available= when a car is in a safe parking or in a special area and it can be booked by a user throught the app. So the System see it as available for a reservation. When the car is available is for sure locked and it is fully charged.

UnAvailable= This can't be reserved by the System because is temporary busy. It could be busy for many reason : a user is using it, a user as just reserved it, is out of service , is in recovery mode or is plugged.

Locked= when none is on board the system lock the car automatically. In any situation if someone left the car and close the door. The system lock the car. The user can unlock the car if has reserved it (and one hour is not passed yet) or if was in pit stop mode [and the timer is not expired].

Unlocked = the car is unlocked when a user is on board or He has just unlocked it (entro 5 min poi si rilocca se nessuno sale o apre la porta), or the third part system is doing something.

Safe parked= a car is in this state when is in a safe parking or in a special parking(with plugs) . A special parking is also a safe parking but the contrary is not valid.

A car could be here also because is out of service.

Parked (not in a safe parking) = when a user is not in the car and the engine is in stop, and the parking is not safe. It could be that the car is in pit stop or that the user did not want to bring it till the parking so he leaves the car in a parking.

Pit stop= the user has the possibility to keep the car for several days. he can parked wherever he want if before get out from the car he selected on the car screen the option “pit stop”. In this way the car will be reserved for him for other 24 h, locked and parked wherever he want. If a user did not select anything from the two option on the screen( stop and pit stop) on default the car assume the stop mode and then in recovery mode. If a user did not come back in 24 h the car goes in recovery mode.

Pit stop modality is available only out of safe parking. When a car is in pit stop mode, the user pay however the base tariff.

pit stop timer mode= is equal at the pit stop mode, but in this case the user could when is out of the car and when the car is in pit stop mode, extend the timer of the pit stop over the 24 h. He can do this through the app.

moving= This modality last from when the user start the engine at when he stop the engine.

out of service= when the car doesn’t work for any reason (a damage, a manutenzione etc) the system but the car in this state and a third system will take care about it.

recovery mode: The moment when a car is parked (out of safe parking) or the pit stop’s timer expires without that the user come back. The System but the car in this modality and the third System se ne occuperà.

plugged: when a car is a special parking and is in charging, so it is plugged.

charging: when the system is applying the base tariff to the user.

|  | AVAILABLE | UNAVAILABLE | LOCKED | UNLOCKED | SAFE PARKED | PARKED | PIT STOP | TIMER PIT STOP | MOVING | OUT OF SERVICE | RECOVERY | PLUGGED | CHARGING |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| AVAILABLE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNAVAILABLE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| LOCKED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| UNLOCKED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| SAFE PARKED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PARKED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PIT STOP |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TIMER PIT STOP |  |  |  |  |  |  |  |  |  |  |  |  |  |
| MOVING |  |  |  |  |  |  |  |  |  |  |  |  |  |
| OUT OF SERVICE |  |  |  |  |  |  |  |  |  |  |  |  |  |
| RECOVERY |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PLUGGED |  |  |  |  |  |  |  |  |  |  |  |  |  |
| CHARGING |  |  |  |  |  |  |  |  |  |  |  |  |  |