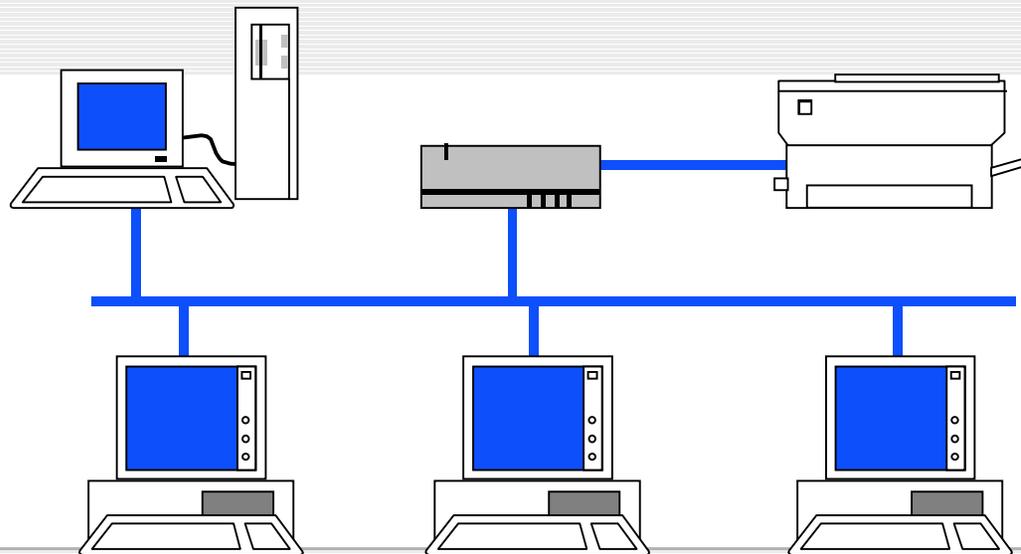


Redes de Computadores

Capa de Red



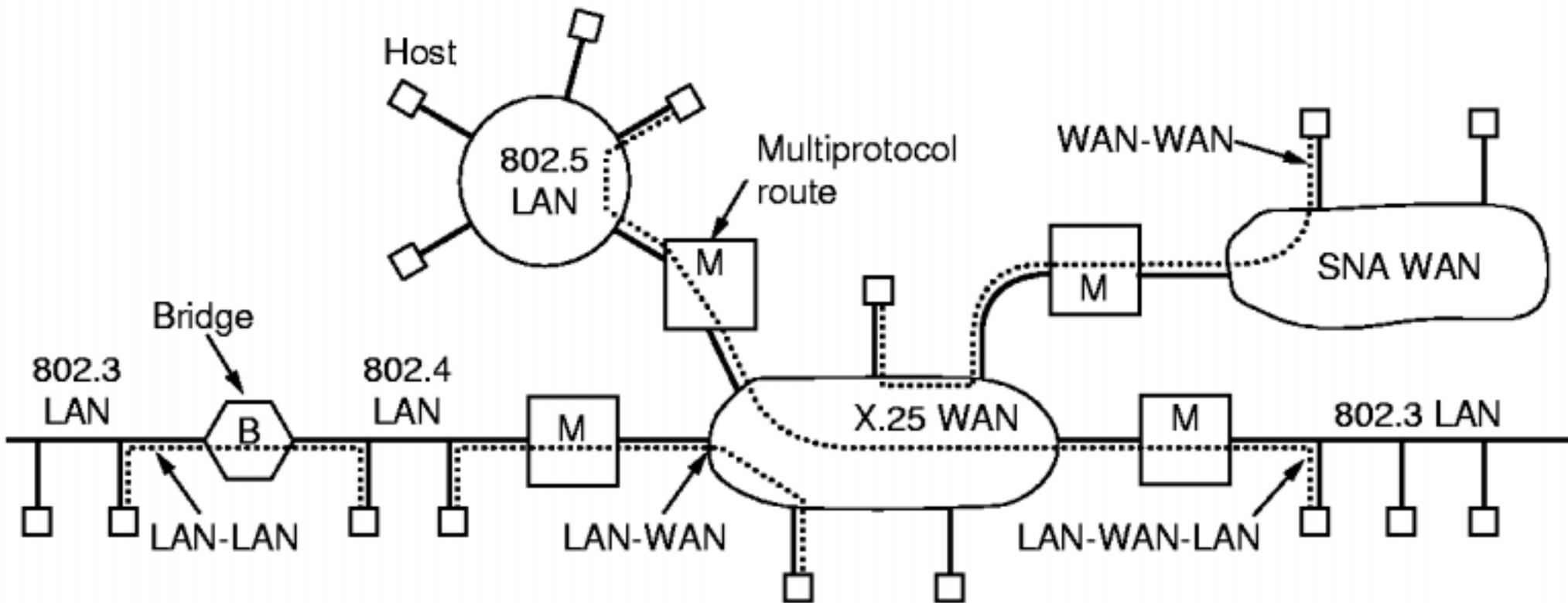


Inter Redes

- Interconexión LAN-WAN
- Diferencias entre Redes
- Fragmentación
- Cortafuegos (Firewall)



