

TESTERLYZER

Automate the Core Compliance testing of your MOST devices



COMPANY

The company RUETZ SYSTEM SOLUTIONS was founded in 2006 and is specialized in car infotainment based on MOST technology. RUETZ SYSTEM SOLUTIONS is an “associated partner – supplier” with MOST Cooperation and actively contributes to compliance verification within the MOST Technical Compliance Group.

We offer consulting services tailored to the specific needs of our customers in the car industry, advising you on specification and development of MOST-compatible components and devices, and on design and development of appropriate test series.

As a test house accredited by the MOST Cooperation, we support developers and test engineers through all steps of the process required for newly developed devices and components to comply with MOST Compliance – up to certification of control units according to the binding standards set by the MOST Cooperation.

Our consulting and MOST training services are further enhanced by a full product portfolio, which companies can use to carry out physical layer testing (PhLSTT for MOST150), Core Compliance testing (TESTERLYZER), MOST system testing and simulations (TTsuite MOST).

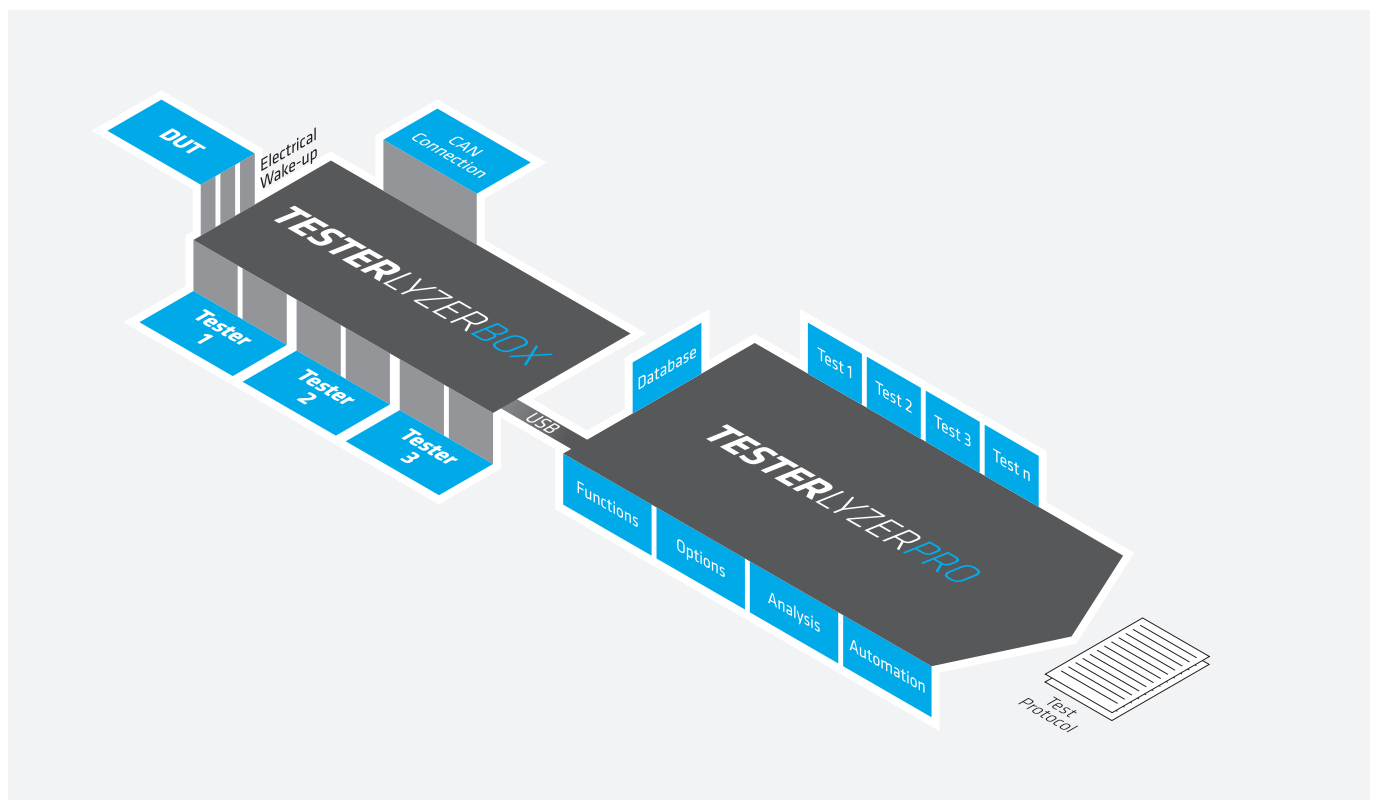
TESTERLYZER

AUTOMATE THE CORE COMPLIANCE TESTING OF YOUR MOST DEVICES

TESTERLYZER is the test system for network testing and for the MOST Core Compliance test which accompanies development processes. TESTERLYZER has a modular structure and consists of the system components TESTERLYZER Pro Compliance (testing software) and TESTERLYZER Box (measuring and automation hardware for MOST25 oPhy), as well as two Optolyzer® modules by the company SMSC which provide an interface to the MOST bus.

The most important features at a glance:

- Developed for MOST25, MOST50 ePHY and MOST150 projects
