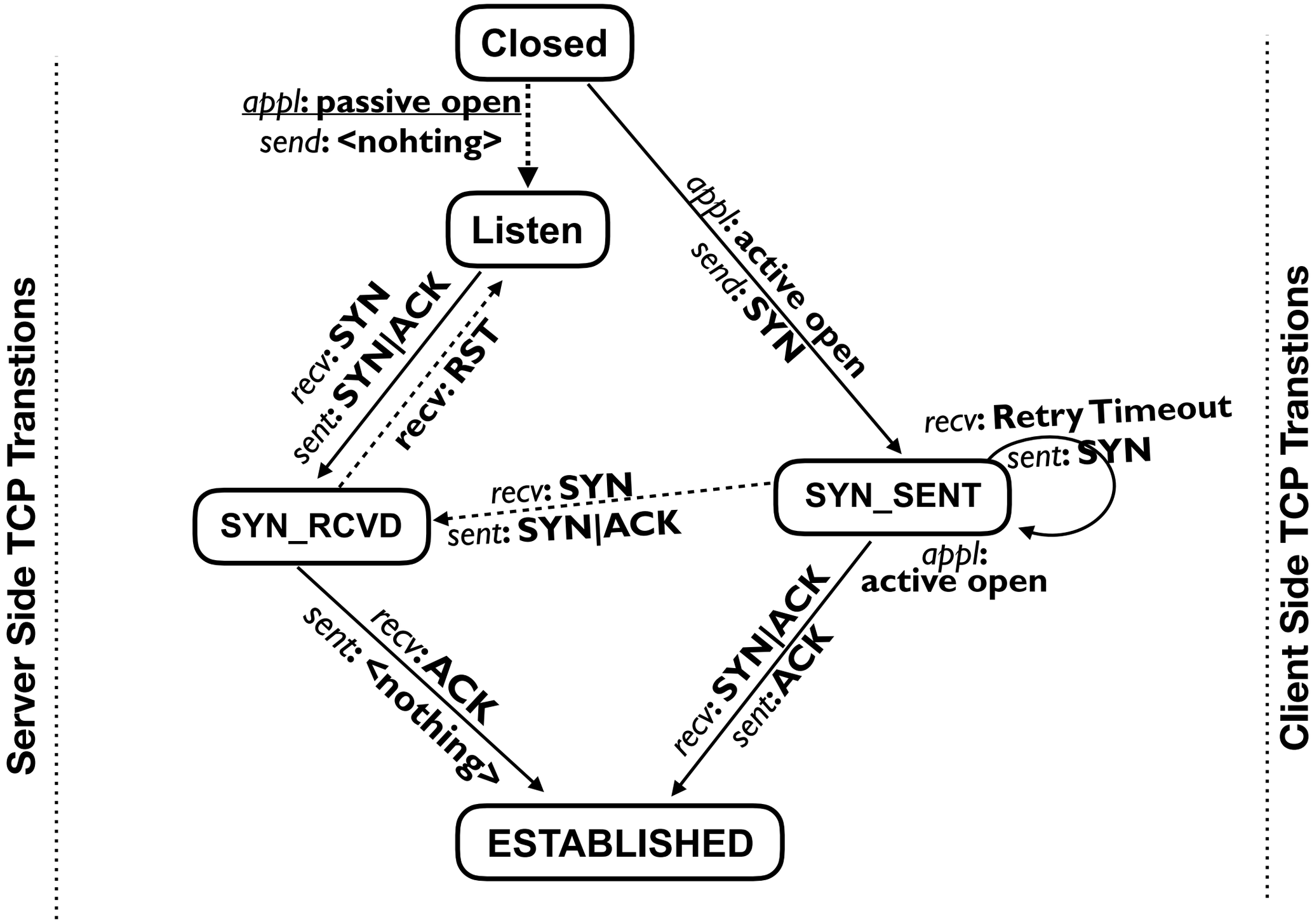
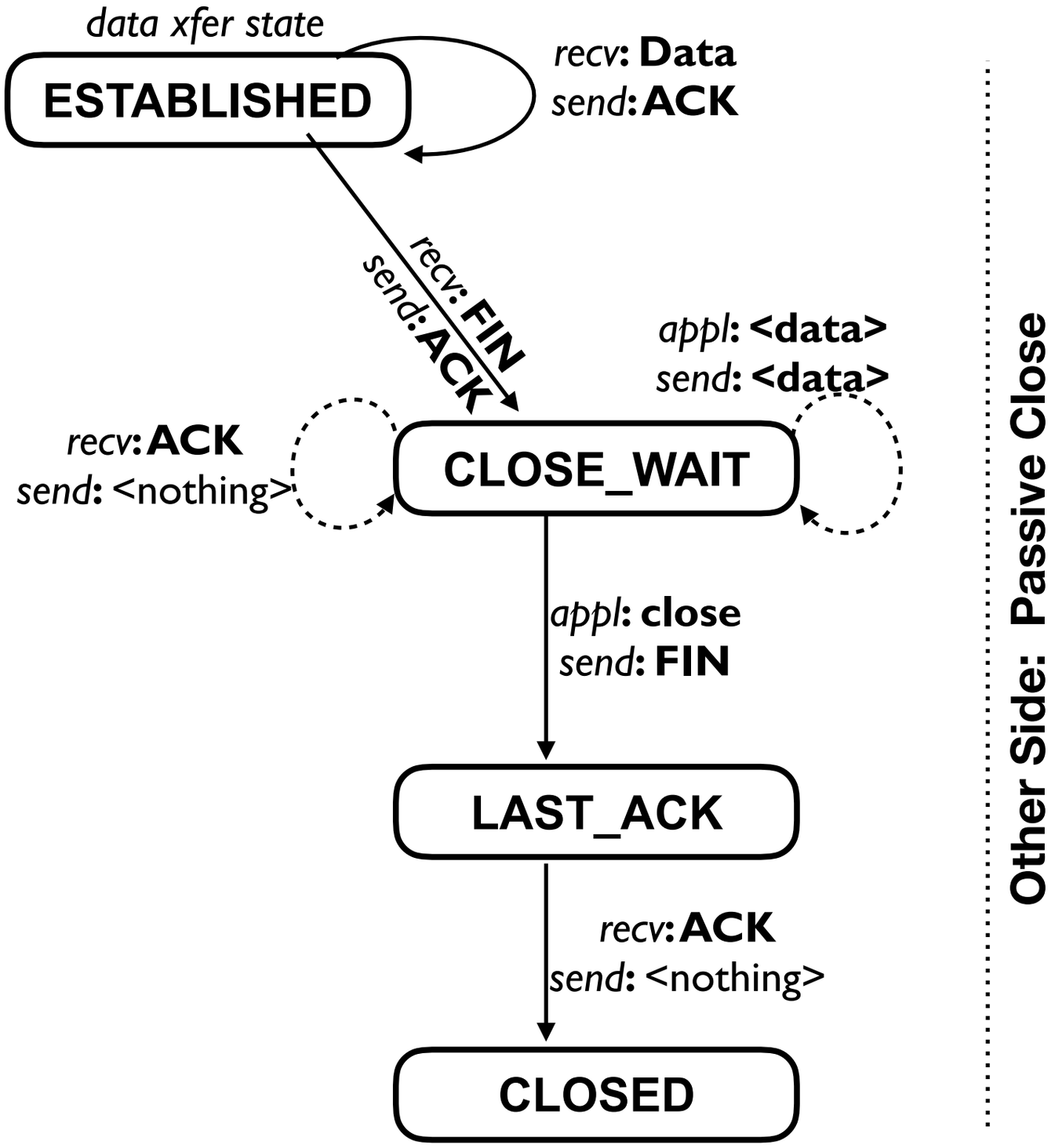
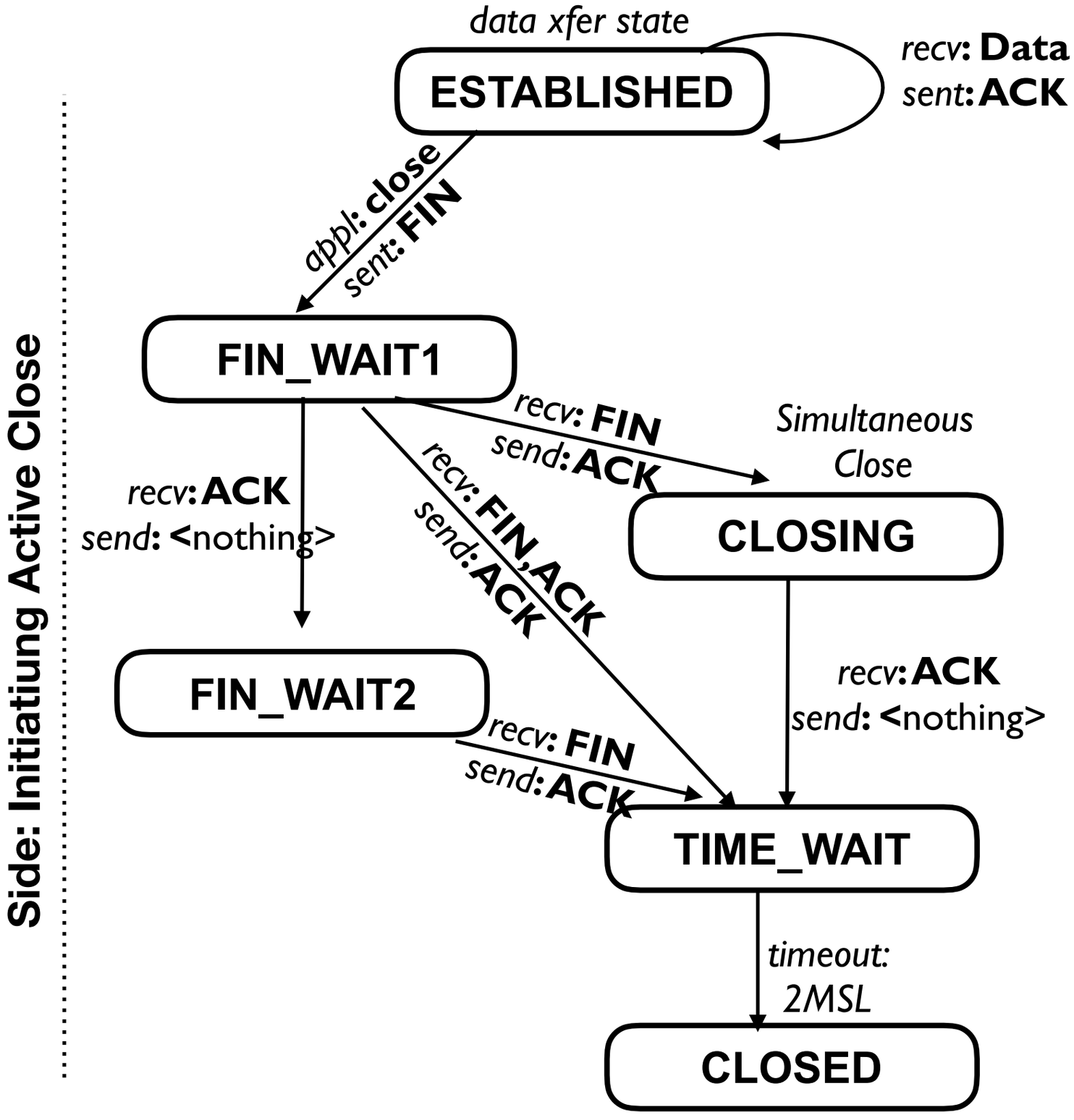


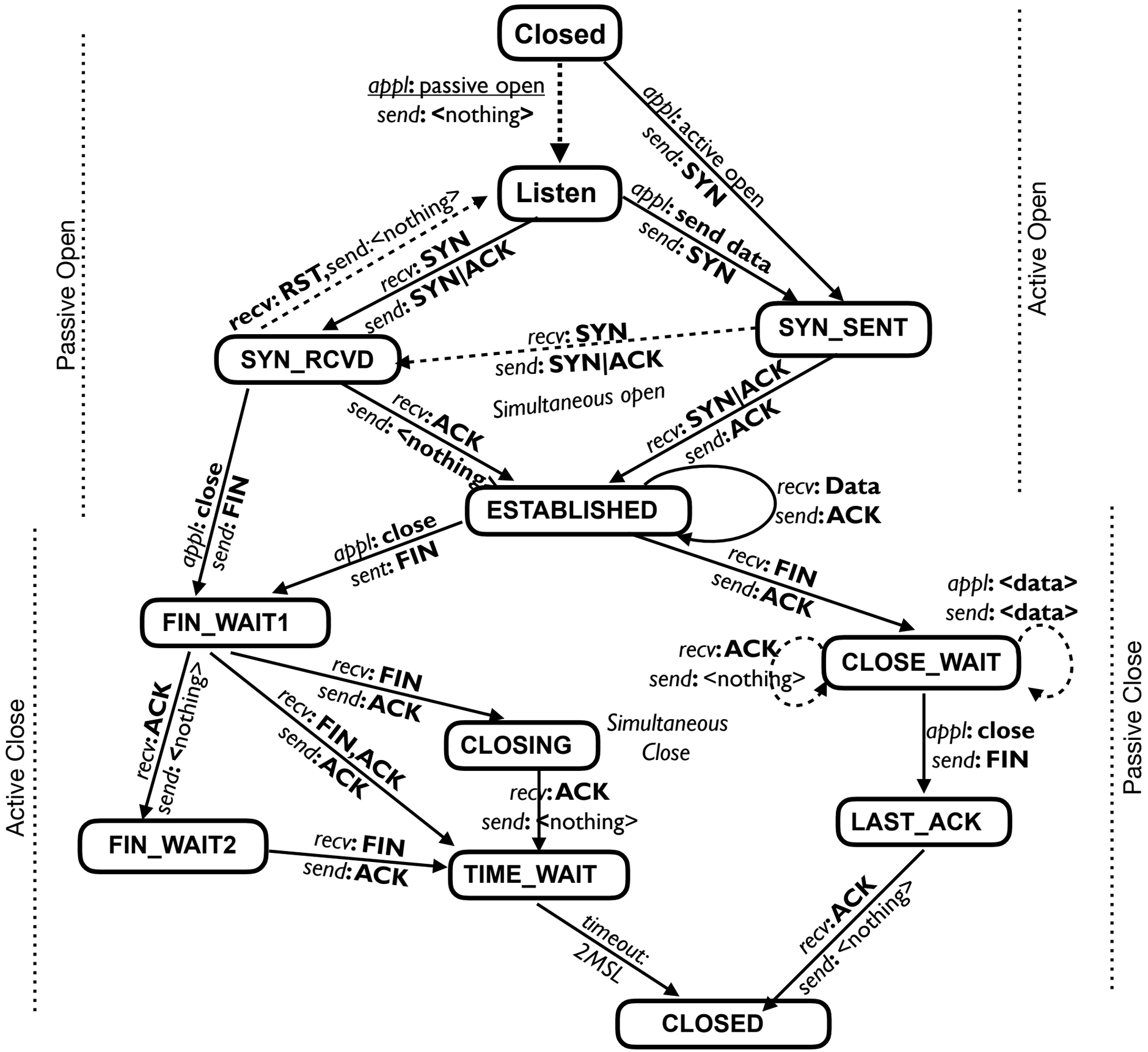
TCP State Transition during Connection Setup

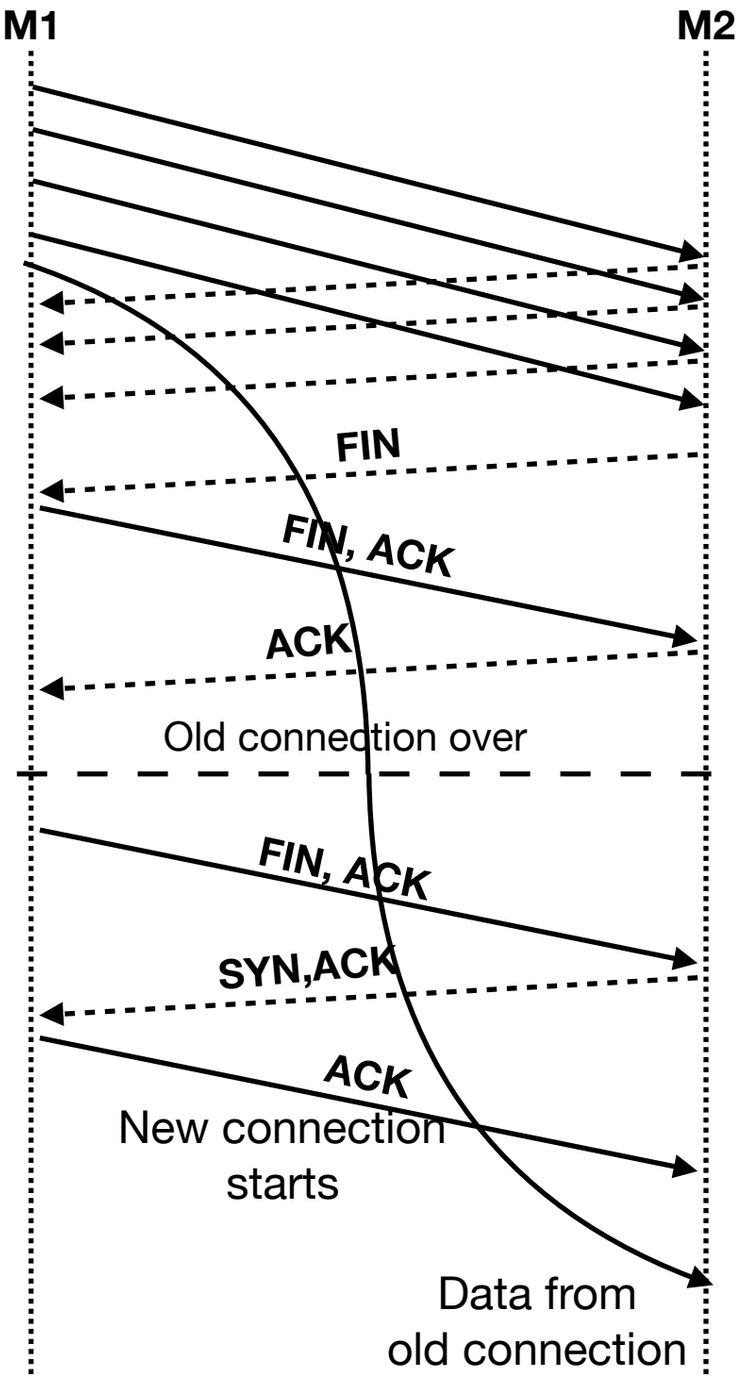


