

# Fluke Metrology Software

MET/CAL<sup>®</sup>  
MET/TRACK<sup>®</sup>  
MET/BASE

## Installation Guide



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## Introduction

Fluke Metrology Software is a software distribution that bundles four software products:

- MET/CAL<sup>®</sup> Run Time
- MET/CAL<sup>®</sup> Editor (Procedure Editor)
- MET/TRACK<sup>®</sup>
- MET/BASE

MET/CAL LITE is part of the MET/CAL Run Time installation. MET/BASE is required to run MET/CAL or MET/TRACK, because both are clients of the MET/BASE server. (The MET/BASE server stores calibration data that the clients create and manage.)

This guide describes how to install and upgrade various software packages.

## Safety Information

Instrument calibration may require dangerous voltages to be generated or measured by the calibration system. Both the operator and the procedure writer must be aware of possible hazards.

### **Warning**

**To prevent possible electrical shock, fire, or personal injury:**

- **Never use a screen saver when using the Run Time or Procedure Editor applications. Screen savers will hide the high voltage safety symbol. The Run Time and Procedure Editor programs control test instruments and can cause them to output dangerous voltage levels. The high voltage safety symbol indicates when dangerous voltage is present.**
- **Use interconnect wiring and adapters rated for the highest voltage and current levels carried.**
- **Never touch exposed conductive portions of signal interconnect wiring, even after instruments have been turned off.**
- **Only touch the insulated portion of a connector. First disconnect the interconnect wiring at the source, then at the measurement side.**
- **Always use insulated adjustment tools.**
- **If the calibration program is abnormally terminated, verify that the front panels of source instruments indicate standby mode.**
- **When writing procedures, make sure that procedures minimize the time during which dangerous voltages are applied.**

## **How to Contact Fluke Calibration**

To contact Fluke Calibration, call one of the following telephone numbers:

- Technical Support USA: 1-877-355-3225
- Calibration/Repair USA: 1-877-355-3225
- Canada: 1-800-36-FLUKE (1-800-363-5853)
- Europe: +31-40-2675-200
- Japan: +81-3-6714-3114
- Singapore: +65-6799-5566
- China: +86-400-810-3435
- Brazil: +55-11-3759-7600
- Anywhere in the world: +1-425-446-6110

Alternatively, you can send an email directly to calibration software experts:

- [softwaresupport@flukecal.com](mailto:softwaresupport@flukecal.com)
- [techsupport@flukecal.com](mailto:techsupport@flukecal.com)

To see product information and download the latest manual supplements, visit Fluke Calibration's website at [www.flukecal.com](http://www.flukecal.com).

To register your product, visit <http://flukecal.com/register-product>.

## **Before You Call Technical Support**

You may be able to discover the answer for yourself, so take these steps before you call for support:

- Check the manual
- Check the online help

If you find it necessary to call for assistance, write down the information that helps the support person to resolve the issue more efficiently:

- Product name, applicable licenses, version, and serial numbers
- Manual title, part number, and version
- Operating system and version
- Network information if applicable
- List of steps necessary to recreate the problem
- Version of *Crystal Reports*

## System Requirements

A number of required frameworks and other software packages must be installed on the server and client computers in order for the system to operate properly. These prerequisite packages are detailed in the sections that follow. The Fluke Metrology Software download and/or media include all the necessary prerequisite software packages. Individual installation files that you download from the web, however, do not contain the prerequisite software packages. You must always perform new installations and major upgrades from previous versions using the full installer to ensure the proper prerequisite software packages are installed.

### *Note*

*As a general rule, you should always run Windows Update after the installation process is complete to update your system with the latest security patches. Security patches should be applied by running Windows Update after the installation process is complete.*

Fluke Metrology Software runs on a variety of platforms:

- Windows® XP SP3 or later
- Windows Server 2003
- Windows Vista (32 and 64-bit)
- Windows 7 (32 and 64-bit)
- Windows Server 2008 (32 and 64-bit)
- Windows Server 2008 R2 (64-bit)

### *Note*

*Prior versions of Windows are no longer supported.*

## Hardware Requirements

In addition to the operating system support, the minimum recommended PC requirements are:

### **MET/BASE Server**

- 1.5 G Hz Pentium 4 processor or equivalent
- 2 GB of RAM
- 3 GB of available hard drive space on the server

### **MET/CAL or MET/TRACK Client**

- 1 G Hz Pentium 4 processor or equivalent
- 1 GB of RAM
- 2 GB of available hard drive space

The optional General Purpose Interface Bus (GPIB) connects a PC to a programmable instrument. Before installation, check that the optional GPIB (IEEE 488) Interface is installed. Fluke Metrology Software only supports GPIB controllers from National Instruments.

