# EDICnet MOST®

## The MOST Evaluation Platform

## Overview of Services

### Networking Multimedia Devices in the Vehicle

Shorter and shorter cycles in vehicle development and the increasing range of infotainment devices require the early detection of weaknesses in the implementations of the MOST* ring. The interaction and testability of all multimedia components (telephone, CD changer, navigation system, TV tuner, head unit etc.) integrated in the MOST ring must be ensured for smooth collaboration. ECU manufacturers and OEMs thus have to rely more and more on the early testing of their MOST applications using simulations and reference implementations.

### Areas of Implementation and Applications

With EDICnet MOST, Softing provides a universal device for ECU simulation and verification which is particularly useful for the following applications:

- Prototyping (e.g. ECU simulation, reference implementations)
- Concept evaluation (NIC, INIC25, INIC50, INIC150)
- Test system
- Diagnostic router

### Advantages

It is incredibly easy to create your own applications thanks to detailed documentation and a large number of reference implementations:

- Simple porting thanks to standardized API functions of the NetServices
- Parallel access to several bus systems (MOST, 2 x CAN, K-line) and availability of additional signals (analog-in and digital I/Os) on one hardware
- Can be used universally as it can be operated as a stand-alone device and can also be connected to a PC (WLAN, LAN, RS-232)
- PC card interfaces for memory extension

*MOST is a registered trademark of SMSC and licensed to Softing AG


EDICnet MOST – The MOST evaluation platform

### An Overview of Features

- Robust and compact stand-alone device
- Standardized API for fast creation of your applications
- Availability of various MOST controllers OS8104 (NIC), OS81050 (INIC25), OS81082 (INIC50), OS81110 (INIC150) from SMSC
- Real-time behavior and high stability even with maximum bus load
- Linking possible from different bus telegrams and I/O signals

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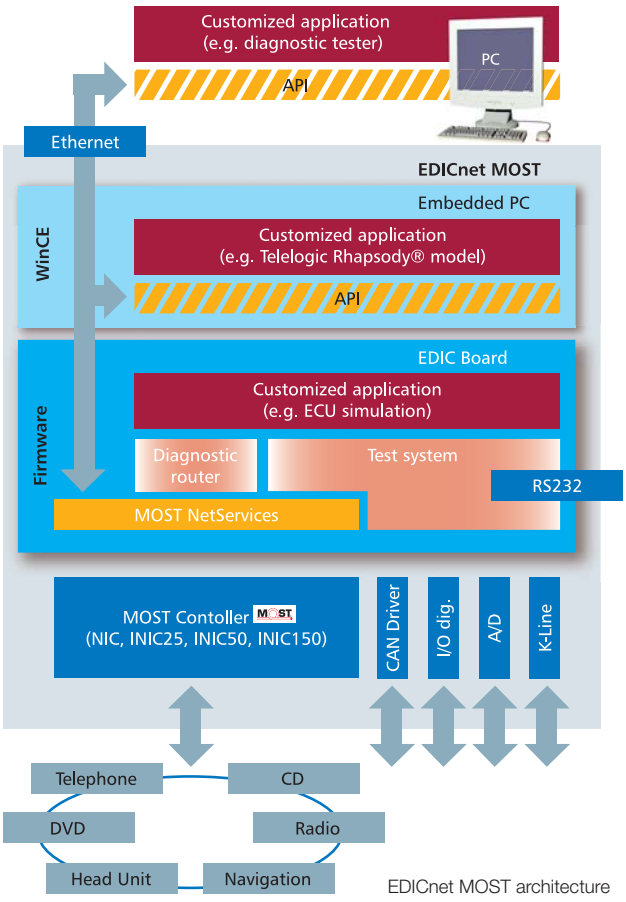
## Basic Software Package

On the embedded PC, proprietary applications are created on a workspace under Microsoft® eMbedded Visual Tools. The workspace contains the corresponding Software Development Kit (SDK) and application interfaces (API) for various tasks including the execution of Rhapsody® models. The application interfaces can also be used on the PC thanks to the use of Windows CE.

On the EDIC board, proprietary applications are created on a workspace under Microsoft® Visual Studio V6 and the Altium Tasking Compiler V8.5. The workspace contains a framework which in turn contains the device drivers for the vehicle interfaces, including the MOST NetServices from SMSC, used, for example, to embed the software packages of the optional applications.




EDICnet MOST architecture

## Optional Applications

The following are available as prefabricated applications:

- Diagnostic router for use as an interface for diagnostic communication and flash programming via MOST and CAN.
- Test system for using the MOST message services and addressing the MOST supervisor, embedded individual, sequence and performance tests. (Event) monitoring, reporting and time measurements are used as the basis for analyses. CAN, digital I/O and A/D converters are incorporated in the test sequence. Control via the remote control interface either via RS-232 or Ethernet.

## Services

Softing provides a consulting service as well as an extensive range of services for implementing applications on the MOST evaluation platform. Softing compiles, adapts or develops entire customized ECU simulations from the existing pool of reference implementations. Softing provides tailor-made solutions as a complete system for diagnostic and test applications with specific sequence logic.

## Technical Data: EDICnet

- RS-232/Ethernet for control
- Real-time clock for real-time sequences
- PC card interfaces (e.g. for RAM Disk)
- For further details, see “EDICnet” data sheet

## System Requirements

- Microsoft® eMbedded Visual Tools (basic software package)
- Microsoft® Visual Studio V6 (basic software package)
- Altium Tasking Compiler V8.5 (basic software package)
- For further details, see “EDICnet” data sheet

## Delivery Scope

- EDICnet hardware
- Plug-in board with selected MOST controller
- Utilities
- Documentation
- Workspaces (basic software package)



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