RUETZ
SYSTEM SOLUTIONS

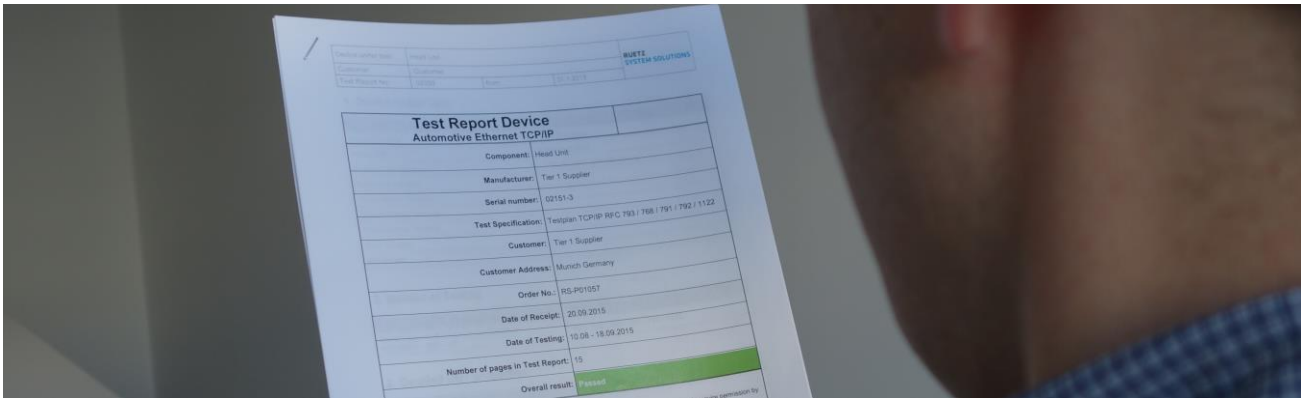# Automotive Ethernet Compliance Tests

Compliance Verification Process for Open Alliance Test Specifications

Automotive Ethernet Compliance Test

OPEN Alliance TC8 v1 und TC8 v2:

⇨ Automotive Ethernet Compliance Test (Layer 1)

  ⇨ PMA (Physical Medium Attachment Sublayer) Test
  ⇨ IOP (Interoperability) Test

⇨ Switching Test TC11 Layer 2(IEEE 802.1Q / IEEE 802.1p)

  ⇨ General Switch Requirements
  ⇨ Address Resolution (ARP)
  ⇨ VLAN
  ⇨ Quality of Service (QoS)
  ⇨ Filtering

⇨ TCP/IP Protocol Family Compliance Test Layer 3 – 4 (IPv4 / IPv6)

  ⇨ Layer 3: Network Layer, IP, ICMP
  ⇨ Layer 4: Transport Layer, UDP, TCP, DHCP

⇨ Automotive Protocols Compliance Test

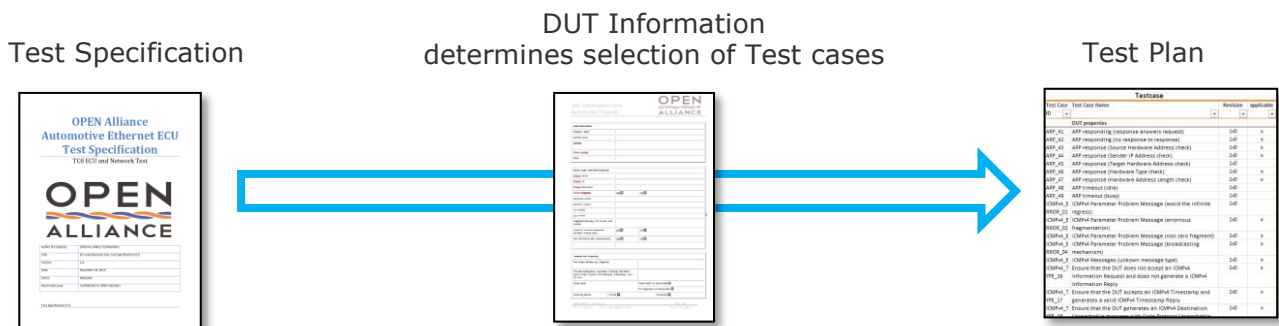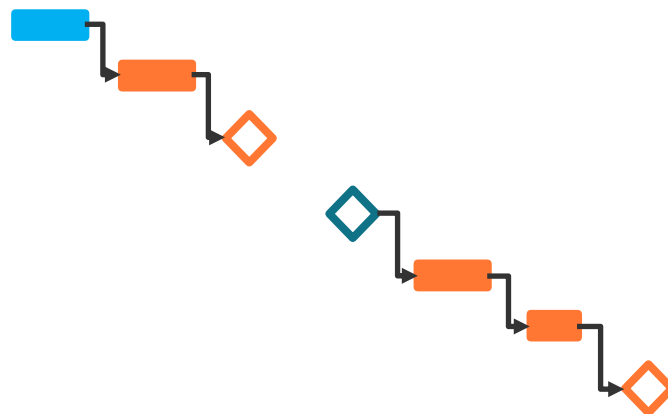 ⇨ Layer 5-7: Application Layer, SOME/IP, UDP-NM

AVB/TSN Compliance Test

⇨ AVnu Recognized Test Facility (RTF)

Additional: OEM Add-Ons

RUETZ
SYSTEM SOLUTIONS

Automotive Ethernet Compliance Tests

Example for a test cycle (at a Integration Step)

Supplier provides DUT information

Test House creates Test Plan

Release of Test Plan

Delivery of DUT Sample

Test execution

Test result evaluation

Delivery of Test Report

Test Specification

DUT Information
determines selection of Test cases

Test Plan

RUETZ SYSTEM SOLUTIONS

With comprehensive expertise in data communication for automotive electronic systems Ruetz System Solutions offers **Compliance Tests, Engineering Services for system specification and integration**, **Test Laboratories, Technology Assessment and Automotive Ethernet Trainings**.

More information is available at www.ruetz-system-solutions.com.

Contact

RUETZ SYSTEM SOLUTIONS GmbH
Oskar-Schlemmer-Straße 13
80807 Munich, Germany
T +49 89 2000 413-0
E info@ruetz-system-solutions.com

V1-4