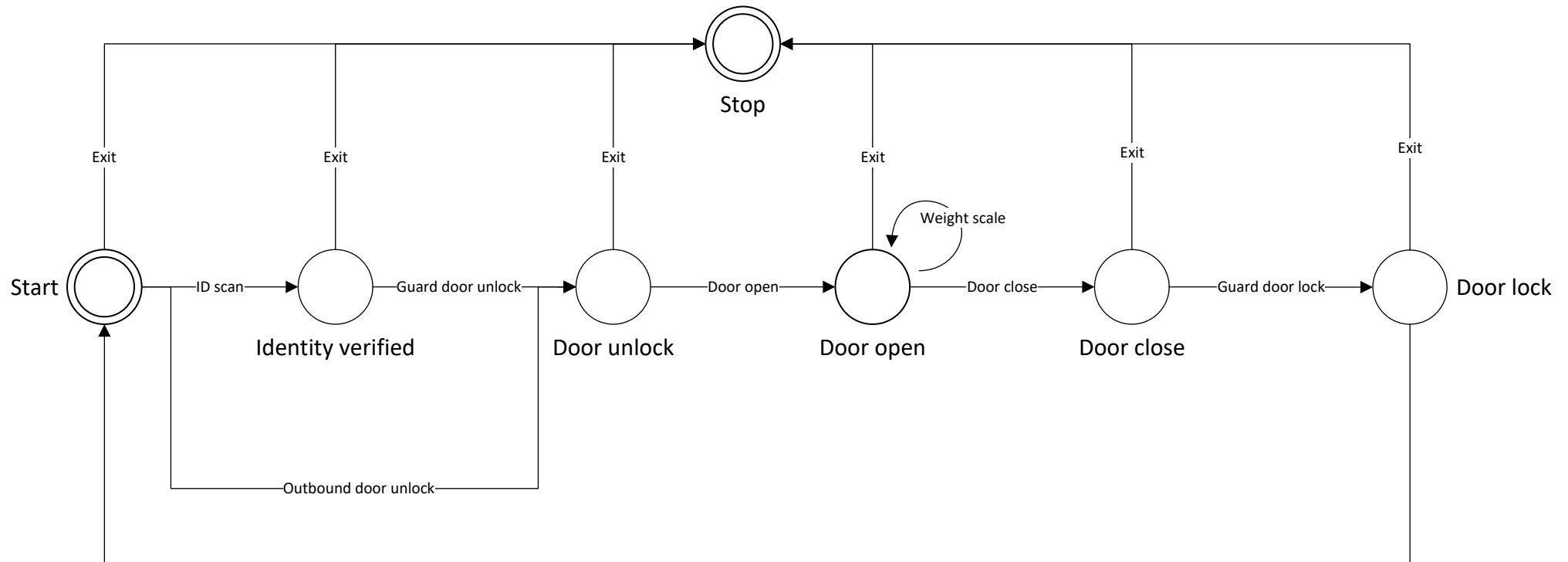


Door Entry System FSM



| Inputs | States | Outputs |
|--|---|---|
| ID scan (SCAN_ID): Person scans id on a door | Start (START): Initial state | ID_SCANNED: Person scanned ID |
| Guard door unlock (UNLOCK_DOOR): Guard unlocks a door | Identity verified (IDENTITY_VERIFIED): Person completed ID scan and is authenticated | WEIGHED: Person weighed |
| Outbound door unlock: Guard unlocks a door for an already authenticated person leaving the building | Door unlock (DOOR_UNLOCK): Guard unlocked a door | LEFT_OPEN: Person opened left door |
| Door open (OPEN_DOOR): Person opens a door | Door open (DOOR_OPEN): Person opened a door | RIGHT_OPEN: Person opened right door |
| Weight scale (WEIGHT_SCALE): Person is weighed | Door close (DOOR_CLOSE): Person closed a door | LEFT_CLOSE: Left door closed (automatically) |
| Door close (CLOSE_DOOR): Person closes a door | Door lock (DOOR_LOCK): Guard locked a door | RIGHT_CLOSE: Right door closed (automatically) |
| Guard door lock (LOCK_DOOR): Guard locks a door | Stop (STOP): End state | GUARD_RIGHT_UNLOCK: Right door unlocked by Guard |
| | | GUARD_RIGHT_LOCK: Right door locked by Guard |
| | | GUARD_LEFT_LOCK: Left door locked by Guard |
| | | GUARD_LEFT_UNLOCK: Left door unlocked by Guard |
| | | EXITED: Exit Display |