

RTStand

How to save time & money in automotive testing - HiL, LV 124 and Radar solutions integrated into one platform



WKS
Informatik
Experts in Testing



SELECT
YOUR
SOLUTION!



RF /
Radar



RTStand
HiL - TEST AND SIMULATION



Industrial
Automation



Tube
Analyzer

µfi Ultra Fast
Interrupter

Speaker: Ronald Kaempf, WKS Informatik GmbH

NATIONAL INSTRUMENTS™ ALLIANCE PARTNER OF 2015/2016
WINNER OF THE NATIONAL INSTRUMENTS™ TECHNICAL INNOVATION AWARD | WINNER OF THE WiR TECHNICAL INNOVATION AWARD!



With over 20 years of expertise
in automation engineering...



... we provide solutions for
automated testing needs.



LV 124 Automotive Testing



Industrial Automation




RF / Radar Automotive Testing

over 50 
customers worldwide

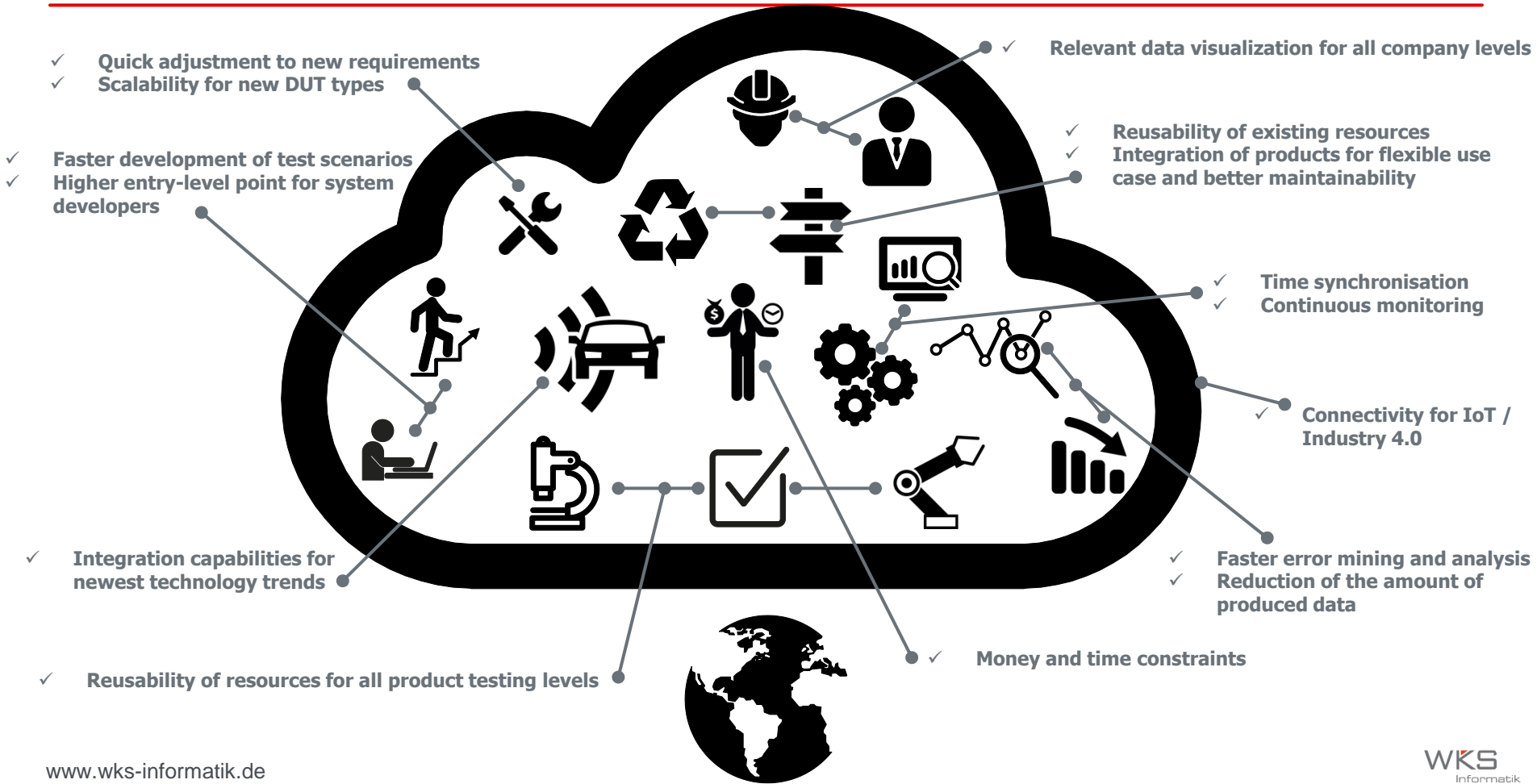