- Due to automation of all testing sequences a significant saving in time of up to 80% has been achieved compared with manual testing,
- Tests follow up-to-date MOST Core Compliance test specifications,
- Tests tailored to the specification of car makers
- Target-group specific protocols result in transparent documentation of test results
- Optimum preparation for MOST Core Compliance certification because RUETZ SYSTEM SOLUTIONS also uses TESTERLYZER for the official test



TESTERLYZER BOX (only necessary for MOST25 oPhy)

TESTERLYZER Box is the the measuring laboratory of the TESTERLYZER test system in compact form. TESTERLYZER Box provides automatic configuration of all test set-ups and high-precision measurements, so that no changes have to be made to the test set-up.

The most important features at a glance:

- Clear layout due to automatic test configuration
- Highly time-saving due to automation
- Significant reduction of potential sources of error since no manual changes need to be made to the test set-up
- Automatic control of light performance, optical dimmer and voltage
- Automatic, high-precision measurements and evaluation of timing, electric current, voltage and light performance
- Significant increase of reproducibility of test processes
- CAN link-up, electric and optical wake-up control

Electrical specifications		Optical specifications	
Line voltage	85 – 264 V	Attenuation in Tx	0 – 30 dB
Frequency	50 – 60 Hz	Resolution	0.1 dB stages
Output voltage	0 – 16 V DC	Optical output	Typ: -10 dBm
Output current	max. 16 A permanent	Light wave length	650 nm
Electrical measurement		Optical measurement	
Voltage	+/-50 mV	Optical power budget	-40 to -2 dBm
Current	+/-1 %	Measurement accuracy	+/-0,3 dBm
No-load current	+/-1 %	Optical timing	+/-100 µs
El. wake-up / diagnostic	+/-1 ms		
CAN link data			
Transfer speed	50 / 62,5 / 83,3 / 100 / 125 / 250 / 500 / 1000 kbit/s		
Type	CAN 2.0 A (11 bit) / CAN 2.0 B (29 bit)		

