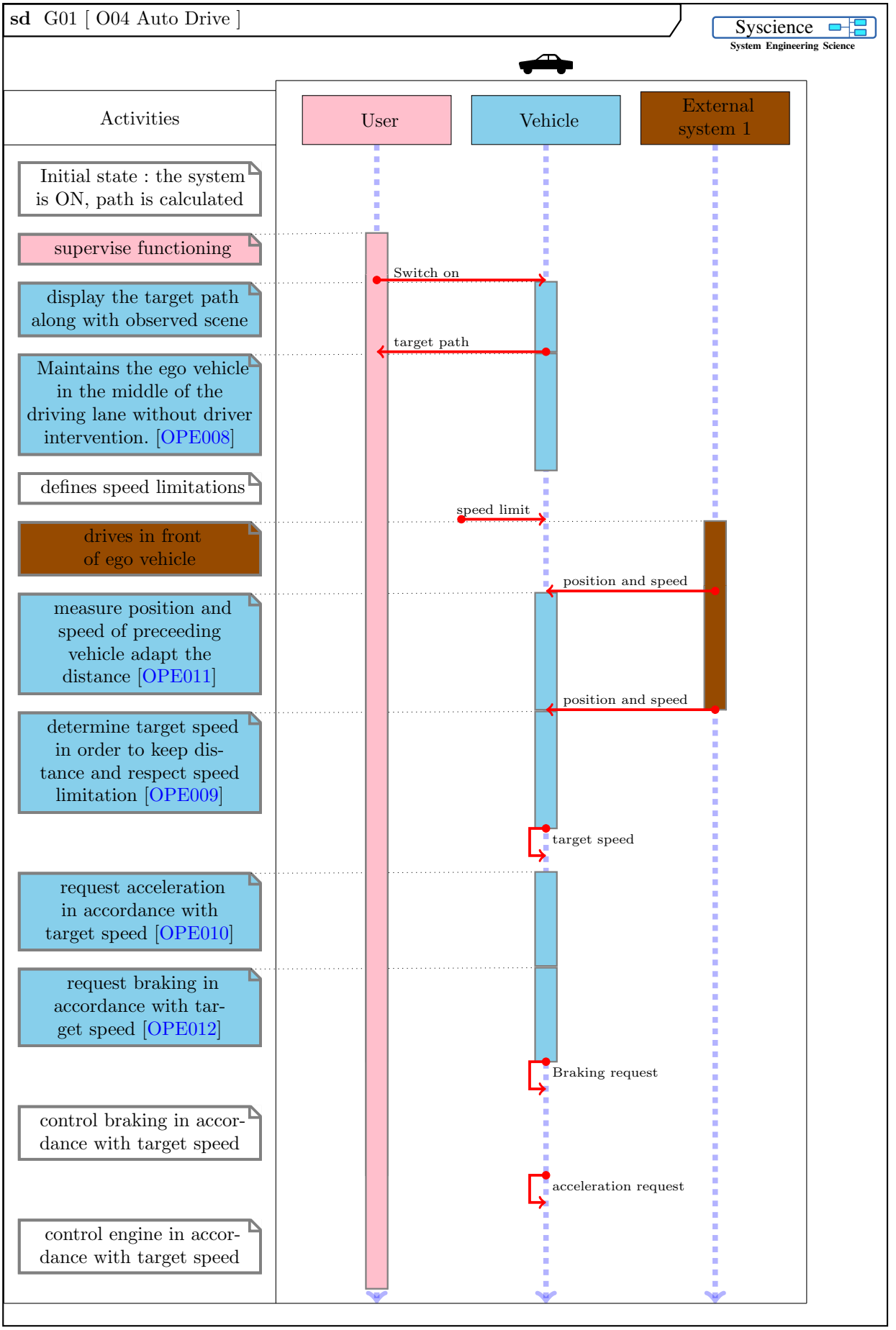
sd G01 [O04 Auto Drive]
Syscience
System Engineering Science
Activities
User
Vehicle
External system 1
Initial state : the system is ON, path is calculated
supervise functioning
Switch on
display the target path along with observed scene
target path
Maintains the ego vehicle in the middle of the driving lane without driver intervention. [OPE008]
defines speed limitations
speed limit
drives in front of ego vehicle
position and speed
measure position and speed of preceeding vehicle adapt the distance [OPE011]
position and speed
determine target speed in order to keep distance and respect speed limitation [OPE009]
target speed
request acceleration in accordance with target speed [OPE010]
request braking in accordance with target speed [OPE012]
Braking request
control braking in accordance with target speed
acceleration request
control engine in accordance with target speed