Demonstration of HMI-Framework

Toshikazu Oiwa
toshikazu_ohiwa@mail.toyota.co.jp

TOYOTA MOTOR CORPORATION
Demo "Changing Policy DB"

- Priority Feature for EE
  - PolicyA “1 app for 1 screen”
  → “Changing Policy DB”

- Others Feature of HMI-Framework
  - PolicyB “2 apps for 1 screen”
  - Pop-up display
  → “Arbitration of WindowManager”
  → “Arbitration of SoundManager”
Demo "Changing Policy DB"

- Use case:
  Changes behavior according to Policy DB update.

Policy A: Screen layout (1 App: 1 screen)

- Step 1: screen changes according to Policy A.

Policy B: Screen layout (2 App: 1 screen)

- Step 2: Changed from Policy A to Policy B. And restart the system.
- Step 3: screen changes according to Policy B.

※In this demonstration, "simple-egl" is used instead of "map" of native app.
Demo “Changing Policy DB”
Demo “Arbitration of Window-Resources”

- Use case:
  Both Map and HVAC are displayed by choosing HVAC App while Map is displayed during driving.
  - Window Manager lays map in upper row and other App in lower row
  - As Apps display capability, Map and HVAC have Normal and Half size

Step1: Map is displayed on the screen.

Step2: Push HVAC button

Step3: Layout pattern is changed by the result that arbitrated Window-Resources. Then two apps are displayed.

Step4: Push Navi button

Step5: Map is displayed in normal size.

※In this demonstration, “simple-egl” is used instead of “map” of native app.
Demo “Arbitration of Window-Resources”
Demo “Arbitration of Sound-Resources”

- **Use case:**
  1. When user chooses different audio source (Media Player) with current one (Radio), Radio stops or pauses and Media Player plays.
  2. At phone-call incoming during outputting sound, ringtone is outputted by a specific speaker.

- Sound Manager holds previous state (Play, Stop) of App, then when App is called again, App returns in previous state.

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**NEW**

**Step 1:** Sound of Radio is outputted

**Step 2:** Push M.P. button

**Step 3:** Sound of M.P. is outputted

**Step 4:** Phone-call incoming

**Step 5:** Ringtone is outputted by a specific speaker by the result that arbitrated Sound-Resources

**Step 6:** Ringtone stops

**Step 7:** Sound of Radio is outputted again
Demo “Arbitration of Sound-Resources”
Structure of demonstration

• Built software for AGL 5.0RC1 on M3
• Demonstration’s Apps are based on Apps of CES2017
• HMI-Framework supports AFB
• Choose Qt for Req.①
• Choose Audio Manager (Genivi) for Req.②, Window Manager is newly developed
• Window Policy DB is ZIPC format, Sound Policy DB is Genivi format for Req.③