# MET/CAL® Calibration Management Software

## with MET/TEAM® Test Equipment Asset Management Software

**The complete solution for automating and managing your calibration workload**

# The complete solution for calibration automation

Calibration labs have their share of challenges: an increasing and more complex workload; fewer technicians; a growing list of quality standards. Above all, there is constant pressure to reduce costs. Fluke calibration software helps you meet those challenges by calibrating and managing your workload more efficiently and consistently.

**Fluke calibration software includes two applications:**
MET/CAL® software, the industry-leader for auto-mated calibration; plus MET/TEAM® software for calibration work flow and asset management.

## MET/CAL® with MET/TEAM® benefits at a glance

Up to eight times faster than manual calibration

Consistent calibrations

Documented procedures and reports

Increased productivity

Flexible and scalable

Broad instrument support

Editable procedures

Error reduction

Calibration automation and inventory management

## MET/CAL and MET/TEAM provide you with all the tools you need to:

- Perform automated calibration on all kinds of test and measure-ment tools and equipment, including dc/lf, RF and microwave instruments.
- Create, edit, test, and document calibration procedures, quickly and easily.
- Configure and report a wider range of measurement uncertainty parameters and include verification data to provide an audit trail and support further analysis.
- Track asset information including work order history and status, traceability, users, customers, and location.
- Analyze and report asset information; produce customized printed certificates and reports.
- Make data available to other corporate systems.
- Import asset and calibration data into MET/TEAM software
- Help meet the requirements of quality standards like ISO 9000, ISO/IEC 17025, NRC 10 CFR, ANSI Z540.3, and others.

With all of these capabilities, Fluke Calibration software offers the most comprehensive calibration automation solution available. And we back it up with the MET/SUPPORT℠ Gold software support pro-gram to help keep you as productive as possible. Fluke Calibration also offers a variety of installation, training, and customization services to help you utilize the power of the MET/CAL and MET/TEAM software suite.

Join the worldwide community of calibration professionals who have discovered the value of MET/CAL for increasing throughput and managing calibration assets more efficiently.

## What's new in version 9?

- New Runtime interface
  - Intuitive design
  - Better visibility into the calibration process
  - Improved usability
- Updated Procedure Editor interface
  - View test results window in a graphical user interface
- User-group-based security, now in both MET/CAL and MET/TEAM applications
- Simplified configuration
- Export test results data to a CSV file for analysis outside of MET/CAL
- Use your Windows login for MET/TEAM and MET/CAL instead of requiring separate credentials
- Improved and seamless integration with MET/TEAM software
- Improved help system with updated searches and links

# What are you missing?

Having the latest version of MET/CAL software gives you access to many new features and functions. Here are just a few examples of the additional capabilities added with each new update.

## New features in recent MET/CAL software versions

| Features | 7.3 | 8.0 | 8.1 | 8.2 | 9.0 |
|---|:---:|:---:|:---:|:---:|:---:|
| Flexible Standards (lets procedure writers substitute equivalent standards) | • | • | • | • | • |
| Pack/Unpack utility (easier to transport procedure files between MET/CAL systems) | • | • | • | • | • |
| Named variables | • | • | • | • | • |
| Slewing for user-configured instruments | • | • | • | • | • |
| Crystal Reports 2008 | • | • | • | • | • |
| Faster searching for large databases | • | • | • | • | • |
| More flexible linked validation (reduces data entry errors) | • | • | • | • | • |
| Procedure editor with flexible user interface and enhanced functions | | • | • | • | • |
| Improved procedure security | | • | • | • | • |
| Library FSC to access DLL and COM objects, enabling a wide range of powerful functionalities including PXI calibration and use of Excel | | • | • | • | • |
| Reports for Z540.3 compliance | | • | • | • | • |
| Improved RF power sensor calibration support | | • | • | • | • |
| FSCs for wider instrument support: 9640A-LPNX, 5522A, 5080A options and flexible O_CAL FSC for oscilloscope calibrators | | • | • | • | • |
| New linked help system | | • | • | • | • |
| Browser-based MET/TEAM software for asset management and data storage | | | • | • | • |
| FSCs for Fluke Calibration 52120A Transconductance Amplifier and 5502A Multi-Product Calibrator | | | • | • | • |
| FSC for Fluke Calibration 5730A Multifunction Calibrator | | | | • | • |
| Procedure Sectioning to allow performing applicable portions of MET/CAL procedures | | | | • | • |
| Windows 8 compatibility | | | | • | • |
| FSCs for Fluke Calibration 96270A and 96040A, plus updated FSCs for the 9640A, 9640A-LPN, and 9640A-LPNX | | | | • | • |
| New Runtime user interface | | | | | • |
| User-group-based security | | | | | • |
| Test results data export | | | | | • |
| Windows authentication | | | | | • |
| Improved integration with MET/TEAM | | | | | • |
| Updates to linked help system | | | | | • |
| Windows 10 compatibility | | | | | • |

# Automated calibration that supports the way your lab operates

MET/CAL software is structured around the flow of instruments through the calibration process and addresses a wide range of test and measurement instrument calibration needs, from the simple to the complex. It is based on the traditional calibration model as its framework—comparing an instrument to a standard of known uncertainty.

### Add new items to the database.

As instruments come into the lab for calibration, they are added to the database. The technician enters basic asset information into an electronic form, selecting from drop-down validation menus to assure consistent and accurate entry.

