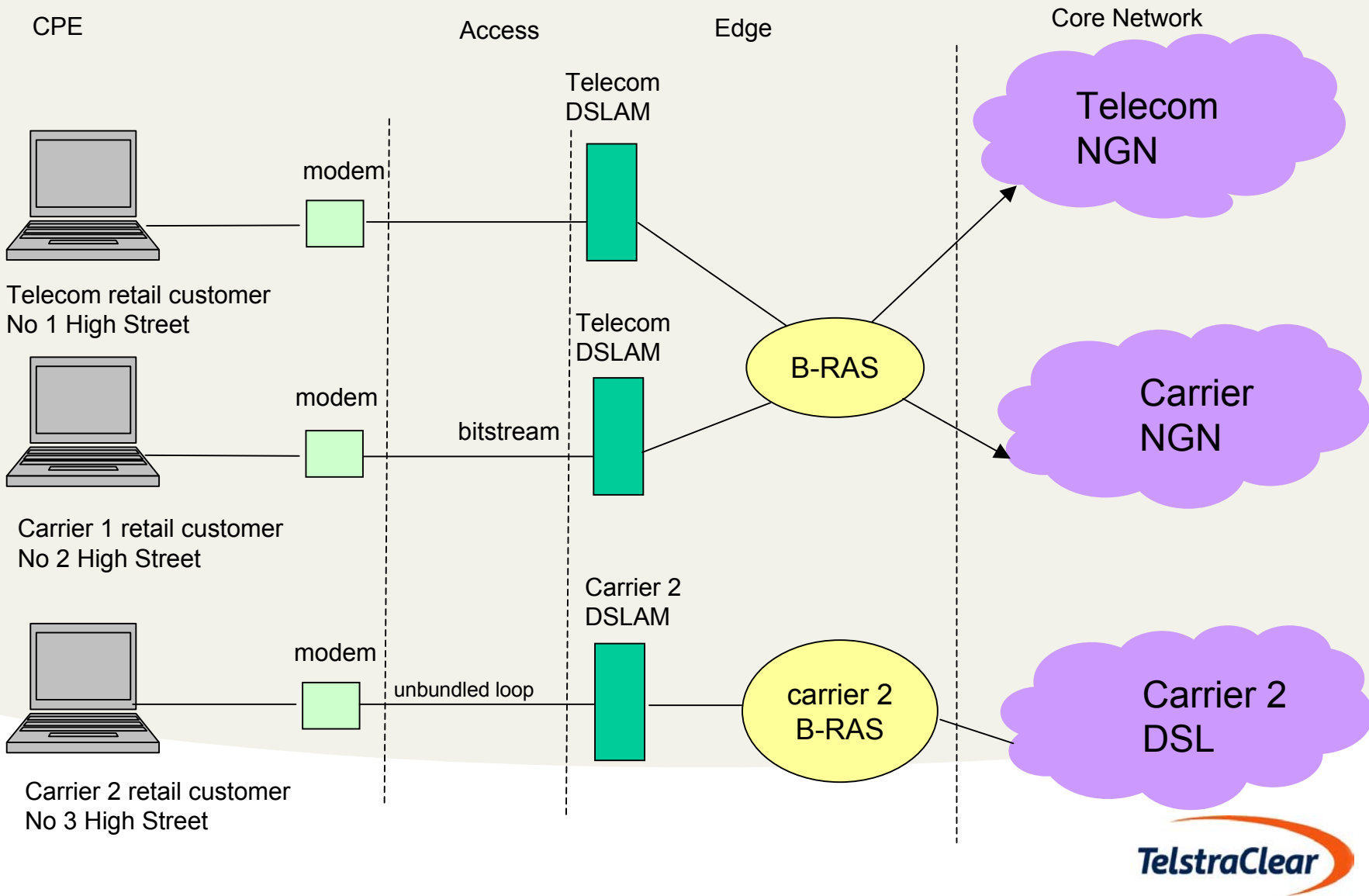


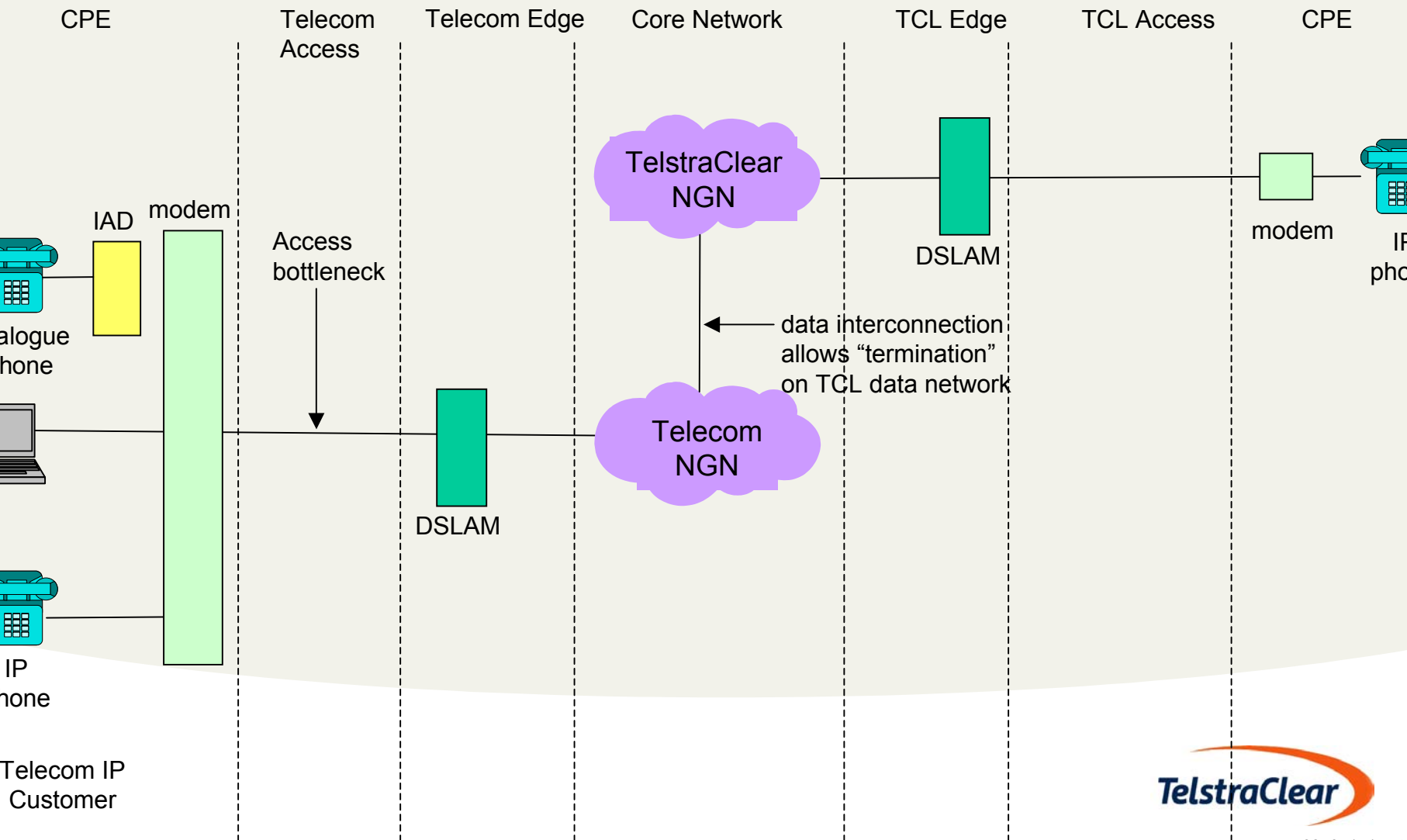
Telecom has Confused Basic Principles

- Access layer is severable from the higher layers of NGN:
 - multiple NGNs can “sit” on the incumbent’s access network (using LLU or bitstream)
- Interconnection does not solve the “access gap”
 - Telecom’s model still assumes two vertically integrated networks directly connecting end users “talking” to each other

