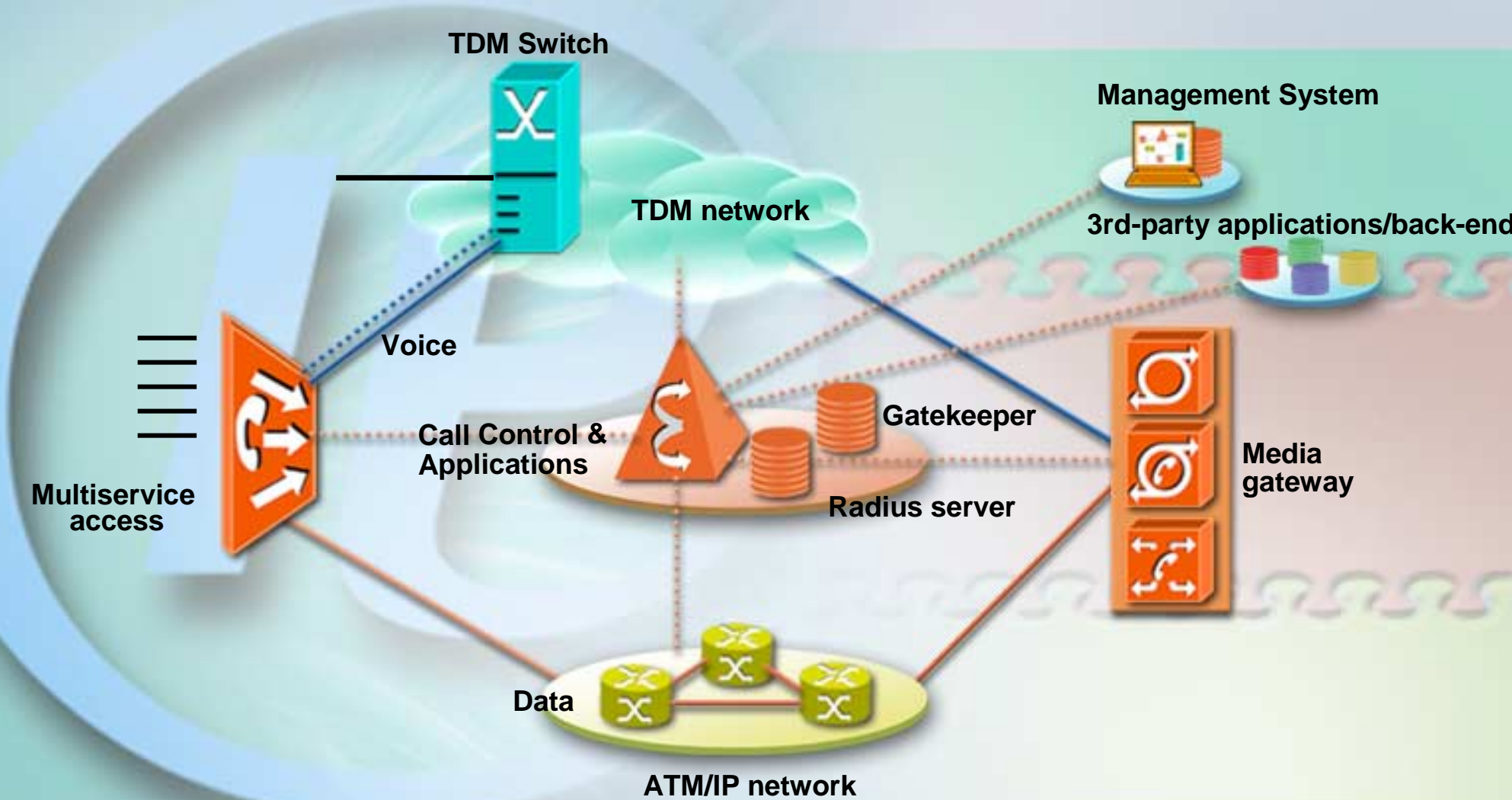
IP Telephony Introduction

Dr. Helmut Schink
VP Network Technology Strategy