### Perform automated calibration.

Automated calibration with MET/CAL software is fast, repeatable, and powerful. At first glance, most people see it as a way to perform calibrations faster, and MET/CAL can deliver dramatically improved productivity. However, consistency is another significant benefit. With self-documented procedures, you can ensure all operators complete all tests and collect appropriate test data the same way every time the procedure is performed. Plain-language operator prompts and graphics guide technicians through even the most complex calibrations.
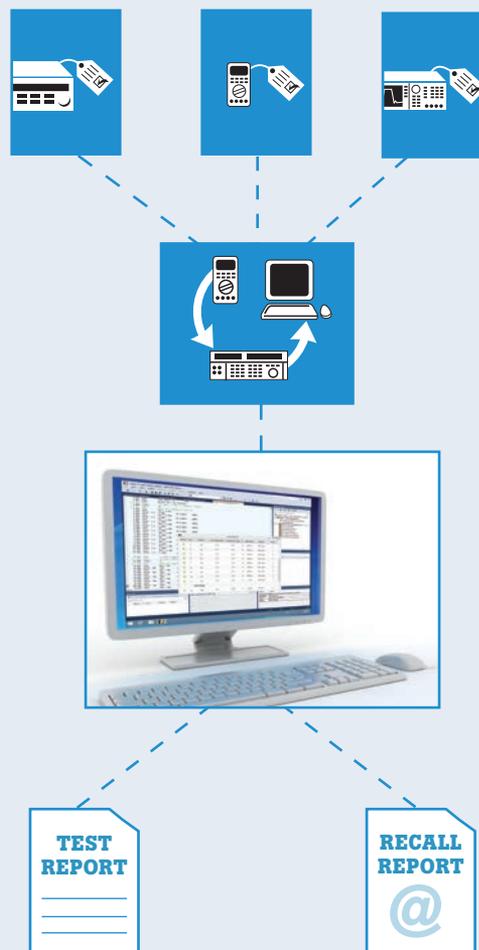
### Capture complete calibration results.

MET/CAL software captures calibration results including traceability data and environmental conditions. When a calibration is finished, MET/CAL saves the information to the database, so that you can review it on screen or print it. Complete results records help you identify out-of-tolerance conditions and satisfy the records requirements of ISO/IEC 17025 and ANSI/NCSL Z540.3.

### Store results and update status.

MET/CAL software stores all parameters for every test performed in unformatted "raw readings" to ease report creation and to support further analysis. Because each test is fully documented for every procedure that is run and traceability information for each standard is stored in the database, you have complete documentation of calibration status, history, adequacy, and traceability for all the test and measurement instruments you manage.

**MET/CAL software automation workflow diagram**



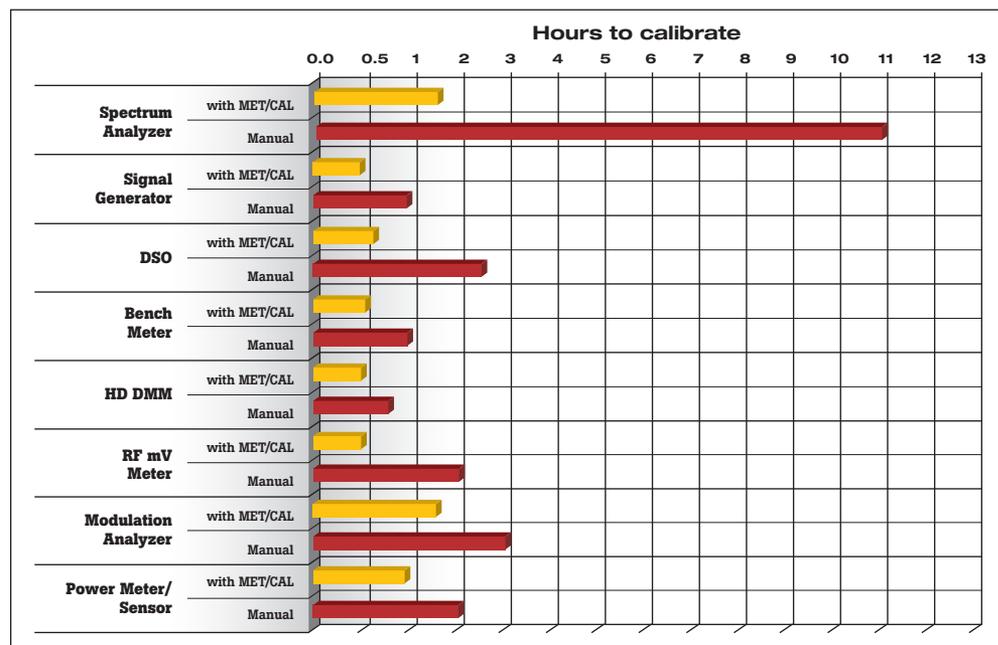Perform calibration, capture and store results.

### Print test reports.

MET/CAL software includes a range of reports that can be previewed on screen, then printed. At the end of each calibration event, the technician can choose to print calibration test results or a Certificate of Calibration. All are prepared with Crystal Reports, so they can be modified to meet your needs or used as templates for creating custom reports.

### Generate recall reports.

MET/TEAM® asset management software automatically generates recall reports you can send to your customers and to the user's e-mail address and location. These recall reports may include details of the last calibration performed in your lab.

