Januar 2021





August 2017



März 1929





AUTOMATED TESTING

Infotainment

Volker Rabich
Test Automation & System Development

CONTEXT



- PSA / Opel
- Testautomation and System Development
- Test of vehicle functions

Vehicle Acces, Windows, Light, Theft Deterrent, ...

Infotainment

Radio, Navigation, Mirroring, UI, ...

- Test facility: lab

 Bench
- Integration testing

Vehicle level Black Box Testing



INFOTAINMENT INTERFACES







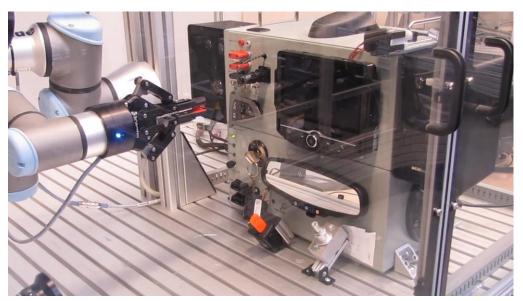
touch



listen



speak



















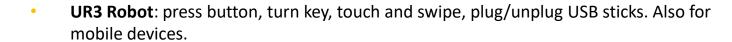




TOOLS









• **Vision Master**: camera/LVDS detects UI elements, OCR, find text/ symbol Also for mobile devices.



Speech Master: Text-to-Speech (synthetic & database), Speech-to-Text (Microsoft SAPI)



• **Sound Master**: recognition of chimes, song, mute, noise



IZT: antenna signal simulation



GNSS: GPS simulator





CUSTOMERS DO NOT WRITE SCRIPTS



Customers:

Seat, Airbag, Aharging, Climate, Light, ..., Infotainment

Scripting:

This is an IT job - can not be done by customer

 $\rightarrow \rightarrow \rightarrow$ Customer has no access to automation $\leftarrow \leftarrow \leftarrow$

Solution:

Model based system description to generate test scripts

Sample Project:

Infotainment Test

CONTACT



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TASKS



- Familiarization with current work process
- Selection of suitable tools
- Creation of a draft solution
- Implementation of the draft
- Prerequisites
 - Programming skills (preferably Java or C#)
 - optional: first experiences with UML and similar