Interconexión LAN-WAN



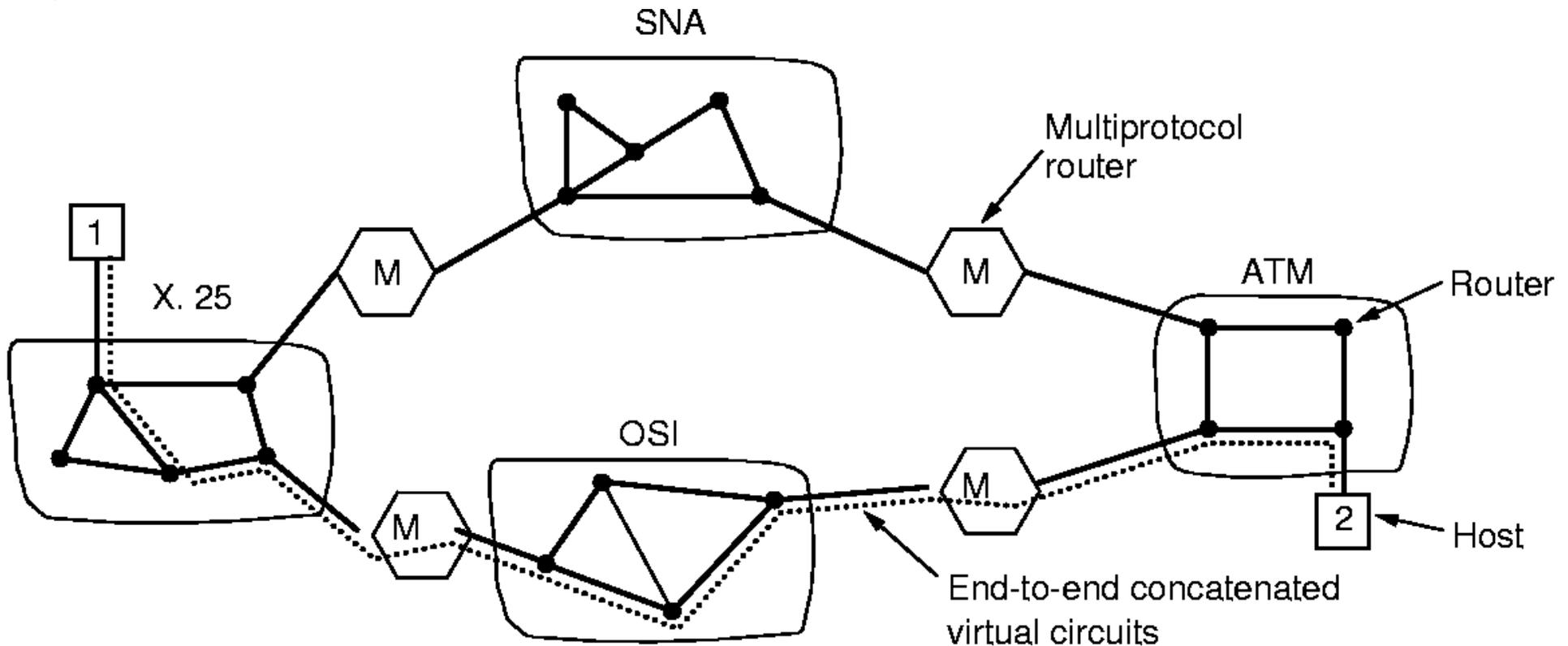


Diferencias entre Redes

Item	Some Possibilities
Service offered	Connection-oriented versus connectionless
Protocols	IP, IPX, CLNP, AppleTalk, DECnet, etc.
Addressing	Flat (802) versus hierarchical (IP)
Multicasting	Present or absent (also broadcasting)
Packet size	Every network has its own maximum
Quality of service	May be present or absent; many different kinds
Error handling	Reliable, ordered, and unordered delivery
Flow control	Sliding window, rate control, other, or none
Congestion control	Leaky bucket, choke packets, etc.
Security	Privacy rules, encryption, etc.
Parameters	Different timeouts, flow specifications, etc.
Accounting	By connect time, by packet, by byte, or not at all