# Productivity improvements that extend beyond dc/lf calibration

**Hours to calibrate**

| | | 0.0 0.5 1 2 3 4 5 6 7 8 9 10 11 12 13 |
|---|---|---|
| **Spectrum Analyzer** | with MET/CAL | |
| | Manual | |
| **Signal Generator** | with MET/CAL | |
| | Manual | |
| **DSO** | with MET/CAL | |
| | Manual | |
| **Bench Meter** | with MET/CAL | |
| | Manual | |
| **HD DMM** | with MET/CAL | |
| | Manual | |
| **RF mV Meter** | with MET/CAL | |
| | Manual | |
| **Modulation Analyzer** | with MET/CAL | |
| | Manual | |
| **Power Meter/ Sensor** | with MET/CAL | |
| | Manual | |

Automating calibration with MET/CAL lets you improve productivity and throughput significantly.

MET/CAL software is a well known solution for automating dc/lf electrical calibration. But MET/CAL is also an ideal solution for some RF calibrations, including spectrum analyzer calibration. MET/CAL can be used as a cornerstone for RF calibration along with the 96270A RF Reference Source, which is ideally suited for calibration of spectrum analyzers. MET/CAL software and the 96270A enable RF calibration professionals to realize substantial productivity gains.

With MET/CAL software and a 96270A, calibrating a spectrum analyzer can take less than 20 minutes, including data results and measurement uncertainty analysis. Automating with MET/CAL enables significant "walk away" time so operators can attend to other tasks as well, therefore enabling more efficient usage of highly skilled staff.

Using MET/CAL software for automating electrical and RF calibrations allows you to reduce the cost of your initial software investment, as well as ownership costs such as training and maintenance. Labs performing different types of calibration with other Fluke Calibration software applications can realize efficiency gains by using a shared MET/TEAM database for reporting calibration data and managing assets.

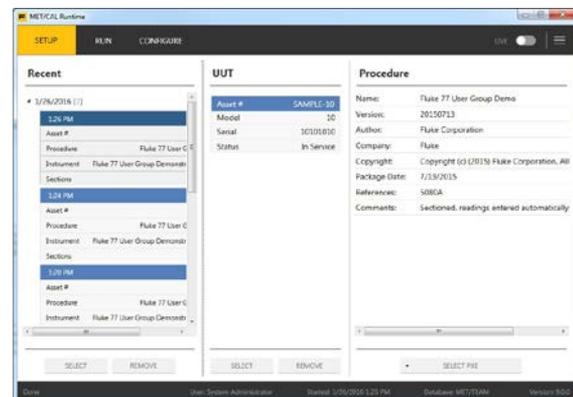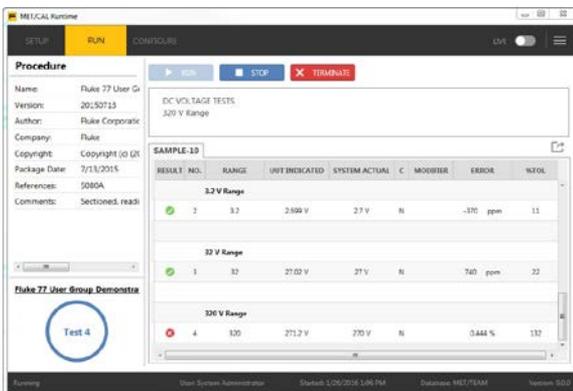Use MET/CAL software for full automation and optimized "walk away" time.

# Automated calibration, more visibility into the calibration process, and modern design for intuitive operation



## Redesigned Runtime module shows the calibration process step by step

The MET/CAL Runtime module has been redesigned with a modern, intuitive design. The UUT selection list is identical to the list in MET/TEAM, making it much easier to select the asset you want to calibrate. You can search model number, asset number, and many other parameters, for the ultimate in flexibility.
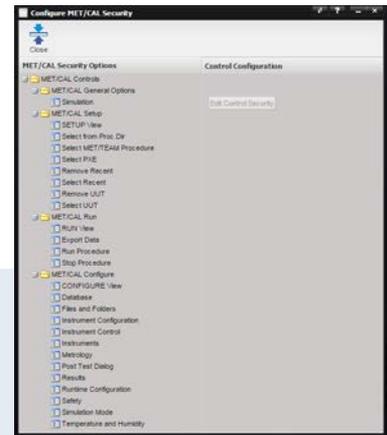
Procedures are available via a drop-down menu that can be secured so only authorized users can select a procedure. You can select a MET/TEAM procedure, a procedure executable (PXE) file, or select from the MET/CAL proc.dir directory. MET/CAL remembers what procedures you have run in a session, so if you need to duplicate a test you don't have to search for it again.

It's easy to see each step of a calibration as it progresses, and also easy to see the pass/fail status of each test and other useful information like version number and date. A progress wheel shows percent completion of each procedure as it progresses.





## User-group-based security lets you control access to MET/CAL and MET/TEAM

Security controls based on user groups are now available in both MET/CAL and MET/TEAM. An administrator can control who can configure a workstation; who can set up a calibration; and who can run a calibration, all organized by user roles. The administrator can also make certain selections visible or invisible on the interface depending on a user's security setting. That simplifies some users' choices because they don't have to view inaccessible menu items. Security configuration options provide full control over which view and menu items are visible and enabled.

## Simplified configuration format

In previous versions of MET/CAL software, making changes to the metcal.ini file or even finding the right parameter to change could be intimidating, plus you had to restart and re-run the procedure. With the new configuration format, all of the selectable categories are visible and easily accessible. Check boxes and slide bars simplify complex hardware configurations, so you don't have to wonder about the possibilities—it's all right in front of you. This simplified configuration interface makes it easier than ever to customize MET/CAL software for your team's needs.