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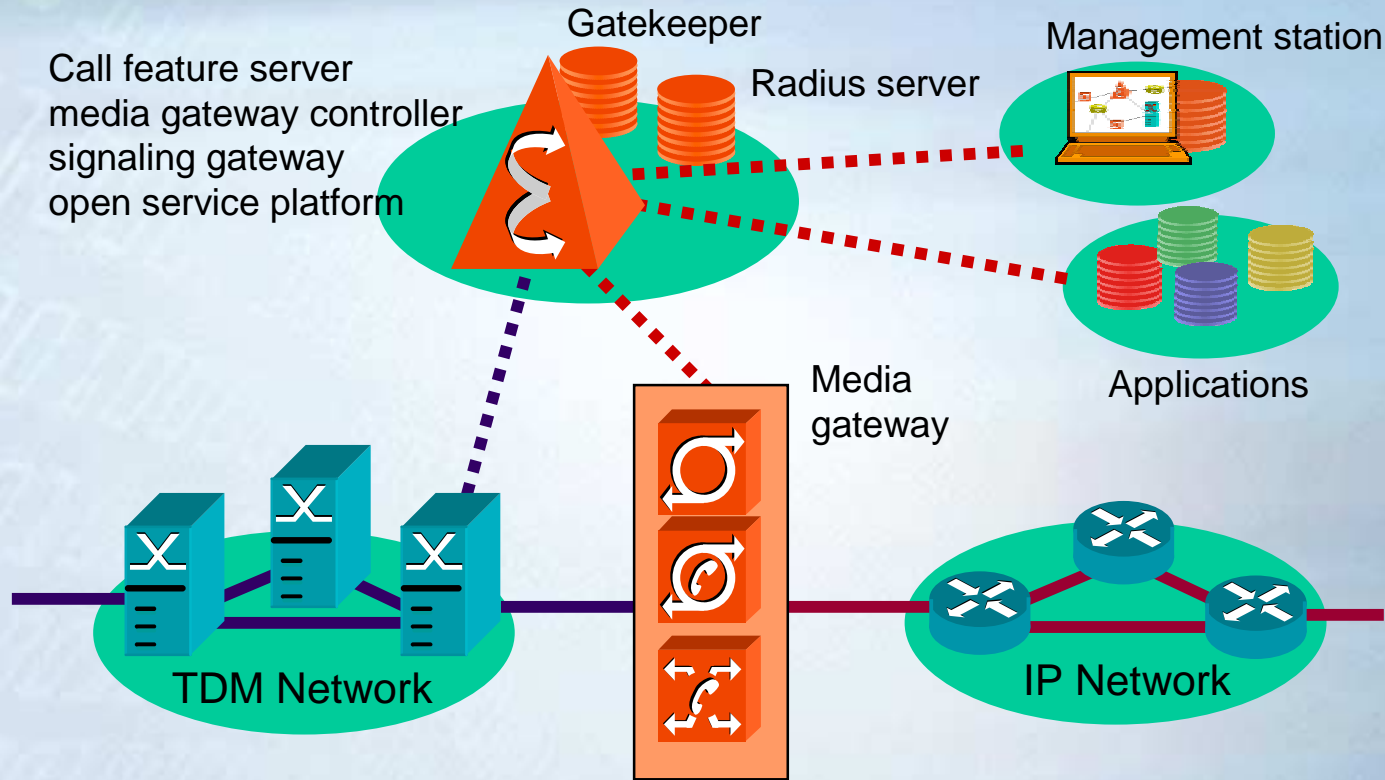
Voice Transport: Circuit- vs. Packet-Switched