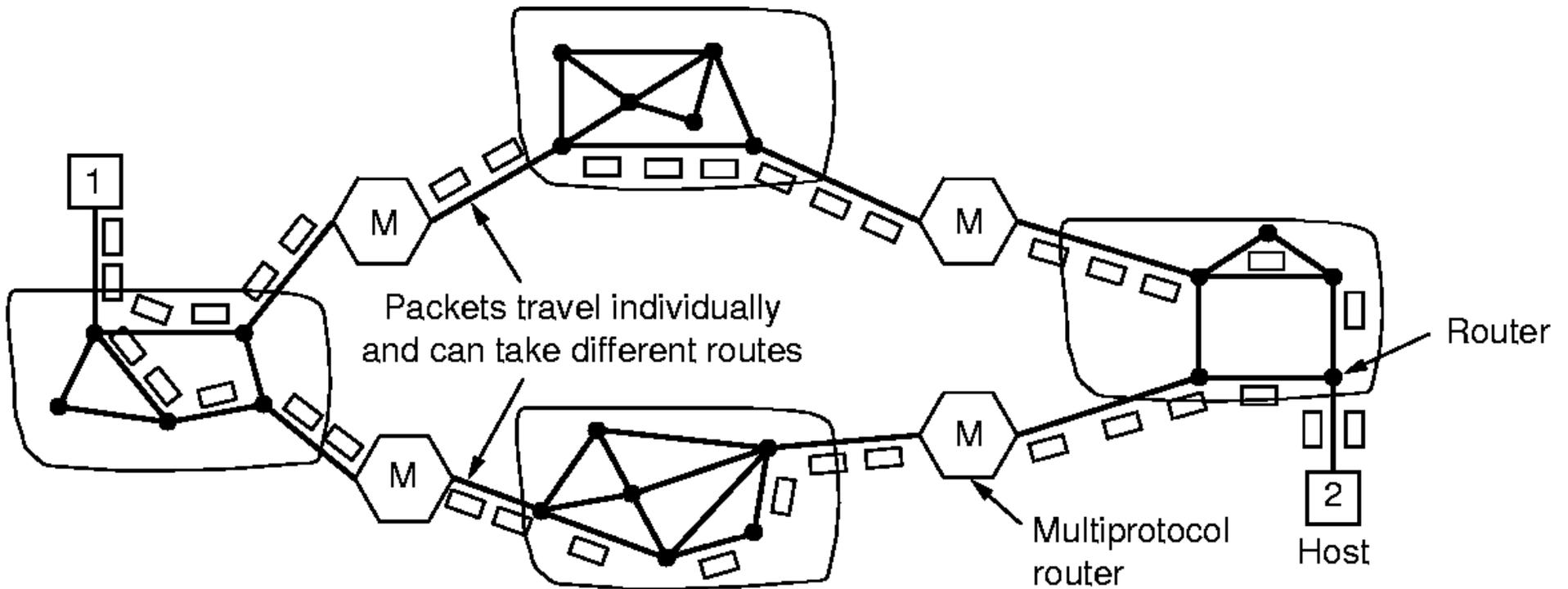


Redes diferentes con Circuitos Virtuales Concatenados





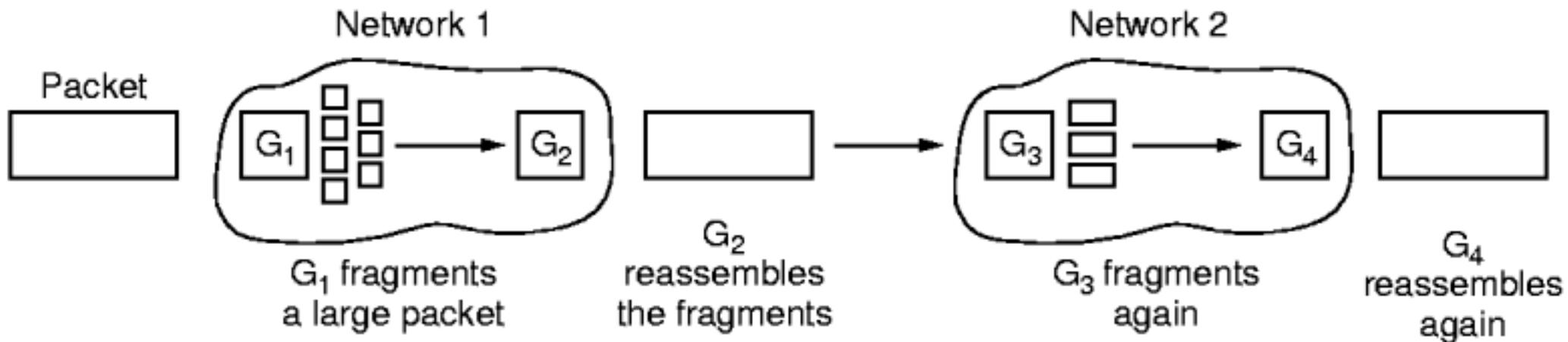
Redes sin “Conexión” (Paquetes)