TESTERLYZER TEST CONTENT

TESTERLYZER REPORTING

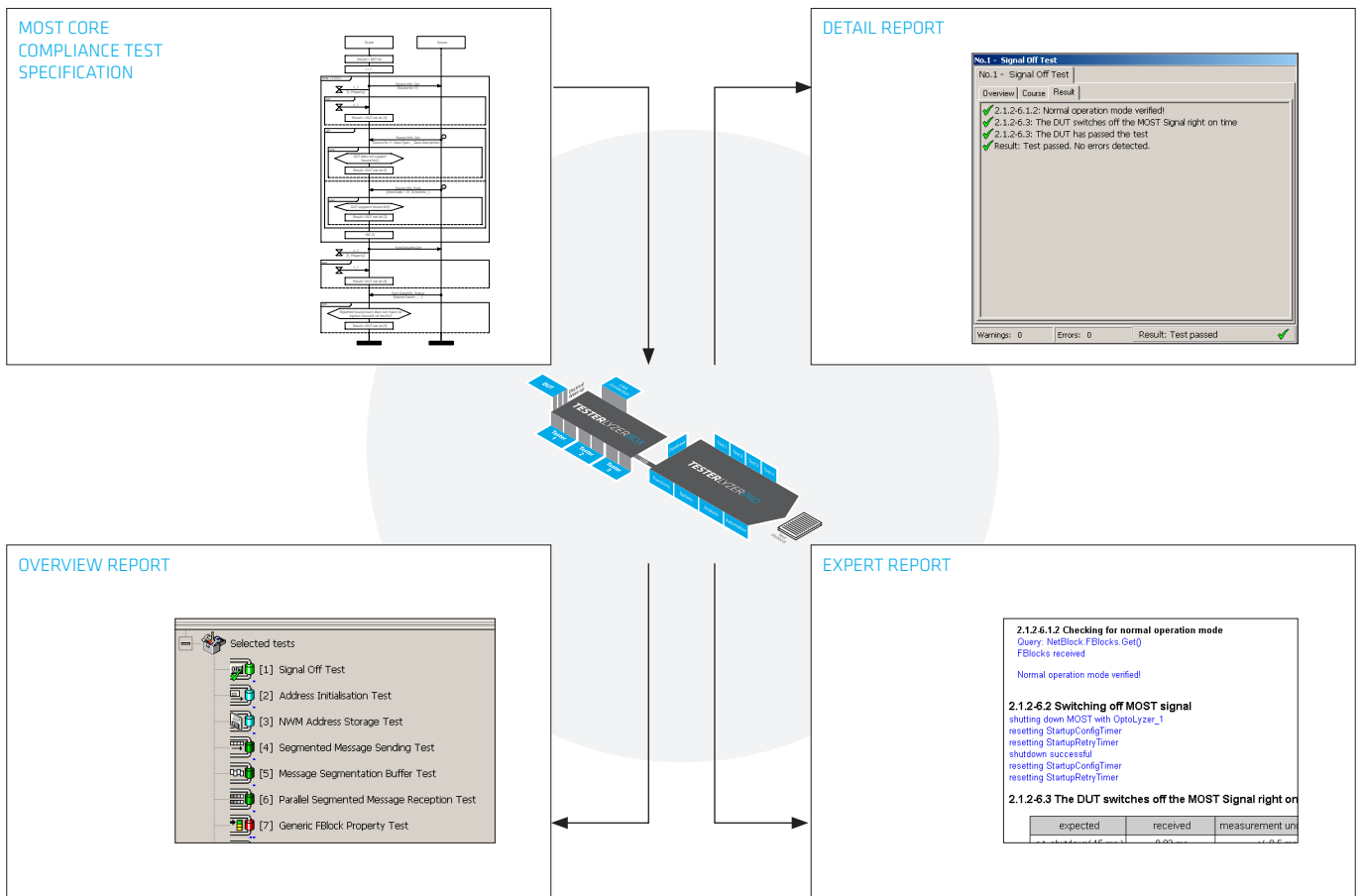
Test cases tested by TESTERLYZER include the following MOST Core Compliance test specifications:

