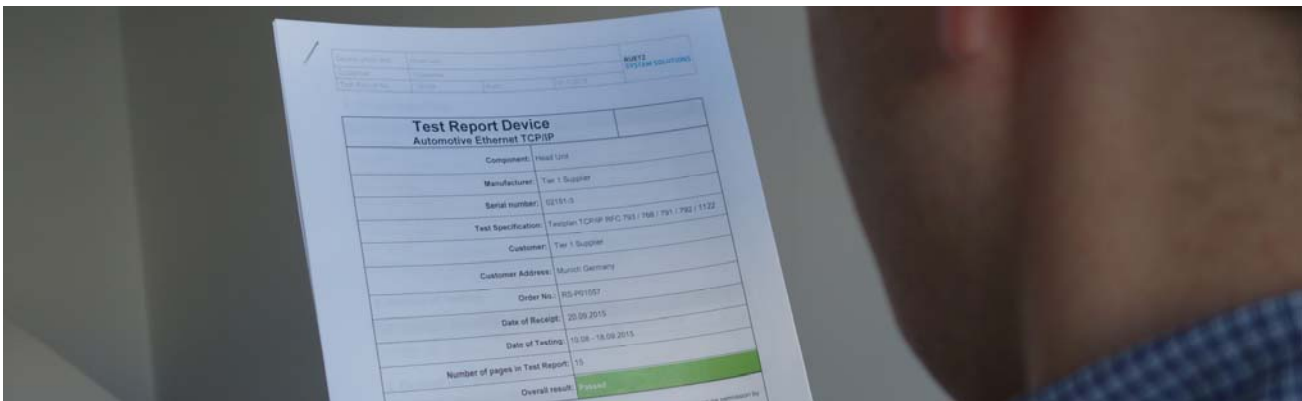


## Automotive Ethernet Compliance Tests

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### Compliance Verification Process for Open Alliance Test Specifications



### Automotive Ethernet Compliance Test Scopes

#### Layer 1 (PHY)

- ⇒ Interoperability Tests
- ⇒ PMA

#### Layer 2 (MAC)

- ⇒ VLAN Testing
- ⇒ QoS Testing
- ⇒

#### General Switch Testing

- ⇒ Ingress Filtering
- ⇒ Diagnostics

#### TCP/IP Protocol Family

- ⇒ Address Resolution Protocol (ARP)
- ⇒ Internet Control Message Protocol version 4 (ICMPv4)
- ⇒ Internet Protocol version 4 (IPv4)
- ⇒ Dynamic configuration of IPv4 Link Local Address
- ⇒ User Datagram Protocol (UDP)
- ⇒ Dynamic Host Configuration Protocol version 4 (DHCPv4)
- ⇒ Transmission Control Protocol (TCP)

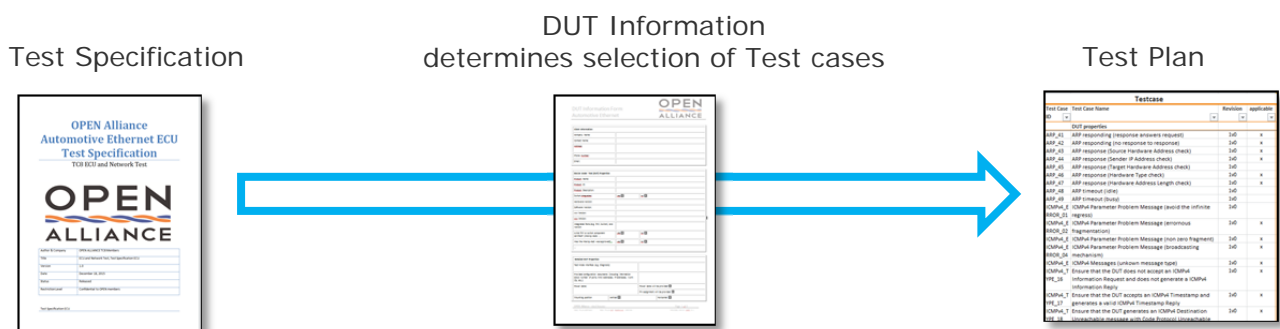
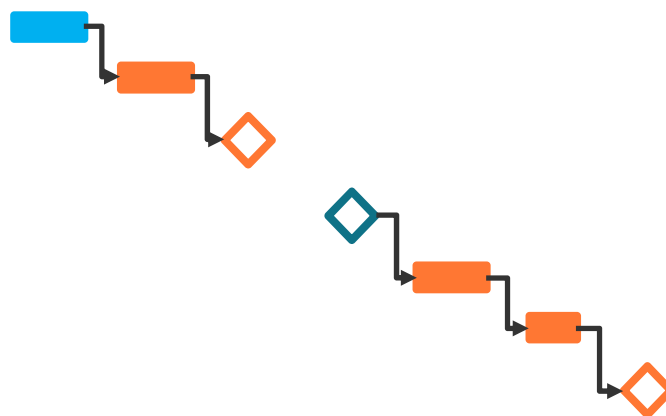
#### Automotive Protocols

- ⇒ SOME/IP
  - ⇒ SOME/IP SD
-

## Automotive Ethernet Compliance Tests

Example for a test cycle (at a Integration Step)

- Supplier provides DUT information
- Test House creates Testplan
- Release of Testplan
- Delivery of DUT Sample
- Test execution
- Test result evaluation
- Delivery of Test Report



## 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](http://www.ruetz-system-solutions.com).

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