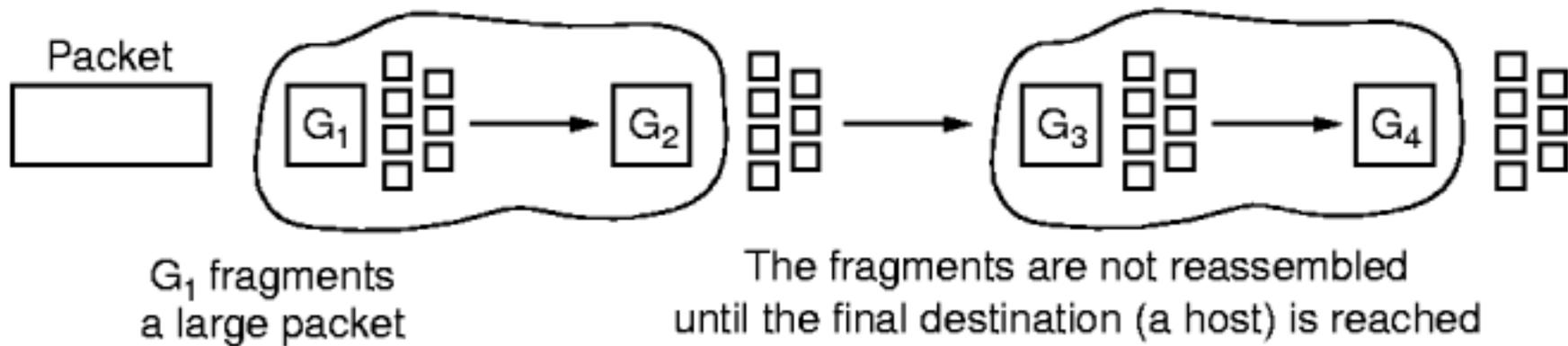


Fragmentación

Fragmentación Transparente y No-Transparente



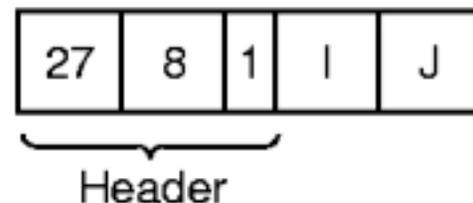
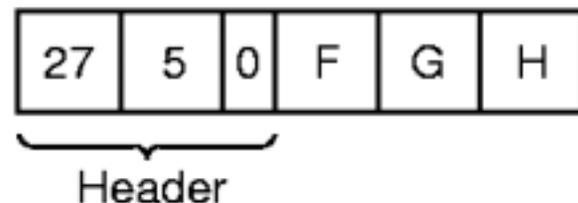