## Export test results for further analysis

MET/CAL v9 lets you export test results to a .csv file. This feature is useful if you want to use a spreadsheet program like Microsoft Excel to analyze data.

## Integrated login

Who needs another password to remember? Windows authentication provides the ability to use a Windows login with MET/TEAM and MET/CAL instead of requiring credentials to be entered separately. And now your IT department is responsible for maintaining the login security structure, not the calibration lab.

## Seamless integration of MET/CAL and MET/TEAM

Select a calibration procedure defined by MET/TEAM as being associated with the asset you want to calibrate. This more streamlined process reduces the Runtime and Editor login steps and makes it faster to access the program.

## Improved help

An improved help system makes it easier to search for the information you need.

MET/CAL supports a wide variety of standards, including National Instruments PXI instruments.

## Choose from thousands of warranted procedures

MET/CAL software comes with sample procedures that can be used as is or can be modified to meet your specific requirements. Or use them as examples to help you create your own.

By subscribing to the MET/SUPPORT Gold software support program, you can have access to a wide range of warranted procedures. View the current list of available procedures online at **www.flukecal.com/procedures**.

## Use the Procedure Editor to write and edit your own procedures

MET/CAL Editor's intuitive, flexible user interface developed with Microsoft Visual Studio tools, makes it a powerful development tool. Features like test results data and configuration options are tied to the Runtime module for more seamless operation. A linked online help system provides examples to help you along. Edit multiple procedures at once, enhancing productivity, thanks to improved windows layout. Debugging is easier, too. Built-in editor functions include undo, redo, tool-tip help, intellisense, and syntax highlighting.

## Organize procedure files logically

The Procedure Editor also includes more flexibility in how you can organize procedure files. You can organize your procedures logically using a project/solution structure that best fits your lab's business and operation rules.

## Procedure Sectioning

Procedure Sectioning support allows you to run a procedure executable package (PXE) in separate sections to perform a single calibration.  You can complete a single calibration across multiple physical locations and/or at different times, simplifying troubleshooting by allowing discrete portions of a procedure to be run separately. Your productivity increases because you can complete each procedure section as hardware becomes available (configured standards are not required for unselected sections.)

## Create new procedures efficiently

MET/CAL software's powerful procedure language uses a calibration-oriented building block approach. Function Select Codes (FSCs) represent various standards and functions used during a test. MET/CAL software's procedure language FSCs support a wide range of standards and calibrators.

An FSC can allow a whole test point to be defined in a single line of code. The FSC will set up the standard and the UUT; provide connection instructions; trigger the measurement; take the reading; assign and combine relevant uncertainties; and reset instruments to a safe condition—all from that single line of code.

## FSCs provide wide instrument support and help increase productivity

The Library FSC enables procedure access to any DLL or COM object, letting procedure writers automate calibration with a wider variety of standards, including National Instruments PXI instruments. The Library FSC also enables procedure access to Microsoft Excel, allowing plotting and customized calculations, as well as better linkage to modern external applications.

The O_CAL FSC supports most of the Fluke Calibration oscilloscope calibrators, in 16 different combinations, providing up to 90 % savings in procedure development time.

## Evaluate measurement uncertainty

MET/CAL software enables you to establish minimum test uncertainty ratios (TURs) to ensure tests performed by the calibrator are sufficiently accurate for the instrument being calibrated.

MET/CAL software includes support for guard banding, giving metrologists the option to tailor the algorithm to tighten the pass limits associated with a UUT's calibration specifications.

## Test run

Execute a procedure within the Procedure Editor's Debug Mode to make short work of tracking down errors. MET/CAL software even keeps track of test uncertainty ratios, instrument specifications and capabilities, and traceability information to ensure procedures meet your quality standards for adequacy and validity.

## Release the procedure

Once you're satisfied with the procedure, publish it to production where your technicians can replicate all tests consistently on your workload.
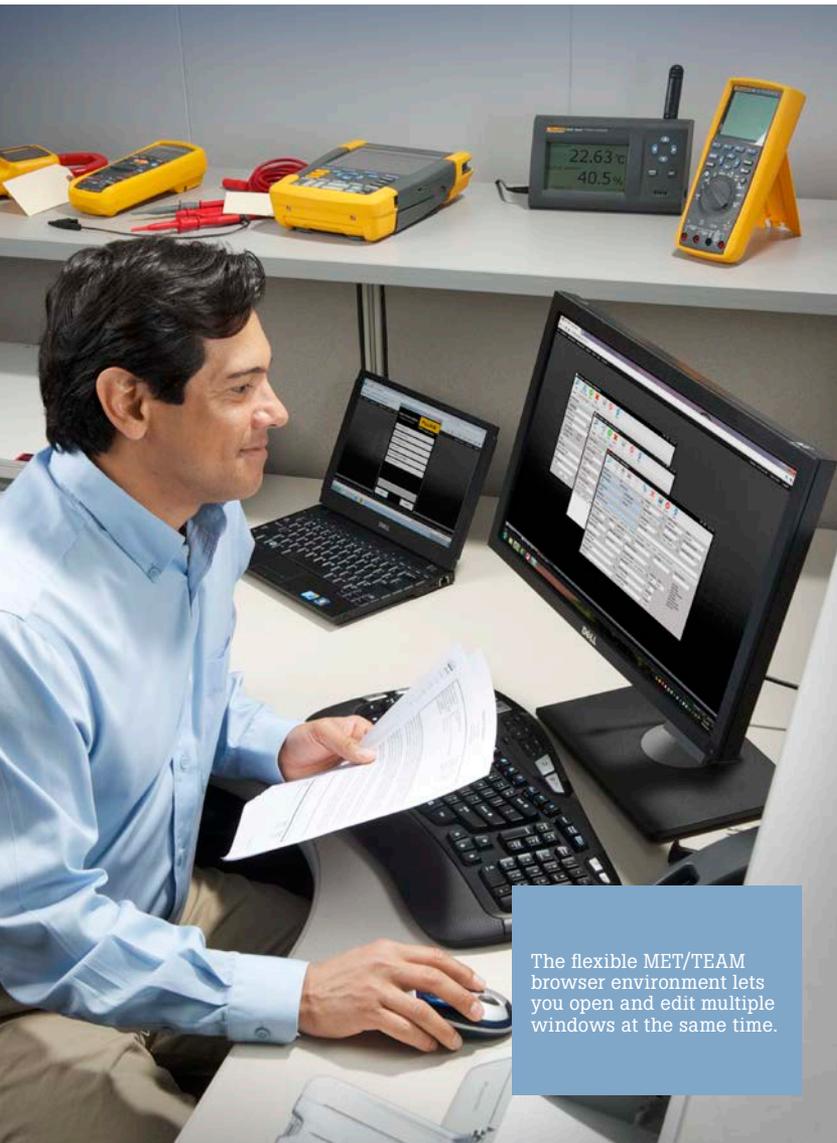
## Should your procedures be editable? You can choose.