You can download hardware drivers from the National Instruments website:

<http://www.ni.com/support/>.

If you plan to use or calibrate National Instruments PXI cards, the PXI chassis must be connected to the workstation computer before the computer is powered on. Also, any time you need to insert or remove cards from the PXI chassis, the workstation computer that the PXI chassis is connected to must be powered off first. For more information on this process, refer to the National Instruments website: <http://www.ni.com/pxi/>.

## File Locations

Table 1 is a cross-reference for file locations between program versions. As you compare the directory structures, you will see that the Version 7.3 and later structures are different from the previous versions. The table includes the default file locations. Custom installations may differ.

### Note

*During installation, all paths can be customized except for the path to the metcal.ini file. As of Version 7.3, the file will always reside in the %ProgramData% folder.*

**Table 1. File Locations**

File Type	MET/BASE MET/CAL MET/TRACK 7.20	MET/BASE 7.2 SP3		MET/BASE 7.3 & 8.x <sup>[1]</sup>	
Database	C:\metdata	C:\metbase		%ProgramFiles%\Fluke\METBASE <sup>[4]</sup>	
				%ProgramData%\Fluke\METBASE <sup>[3]</sup>	
Reports	C:\metcal	C:\metbase\shared\reports		%ProgramData%\Fluke\METBASE\shared\reports	
Accuracy Files	C:\metcal\acc	C:\metbase\shared\acc		%ProgramData%\Fluke\METBASE\shared\acc	
FSC Help	C:\metcal\help	C:\metbase\shared\help		%ProgramData%\Fluke\help <sup>[2]</sup>	
Procedures	C:\metcal\proc	C:\metbase\shared\proc		%ProgramData%\Fluke\METBASE\shared\proc	
Pictures	C:\metcal\pic	C:\metbase\shared\pic		%ProgramData%\Fluke\METBASE\shared\pic	
SQL Files (for DBUpdate)	C:\metcal	C:\metbase\utilities		%ProgramFiles%\Fluke\METBASE\dbupdate	
User Program	C:\metcal	C:\metcal		%ProgramData%\Fluke\METBASE\shared\UserPrograms	
		MET/CAL 7.2 SP3	MET/TRACK 7.2 SP3	MET/CAL 7.3 & 8.x	MET/TRACK 7.3 & 8.x
Executables	C:\metcal	C:\metcal	%ProgramFiles%\Fluke\METTRACK	%ProgramFiles%\Fluke\METCAL	%ProgramFiles%\Fluke\METTRACK
				%ProgramFiles%\Fluke\METCAL Editor	
DLLs	C:\metcal	C:\metcal	%ProgramFiles%\Fluke\METTRACK	%ProgramFiles%\Fluke\METCAL	%ProgramFiles%\Fluke\METTRACK
				%ProgramFiles%\Fluke\METCAL Editor	
Manuals	C:\metcal\manuals	C:\metcal\manuals	%ProgramData%\Fluke\Help	%ProgramData%\Fluke\Help	%ProgramData%\Fluke\Help
DATs	C:\metcal\station	C:\metcal\station	%ProgramFiles%\Fluke\METTRACK	%ProgramFiles%\Fluke\METCAL\station	%ProgramFiles%\Fluke\METTRACK
				%ProgramData%\Fluke	
metcal.ini <sup>[5]</sup>	C:\WINDOWS	C:\WINDOWS		%ProgramData%\Fluke	
Client Install Files	C:\metcal\client				
<p>[1] All items associated with MET/BASE are file paths on the MET/BASE 7.3 or 8.x server PC. These paths cannot be changed during the installation.</p> <p>[2] This file is installed with MET/CAL and not MET/BASE.</p> <p>[3] %ProgramData% Windows XP – c:\Documents and Settings\All Users\Application Data\ Windows Vista/Server 2008 – c:\ProgramData\ Windows 7/Server 2008 R2 – c:\ProgramData\ [4] %ProgramFiles% 32-bit OS – c:\Program Files\ 64-bit OS – c:\Program Files (x86)\</p> <p>[5] To access the metcal.ini file, use the shortcut to the %ProgramData% folder installed with 7.3 or 8.x.</p>					

