

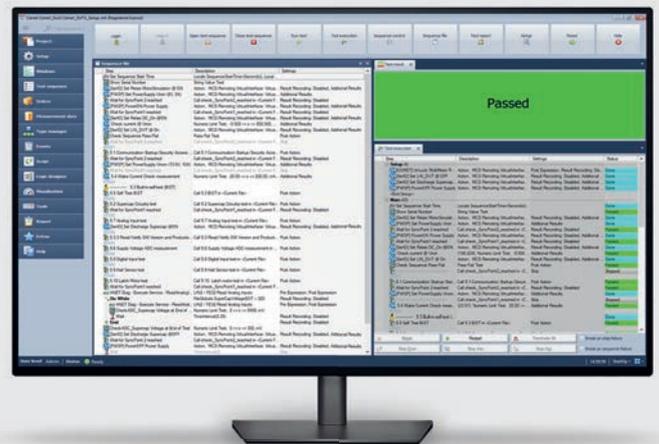
INTUITIVE CONTROL OF TEST SEQUENCES

MCD Comet connects the MCD software and hardware products with the National Instruments® TestStand® sequencer. In addition to the predefined interfaces for controlling and selecting TestStand® sequences, user-specific control elements can also be used.

The development of **MCD Comet** is based on many years of expertise of MCD Elektronik GmbH in the field of test and measurement systems.

MCD Comet was developed to provide a user-friendly and customizable platform for the creation and execution of test sequences.

The user interfaces are modern and flexible, as well as simple and intuitive to use. The range of functions can be scaled as required by adding application-specific MCD Toolmonitors.



■ INTUITIVE OPERATION

Modern and flexible user interface for an easy start and quick application. It is also possible to create customized user interfaces. An integrated GUI designer with a wide range of user controls is available for this purpose to optimally adapt the test environment to the demanded requirements.

■ CONTROL AND MONITORING

In addition to the comprehensive control options, the software also supports the automatic monitoring of test processes and enables the convenient saving of measurement data in SQL databases.

CUSTOMIZABILITY

- C#-based software platform with plug-in architecture
- Limitless integration of MCD's Toolmonitor portfolio
- Flexible integration of external software solutions, such as .NET, Windows and third-party DLLs
- Embedded C# script editor for high adaptability in complex and specialized test environments

■ VARIETY OF INTERFACES

Wide range of communication interfaces such as Ethernet (TCP/IP, UDP), USB, CAN, LIN, serial interfaces such as RS232, GPIB, REST and many more. In addition, extensive interfaces for integrating the MCD Toolmonitors enable direct integration and control of external software tools within the TestStand® sequences.

ADDITIONAL FUNCTIONS

- Order and type management
- Efficient control of PLC systems
- Control of different robot types

INSTALLATION

- Quick & easy installation with step-by-step instructions
- Easy to get started with quick start guide
- Intuitive user interface with customization of control elements up to the integration of user-defined workspaces

A STRONG INTERFACE FOR FUTURE-ORIENTED APPLICATIONS



Exemplary MCD test system with the MCD Comet software.

TOOLMONITORS FOR HARDWARE INTEGRATION

Toolmonitors can be used to integrate a comprehensive range of measuring and testing hardware. These are already available ready for use for a wide range of devices. **All common communication interfaces can be integrated.** For example, measuring devices, generators, oscilloscopes, power supply units, audio/video measuring devices, multiplexers, programming devices and sensors can be integrated easily and efficiently.

INTERFACES TO DATABASES OR PROCESS CONTROL SYSTEMS

All common external databases can be seamlessly integrated using predefined toolmonitors. In addition, **numerous interfaces to customer-specific database systems** are available. Examples include Microsoft SQL Server or SQL Express, Oracle, MySQL, MariaDB, SQLite and others.

INTEGRATION OF EXTERNAL SOFTWARE

MCD Comet offers the option of integrating third-party software. This integration enables the inclusion of classic Windows DLLs, .Net assemblies as well as LabView VIs or ActiveX components. This opens up extended possibilities for integrating external software solutions into the functionalities of **MCD Comet** and further increasing the performance of the system.

PRECISE & EFFICIENT TEST PROCESSES – THE PERFECT INTERFACE SOLUTION

MCD Comet is a comprehensive software application for the development and execution of user-specific test and inspection applications. It combines the MCD software and hardware products with the test sequencer TestStand® from the measurement and test technology manufacturer National Instruments®. The software enables the execution of test and inspection sequences via intuitive user interfaces, integrating all MCD Toolmonitors.

The **MCD Comet** user interfaces are modern and flexible, as well as simple and intuitive to use. In addition to the predefined interfaces for selecting and operating the TestStand® sequences, you can also create your own customized interfaces. A large number of graphical control elements are available for this purpose.

The application integrates the interfaces and functionalities provided by TestStand®, which can be incorporated into the user-defined interfaces. With just a few clicks, TestStand® sequences (*.seq) can be loaded and started in continuous or single-pass mode.

Debugging and single-step execution are also possible. **MCD Comet** itself and all MCD Toolmonitors offer interfaces for integration into other software tools. All available functionalities of the MCD software tools can be used directly in the TestStand® sequences via these interfaces.

In addition, new functions can be programmed in C# in **MCD Comet** and the range of functions can be extended by integrating external DLLs and third-party software.

REPORTING AND ANALYSIS OF MEASUREMENT DATA

If required, all recorded measurement data can be saved in almost any database and displayed again for tracking purposes. There is the option to generate automated test reports. Predefined templates are available for this purpose, which can be fully adapted to the respective customer requirements. The analysis, evaluation and logging of the recorded measured data according to various statistical procedures is fully automated.



MCD COMET BENEFITS FOR COMPANIES



COST SAVINGS

By automating tests and enabling multiple tests to be carried out simultaneously, companies can shorten their test times and save costs.



RELIABILITY

The ability to regularly check test systems using golden sample tests ensures consistently high quality and reduces the risk of production failures.



RESOURCE MANAGEMENT

The efficient management of costly hardware components means that resources are used optimally. This leads to better capacity utilization and lower investment costs.



FLEXIBILITY

The ability to adapt the software to specific requirements makes MCD Comet an extremely versatile solution that can be used in a wide range of industries.



INTEGRATION

MCD Comet can be effortlessly integrated into existing systems, minimizing investment in new hardware and software.



FUTURE-PROOF

The continuous development of the software ensures that MCD Comet always remains at the cutting edge of technology and meets future requirements.

MCD Elektronik GmbH is a leading global supplier of measurement and test systems that perform the most complex test sequences. MCD combines the areas of research and development, sales, production and service to create **customized test and measurement solutions**. These vary from FCT, BSCAN and EOLT systems to fully automated test lines for the production facilities of high-tech companies in various industries such as automotive, medical and aerospace.

MCD was founded in 1983 and supplies **complex test and automation technology** worldwide. The systems are used by well-known corporations as well as medium-sized companies for the **production and testing of electronic and mechatronic assemblies**.



Pictured: The headquarters of MCD Elektronik GmbH in Birkenfeld. This is the heart of the production of customized test systems - from conception to commissioning on site. Worldwide in over 60 countries.

MCD Elektronik GmbH

Hoheneichstr. 52, 75217 Birkenfeld, Germany

+49 (0) 7231 78 405 - 0

mcd-elektronik.com

Follow our LinkedIn Page

info@mcd-elektronik.de

