

Aliaro Solution Brief

Hardware-in-the-Loop testing onDemand

The service enables verification of your electrical control units through the standardized platform in the cloud, "HIL Test OnDemand". The digital workspace enables you to work with your global teams more efficient and focus on your core business.

Application Requirements

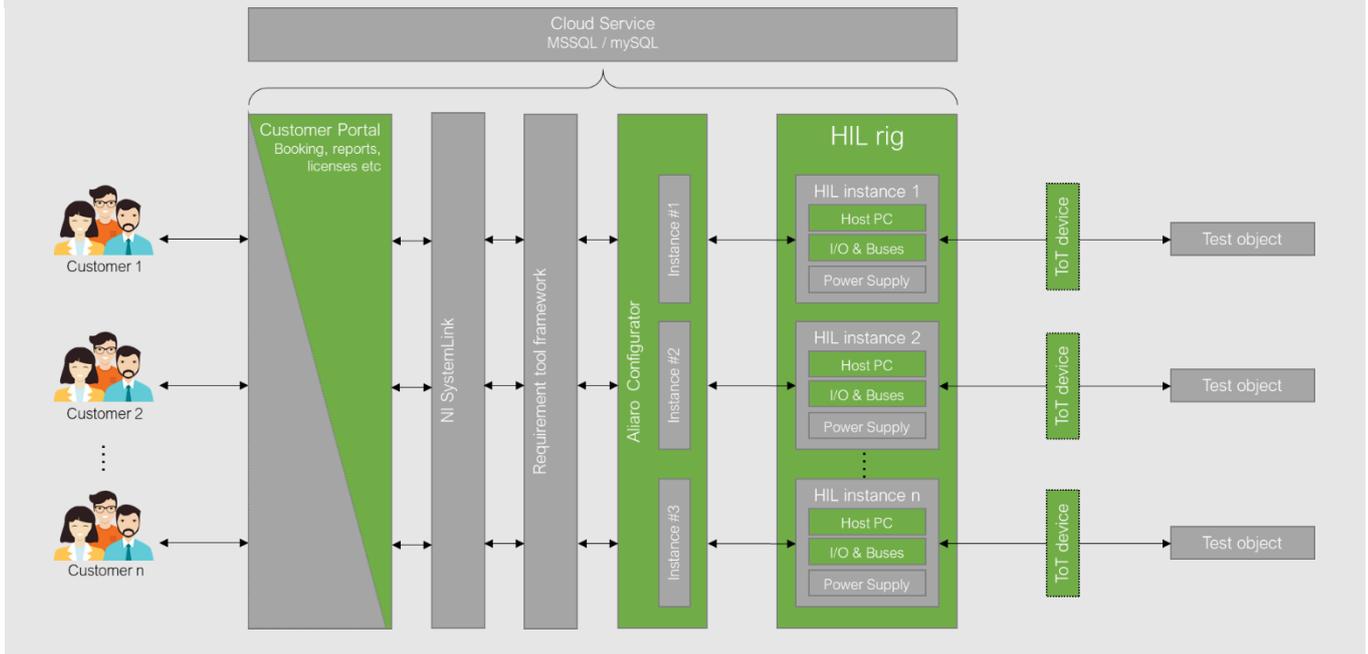
- Challenges to invest in new test systems
- Distributed Verification teams in your organization
- Challenges to handle test period peaks
- The organization is new in test automation

ALIARO Solution

By using the service, you will need to send your test object to Aliaro Test Lab facility. Instantly you get access to the digital workplace to start preparing test cases and test plans without time loss in setting out test environment tools.

The service enables the customer to work remotely and all data will be stored in a secured cloud service. The solution consists of both NI and Aliaro hardware and software to enable extraordinary capabilities.

ALIARO and our local partners offers the advantage of integration expertise and custom engineering to support the customer specific needs and will let them focus on testing.



About Aliaro

Aliaro is an established test solution & HIL provider and NI Silver Alliance Partner in Sweden with offices in Sweden, UK, China and USA. Together with NI, they design modular, flexible and cost-efficient solutions for testing and HIL that enable customers to work with open and changeable devices where rapid changes are allowed.

Contact Aliaro to learn more about how NI & Aliaro can help you increase product quality and accelerate testing timelines.

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NI + ALIARO = PERFORMANCE

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

The digital service helps you to focus on your development and test multiple products and designs in a safe, robust and reliable environment.

The combination of NI and ALIARO technologies help you increase the usage of your investment and improving quality.



Key Specifications (Standard configuration)

Total Amount of Input/Output channels	The service includes <72 flexible and configurable I/O channel that can be set to Analog/Digital Input/outputs
Voltage (max)	+/- 60 V
Current (max)	10 Amps
Analog inputs	16, each channel has an independent track-and-hold amplifier and ADC that allow you to sample and convert all 16 channels simultaneously
Analog outputs	8, each channel has an AO which you can connect a load
Digital outputs	24, each channel has a sinking DO to which you can connect a digital input device.
Digital inputs	24 (72), each channel has a DI to which you can connect a digital input signal. 28 simultaneously sampled digital input channels
Fault insertion	72, Open circuit (DUT to Load) Short to +Batt (DUT to AUX 1A/B/C) Short to - Batt (DUT to AUX 2A/B/C) Short between signals (DUT to DUT thru AUX)
CAN	2, Baud rate 10kbps – 1Mbps / possible split up each bus to matrix 4x4 / 2x8 / 1x16
RS-232 Serial Port	1
RS-485 Serial Port	1
Communication with external test environment	Ethernet
Bus communication protocol support	CAN, LIN, Ethernet, Automotive Ethernet
Support scripts languages on host-PC	Pythons, LabVIEW

