



A product of the OECON Products & Services GmbH

4.0



eCALL TEST- AND DEVELOPMENT SERVER 4.0

UPDATE - 2.0

CURRENT MODEL - 4.0

2010



2014



2019



2024



LAUNCH

Test- & Development Server 1.0

UPDATE - 3.0



A SUCCESS STORY

Since its introduction in 2010, our eCall test and development server has achieved remarkable success.

Automotive manufacturers and suppliers globally rely on our tools to test the eCall devices in their vehicles using a certified solution.

Key features of all versions of the eCall Test and Development Server:

- Certified eCall test platform for vehicle manufacturers, suppliers and in-vehicle system (IVS) developers for the development of eCall vehicle components for eCall with Inband technology and ecalling with SIP support
- Ideal for IVS real-time and field tests for pan-European eCall and ERA GLONASS, supports current specifications in accordance with CEN, ETSI and GOST R
- Complete, easy-to-use web interface for PSAP simulation, configuration of test cases and evaluation
- Modernized user interface with added dark mode
- Detailed process logs with map display, immediate delivery via e-mail for success monitoring

The new version 4.0 of the eCall Test and Development Server is already prepared for the next generation of eCall:

Certified support for eCallNG with SIP header-based data transmission

The server accepts and transmits calls over IP-based telephony and decodes the MSD data transmitted in the SIP header.

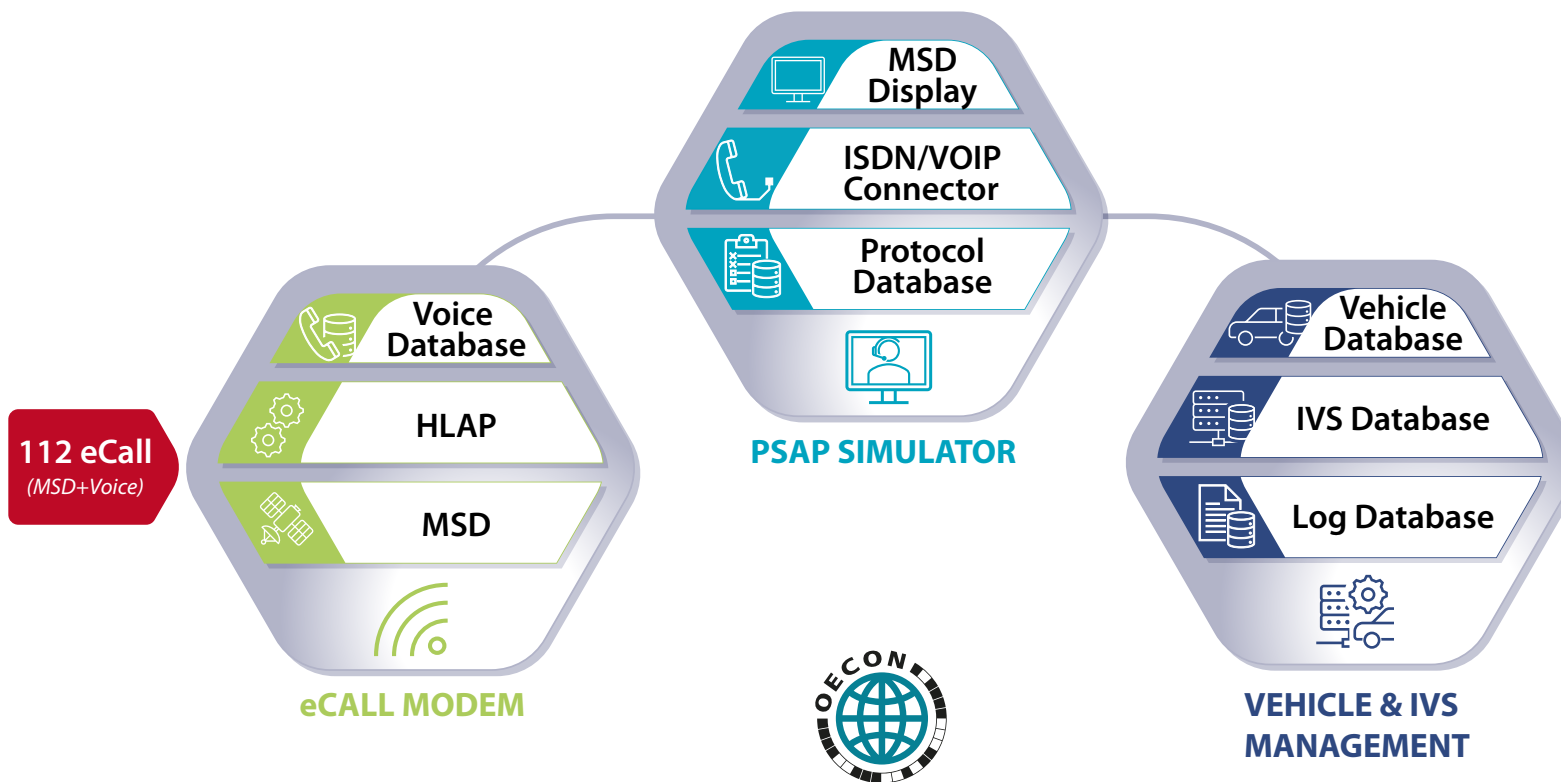
Remote interface for integrating the server into existing automation test procedures

