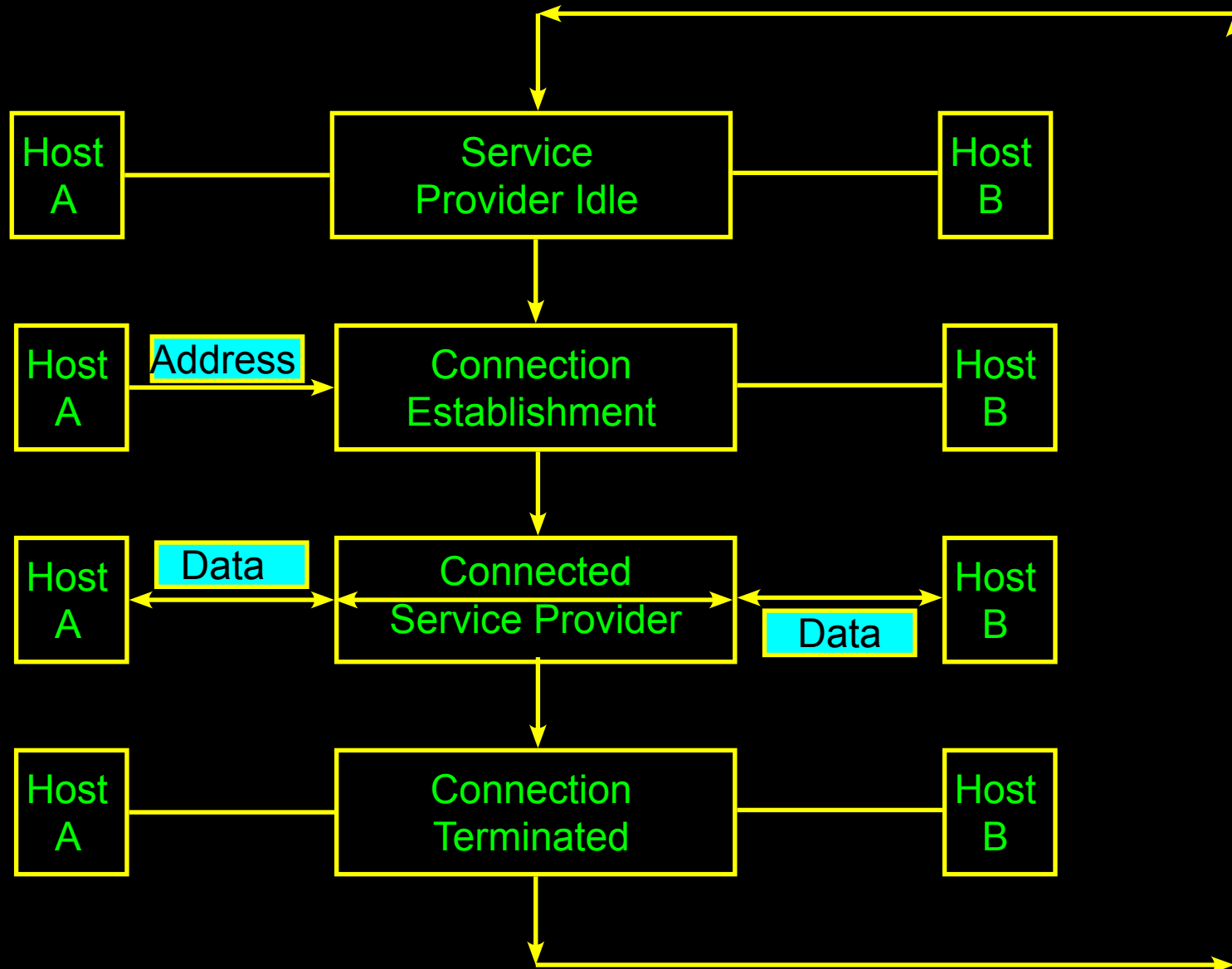
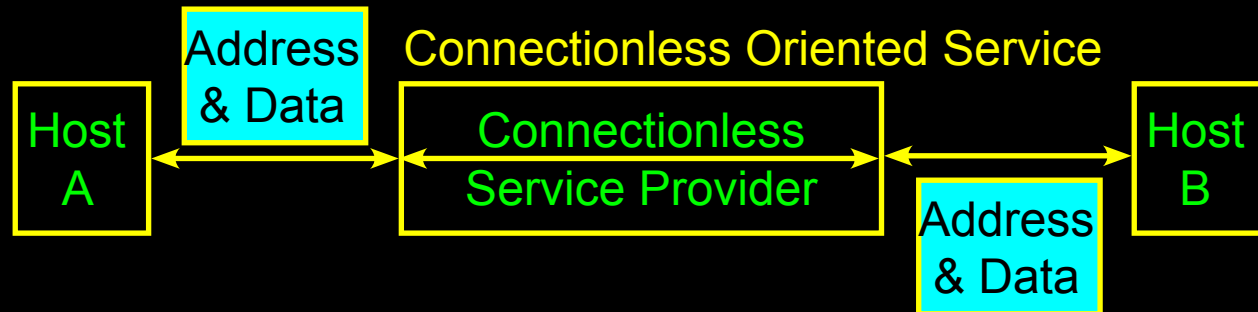


Connection Oriented Service



Connectionless Oriented Service



Attributes of connection oriented services:

1. Session establishment
2. Data transfer w/o source & destination addresses
3. Session shutdown
4. Source has pre-existing knowledge that destination exists and is prepared to receive

Attributes of connectionless oriented services:

1. No session establishment
2. Data transfer with source & destination addresses
3. No session shutdown
4. Source does not have any pre-existing knowledge that destination exists or is prepared to receive

Is message segmentation by the sender, and segment re-assembly by the receiver a function of connection oriented services?

Is message segmentation by the sender, and segment re-assembly by the receiver a function of connection oriented services?

No. Message segmentation and re-assembly is a function of the protocol which may be either connection oriented or connectionless oriented.

Is message segmentation by the sender, and segment re-assembly by the receiver a function of connection oriented services?

No. Message segmentation and re-assembly is a function of the protocol which may be either connection oriented or connectionless oriented.

Is message sequencing a function of connection oriented services?

Is message segmentation by the sender, and segment re-assembly by the receiver a function of connection oriented services?

No. Message segmentation and re-assembly is a function of the protocol which may be either connection oriented or connectionless oriented.

Is message sequencing a function of connection oriented services?

No. Message sequencing is a function of the protocol which may be either connection oriented or connectionless oriented.

Layer-by-Layer Connectivity Orientations Typical Examples

Application Layer Connectivity	DNS: Connectionless Oriented FTP: Connection Oriented
Transport Layer Connectivity	UDP: Connectionless Oriented TCP: Connection Oriented
Network Layer Connectivity	IP: Connectionless Oriented MPLS: Connection Oriented
LLC 8802.2 Sublayer Connectivity	Nonswitched services: Connectionless Oriented Switched services: Connection Oriented
MAC Sublayer Connectivity	MAC standard dependent, usually connectionless oriented such as Ethernet 802.3
Physical Layer Connectivity	Hubbed: Connectionless Oriented Non-hubbed: Connection Oriented