Basic Elements for IP Telephony

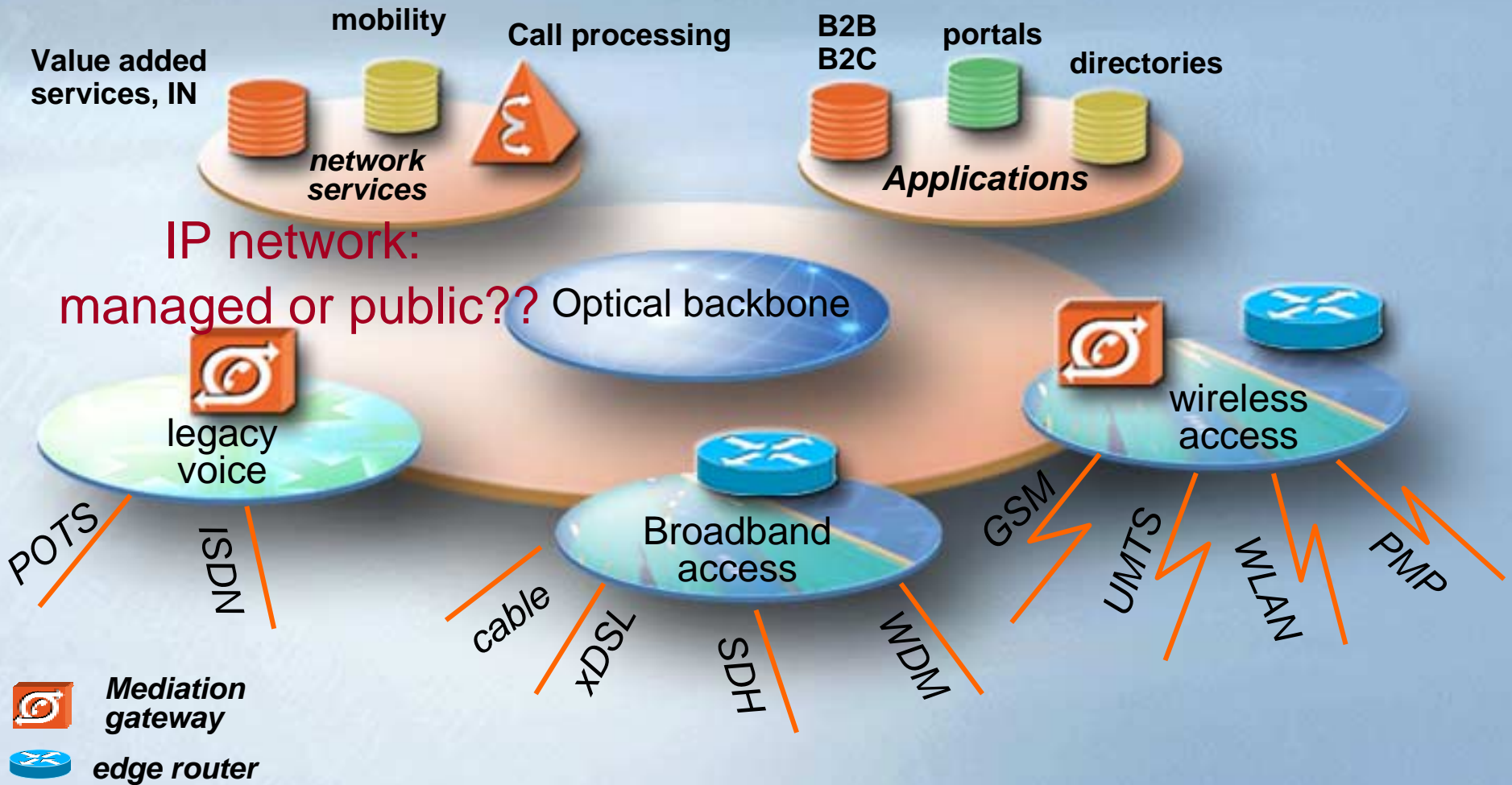


Interconnection

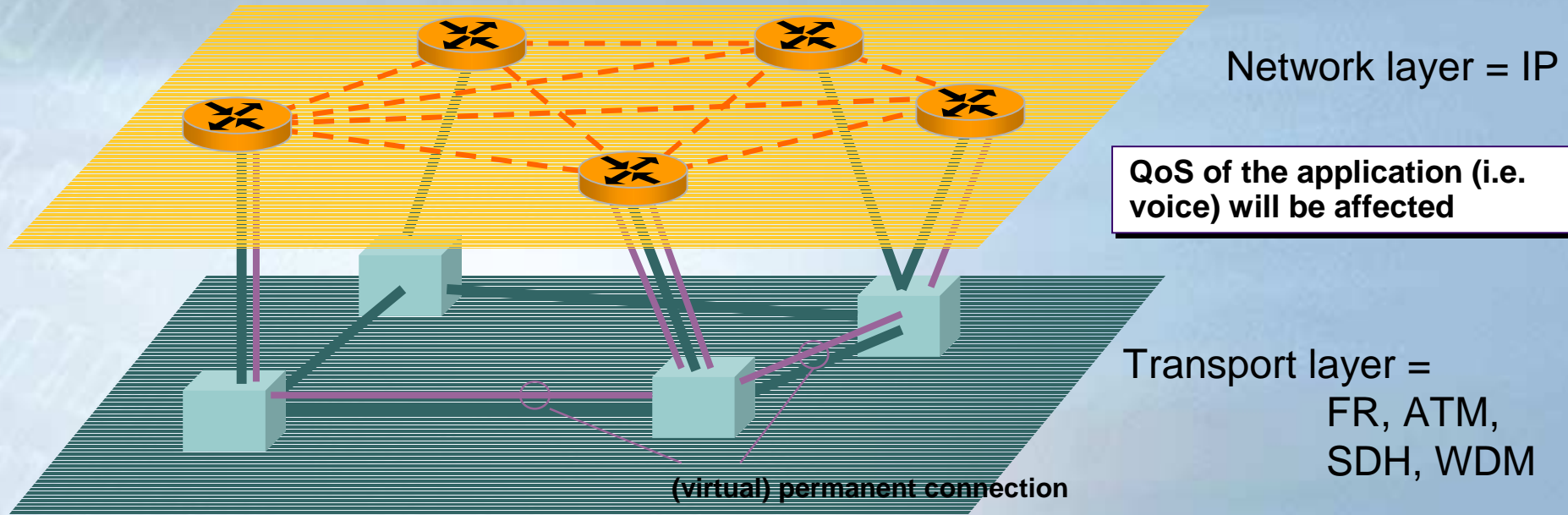


- Media gateways interconnect TDM and IP networks and provide the conversion of media streams.
- Service convergence is realized with centralized feature and signaling interworking between networks.
- Media-control is decoupled from media transport, giving a carrier the choice regarding the underlying transport technology.