over 20 
years NI Alliance Partner

over 450 
testing solutions in use

2 
technical innovation
awards

over 10 
products for automated
testing

Common needs for testing



RTStand – open HiL platform

- ✓ Quick adjustment to new requirements
- ✓ Scalability for new DUT types

- ✓ Faster development of test scenarios
- ✓ Higher entry-level point for system developers

Relevant data visualization for all company levels

- ✓ Reusability of existing resources
- ✓ Integration of products for flexible use case and better maintainability

- ✓ Time synchronisation
- ✓ Continuous monitoring

- ✓ Connectivity for IoT / Industry 4.0

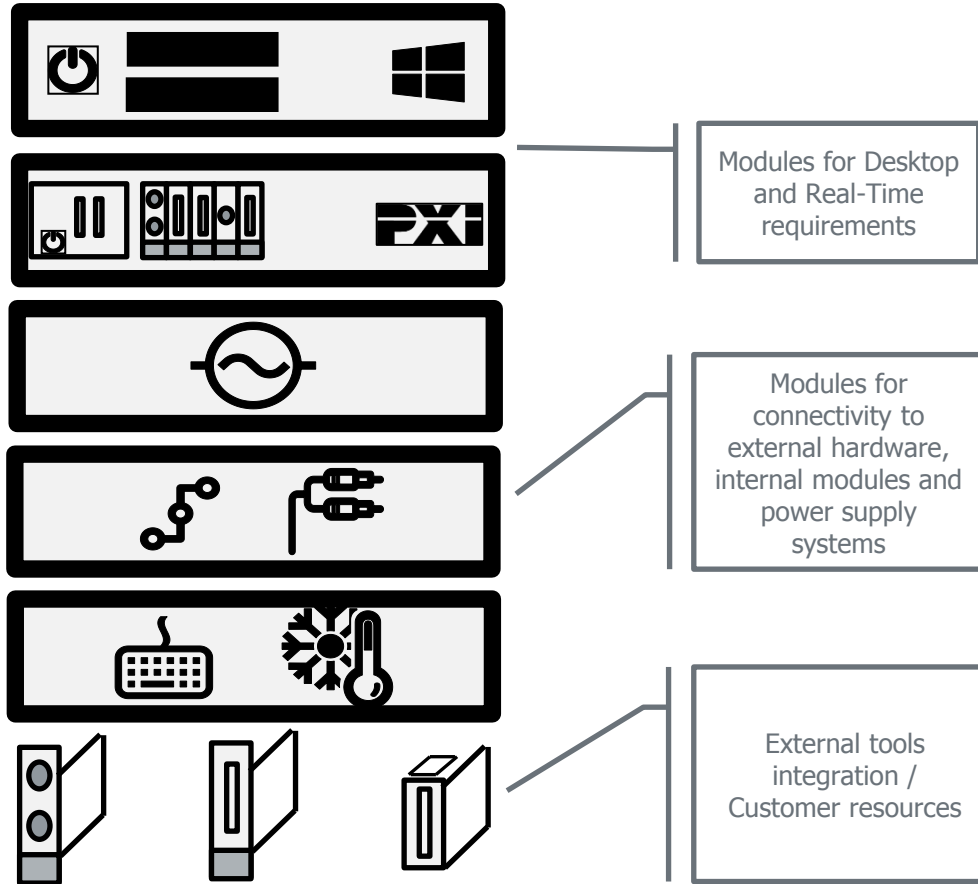
- ✓ Faster error mining and analysis
- ✓ Reduction of the amount of produced data