When developing new procedures, you may want the ability to edit them later. Or you may wish to lock them so they cannot be changed by others. MET/CAL software lets you compile procedures into executable files so they cannot be edited unless the source file is made available. By compiling non-editable procedures, you can safeguard accredited procedures from changing over time between calibrations, limit access to procedures depending on user access levels, and enable better control between versions.

# MET/TEAM® software:
## the most comprehensive software solution for asset management

MET/TEAM software is the powerful and flexible calibration asset management solution that integrates seamlessly with MET/CAL software. It is ideal for calibration professionals who need to manage workflow through the calibration laboratory. MET/TEAM software enables you to:

- Schedule equipment recall email notifications
- Perform batch receiving
- Create and assign work orders
- Track assets as they move through the lab
- Create and print calibration reports
- Maintain an audit trail
- Manage shipping information
- …and much, much more

The flexible MET/TEAM browser environment lets you open and edit multiple windows at the same time.

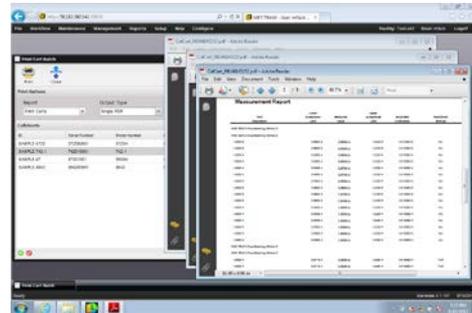## Browser-based software is convenient, secure, scalable

MET/TEAM software works with any HTML 5 compatible browser, including Microsoft Internet Explorer, Google Chrome, and Mozilla Firefox, so you can access it from anywhere.

Multiple levels of security let you control access based on individual users or groups. Users see only the information that is appropriate for their security level.

The application uses Microsoft SQL Server, which provides reliable data management and performance. Whether you are a large laboratory with multiple networked stations or a small shop operating with a single computer, you have the capability to scale up or down according to your needs.

## Customize MET/TEAM software to match your business terminology

MET/TEAM software gives you almost unlimited flexibility to customize. Add up to 200 fields of information, change field labels and data entry types to fit your business model. Fields can be enabled, disabled or made invisible. You can even enforce business rules by creating "data checks" for buttons and fields so that often-used terms and names are spelled the same way every time and required fields are always filled in.

MET/TEAM lets you print reports in batch.
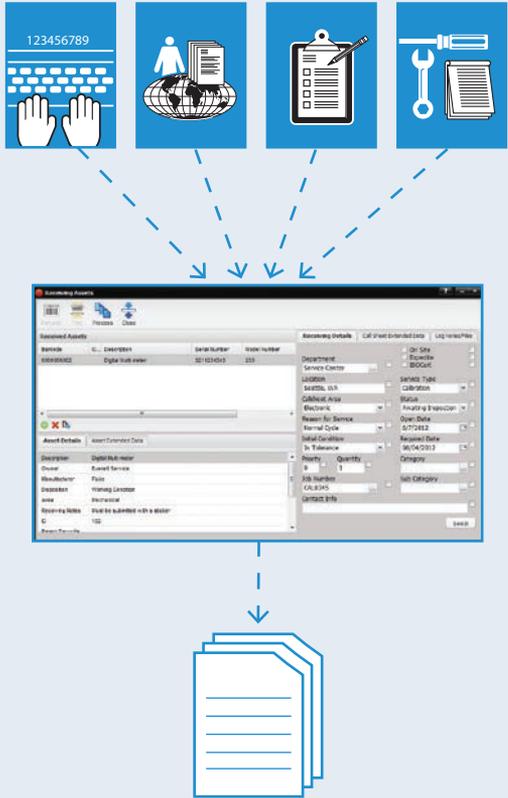
## Easily create reports

MET/TEAM software utilizes Crystal Reports Professional for report generation. It includes a set of default report templates, which you can use "as is" or customize to fit your needs. You can also easily create new report templates. Crystal Reports makes it easy to incorporate graphic elements, such as your logo, and view reports online or print them.