Generic Network Structure



Current IP Network Architecture



Quality-/Class-of-Service

- Traffic engineering / traffic management
- Differentiating services
- SLA support / monitoring
- Reliability

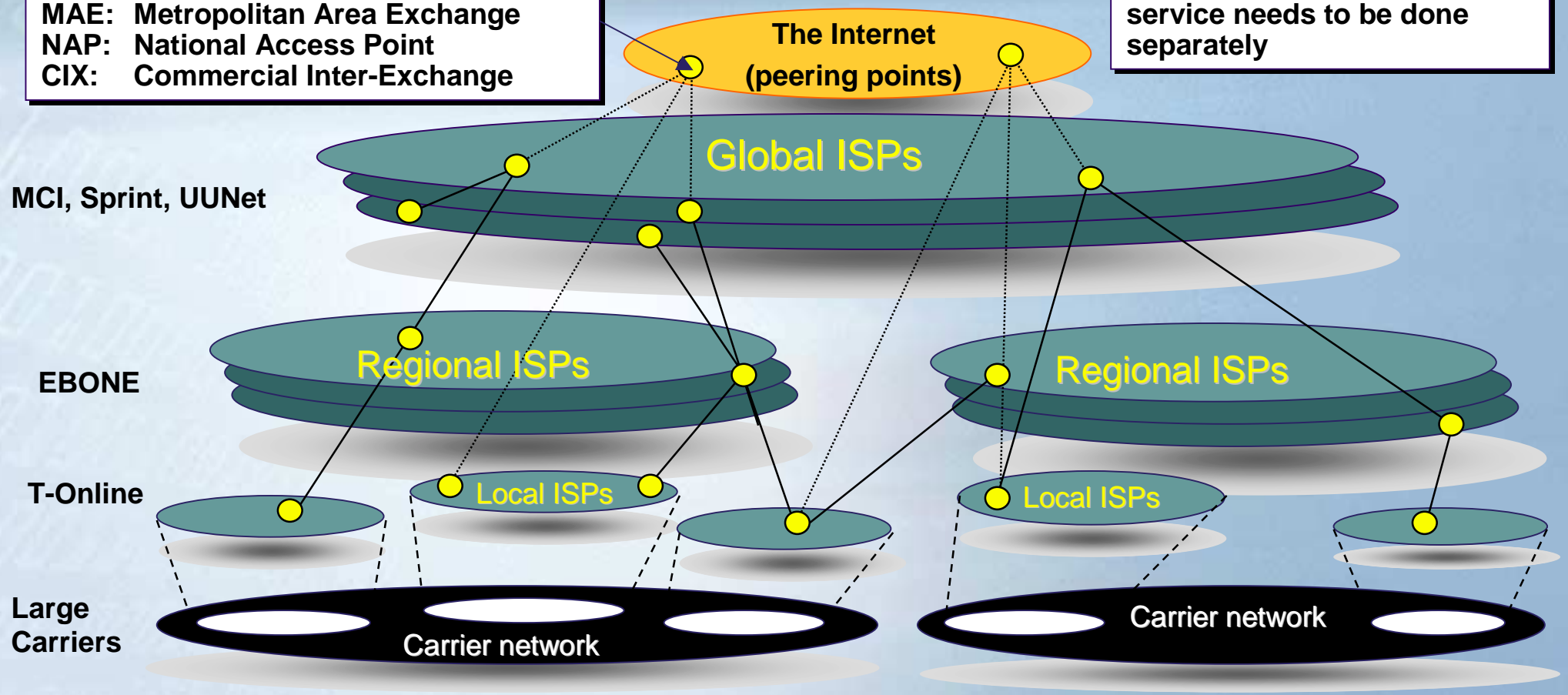
Growth-Challenges

- Number of neighbors (PVCs)
- Size of routing tables
- Throughput
- Router hop-count

Internet: principle configuration

Peering Points:
MAE: Metropolitan Area Exchange
NAP: National Access Point
CIX: Commercial Inter-Exchange

Billing/Settlement of the service needs to be done separately



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