- ✓ Integration capabilities for newest technology trends

- ✓ Reusability of resources for all product testing levels

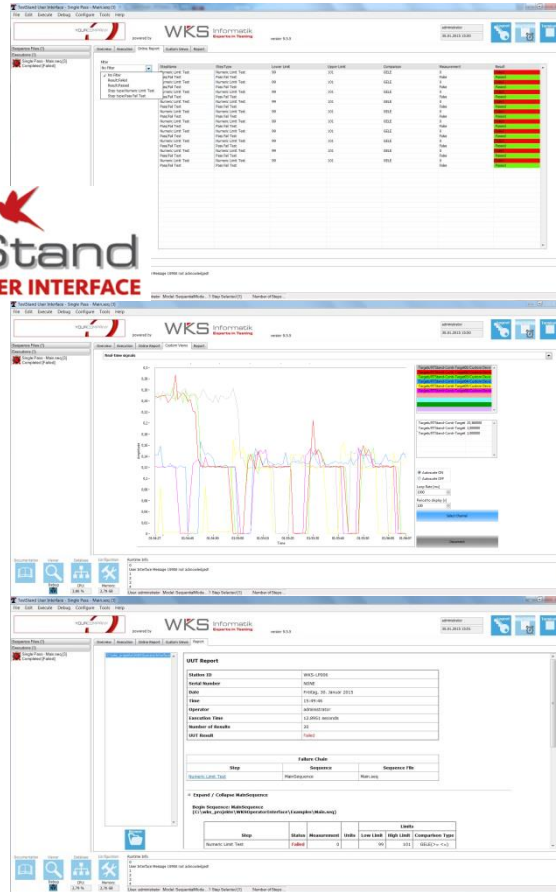
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TECHNICAL INNOVATION AWARD

RTStand - Modular test setup design



- ✓ **Flexible testing systems through modular design**
- ✓ **(Re)usage of customer know-how and existing resources**
- ✓ **Use of standard HW components**

RTStand - User Interface for NI TestStand



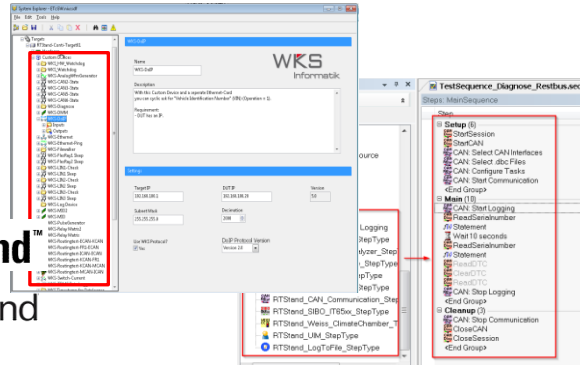
Standard panels for testing overview at runtime

Fully-customizable panels for various testing needs

Reporting panels

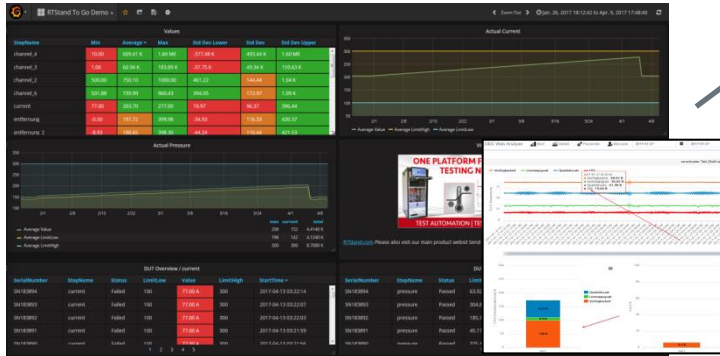
- ✓ Flexible testing systems through modular design
- ✓ (Re)usage of customer know-how and existing resources
- ✓ Use of standard SW and HW components
- ✓ **Standardization of user experience**

RTStand – Higher-entry point for automation



Extensive TestStand
CST and VeriStand
CD Library

- ✓ Flexible testing systems through modular design
- ✓ (Re)usage of customer know-how and existing resources
- ✓ Use of standard SW and HW components
- ✓ Standardization of user experience
- ✓ **Enable a higher-entry point in automated testing**
- ✓ **Integration of Industry 4.0 / IoT capabilities**



