|  |
| --- |
| State n° : Sleeping |
| **Name :** Sleeping  **Identifier :**  **Super state :** No  **Optional feature:** No  **Description :** Radio is considered in sleeping mode, plugged in  **Preconditions :** / |
| **ENTRY**   * resolveTime / currentTime = lastTimeSaved, unsync = true   **DO**   * displayInfos / display(datetime, userPreferences) * keepTrackTime / currentTime = time++   **EXIT**   * saveTime / lastTimeSaved = currentTime |
|  |
| **Postconditions :** |

|  |
| --- |
| State n° : Deactivate |
| **Name :** Deactivate  **Identifier :**  **Super state :** No  **Optional feature:** No  **Description :** Radio is considered turned off  **Preconditions :** / |
| **ENTRY**   * turnOnLEDIndicator / ledColor = «red»   **DO**  **EXIT** |
|  |
| **Postconditions :** |

|  |
| --- |
| State n° : Activate |
| **Name :** Activate  **Identifier :**  **Super state :** Yes  **Optional feature:** No  **Description :** Radio is considered turned on  **Preconditions :** / |
| **ENTRY**   * turnOnLEDIndicator / ledColor = «green» * resolveLastSourcePlayed[alarm != active] / currentSource = lastSourceUsed   **DO**  **EXIT**   * saveLastSourcePlayed / lastSourceUsed = currentSource |
|  |
| **Postconditions :** |

|  |
| --- |
| State n° : Radio |
| **Name : Radio**  **Identifier :**  **Super state :** Yes  **Optional feature:** No  **Description :** Radio mode supported by radio  **Preconditions :** Radio is active |
| **ENTRY**  **DO**   * displayRadioStationInfos / display(currentRadio, userPreferences)   **EXIT** |
|  |
| **Postconditions :** |

|  |
| --- |
| State n° : DAB+ |
| **Name :** DAB+  **Identifier :**  **Super state :** No  **Optional feature:** No  **Description :** Digital Radio Mode DAB+  **Preconditions :** Radio is active |
| **ENTRY**   * playLastDABRadio / currentDABRadio = lastDABRadio   **DO**   * saveFavoriteRadioStation(num)[preset >= 3s] / presetDABRadio[num] = currentDABRadio * searchAvailableRadioStation[signalQuality = sufficient] / currentDABRadio = DABSignal * selectRadioStation(num) / currentDABRadio = presetDABRadio[num] * displayRadioStationInfos / display(currentDABRadio)   **EXIT**   * saveLastDABRadio / lastDABRadio = currentDABRadio |
|  |
| **Postconditions :** |

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| --- |
| State n° : FM |
| **Name :** FM  **Identifier :**  **Super state :** No  **Optional feature:** Yes  **Description :** Analog Radio Mode FM  **Preconditions :** Radio is active |
| **ENTRY**   * playLastFMRadio / currentFMRadio = lastFMRadio   **DO**   * saveFavoriteRadioStation(num)[preset >= 3s] / presetFMRadio[num] = currentFMRadio * searchAvailableRadioStation[signalQuality = sufficient] / currentFMRadio = FMSignal * selectRadioStation(num) / currentFMRadio = presetFMRadio[num] * displayRadioStationInfos / display(currentFMRadio)   **EXIT**   * saveLastFMRadio / lastFMRadio = currentFMRadio |
|  |
| **Postconditions :** |

|  |
| --- |
| State n° : Mute |
| **Name :** Mute  **Identifier :**  **Super state :** No  **Optional feature:** No  **Description :** Radio is mute when volume is equal to 0  **Preconditions :** / |
| **ENTRY**   * showMuteIcon / currentSoundIcon = « mute »   **DO**   * increaseVolume / currentVolume++   **EXIT** |
|  |
| **Postconditions :** |

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| --- |
| State n° : Unmute |
| **Name :** Unmute  **Identifier :**  **Super state :** No  **Optional feature:** No  **Description :** Radio is unmute when volume is not equal to 0  **Preconditions :** / |
| **ENTRY**   * showUnmuteIcon / currentSoundIcon = « sound »   **DO**   * increaseVolume[currentVolume < 20] / currentVolume++ * decreaseVolume / currentVolume--   **EXIT** |
|  |
| **Postconditions :** |