CANalyzer.MOST 7.1

The Analysis Tool for MOST Networking

MOST® (Media Oriented System Transport) is a serial communication system for transmitting audio, video, and control data via fiber-optic cables. Analyzing modern multimedia system requires comprehensive software tools. The ideal solution here is the well-known CANalyzer.MOST.

Features and Advantages

CANalyzer.MOST is a convenient tool for analyzing the MOST bus with the familiar 'look and feel' of the Vector tools. CANalyzer.MOST can be operated as a spy for pure analysis or as master or slave in the MOST ring. Thanks to CANalyzer's multibus functionality the features for the CAN bus can be used in parallel.

Analysis Functions

The following analysis functions are provided:

> **Audio Routing**
The Resource Allocation Table is displayed in its own window. To listen via headphone output or to feed in audio data into the ring, connection labels may be selected

> **FBlock-Monitor**
This window displays an overview on all application states communicated over the bus

> **Central Registry**
The contents of the Central Registry are displayed in a dedicated window, and it is easy to check these contents against reference contents. The synchronization with the Trace Window allows the determination of the registry contents at any given time

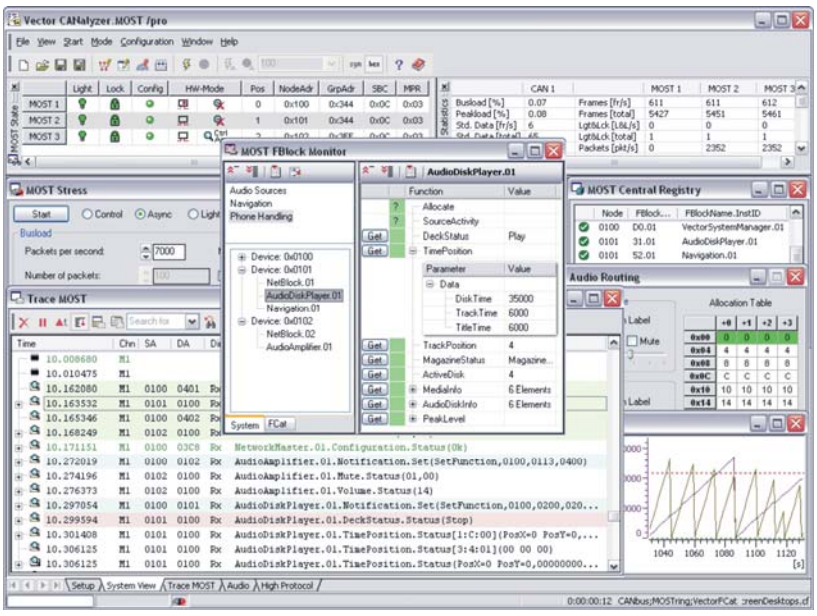
> **Disassembly via Function Catalog**
Direct integration of the Function Catalog enables structured display of complex parameters such as streams, records, and arrays in the Trace Window. Protocol observer for AMS and the MOST High Protocol allow the disassembly of the application data and identify protocol violations
The individual coloring of MOST events facilitates an efficient visual analysis of the MOST communication

> **Filtering by Configurable Blocks**
Filters can be created by selecting individual messages from the Function Catalog or by entering ranges, e.g. all messages to an FBlock, an InstanceID, or a physical address.

> **Triggering on MOST events**
User-friendly definition of trigger conditions based on MOST messages or system events like Light & Lock or number of nodes in the ring

> **Filtering and Triggering by CAPL**
Conditions of any desired complexity may be formulated in CAPL for filtering or triggering

> **Logging**
The user can control the logging process with the help of Filter and Trigger Blocks. Thus, starting and ending times of the log are just as easy to define as the selection of messages to be logged



MOST specific features in CANalyzer

V2.2 2008-11

Services

As part of our support and services we can handle projects involving customer-specific solutions for CANalyzer.MOST.

Moreover, we offer a MOST seminar in our classrooms and on-site at our customers.
For detailed information about our services and products please visit:
www.vector-worldwide.com/most/en

- Hardware and network states such as Light & Lock, Configuration Status, and node addresses are displayed clearly for each channel within a dedicated window
- Statistic Windows show – without any configuration effort - an overview of the bus load and the cycle times of messages
- The Graphic Window displays parameter values of messages and system states over the time
- CAPL supports the analysis and synthesis of AMS and CMS messages, as well as packets. The access to the MOST controller and network states such as Light & Lock and the Allocation Table is also possible
  Inline input assistance based on the function catalog facilitates an efficient creation of analyzing or stimulating programs.
- The streaming API in CAPL allows an automated analysis of the synchronous channels

Besides programming in CAPL, the following features to stimulate a MOST ring are available:

- The **Interactive Generator Block for MOST** permits sending of MOST messages selected from the XML Function Catalog and user-friendly configuration of even complex parameters. Messages and sequences may be sent out via CMS or AMS.
  A lot of additional information from the Function Catalog, like the valid scope and physical units of parameters, is shown in order to make setting parameters easy
- All messages can be easily edited individually in order to stimulate ECUs with erroneous messages.
  The use of the address handler and address variables allow an automatic reaction on changing ring configurations
- The **Replay Block** plays previously logged MOST messages back onto the MOST ring
- In the **Stress Window** a convenient user interface allows to generate bus load on the control channel and asynchronous channel and to introduce. Furthermore Light & Lock error sequences can be created

Gateway Functionality

The full functionality of all installed CANalyzer options may be used simultaneously (besides MOST also CAN, LIN, and FlexRay). Based on the example of a CAN MOST gateway installation this means:

- Simultaneous display of CAN and MOST messages in a common Trace Window
- Common logging of CAN and MOST messages in one or several logging files
- The two bus systems can share a common time base which is implemented by synchronization algorithms

New Functions in Version 7.1

- MOST High Protocol: The MHP observer now presents the application data earlier than before
- Interactive Generator: This block allows to send strings in different encodings
- Supported MOST logging file formats: IMG (Optolyzer G2, blue PiraT), OP2 (Optolyzer), CCO and CC3 (Condalo Logger)

VN2610: The MOST Hardware Interface for CANoe.MOST

- The MOST interface with USB 2.0 supports both Node and Spy mode simultaneously. It offers access to the control and asynchronous channels with very short latencies and the full bandwidth of MOST. Headphone output and LineIn, as well as S/PDIF input and output allow access to audio channels
- The streaming of all synchronous data via USB into the PC allows for a precise analysis of multi-channel audio streams
- Accurate measurement of unlock times, precise time-stamps with 1 µs resolution for all events and time synchronization with hardware interfaces of Vector's XL-Interface family completes the functionality
- Additionally the wide range of supply voltage makes VN2610 suitable for tests and analyses in the vehicle
- VN2610 is fully compatible with its established predecessor VN2600