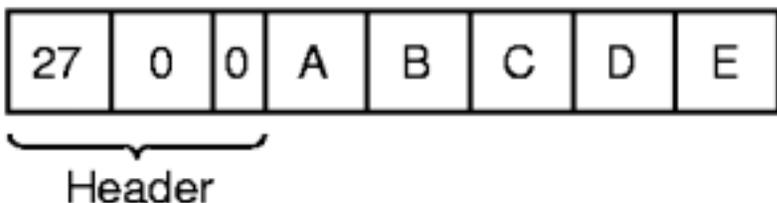
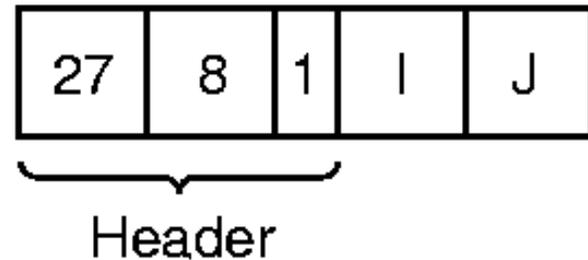
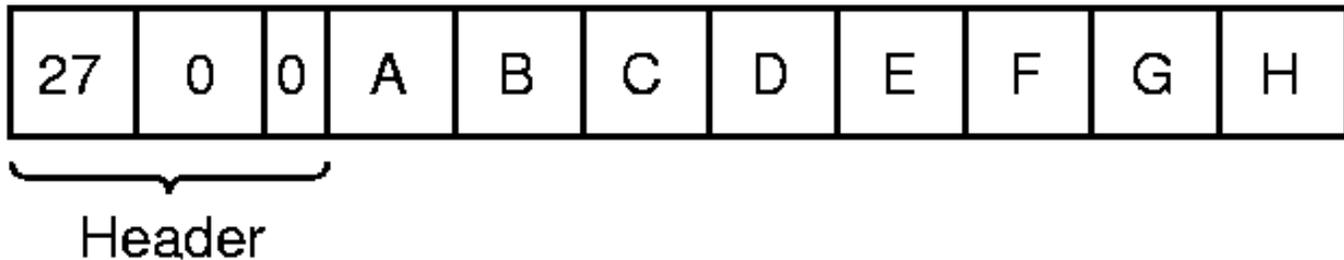
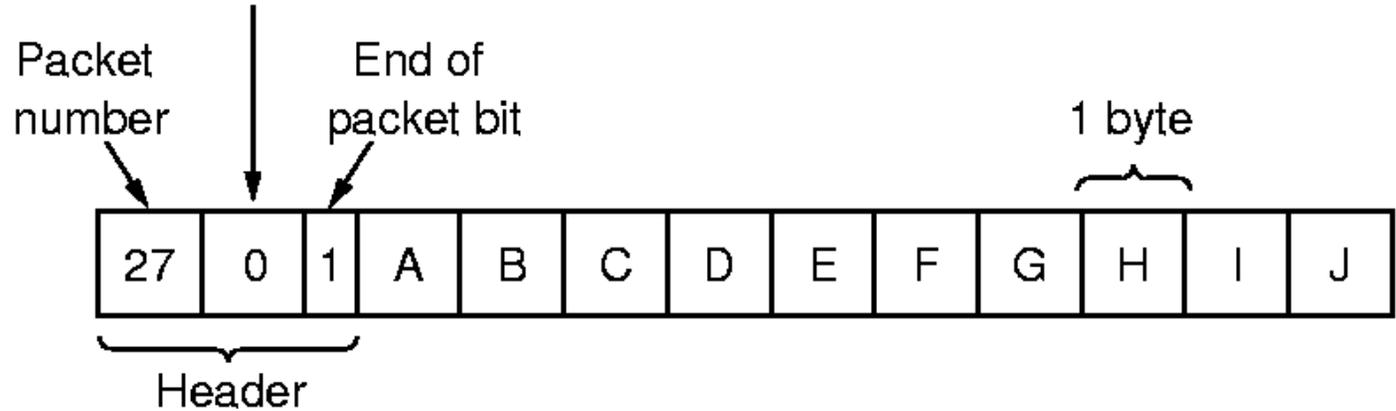
(a)





