

Case study, Multi-vendor Hardware-in-the-loop system

Area: Complete Car HIL infotainment, Connectivity (26 systems)

Main challenge:

- System shall be able to handle test scripts from Robot Framework
- System shall be able to by software be re-configured so ECUs can be changed
- System shall be able to connect multiple ECUs.
- System shall be modular so new functionalities can be added in the future.
- Enable ASAM XIL support

Solution in brief:

- Hardware built in a 19" rack based
- The eight ECU's have in total about 32 pins connected to the test system, with complete fault injection on each pin.
- Aliaro developed a customized board for bus switching of CAN network.
- ASAM XIL support Vector RT Controller & Robot Framework.

Main benefits:

HIL system delivery of an open architecture, flexible and modular test system with an open software platform to grow with. Aliaro Functional Tester is based on the 4th generation of the test platform.

Aliaro is an approved supplier to the customer.

