eCall Simulator Platform
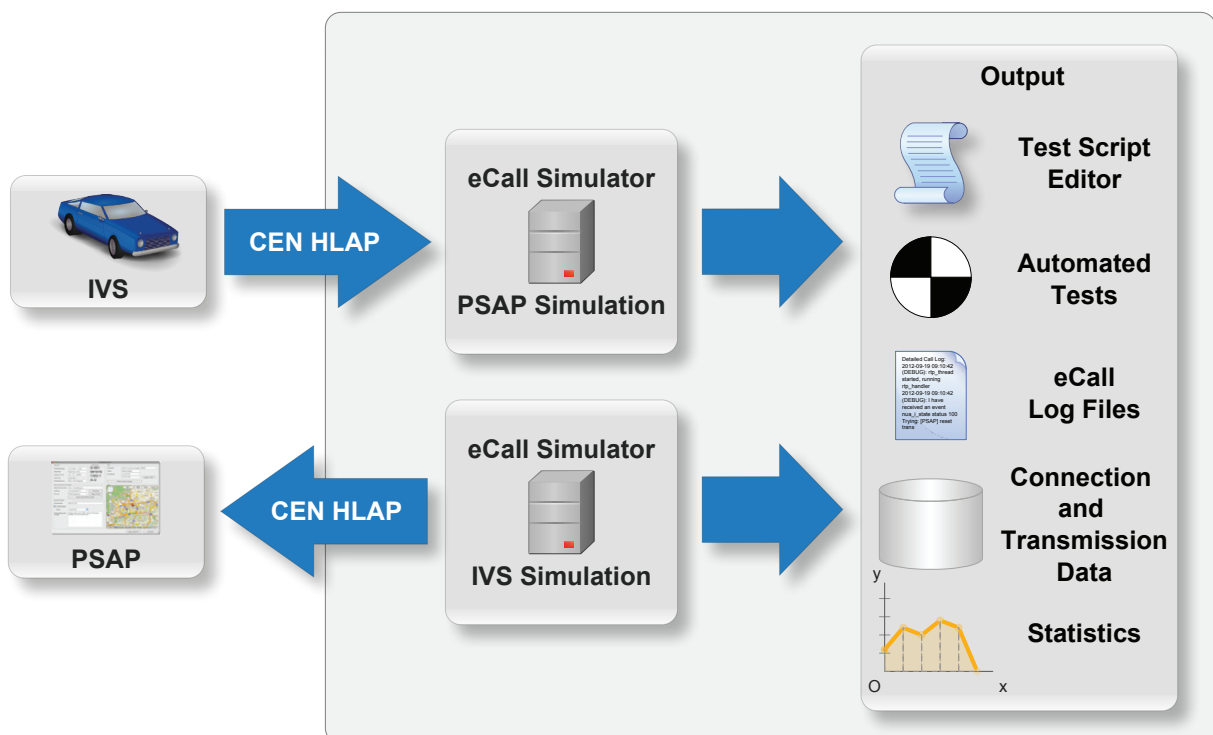
Develop and Validate Pan-European eCall Components

Features

- 76 test cases according to
  - EN 16454 (Intelligent Transport Systems - eSafety - eCall end to end conformance testing)
  - ETSI CTI Plugtests Guide Stable
- Development and validation of pan-European eCall components
- Simulation of both IVS and PSAP systems
- Textual and graphical logging with different levels
- Test data view with analysis support
- Generation of test reports (HTML, PDF, Excel, Word)
- Audio and data transmission logging
- Parameter set for HLAP and in-band modem for each test case variable for border and tolerance tests
- Detailed event logs with direct link to google maps, instant delivery via email for instant success control
- eCalls can be forwarded to existing telephone systems, VoIP phones or mobile phones

Benefits

- Approved test automation platform based on standardized TTCN-3 language
- Conform with applicable eCall standards in compliance with CEN and ETSI
- Certified tool for development of IVS and eCall PSAP extensions
- Fast and simple test execution and analysis
- Repeatability of tests and full support of test automation
- Extension capabilities via open and standardized APIs

eCall Simulator Platform

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eCall Simulator Variants

	Enterprise	Professional	Basic
PSAP Simulation (Simulates a complete eCall PSAP solution for IVS conformance testing)	●	●	●
IVS Simulation (Simulates an eCall compliant in-vehicle system for PSAP conformance testing)	●	●	●
Supported ISDN Channels	30 channels		2 channels
TTworkbench Software (For easy and powerful test execution)	●	●	●
27 Functional Tests (According to ETSI CTI Plugtests Guide Stable Draft V0.0.8)	●	●	●
49 End to End Conformance Tests (According to EN 16454)	●	●	
User-Defined Test Cases (Take advantage of the TTCN-3 language to modify/create your own tests)	●	●	
Unrestricted TTCN-3 Compiler	●	●	
GSM Support for IVS Simulation (optional)	●	●	
19" Server Rack (High-End 19" Rack)	●	●	
Server Cube (Small Cube-Shaped Mobile Server System)			●
Provision of Services to Third Parties (Conformance Testing as a service for third parties)	●		

Standards

- CEN EN 15722:   Intelligent Transport Systems - eSafety - eCall minimum set of data (MSD)
- CEN EN 16062:   eCall High Level Application Requirements (HLAP)
- CEN EN 16072:   PanEuropean eCall-operating requirements
- EN/ISO 24978:   ITS Safety & emergency messages using any available wireless media - Data registry procedures
- ETSI TS 122 101:   Universal Mobile Telecommunications System (UMTS); Service aspects and Service Principles
- ETSI TS 124 008:   Digital cellular telecommunications system (Phase 2+); UMTS; Mobile radio interface Layer 3 specification; Core network protocols; Stage 3
- ETSI TS 126 267:   eCall data transfer; Inband modem solution; General description
- ETSI TS 126 268:   eCall data transfer; Inband modem solution; ANSI-C reference code
- ETSI TR 126 969:   3rd Generation Partnership Project; Technical Specification Group Services and System Aspects; eCall Data Transfer; Inband modem solution; Characterisation Report

Requirements

- ISDN standard connection or/and VoIP Telephony System (for PSAP simulation)
- GSM mobile device with Bluetooth Handsfree profile (for IVS simulation)
- 230V / 50-60 Hz power supply
- VGA or HDMI monitor (FullHD for best results)
- Internet connection with access to Google Maps

Contact

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