## Help with quality standards compliance

MET/TEAM uses electronic signatures as required by 21CFR Part 11. It records all changes and maintains them in history to form an audit trail. And it documents the quality process for the criteria used when deciding whether to return an instrument or keep it for repair and/or recalibration. These features support compliance with many quality and regulatory standards.

## MET/TEAM software works the way you do

MET/TEAM software follows the flow of instrumentation into the company and through the calibration lab.

### Data setup and management

Setting up data is a snap, thanks to the flexible MET/TEAM interface. You can set up contacts as individuals, and associate them with facilities; create individual assets subject to events or generic equipment categories; track information based on asset type, and more. Each screen is easy to read and highly customizable; a Quick Link button lets you drill deeper into your data if you wish.

MET/TEAM also enables you to maintain a complete parts database and add parts consumption on work orders. You can easily manage parts inventory and create reports to help you know when to reorder.

### Equipment recall

MET/TEAM lets you generate recall reports to inform specified contacts when equipment is due for calibration.

Schedule email notices to send out the "calibration due" notifications. These emails can be generic or customized for different customers. A recall escalation process lets you notify up to three levels of contacts within customizable time frames.

### Workflow management

MET/TEAM software supports workflow management and enables you to easily manage commonly-performed tasks. Receive an asset or a group of assets. Edit a work order, assign technicians, schedule dates. Perform calibrations with MET/CAL or other calibration automation software. Complete work order information such as environmental conditions, labor hours, accreditations, and more. Return and close work orders when completed. Record shipping dates, addresses, and tracking information.

**MET/TEAM software asset management workflow diagram**



Manage asset data, customer information, calibration records, maintenance history, and more.

### Reporting

Crystal Reports Professional makes it easy to create and print reports. You can also use it to create and print professional-grade calibration certificates. You can even batch the process and print all of the certificates at once for a specific purchase order.

Reports and certificates can be customized easily with your corporate fonts, company logo, and accreditation data. MET/TEAM comes with a set of report templates you can use or customize to meet your needs. You can also build new reports and certificates.

MET/TEAM also allows you to schedule recall reports to be delivered automatically to designated email addresses.

# Extend the power of MET/TEAM software with optional modules

MET/TEAM software offers you the flexibility to buy the software that you need now, and add to it later as your needs grow and change. Three modules enable you to add functionality to MET/TEAM software.







### Mobile application

This module enables you to take MET/TEAM and MET/CAL software into the field for on-site calibration. Just check out the specific customer data that you need, take all the relevant information including procedures, perform the calibration on site, and then import it back into the main data base when you return. The mobile module has the same interface as MET/TEAM software, so there is no learning curve of a new application. MET/TEAM software makes it easy and foolproof to synchronize the data so it's always up to date.

### Customer web portal

If you frequently receive calls from customers who want to know the status of their calibration and repair jobs, this module is for you. It enables you to give read-only access to all or part of your database, so customers can view their information online at any time. Customers can check the status of their jobs; view asset information; print recall reports; access their calibration certificates; and more. Customers are only able to view their own data—if you are a service lab with multiple corporate customers, you can set up portals for each one so they stay separate.
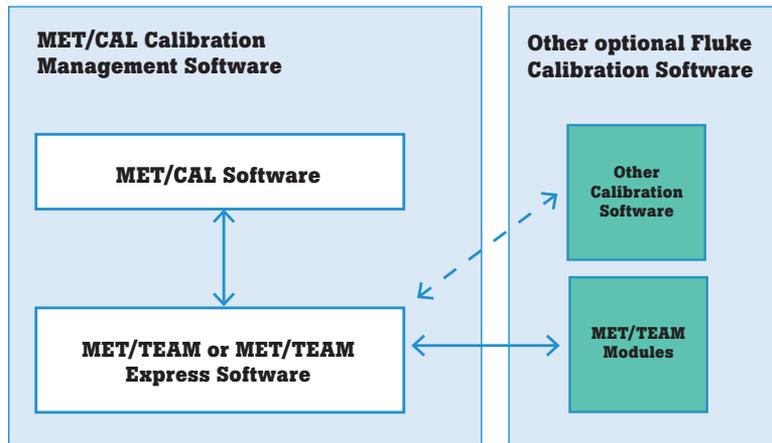
### Commerce module

This module lets you generate custom quotes for work, create invoices and send invoices to your customers when the work is complete. You can create contract pricing, discounts or upcharges arrange for start and end dates, and more.

# Combine the power of MET/CAL and MET/TEAM for a total solution for your calibration work flow

MET/CAL software lets you upload a procedure and automate the calibration (the "calibration runtime" module). MET/CAL software stores calibration results in the MET/TEAM or MET/TEAM Express database.

**MET/CAL Calibration Management Software**

MET/CAL Software

MET/TEAM or MET/TEAM Express Software

**Other optional Fluke Calibration Software**

Other Calibration Software

MET/TEAM Modules

**MET/TEAM and MET/TEAM Express** are the asset managers of the MET/CAL application. Both are browser-based. MET/TEAM Express software offers basic asset management, data storage and report generation. MET/TEAM software offers a full range of advanced asset management features, including productivity management, and parts management shipping function, and process customization via data checks. The full version of MET/TEAM software is required for utilizing the mobile application, customer web portal and commerce module.

**MET/CAL/TEAM** includes MET/CAL software and the full version of MET/TEAM software, with one MET/CAL and one MET/TEAM concurrent user license. Concurrent licenses allow software to be installed on any number of machines, but the software is only allowed to run on a specific number of those machines at any given time. Start with one or more licenses, depending on the number of workstations you require and add licenses as your needs change.

