

**Description:**

**UC "Setting the mode of wipers"**

**Preconditions :**

- 1.The vehicle is power on
- 2.The driver is sitting in the driver's seat

**Main Scenario:**

1. The driver activates the wipers in one of the following ways, using **in\_10. Front buttons steering wheel** or on the **in\_2. SWP Android**:

1.1. There are 5 wiper states:

- Off - wipers and washer are off
- Auto - works based on sensor data
- 1 - low speed of wipers. The wipers operate until the user turns them off.
- 2 - average speed of wipers. The wipers operate until the user turns them off.
- 3 - fast speed of wipers. The wipers operate until the user turns them off.

1.2. **in\_10. Front buttons steering wheel** control:

- **Single press (second gear contact)**
  - If the wipers are turned off, then press once (second gear contact) to turn on 1 speed.
  - If the wipers were turned on at any speed (1-2), then the next speed is turned on.
  - If the third speed is turned on, after press the button wipers turns off
- If the Auto mode was active and any of the above actions is activated, Auto mode is temporarily disabled. After X seconds Auto mode is activated.
- **Quick Half Press (first gear contact):**
  - One sweep of the wipers
  - After a single wipe, the wipers return to their previous state
- **Half press and hold the button (first gear contact):**
  - While the button is held down, washer + wiper works ((min 3 swipes, TBD), timeout - 15 sec, TBD)
    - If the wipers are active and one of the speed levels is applied (including the use of speed modes with the Auto mode), then cleaning occurs using the current speed mode
    - If the wipers are not active (including combinations of Auto mode + off), then the default speed of the wipers is set - level 2

After the driver releases the button after **X** sec, there will be a single wipers swipe (for the final cleaning of the glass from drops).

- When the driver releases the button, the wipers return to the previously set mode or are turned

off.

- **Press repeatedly** (3 or more times second gear contact) - causes "Rush" mode (3 speed)
  - Exit the mode - single press (second gear contact) on the button
  - If the Auto mode was active, it is temporarily disabled. After X seconds Auto mode is activated again
- **Long press** (second gear contact) button **in\_10. Front buttons steering wheel** to call the wiper menu on **out\_2. SWP Android**

### 1.3. out\_2. SWP Android control:

- Wiper operating mode (1 - 3 speed)
- Turn off the wipers
- Front washer (water flow from front washer nozzles)
- Auto mode - on/off (wipers operate in Auto mode by default)
- Service mode (wipers vertically upward to replace rubber bands/brushes)
- [Rear washer](#)

### Postconditions:

- The driver has set their preferred mode for the wipers, including speed and auto mode.
- The driver profile stores information about Auto mode:
  - If Auto mode is turned on, then the next time when turn on the car, Auto mode will be active
  - If Auto mode is turned off, then the next time when turn on the car, Auto mode and other Wipers and washer settings will be inactive

**Priority:** Normal

**Type:** Use Case CF

**Document**

**Caption:** operational\_concept.Profile - 383201 Profiles settings

**Overall estimation:**

**Requirement type:** Profile

**Type:** Profile