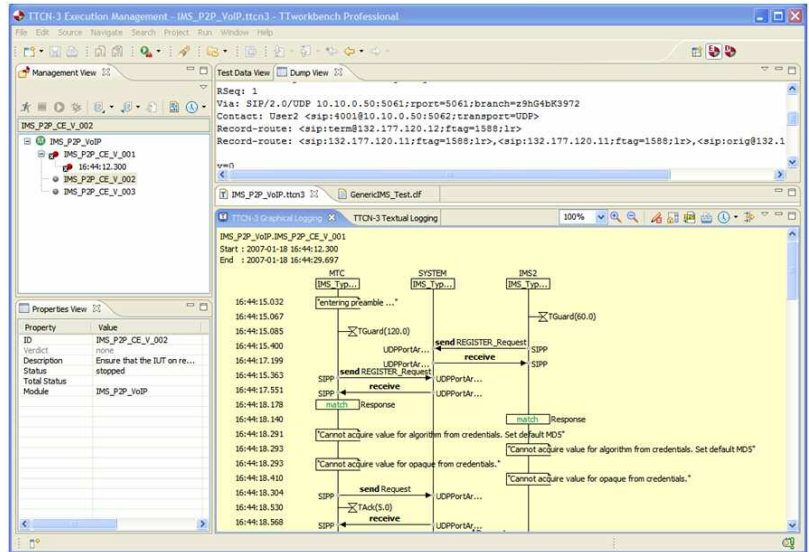
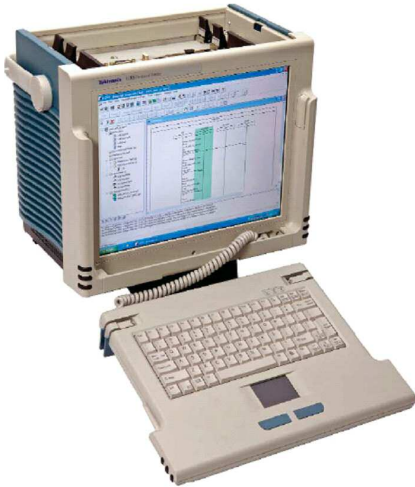


K1297-G35 IMS Interoperability Test Suite

Functional Test Solution for IMS Networks



Overview

The Tektronix IMS Interoperability Test Suite consists of more than 100 selected test cases. The test purpose definition was conducted in cooperation with the team of Europe's largest open IMS test laboratory, the Fraunhofer-FOCUS IMS Playground and with IMS test centers of large network equipment manufacturers around the world.

The test cases were carefully designed to focus on procedures which are complex and likely to cause interoperability problems. The abstract test suite implementation is in TTCN-3, the global open standard for test case definition. Using a suite of test cases allows for a high degree of test-automation, boosting the efficiency of IMS device and system test campaigns, significantly reducing test time (time to market) and test cost.

The Tektronix IMS Test Suite is executed inside the Tektronix TT-Workbench application, a TTCN-3 execution and editing environment for the Tektronix K1297 G20 and G35 series of protocol test systems. All test traffic is captured and decoded through the G20/G35 analysis software, allowing for rapid root cause isolation of failed test scenarios.

Features & Benefits:

- Readily defined and validated specialized test cases for wide and deep testing of IMS implementations
- Immediate results in assessing standard conformance and interoperability at P-CSCF and I-CSCF interfaces
- Easy to use, fully automated test execution environment
- Implemented in open standard TTCN-3 test case description language
- Combined with the broadest set of communication test capabilities with the support of more than 3000 protocols on K1297 test platform

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Functional Test Solutions for IMS Networks

Characteristics

Test cases covered by the Test Suite are listed in the table below:

Test-Interface: P-CSCF (Gigabit Ethernet)	
Test Description	Test Case Count
Core Registration (CR)	4
Peer-to-Peer (P2P)	10
Push to Talk over Cellular (POC)	44
TBCP	7
XDMS	8
COPS/Diameter	13

Test-Interface: I-CSCF (Gigabit Ethernet)	
Test Description	Test Case Count
Core Registration (CR)	4
Peer-to-Peer (P2P)	4
Push to Talk over Cellular (POC)	10
XDMS	2

Applications

Conformance testing for functions such as IMS core registration, peer-to-peer session management, PoC, TBCP, XDMS and COPS/Diameter.

For Further Information

Tektronix maintains a comprehensive, constantly expanding collection of application notes, technical briefs and other resources to help engineers working on the cutting edge of technology.

Please visit www.tektronix.com

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