**MET/CAL/TEAMXP** includes MET/CAL software and MET/TEAM Express, with one MET/CAL and one MET/TEAM concurrent user license.

Go to **www.flukecal.com/express** for more information about MET/TEAM Express and how it compares with the full version.
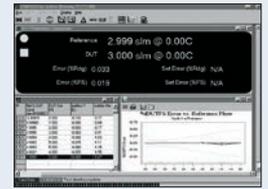
## Other software is available from Fluke Calibration for a wide range of calibration parameters.

**COMPASS® for Pressure** software is a universal platform for automated pressure calibration. The Basic version helps you perform basic calibration and testing on pressure instruments. The Enhanced version supports complex tests and automated support of third party transfer standards, as well as many advanced features.
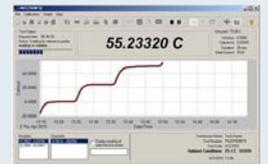
**COMPASS® for Flow** is a mass flow calibration software package based on COMPASS for Pressure software. Use COMPASS for Flow software with the Fluke Calibration molbox/molbloc gas flow calibration system as well as with non Fluke Calibration flow references.

**MET/TEMP II** software enables you to easily automate calibration of a wide range of temperature sensors. It provides a comprehensive temperature calibration solution for testing batches of sensors, calculating characterization coefficients and printing calibration reports. You can standardize comparison or fixed point calibrations, and use multiple temperature sources or references in a single test.

**TableWare Software** is a calculate-and-generate data software package that uses manually entered data. TableWare calculates coefficients for RTDs, thermistors and thermocouples. It uses ITS-90, IPTS-68, Callendar-Van Dusen and polynomial equations. TableWare also generates temperature vs. resistance, temperature vs. ratio and temperature vs. EMF tables.

# The support you need, when you need it

## MET/SUPPORT℠ Gold

MET/SUPPORT Gold is an annual membership program offering premium support as well as free and discounted services to help you stay as productive as possible.

### Free software upgrades

MET/SUPPORT Gold members receive free upgrades for MET/CAL software. Fluke Calibration typically releases at least one software upgrade per year, plus smaller updates. Savings can be substantial, especially if you have multiple software licenses. Use only a few of the Gold services and you can easily recover more than the cost of your membership fee in just a few months.

### Free continuous access to the Fluke Calibration procedure library

The Fluke Calibration procedure library includes more than 5,000 procedures. Hundreds of procedures are released each year for a wide variety of popular UUTs. MET/SUPPORT Gold subscribers have free access to all procedures during their subscription term. Otherwise these procedures must be purchased.

### Free MET/SUPPORT Gold web seminars

Fluke Calibration sponsors a series of bi-monthly web seminars for MET/SUPPORT Gold subscribers. Presenters answer frequently-asked questions, provide training on new software features, and offer tips and tricks for getting the most out of MET/CAL *Plus* software.

### Discounts on training

MET/SUPPORT Gold members receive a 20 % discount on calibration software training. This feature can help you get staff up and running quickly and economically, or help them develop procedure writing expertise.
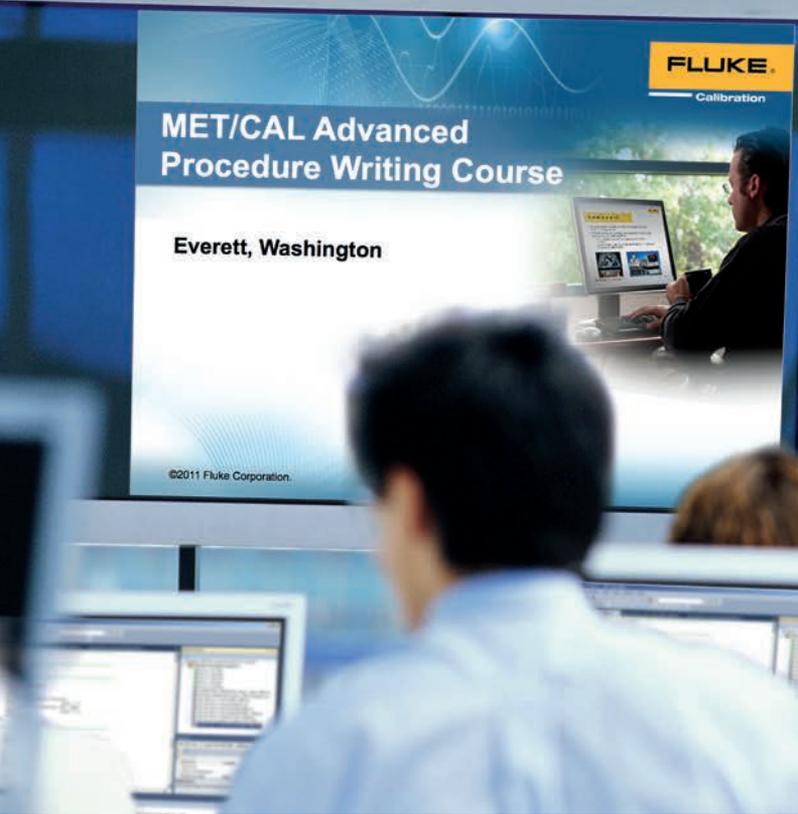
### Discounts on custom procedure development

MET/SUPPORT Gold members receive a 20 % discount on custom procedure development. If you don't see what you need on our procedures list at **www.flukecal.com/procedures**, you can commission Fluke Calibration to develop a custom procedure for you. Just send an email to **metsupport@fluke.com** to describe what you need and request a price quote.

