The experts at TEST-FUCHS help you step by step to map out the most efficient and effective test sequences. Use the fully automatic mode to ramp up productivity or perform investigative testing in manual mode.

Whatever your needs, we will design the software according to your requirements and not the other way around.

The operation of TEST-FUCHS software requires only basic computer knowledge and runs on Microsoft Windows. Test steps and sequences use simple commands that everyone understands. This enables operators to adapt or write their own test sequences.

The test sequences can easily be monitored, stopped and re-started. The operator always remains in control. The operation and handling of a test becomes simpler while still transmitting understanding what the test stand is doing and how it is performing.

Intuitive software that keeps the operator in control

- Easily create new and adapt existing test sequences on your own
- Stop and re-start automatic test sequences at any time
- Create and store automated customized test reports
- Archive results to ensure long-term data security
- Always stay compatible with older versions
- Use the software on any test stand

Reduce costs, complete jobs faster and increase reliability

Easy to use software that everyone can work with
The Software Functionality

Communication with PLC and Data Acquisition Hardware

A common communication layer provides the hardware independent access to measurements and set point values.

No special knowledge is needed of the different characteristics of the various measurement and control systems from the creator of the UUT-programs.

A variety of different measuring systems can be integrated in the TEST-FUCHS Software through an open interface.

FULLY INTEGRATED MEASUREMENT SYSTEMS:
- National Instruments DAQmx
- PXI-systems
- Sigmatek real time system
- Simatic S7
- ADwin real time system
- Beckhoff
- GPIB
- Serial

User Management

Profit from a fine-grained user privileges system using a built-in user editor. Simplifying the process of user management, there are already predefined user groups, which speed up the creation of new users. Based on these predefined user groups, the privileges of individual users can be refined.

UUTs and Serial Numbers

On a fully automated test stand, the TEST-FUCHS Intelligent Software manages the administration of generated test data and results on the UUT and serial number level. Additionally there is a distinction of sessions, which keep track when you test one UUT with a serial number repeatedly.

Online Data Recording

You can store all (or just a subset) of the measurements and set point values onto the hard disk directly. There are various file formats available for exporting and further analysis (e.g. text files, binary files, or TDMS).

Set Point Values Profiles

Create profiles like ramps, linear segments or sinusoidal waves with a built-in editor.

The editor is easy to use and adjustable with a few clicks.
The Graphical User Interface - handle it within a short time

A test stand is operated through multiple user interfaces and automatic test sequences. The operator logs into the software and with his individual login the respective user privileges are applied.

The interface of the test stand can consist of multiple screens. The operator can browse between these single screens to control the test procedure.

During an automatic test run the corresponding screen is shown automatically. On each screen any number of measurement value and set point elements can be displayed.

The measurements on these screens are shown with their physical unit. Different UUTs may have maintenance manuals with different physical units e.g. pressure can be specified in bar, psi or kPa. A basic feature of the user interface is the possibility to switch between the units while operating.

Furthermore it is also possible to create multilingual user interfaces for the test stand. The used language can also be changed online.

The user interface screens consist of different elements. The software has a built-in user interface editor, which allows you to insert, configure, arrange and delete the elements easy and directly.

To create descriptive user interfaces, the software provides elements to draw schematics, display pictures and symbols or text elements. There is an element to show html views directly in the user interface. This element is used to show instructions or test results.
Test Sequences

On an automated test stand you can execute preconfigured test sequences. These test sequences are especially tailored to the individual needs of the customer. The software provides the opportunity to start, stop and observe these automated sequences.

Test Reports

The TEST-FUCHS Intelligent Software collects all relevant test results during one or more automatic tests and produces a test report after all the necessary tests on a UUT are carried out.

The report generator uses predefined templates to generate test reports. These test reports can be printed or stored in Microsoft Word files or Adobe PDF files.