Ready-to-use plugins
for Cloud / OEE
requirements

External tools
integration /
Customer resources



RTStand – Innovative LV 124 solutions

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TECHNICAL INNOVATION AWARD



WiR

Tube
Analyzer



LV 124
Measurement and
Analysis devices

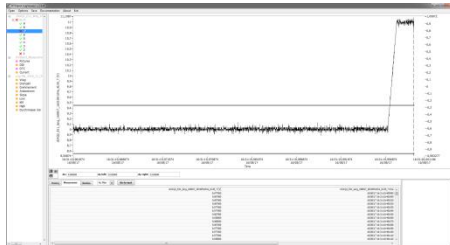
- ✓ Flexible testing systems through modular design
- ✓ (Re)usage of customer know-how and existing resources
- ✓ Use of standard SW and HW components
- ✓ Standardization of user experience
- ✓ Enable a higher-entry point in automated testing
- ✓ Integration of Industry 4.0 / IoT capabilities
- ✓ **Integration of innovative Big Data solutions**

µfi
Ultra Fast
Interrupter



LV 124 Switching
solutions

RT
LOG VIEWER
Stand
HIL - TEST AND SIMULATION



Analysis tools for
faster error mining in
the Big Data world

RTStand – Radar solutions

DIGITAL RTS TECHNOLOGY

ANALOG RTS TECHNOLOGY



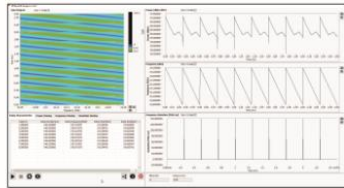
**NATIONAL
INSTRUMENTS**
Radar Target Simulator