### Database services

Password recovery and repair of damaged database services are offered as part of the annual Gold plan.

## MET/CAL software training

New MET/CAL users can get up to speed quickly by attending training. Classroom and online training are available to meet a variety of learning preferences and budgets. You can learn more about using the MET/CAL database; creating reports; writing procedures; and more. Visit the training center at **www.flukecal.com/ CalSoftwareTraining** for a current list of classes and schedules.

## MET/TEAM services

Fluke Calibration offers a range of services to help you maximize your investment and become a successful MET/TEAM user. Services include installation, onsite start-up, database migration, data import, customization and consulting.

See more details on the Fluke Calibration website at **www.flukecal.com/MTservice**.

## Software user groups

Fluke Calibration typically hosts user group meetings throughout the year. These meetings give users of MET/CAL and other Fluke Calibration software applications the chance to get together, hear about new software features and share tips with other software users. User group meetings are listed on the Fluke Calibration website at **www.flukecal.com/ user-group-meetings**.

## Compliance with quality standards

MET/CAL software helps enable compliance with a wide variety of quality standards, including ISO 9001, ISO/IEC 17025, ANSI/NCSL Z540.3, and others.

MET/CAL software includes many features that aid in complying with quality standards. It lets users:
• Maintain complete records about the adequacy of each calibrator and standard
• Document dates, equipment used, and results of each calibration, as well as traceability to recognized standards
• Document calibration procedures
• Preserve calibration records
• Maintain calibration history records for each item in inventory
• Flag out-of-tolerance points
• Log environmental conditions
• Document conditions under which calibrations are performed
• Provide multi-level security to protect validity of calibrations
• Collect results information and report it in any format required. MET/CAL is the only commercially available calibration application that supports compliance with the ANSI/NCSLI Z540.3 quality standard. It includes all of the standard reports that are required by the different methods of Z540.3 compliance.

# Ordering information and system requirements

# Ordering information

## Models

**MET/CAL/TEAM** MET/CAL and MET/TEAM Software with one MET/CAL license and one MET/TEAM license

**MET/CAL-TL** Additional MET/CAL license for MET/CAL/TEAM

**MET/TEAM-L** Additional MET/TEAM license

**MET/CAL/TEAMXP** MET/CAL and MET/TEAM Express Software with one MET/CAL license and one MET/TEAM Express license

**MET/TEAMXP-L** Additional MET/TEAM Express license

## MET/TEAM Modules

**MET/TEAM MOBILE** MET/TEAM Mobile Module with one mobile license

**MET/TEAM MOBILE-L** Additional MET/TEAM Mobile license

**MET/TEAM PORTAL** MET/TEAM Customer Portal with 100 configurable user licenses

**MET/TEAM PORTAL-L100** Additional MET/TEAM Customer Portal 100-license pack

**MET/TEAM COMMERCE** MET/TEAM Commerce Module

## MET/CAL support

**MET/SUPPORT Gold** Priority support agreement

## Additional products from the Fluke Calibration software suite

**COMPASS for Pressure** Pressure Calibration Software

**COMPASS for Flow** Flow Calibration Management Software

**MET/TEMP II V5** Temperature Calibration Software

## Training and services

Various courses and service options available

Go to **www.flukecal.com/CalSoftwareTraining** to see the current schedule.

# Minimum system requirements

**MET/TEAM server**
- Windows 7 (64-bit)
- Windows 8/8.1 (64-bit)
- Windows 10 (64-bit)
- Windows Server 2008 R2 (64-bit)
- Windows Server 2012 (64-bit)
- Windows Server 2012 R2 (64-bit)

**Database and web server (single machine)**
- 2.0 GHz quad core processor or equivalent
- 16 GB of RAM
- 20 GB of available hard drive space

**Web server (separate machine from database server)**
- 2.0 GHz quad core processor or equivalent
- 4 GB of RAM
- 500 MB of available hard drive space

**Database server (separate machine from web server)**
- 2.0 GHz quad core processor or equivalent
- 16 GB of RAM
- 20 GB of available hard drive space

**MET/TEAM client**
- MET/TEAM is compatible with all modern web browsers that support HTML5 such as Microsoft Internet Explorer (IE9 or later recommended) and Google Chrome
- 1.0 GHz Pentium 4 processor or equivalent
- 2 GB of RAM
- Minimum screen/display resolution listed is 1024 x 768

**MET/CAL client**
- Windows 7 (32 and 64-bit)
- Windows 8/8.1 (32 and 64-bit)
- Windows 10 (32 and 64-bit)
- Windows Server 2008 R2 (32 and 64-bit)
- Windows Server 2012 (32 and 64- bit)
- Windows Server 2012 R2 (64-bit)
- 2.0 GHz Pentium 4 processor or equivalent
- 4 GB of RAM
- 6 GB of available hard drive space

Note: Refer to www.flukecal.com/metcal for the latest software system requirements.

MET/TEAM comes with Microsoft SQL server Express with database limitation of 10GB.

# Total solutions in calibration

Fluke Calibration provides the broadest range of calibrators and standards, software, service, support and training in electrical, temperature, pressure, RF and flow calibration.

Visit **www.flukecal.com** for more information about Fluke Calibration solutions.



**Fluke Calibration.** *Precision, performance, confidence.*™

| Electrical | RF | Temperature | Pressure | Flow | Software |
|---|---|---|---|---|---|

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