ALIARO

Power Switching Solution for multiple test objects

Expand the possibility to verify single or multiple test objects (Device Under Test) in your existing test environment. This enable you as a customer to re-use your test environment for multiple projects and by that increase the 24/7 usage of your investment.
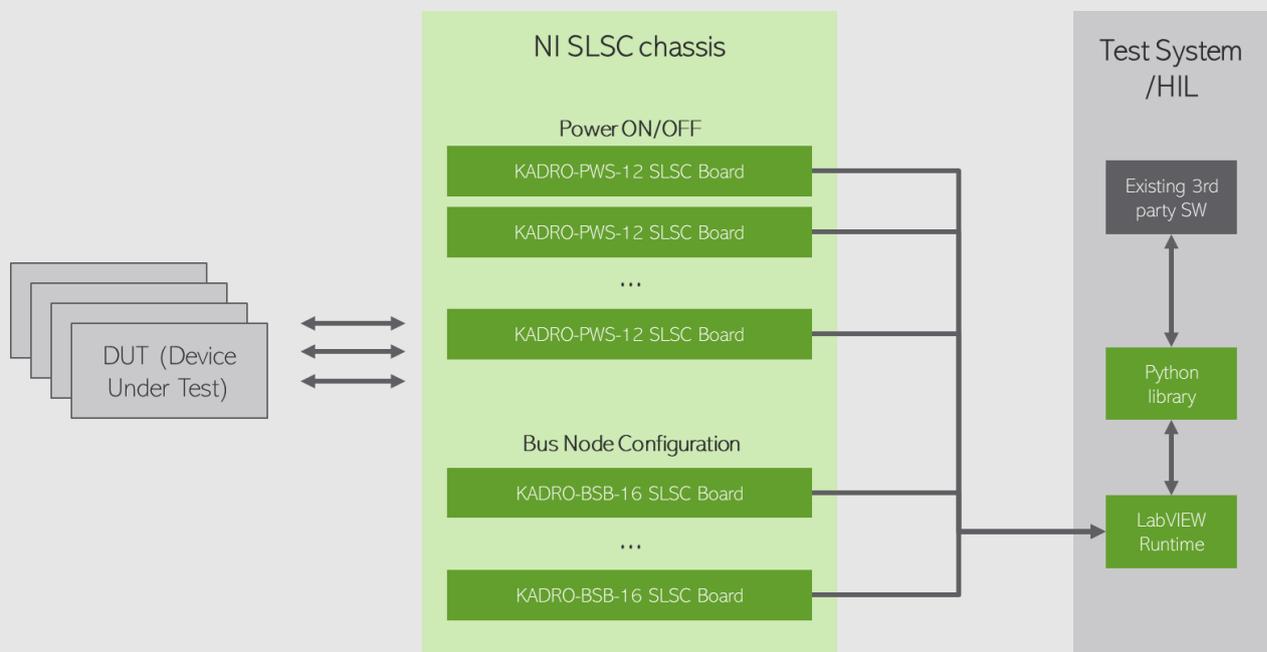
Application Requirements

- Re-use existing test environment and verify more DUTs
- Improve test automation in a multi-vendor environment (National Instruments, dSpace, ETAS, Beckoff, Vector etc)
- Share the test environment to multiple projects.

ALIARO Solution

By using pre-delivered scripts, the user can switch between an active and inactive DUT(s). The Power Switch Solution is connected between the test system and the DUT(s) either as standalone or built-in to the existing 19" rack(s).

The communication will be performed by Python scripts or LabVIEW application. The solution consists of a NI SLSC chassis and ALIARO powerful SLSC modules for enabling switching capabilities and easy to expand to additional DUT(s).

Take also advantage of the integration expertise and custom engineering from ALIARO when implementing the Power Switch Solution to your test environment.

NI SLSC chassis

Power ON/OFF

KADRO-PWS-12 SLSC Board

KADRO-PWS-12 SLSC Board

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KADRO-PWS-12 SLSC Board

Bus Node Configuration

KADRO-BSB-16 SLSC Board

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KADRO-BSB-16 SLSC Board

DUT (Device Under Test)

Test System /HIL

Existing 3rd party SW

Python library

LabVIEW Runtime

ALIARO

The solution is based on the NI/ ALIARO platform and delivered by NI, ALIARO and partners.

The NI and ALIARO Advantage

The hardware and software from NI are used by customers world-wide to create high-performance.

The Power Switch Solution helps you develop and test multiple products and designs in a safe environment.

NI and ALIARO combined technologies help you to increase the usage of your investment and improving quality.

The unit presented above is configured as:
1. One (1) NI SLSC Chassis
2. 36 channels for power switching using three (3) ALIARO KADRO-PWS-12
3. 32 channels for bus switching and node configuration using two (2) ALIARO KADRO-BSB-16

Key Specifications	
Number of I/O's on each KADRO-PWS-12 SLSC module	12
Voltage KADRO-PWS-12 SLSC module	+/- 60 V
Current (max)	10 Amps (parallel I/O channel up to 40 Amps)
Number of I/O's on each KADRO-BSB-16 SLSC module	4x4 (matrix) / 2x8 / 1x16
Communication with external test environment	Ethernet
Bus communcation protocol support	CAN, LIN, Ethernet, Automotive Ethernet
Support scripts languages on host-PC	Pythons, LabVIEW (LabVIEW Runtime is mandatory to be installed on Host-PC)

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