

# Case study, Multi-vendor Hardware-in-the-loop system based on NI SLSC

## Area: Complete Vehicle Integration HIL (2000 channels)

### Main challenge:

- System shall manage a complete vehicle integration test.
- System shall be able to connect multiple ECUs.
- System shall be able to handle test scripts from Python Framework
- System shall be able to by software be re-configured so ECUs can be changed
- Enable ASAM XIL support

### Solution in brief:

- [Aliaro Automotive HIL Simulator](#) includes NI SLSC, embedded EtherCAT's and a PXI chassi for LIN, CAN and FlexRay buses
- Aliaro Automotive HIL Simulator with NI SLSC chassi with [Aliaro KADRO-MPB-12 SLSC](#) modules for enabling flexibility.
- Using Aliaro Configurator for Veristand to enable deploy configuration faster.
- The ECU's will be connected to the test system, with complete fault injection on each pin.

### Main benefits:

Turn-key system delivery of an open architecture, flexible and modular test system with an open software platform to grow with. KADRO is the 4<sup>th</sup> generation of the test platform.

Aliaro is an approved supplier to the customer.

