



SYSTEM ON DEMAND (SoD) – The Innovative Platform for Avionic Testing

One standardized solution for system integration, certification, and component testing

VERIFICATION & VALIDATION TESTING

HiL test systems – Your modular system integration and validation test solution.

FUNCTIONAL TESTING (EOL/ATP)

Your system architecture for functional test, production and maintenance

SYSTEM INTEGRATION

Give your LRU a home for full certification testing

OPEN SOFTWARE ARCHITECTURE

Adapt your toolchain to SoD with minimized effort

Test Systems with System on Demand (SoD)

Modular, standardized and automated HiL test systems by SET enable a need-based verification and validation for more security and productivity during the development process.

- Undefined requirements?
- Changes expected?
- Want to mitigate your design risk?
- Already late in your project schedule?

**GET YOUR TEST SYSTEM
IN 12 WEEKS!**

Contact us

SET GmbH

In der Steele 2
DE-40599 Düsseldorf

T +49 (0) 211 74 96968-0
E aero@smart-e-tech.de



**GET YOUR
SYSTEM
INTEGRATION
LAB IN
12 WEEKS!**



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Key Benefits & System Features

Get your test environment out of the critical path with System on Demand!

SoD is more than just an open test system architecture – it is a complete new, holistic and disruptive HiL design process.

Time & cost effective – Only 12 weeks to get your HiL test system

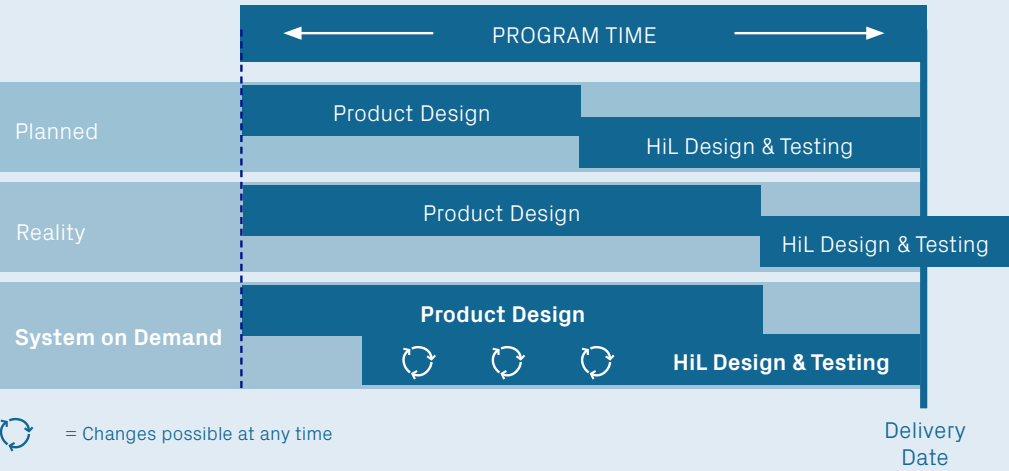
- Set up the system even if all requirements aren't available
- Fast, early and complete: design documentation and specifications
- Simulation environment available after design enables start of implementation

SoD automatically follows every project change

- SoD enables a fast and easy adaptation of your configuration
- Iterative and automated design process – keep your schedule

100 % transparency and control

- Entire configuration included in quotation
- Open and standardized COTS-based architecture
- Signal level documentation available the first day



FROM ICD
TO OFFER IN
3 DAYS



The System on Demand Platform

Our **standardized system architecture** is based on COTS components and standardized cables, relying on the open **PXI / SLSC platform** and the **software tools from NI** (National Instruments).

This approach enables system expansions and long-term operation of our systems with little effort. We offer **more than 80** implemented and validated aviation-specific **signal types**. In addition, every signal has the ability to add **fault insertion, real/sim switching, data logging, replay functionality, integrated self-test** and **calibration functionality**.

Verification & Validation Testing

HiL test systems – modular system integration & validation test solution

- No more missing test requirements in the project, repetitive changes, or numerous open questions
- Get testing out of the critical path
- Signal catalogue covers more than 90% of standard avionic signals
- Signal implementation possible at any stage of your development process

Functional Testing (EOL/ATP)

From component development to production & maintenance

- High reusability of software and hardware components from the design and validation phase
- Fully industrial interfaces for single fixtures for highly automated testing

System Integration

Test benches – The home of your LRUs

- Seamless combination with HiL test platform
- Aircraft-style wiring, neatly placed LRUs
- Intuitive accessibility of all signals via labeled breakout panels
- Powerful modular power distribution solution for power supply and monitoring of your LRUs

Open Software Architecture

Modular & intuitive

- Powerful real-time or windows-based test framework
- Consistent hardware abstraction
- Access to all system functions by signal names
- Access to existing test automation software with reflective memory interface