TCP State Transition: Connection Teardown: Passive close



TCP State Transition: Connection Teardown - Active Close


Closed
appl: passive open
send: <nothing>
appl: active open
send: SYN
Listen
appl: send data
send: SYN
recv: RST, send:<nothing>
recv: SYN
send: SYN|ACK
SYN_SENT
SYN_RCVD
recv: SYN
send: SYN|ACK
Simultaneous open
recv: ACK
send: <nothing>
recv: SYN|ACK
send: ACK
appl: close
send: FIN
ESTABLISHED
recv: Data
send: ACK
appl: close
sent: FIN
recv: FIN
send: ACK
appl: <data>
send: <data>
FIN_WAIT1
recv: ACK
send: <nothing>
CLOSE_WAIT
recv: FIN
send: ACK
recv: ACK
send: <nothing>
recv: FIN, ACK
send: ACK
CLOSING
Simultaneous Close
appl: close
send: FIN
recv: ACK
send: <nothing>
LAST_ACK
FIN_WAIT2
recv: FIN
send: ACK
TIME_WAIT
timeout: 2MSL
recv: ACK
send: <nothing>
CLOSED
Passive Open
Active Open
Active Close
Passive Close


M1
M2
FIN
FIN, ACK
ACK
Old connection over
FIN, ACK
SYN,ACK
ACK
New connection
starts
Data from
old connection