- 1v1
- 1v2
- 1v3 and higher

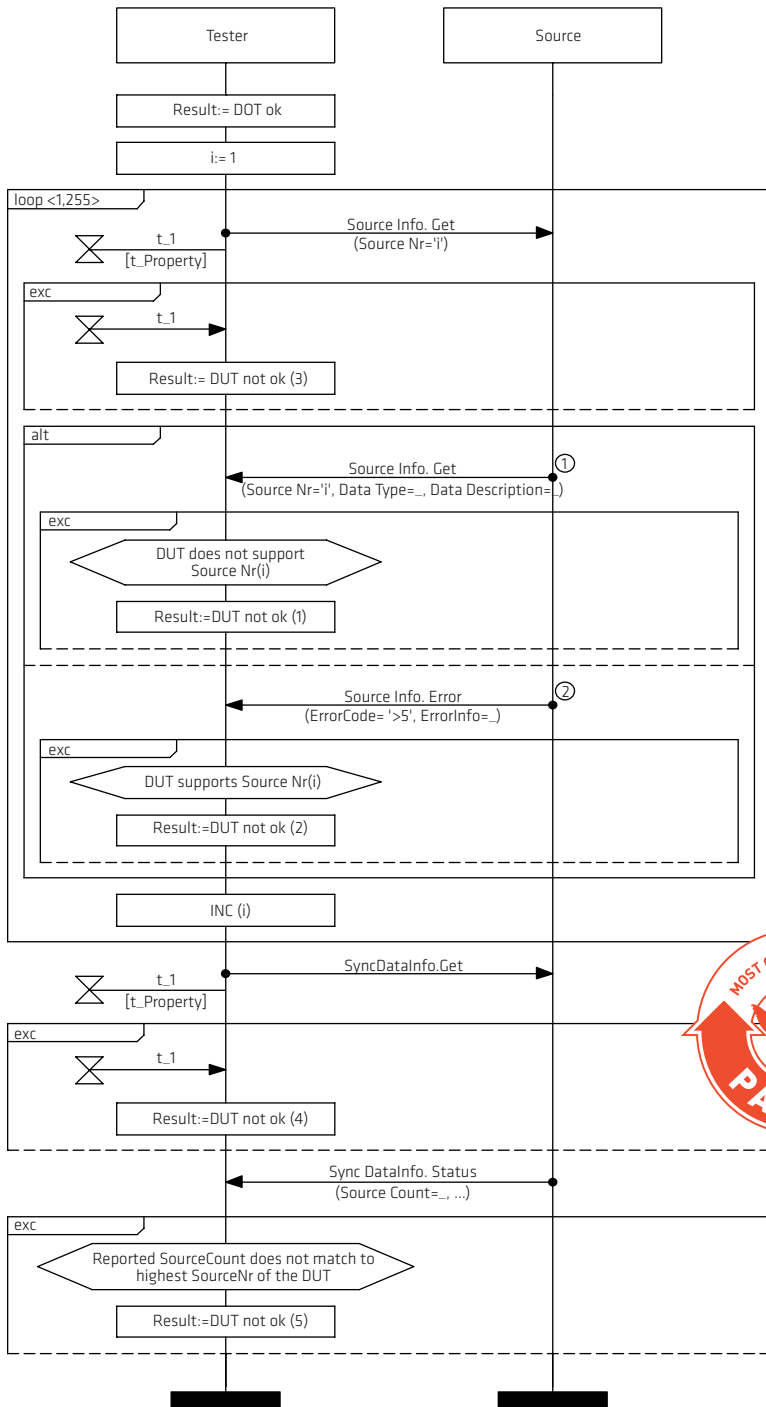
Test cases are subject to continuous improvement and enhancement and are made available as updates within the framework of maintenance agreements on a regular basis. In addition to MOST Core Compliance tests, the focus is, above all, on car maker-specific so-called application recommendations. These have been designed in consultation with the car makers and integrated into test cases.

Test results are reported with three levels of details tailored to each target group:

REPORT OVERVIEW provides an overview of which tests have been passed and which ones were failed. In addition, **REPORT DETAIL** provides a detailed description of errors and **REPORT EXPERT** also displays the BUS protocol with all details in addition to the test process.



MOST CORE COMPLIANCE TEST



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