This interface allows you to perform everything that is possible within the web interface from an automation testing tool - including the functions „recall“, „resend MSD“ and „audio loop“.

Comprehensive set of predefined test cases in accordance with EN16454 and EN17240

These test cases can be used to test the conformity of an eCall-based ITS in accordance with EN16454 without further preparation. The extended test options are still available for your own customised tests.

- ✓ CERTIFIED SUPPORT
- ✓ REMOTE INTERFACE
- ✓ COMPREHENSIVE SET OF PREDEFINED TEST CASES



eCall / ERA GLONASS Test and Development Server



IT'S A FACT:

From January 1st, 2026, eCallNG will become mandatory across the European Union.



Support for all communication types

The eCall test and development server supports all current and new communication channels for eCall:

In-band modem for pan-European eCall according to ETSI TS 126 268.

Data (MSD) is transmitted over the voice channel, i.e. data and voice use the same line and are received by the same operator at the PSAP. Version 4 of the eCall Test and Development Server supports VoIP-based telephone systems and connections. It also provides features for configuring the telephone network, including echo cancellation tones.

SMS and IP transmission for ERA Glonass.

The Russian ERA Glonass system uses not only in-band technology, but also SMS and IP data for vehicle data transmission. To support this, an SMS gateway is required in addition to the eCall test and development server.

eCallNG Data transmission via SIP header.

The next generation of eCall will transmit data at the same time as voice, and at a faster rate than before. The eCall Test and Development Server V4 is fully prepared for this upgrade and can also receive and process data via SIP.

Incoming calls can be redirected to existing telephone systems, VoIP phones, or mobile phones. This allows for not only fully automatic operation with announcement capabilities but also simulates a genuine PSAP operation with a voice connection.



IMPORTANT TO KNOW:

To receive eCall data via SIP, a direct point-to-point connection between the vehicle and the server is necessary, and the vehicle must be equipped with a SIP-enabled eCall device.



Reproducible and meaningful test results

Since previous versions, the eCall test and development server has offered comprehensive test case management. We have thoroughly revised this again in the new version 4:

Test cases are linked to the numbers of the eCall vehicle systems.

This allows reproducible tests to be performed for each vehicle / ITS. Each test case contains a set of parameters for HLAP and the in-band modem to allow limit and tolerance testing.

Detailed process logs are generated with the digital map.

Depending on the test case, the logs can be emailed to up to two recipients for immediate success monitoring.

