

Case study, HIL system, Mining Industry, Sweden

Area: System HIL (+800 channels)

Main challenge:

- 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
- System shall manage a load matrix for up 250 channels (10Amps/ch)
- System shall include a Vision system for testing touch screen monitors.
- Enable ASAM XIL support

Solution in brief:

- Aliaro HIL Simulator includes NI SLSC, embedded EtherCAT's and a PXI chassi for LIN, CAN and buses
- Aliaro HIL Simulator with NI SLSC chassi with [Aliaro KADRO-MPB-12 SLSC](#) modules for enabling flexibility.
- Using Aliaro Configurator for Veristand to 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. The solution is based on the 4th generation of the test platform.

Aliaro is an approved supplier to the customer.