perisens
Radar Target Simulator



NI VST Technology

RTStand RADAR
HIL - TEST AND SIMULATION

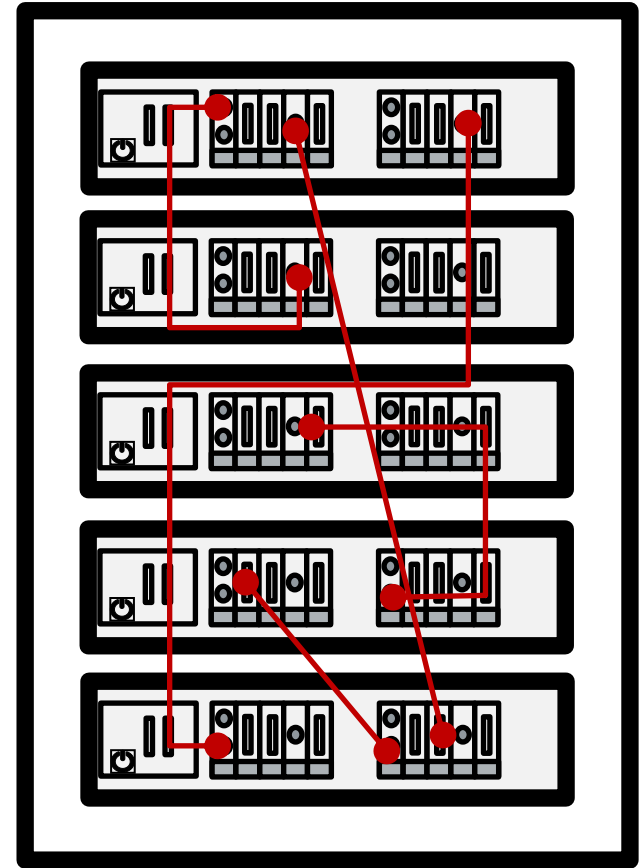


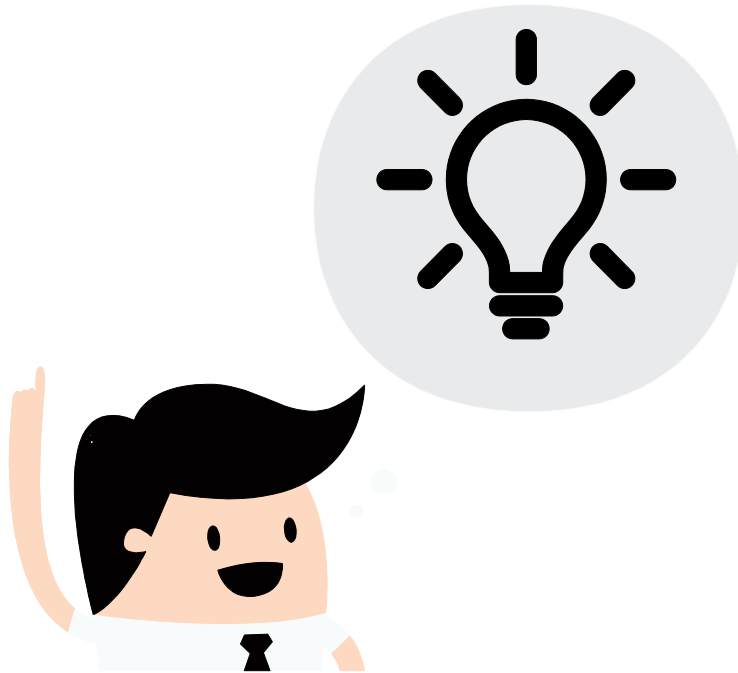
RTStand Radar Platform with
RF Analysis for characterization of Radars

Radar Target
Simulator

RF Analysis software
for Radar
characterization and
EoL automation

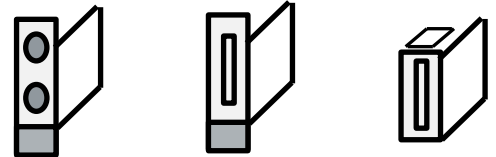
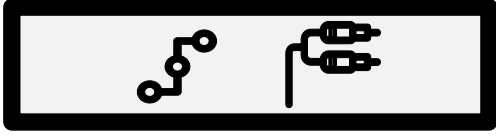
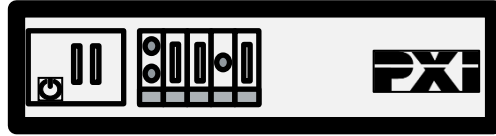
- ✓ Flexible testing systems through modular design
- ✓ (Re)usage of customer know-how and existing resources
- ✓ Use of standard SW and HW components
- ✓ Standardization of user experience
- ✓ Enable a higher-entry point in automated testing
- ✓ Integration of Industry 4.0 / IoT capabilities
- ✓ Integration of innovative Big Data solutions
- ✓ **Integration of Autonomous Driving solutions**





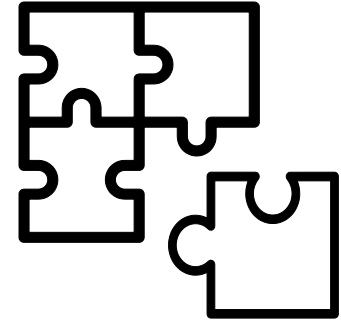
RTStand
HIL - TEST AND SIMULATION

RTStand – Build your own system



PICK THE DESIRED PIECES...

... AND PUT THE PUZZLE TOGETHER!



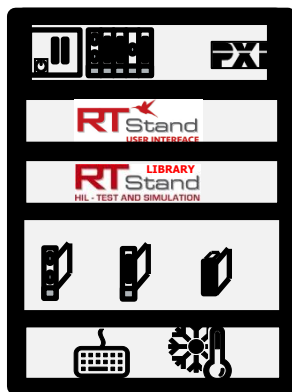
RTStand – Solutions for all product testing levels

Development tests



RTStand GATEWAY

Automated testing systems platform for lifetime, validation, development and LV 124 gateway tests.

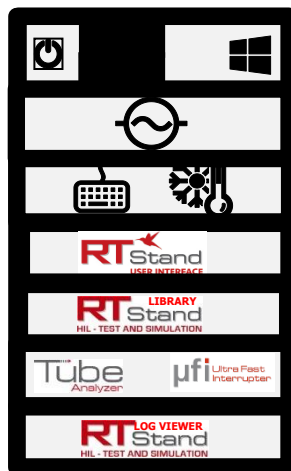


Validation/verification tests



RTStand LV 124

Fully-automated scalable testing platform for LV 124 electrical tests, with many LV 148 capabilities.