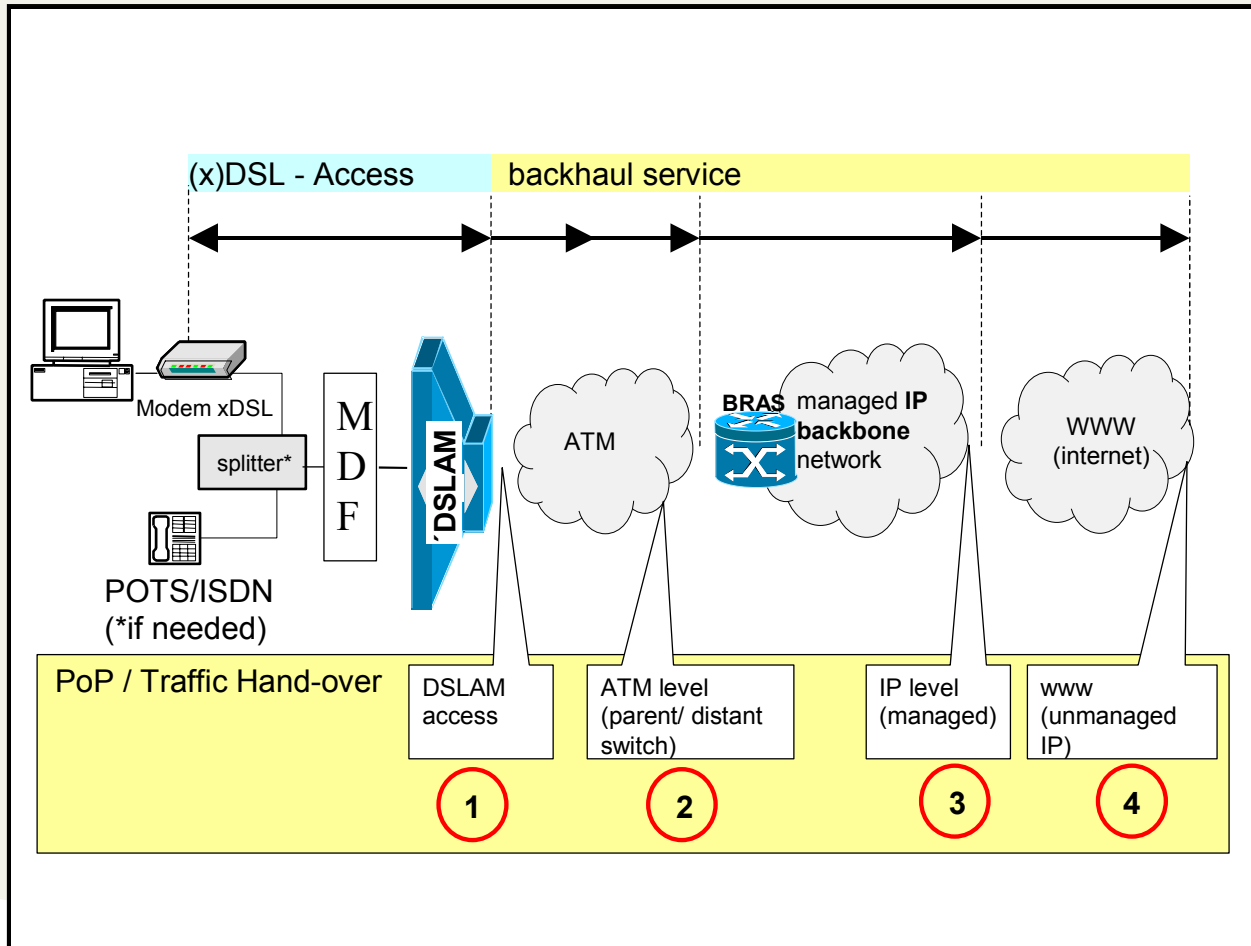
Multiple NGNs on Single Access



Access is Different to Interconnection



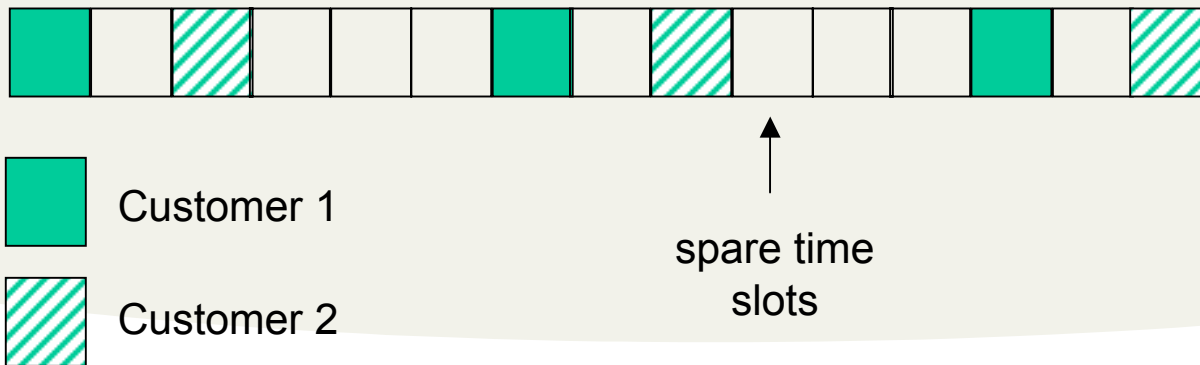
Resale vs Bitstream



TDM based Tails

Time Division Multiplexing:

- customer is allocated a time slot at a recurring fixed interval, whether uses or not;
- no contention - committed bit rate;



TDM (cont'd)

- packets of fixed width and fixed intervals;
- access seeker pays for unused time slots on a tail provided using TDM;
- hence high relative cost, but high quality.

TDM vs Packet Switched (cont'd)

- packets can be of variable width and intervals;
- can get QoS by packet prioritisation in the header;
- more efficient use of capacity;
- access seeker pays for lower price, but quality is lower;
- bitstream provides more cost effective “tail” to serve SMEs.