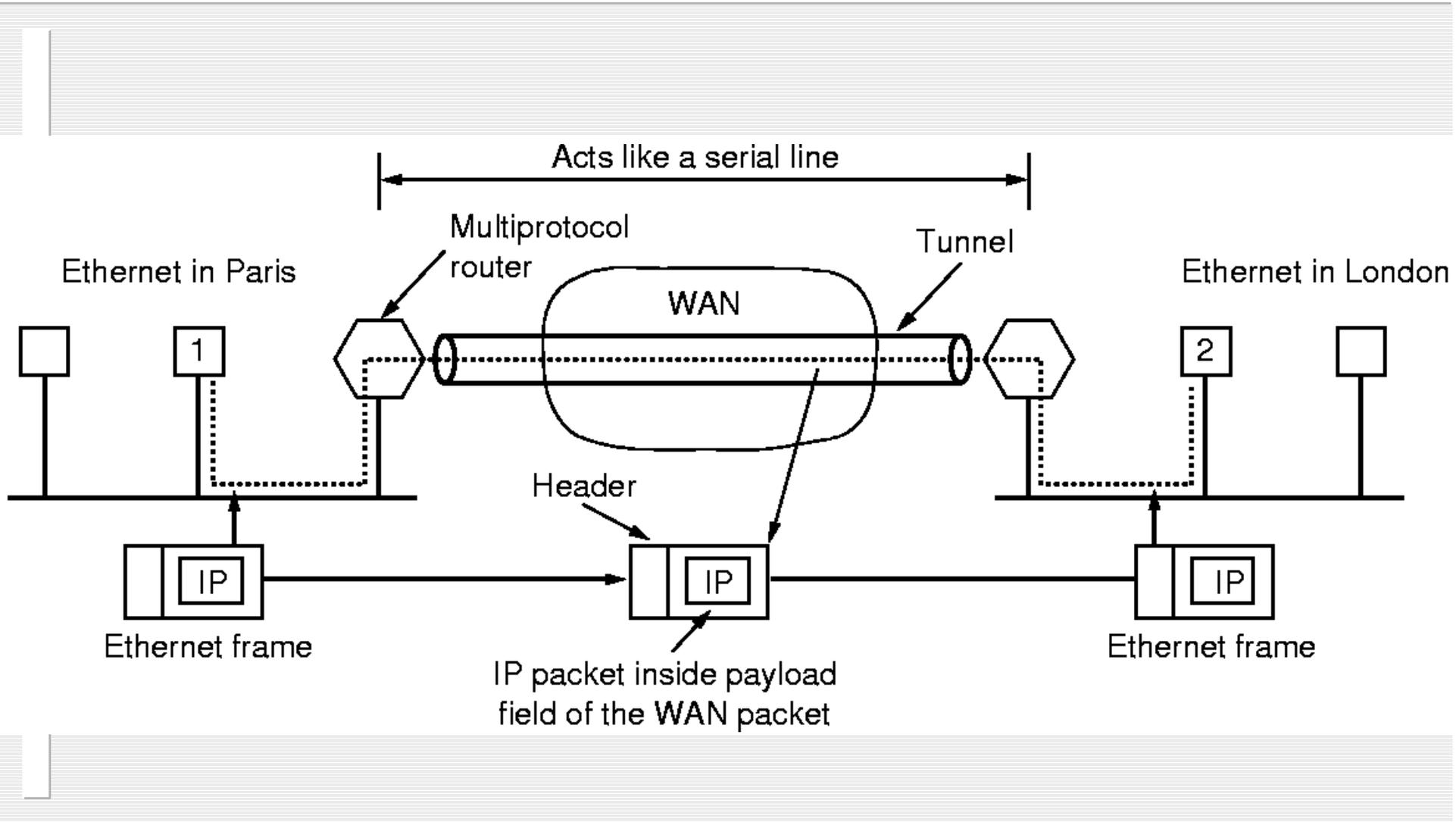
Fragmentación

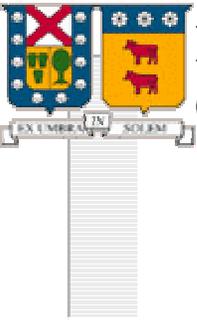
Number of the first elementary fragment in this packet