*Note*

*In the Start Menu, “Fluke Program Data” is a shortcut to the %ProgramData% folder for Version 7.3 and later.*

## **Legacy Applications**

Many applications that support Fluke Metrology Software directly refer to the metcal.ini file in the Windows directory. These applications should be modified to use the path described in Table 1 to properly function with MET/CAL 7.3 and later.

In the interim, a copy of the metcal.ini file can be maintained in the Windows directory to allow these applications to work. In this case, the information in the ini file located in the Windows directory is not updated based on operations within MET/CAL and MET/TRACK.

If a relevant edit is made, the user needs to copy the file from the MET/CAL maintained location to the Windows directory. The Fluke Calibration program group provides a shortcut to the %ProgramData% folder.

## **Upgrades for Fluke Metrology Software**

Before an upgrade, it is recommended that all database files, procedures, accuracy files, correction files, and other support files are properly archived. The procedures of installing Fluke Metrology Software and upgrading the software are the same. After an upgrade, you are required to take specific steps to update the database (to be compliant with the Sybase 11 run-time engine). See MET/BASE Feature Installation on page 27 for more information.

After an upgrade, not all files and menus created by a previous installation are removed. For example, Sybase 8 will remain intact on the Server PC after MET/BASE is upgraded. This allows applications not related to Fluke Metrology Software to function the same after the upgrade. Directories specific to MET/CAL, MET/TRACK, and MET/BASE are also left intact. These directories can be deleted only after all references to these folders are removed from metcal.ini. Compared to previous versions, the default file locations described in Table 1 are different for version 7.3 and later.

Not all versions of MET/CAL can be upgraded. Table 2 summarizes the version upgrade requirements and restrictions.

**Table 2. MET/CAL Upgrades**

<b>MET/CAL Version</b>	<b>Upgrade</b>
8.0	Direct upgrade to current build of MET/CAL 8.x
7.3 SP1 Build 38 7.3 SP1 Build 37 7.3 SP1 7.3	Direct upgrade to current build of MET/CAL 8.x
7.2 SP3	Direct upgrade support in 8.x. After installation, the Sybase 8 database service must be manually disabled to prevent it from launching when the server PC is rebooted. See Starting and Stopping the Database Engine on page 30 for more information.
7.2 SP1	Direct upgrade support in 8.x. No special requirements. Existing folders and files specific to the current version are not automatically removed by the installation. Custom application shortcuts must be removed manually.
7.2	
7.1.1 SP1	
7.1	
7.0.1	An upgrade to an intermediate version is required. For example, upgrade to 7.1 or 7.2 SP3. Follow the upgrade steps for the selected upgrade version. Then run the MET/CAL 8.x installation.
7.0	
6.1.1A	
6.1.1 and less	

## Installation and Licensing

Both stand-alone and client/server (networked) installations are supported. In a stand-alone setup, the MET/BASE server and the MET/CAL Run Time, MET/CAL Editor, and MET/TRACK clients are installed on the same PC. In a client/server installation, MET/BASE is installed on a server PC and the MET/CAL Run Time, MET/CAL Editor and MET/TRACK applications are installed on individual client PCs. Floating licenses for the clients are stored in MET/BASE. A MET/CAL license is valid for both MET/CAL and MET/TRACK. A MET/TRACK license is valid for MET/TRACK only.

Use the Fluke Metrology Software installer (included on the distribution media) when possible to perform all installations. See “Fluke Metrology Software Installer” on page 8 for more details.

The installation packages for each feature can also be downloaded and installed individually if desired. However, these downloads do not include any of the prerequisites required to run the software. All prerequisites must be downloaded and installed separately prior to installing each feature. See “MET/BASE Feature Installation” on page 15, “MET/TRACK Installation” on page 18, “MET/CAL Run Time Installation” on page 22, and “MET/CAL Editor Installation” on page 25.