Functional tests

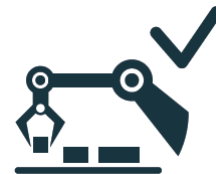


RTStand INDUSTRIAL

Various customer-specific solutions for industrial automation requirements, based on the RTStand platform.

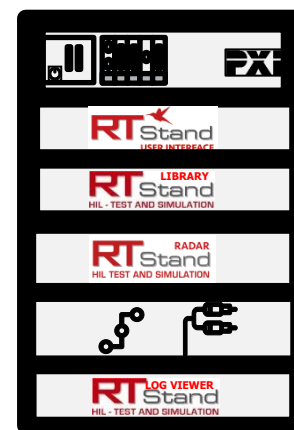


Production/EoL tests



RTStand RADAR

EoL/Production platform for Radar sensors and RF analysis solutions using 24 and 77GHz Radar Target Simulators.

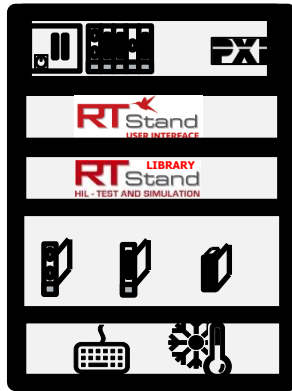


RTStand – Benefits

Development tests



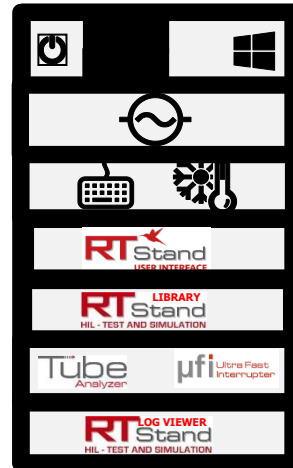
FASTER SYSTEM SETUP



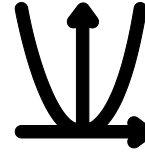
Validation/verification tests



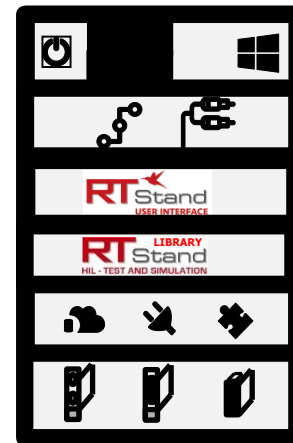
REUSE OF EXISTING COMPONENTS



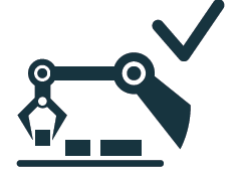
Functional tests



EASY SYSTEM RECONFIGURATION



Production/EoL tests



PRODUCT QUALITY



RTStand – Benefits

Development tests



**FASTER SYSTEM
SETUP**

RTStand GATEWAY



Validation/verification tests

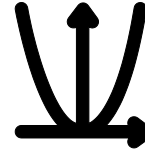


**REUSE OF EXISTING
COMPONENTS**

RTStand LV 124



Functional tests

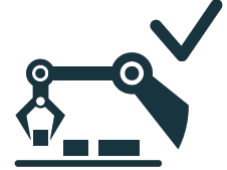


**EASY SYSTEM
RECONFIGURATION**

RTStand INDUSTRIAL

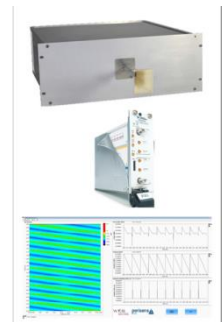


Production/EoL tests



PRODUCT QUALITY

RTStand RADAR



Want to learn more?

Our websites:

www.wks-informatik.de

www.rtstand.com

www.tube-analyzer.com

Our social channels:



<https://www.linkedin.com/company/wks-informatik-gmbh>

<https://www.youtube.com/user/WKSinformatikTV>

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