

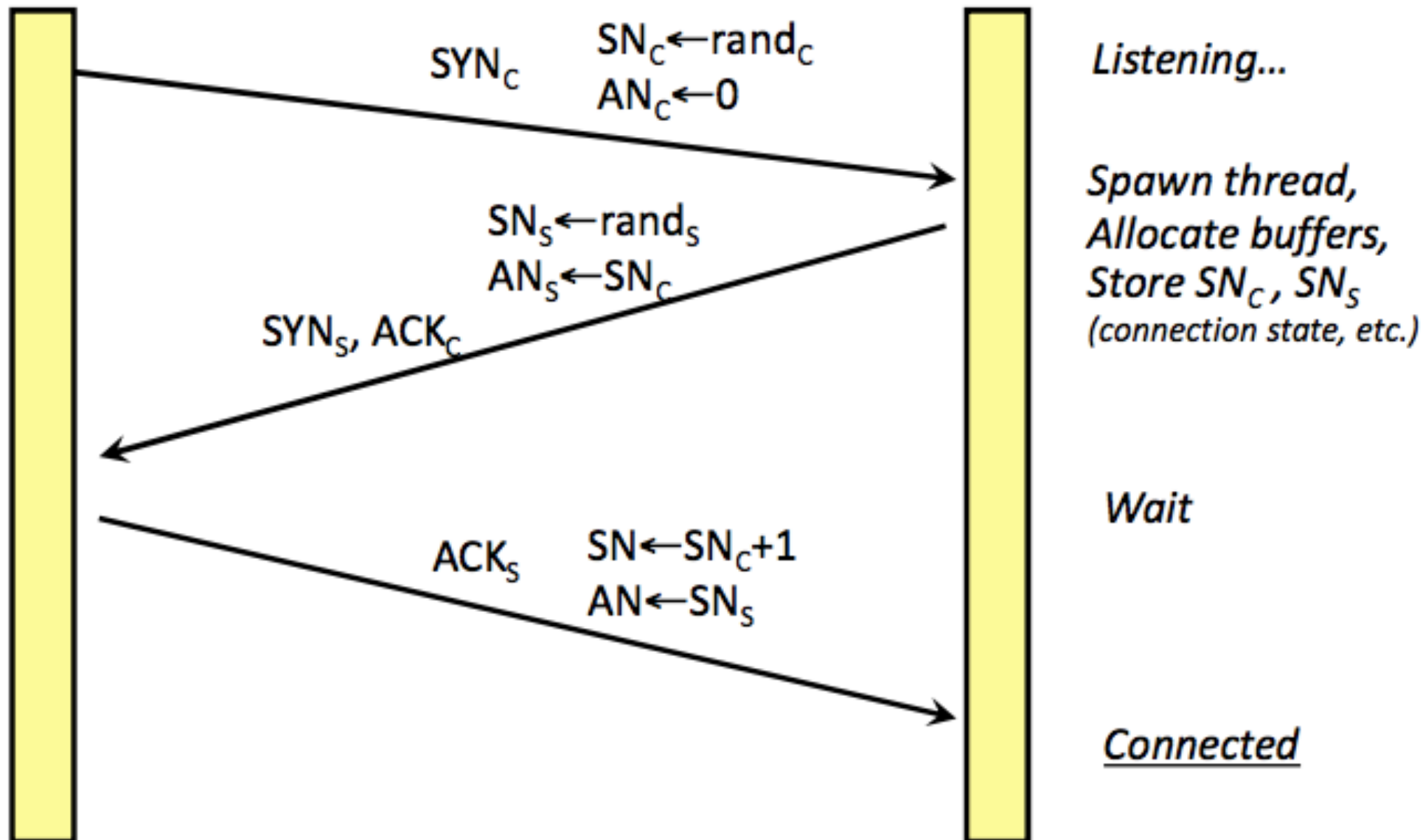
TCP - Transmission Control Protocol

- The sender divides data-stream into packets sequence number is attached to every packet
 - The receiver checks for packets errors, reassembles packets in correct order to recreate stream
 - ACK (acknowledgements) are sent when packets are well received and lost/corrupt packets are re-sent
- ➡ Connection state maintained on both ends

TCP “3-way” handshake

Client

Server



1	0.000000000	192.168.23.1	192.168.23.128	TCP	66 60645 → 8000 [SYN] Seq=0 Win=64240 Len=0 MSS=1460 WS
2	0.000069486	192.168.23.128	192.168.23.1	TCP	66 8000 → 60645 [SYN, ACK] Seq=0 Ack=1 Win=64240 Len=0
3	0.000758866	192.168.23.1	192.168.23.128	TCP	60 60645 → 8000 [ACK] Seq=1 Ack=1 Win=131328 Len=0