Multi-user capability through user groups:

Calls, phone numbers and test cases are only visible within a user group, so that the eCall Test and development server can also be used by independent groups.

Predefined test cases according to EN16454:2023 and EN17240.

This allows you to check the compliance of an eCall-based IVS with EN16454 and EN17240 without further preparation. The test cases support all EN16454 and EN17240 tests that require the PSAP as a receiver.

Test cases also support multi-part functions.

For example, the functions "Resend MSD" (second request for an MSD record by the PSAP) and "Call back" (call back by the PSAP after a fixed time) can now be executed per test case without the need to intervene in the user interface of the eCall Test and Development Server.

Support for test automation environments

With the "Remote Interface" add-on module, version 4 of the eCall test and development server offers for the first time a comprehensive interface that can be used for test automation - also for integration into existing automation environments:

A remote interface allows you to call all functions that are also available in the web interface.

This applies to the process during the test, but also to the configuration of the eCall test and development server, for example when processing test cases.

Easy control and integration into automation environments using an XML control protocol.

The web interface of the eCall test and development server is of course still available, but the tests can also be run completely without it.

Usability of all test cases for conformity testing in accordance with EN16454.

Immediately after installation, the server is available for conformity tests, as the required test cases are already included in the basic configuration.



YOUR BENEFITS:
Comprehensive
test case
management
and interface.



Maximum flexibility through modular design

eCall Test & Development Server 4.0

BASIS

01

OPTION



**IVS
Test Server**

02

OPTION



**Remote
Interface**

03

OPTION



**ERA
Glonass**

Modular concept

The basic module „eCall Test and Development Server“ as the basis of all functions is required for all additional modules. All additional modules are independent of each other and can be used at the same time.

IVS Test Server add-on module:

The „eCall IVS test server“ is certified and meets all requirements of the eCall EU standards and the Commission Delegated Regulation (EU) 2017/79 and . Therefore, the eCall IVS Test Server can be fully used to perform an eCall Conformance Test with eCall Vehicle Systems (IVS).

Remote Interface add-on module:

The Remote Interface allows you to call all functions that are also available in the web interface from Third-Party applications. This concerns the procedure during the test, but also the configuration of the eCall test and development server, for example when processing test cases. It is therefore ideally suited for integration into (new or existing) automation environments.

ERA Glonass add-on module:

The Russian ERA Glonass system is based on the specification of the pan-European eCall, but adds additional functions for data transmission, for example via SMS. The add-on module enables the use of all PSAP-related ERA Glonass functions in accordance with GOST R.



IT'S YOUR CHOICE:

The eCall test and development server has a modular structure and can be expanded as needed with additional modules.

Configuration options

The eCall test and development server can either be installed locally at the customer's site or used as a hosted variant at OECON - depending on the customer's options and regulations for security and technology.

Local Installation:

Delivered as a preconfigured virtual machine, running on Intel Core i5 or equivalent AMD processor platforms. Further requirements:

- *Minimal 4GB RAM - recommended: 16GB RAM*
- *Storage: 500GB*
- *VoIP telephone system or VoIP connection*
- *Internet access or intranet access for web interface (https, port 443)*
- *Digital map requires access to openstreetmaps.org*
- *Server PC on 19" housing basis with pre-configured system optionally available*
- *Software maintenance contract is included*



**MAXIMUM
FLEXIBILITY
FOR CUSTOMER
CONVENIENCE**

Hosted Variant:

**Access to the OECON eCall server in Germany.
Runs on common browsers:**

- *Google Chrome, Mozilla Firefox, Apple Safari, Microsoft Edge*
- *Additions and administration are made by OECON*
- *Software maintenance contract is included*



**Customer
accounts with ex-
isting contracts will
be migrated to the
new version.**

**We offer
attractive up-
grade specials for users
of earlier versions of the
eCall Test and Devel-
opment Server - please
contact us.**



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