USE FOR YOUR REPORTS:

- UUT und serial number specific data (e.g. name of UUT or operator)
- Graphs generated with the diagram view
- Measurement and set point values with colour coded tolerance indication
- Variables like numbers, strings and booleans

EASY AND SIMPLE HANDLING

NO PROGRAMMING

NO SPECIAL TRAINING REQUIRED
With the TEST-FUCHS Intelligent Software and its adjustment tool justifying measurement channels is fast and easy. During the process of calibration it might be necessary to justify a measurement channel. In this situation the adjustment tool is your reliable help in your daily activities. The transducer characteristic for each measurement channel is stored in a database.

Adjust your measurement channels with a few easy steps!

Adjustment Tool
The TEST-FUCHS Intelligent Software package contains an easy to use tool for software management e.g. backup data

> Software Management and Updates

**Setup and Backup of Software Suite**

TEST-FUCHS Intelligent Software can be installed on a compatible computer running Microsoft Windows OS, via a menu-guided setup.

Upon delivery of the test stand computer system, a backup of the complete hard drive is created, using a commercially available hard drive-imaging tool. This image will be provided to the customer.

**Backup and Restore of UUT Programs and User Interface**

All user interfaces and UUT program files (including test parameters) can easily be backed up any time by using the TFVersion-Control tool. This useful tool allows the user to select what items they would like to backup and store it anywhere with just a few mouse clicks, regardless if these items were created by TEST-FUCHS or by the customer.

**Backup and Test Result Reports**

Test results, along with already generated test reports, are backed up with the TFVersion-Control tool too. A backup of these files can also be done with a few mouse clicks. The data can be restored with the Windows Explorer via copy and paste.

**ALWAYS UP TO DATE**

**EASY TO LEARN**

**EASY TO USE**
Create your own Test Sequences (additional licence and training)

This unique add-in tool provides you with an easy way to generate your own test programs on the main computer. Once you are done, you will not notice the difference between your own written test procedures and those already provided by TEST-FUCHS on the test stand. All the functions of this very powerful software are preloaded and available to you on-demand.

Use the following functions:
- Loading and starting of sequences
- Execution of single steps of sequences
- Display of all parameters of each step
- Setting of breakpoints
- Stop of the program execution

National Instrument's TestStand™ is integrated in the TEST-FUCHS Intelligent Software. It contains all the TestStand™ functions enhanced with Intelligent Software functions to write more powerful sequences. Within the program you can choose from a multitude of steps and only the relevant ones are displayed to complete your program and your personalised tests. In addition to your newly written test program the software provides excellent solutions for data backup, data analysis and the generation of test reports. You do not need to be a programmer to use this simple tool and your results will be just as professional as the pre-configured or manually adjusted programs on your test stand.

Sequence Editor

Easy Handling

Choose Parameters from Lists

Setting of Parameters
DATA SOLUTIONS is a real-time data tracking service which enables our customers to harness testing data for real-time competitive advantage.

Enjoy a new digital experience. DATA SOLUTIONS and its customized applications provide you with full connectivity and delivers all the essential information for the management and maintenance of your equipment as well as UUT testing results. Reduce complexity and gain advantages through transparency and collaboration. Join us in the Internet of Things.

### The processed data

**Data of device**

Data Solutions collects details about machine hours, battery level, failure log, logbook, location, etc. Everything you need to know about the condition of your connected device.

**Unit under test**

Details about test procedure, degree of contamination, etc. are collected and processed. Analyse everything about the application and the live process and enrich environmental data, which can affect the process like temperature or humidity. Get deeper insights on duration of use and handling of singular procedures.

### IoT adds additional value

- **Know the value of your data**
- **Get additional insights**
- **Accelerate processes**
- **Use scalability**
- **Re-engineer**
- **Automate**

### Benefits

Maintenance is becoming increasingly important in the economic life cycle of an aircraft. Data Solutions satisfies the growing needs of our industry by providing innovation for maintenance and operations teams.

- **Predictive Maintenance**
- **Cost and Time Saving**
- **Risk Reduction**
- **Access to Information**
- **Globally Connected**

- **test the UUT**
- **analyse data**
- **predict failures**
- **plan adequate measures**
Programmed in every detail. Safety in test > safety in flight

Compatible with
NI TestStand™ and Labview