Mecel MATE for UDS – New features available

Göteborg, Sweden – March 2007

MATE

MATE - Mecel Automated Test Environment is a generic test framework that can be used as a platform for test of software in an electronic control unit (ECU). The tool is PC-based and the ECU to be tested is connected through one or more devices connected to the PC.

MATE is used as a test platform in a various amount of applications in projects, such as diagnostic communication, Bluetooth communication, and automated voice recognition tests. We offer some standard test suites, based on MATE, which can be used to verify conformance to different standards and specifications.

Currently following MATE for Diagnostic standard test suites exists:

- MATE for Loc3T
- MATE for KWP2000 - ISO14230
- MATE for UDS - ISO 14229
- MATE for GMW3110

MATE for UDS (ISO14229)

MATE for UDS (Unified Diagnostics Services) is a complete test environment for diagnostic communication according to ISO14229-1. This is the emerging standard for diagnostic communication in vehicles and has appliances on several communication media such as CAN, MOST, Flexray, etc.

The table below describes the test coverage of the MATE for UDS test suite referring to the standard for vehicle manufacturer enhanced diagnostics.

OSI layers	Vehicle manufacturer enhanced diagnostics	MATE for UDS
Diagnostic application	User defined	n/a
Application layer	ISO 14229-1 / ISO 15765-3	•
Presentation layer	n/a	n/a
Session layer	ISO 15765-3	•
Transport layer	ISO 15765-2	•
Network layer	ISO 15765-2	•
Data link layer	ISO 11898-1	-
Physical layer	User defined	n/a

FEATURES

Automated

The MATE test environment is designed to run automated tests, without human influence. This prevents human errors, makes the tests reproducable and makes the system testable by non experts.

Easy to use
MATE has an intuitive graphical interface. Just load the settings, select the test to be run and click execute and MATE does the rest.

Complete
Unlike some other automated test systems, MATE gives a complete test coverage. This is possible since MATE is adapted to each OEM's specific needs. MATE also enables regression testing i.e. a complete test of all functionality can be run each time the system is tested. However, if you don't want to test all functionality each time, MATE lets the tester skip one or more functions. This is a powerful tool when testing an ECU before the development is completed or to prevent the ECU to enter an invalid state.

Saves time
Time consuming tests can be set up to run over night. Test reports can automatically be sent by e-mail for evaluation.

Flexible
MATE can be set up to suit different OEM:s and plattforms. Parameters like ECU variants and timing parameters are set up using the MATE settings graphical interface.

Detailed test reports
MATE can produce test reports in several different formats: Text reports for easy to understand plain text reports. Detailed CAN logs that shows all CAN frames on the bus with a 100 us resolution timestamp. XML-reports to be parsed to different formats or exported to third party programs.

For further description and information please visit:
http://www.mecel.se/products/mate/default.shtml
or
http://www.mecel.se/products/mate/uds/default.shtml

About Mecel

Mecel AB a subsidiary of Delphi Corporation, with main operations in Gothenburg, Sweden, is a systems, software, and service development company with more than 20 years experience in developing solutions for the automotive industry. With expertise in on-board application platforms (QNX, Java, embedded systems), communication concepts (CAN, MOST, Bluetooth, GSM), and off-board service development, Mecel can, with its 110 employees, manage all kinds of systems and software development programs. Further information about Mecel products and services is available at www.mecel.se.

Press contact for Mecel AB:

Kent Eric Lång, Managing Director
Phone: +46 704 313320
Fax: +46 31 40 31 50
e-mail: kent-eric.lang@mecel.se

This news is available at http://www.mecel.se/news.