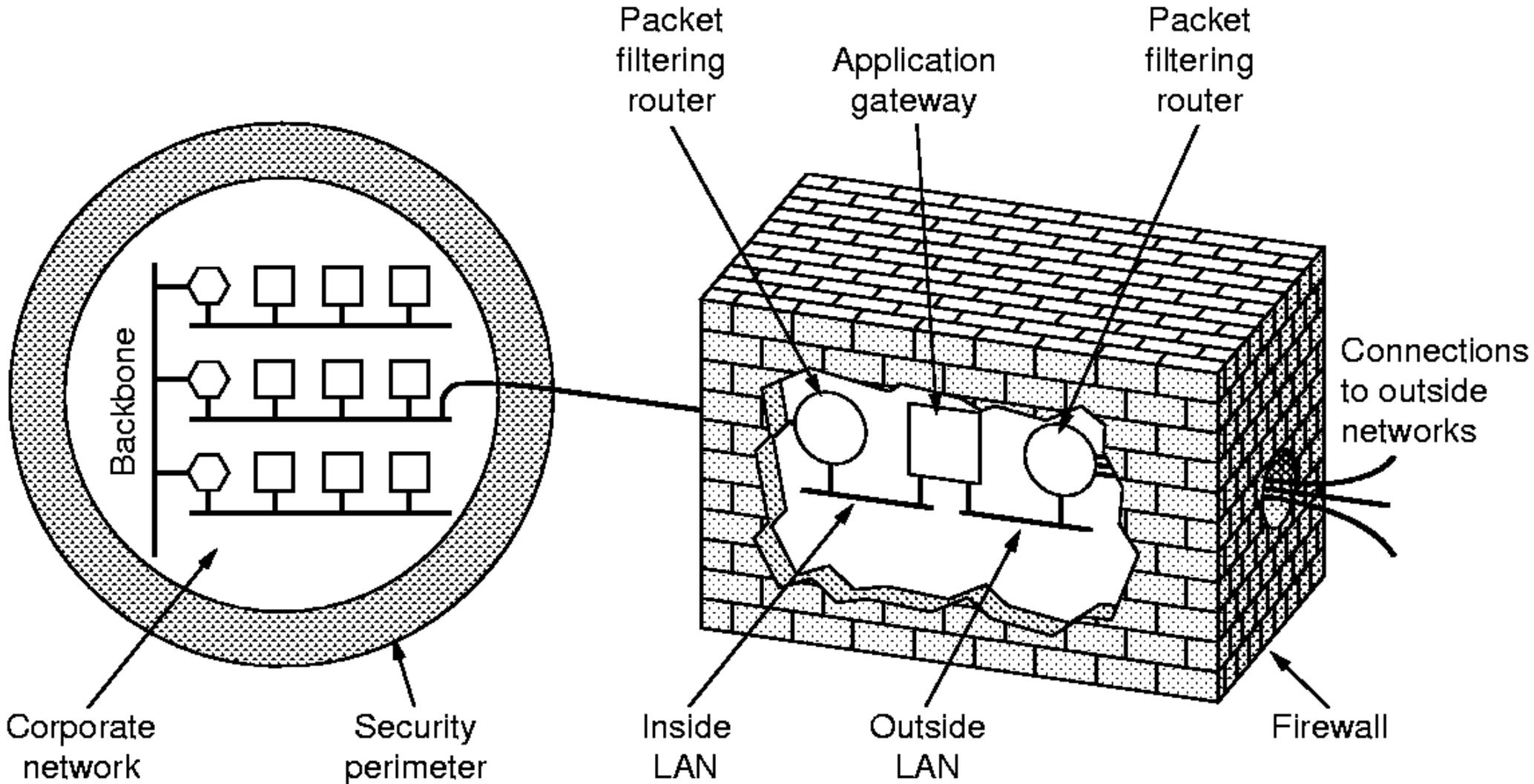


Tunneling

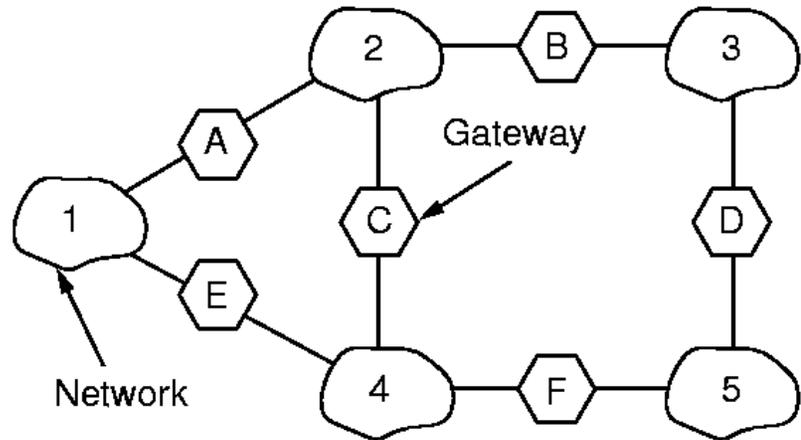




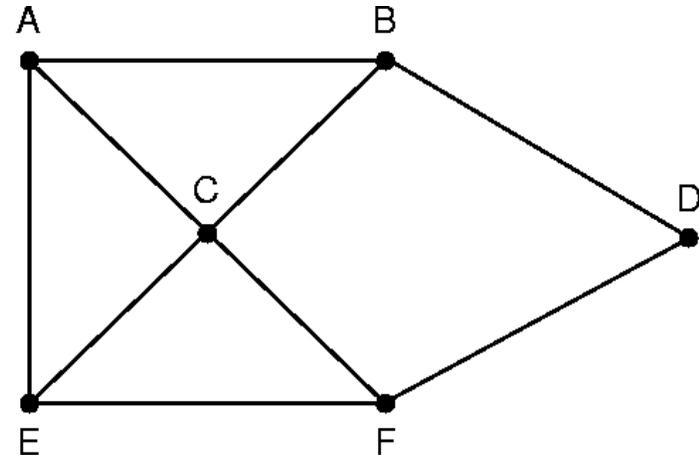
Cortafuegos (Firewall)



Ruteamiento entre “Redes”



(a)



(b)

Cada Red realiza un ruteamiento independiente de la forma en que se rutea en el exterior de ella, por ende son denominadas **Autonomous Systems (AS)**

Ruteo al interior se llama **Interior Gateway Protocol**

Ruteo entre las “Redes” se llama **Exterior Gateway Protocol**