### New Server Installations and Upgrades

When you perform a new server installation or an upgrade, follow the steps outlined in “Fluke Metrology Software Installer” on page 8.

To perform new server installations using default settings, select the **Server Features Only** option on the Setup Type dialog.

For a customized installation:

1. Select the **Full/Custom Installation** option.
2. Select only the MET/BASE feature on the Custom Setup dialog.
3. Enter custom information on subsequent dialogs.

For upgrade installations, the Fluke Metrology Software installer will launch the appropriate feature installers based on the features that are currently installed on the computer. Follow the steps for each feature installer to complete the installation process.

When upgrading from a previous version, there may be an additional step to upgrade the database after the installation process is complete, depending on which version you are upgrading from. See the Upgrades for Fluke Metrology Software topic in the MET/CAL User’s Guide help file (search for Upgrade Process).

Once the MET/BASE feature installation is complete on a new server, perform the following steps before any workstation computers can be set up:

- Set up a network share for the folder designated as the shared folder.
- Set up permissions on the share to allow the appropriate users to access the files

### New Workstation Installations and Upgrades

When you perform a new workstation installation or an upgrade, follow the steps outlined in “Fluke Metrology Software Installer” on page 8.

Before installing the software on a new workstation, make sure the server has been properly set up first and the shared folder has been mapped to a drive letter on the workstation computer.

To perform new workstation installations using default settings, select the **Workstation Features Only** option on the Setup Type dialog.

For a customized installation:

1. Select the **Full/Custom Installation** option.
2. Select only the desired features to install on the Custom Setup dialog.
3. Enter custom information on subsequent dialogs.

For upgrade installations, the Fluke Metrology Software installer will launch the appropriate feature installers based on the features that are currently installed on the computer. Follow the steps for each feature installer to complete the installation process.

For details on performing workstation installations over the network, refer to “Network Installation for Workstations” on page 13.

### **New Stand-Alone Installations and Upgrades**

When you perform a new stand-alone installation or an upgrade, follow the steps outlined in “Fluke Metrology Software Installer” on page 8.

For new stand-alone installations:

1. Select the **Full/Custom Installation** option on the Setup Type dialog.
2. Select the desired features to install on the Custom Setup dialog.

#### *Note*

*For new stand-alone installations, the MET/BASE feature must be selected.*

3. On subsequent dialogs, select custom settings or use the default settings.

For upgrades, the Fluke Metrology Software installer will launch the appropriate feature installers based on the features that are currently installed on the computer. Follow the steps for each feature installer to complete the installation process.

## **Fluke Metrology Software Installer**

The Fluke Metrology Software installer is created to streamline the installation process. This consolidated installer is launched from the AutoRun program. Typically, this program opens automatically after you insert the MET/CAL distribution media into the host PC.

The consolidated installer is used to perform new installations and upgrades, whether you are setting up a server, a workstation, or a stand-alone system. Alternatively, you can use individual feature installers. However, these installers require that you manually install any prerequisites.

### **Installer Prerequisites**

In order for the consolidated installer to function properly, Windows Installer 4.5 or later and the Microsoft .NET 4.0 Framework must be installed on the PC. If necessary, Windows Installer 4.5 and the .NET 4.0 Framework will be installed when you run the consolidated installer for the first time. The computer will need to be rebooted after these installations.

### **Installation Packages and Prerequisites**

The installation packages used by the Fluke Metrology Software installer are found on the distribution media. MET/BASE, MET/CAL Run Time, MET/CAL Editor and MET/TRACK are all distributed as Windows Installer installation packages, also known as MSI files. Each MSI file has a version suffix (major, minor, build or revision).

These packages are:

- Fluke MET/BASE (Fluke-METBASE-8.x.x.msi)

- Fluke MET/TRACK application (Fluke-METTRACK-8.x.x.msi)
- Fluke MET/CAL Run Time applications (Fluke-METCAL-8.x.x.msi)
- Fluke MET/CAL Editor applications (Fluke-METCAL-EDITOR-8.x.x.msi)

The prerequisites that are automatically installed by the Fluke Metrology Software installer (depending on the selected features to be installed) include:

- Crystal Reports 2008 Runtime SP3 (for MET/TRACK and MET/CAL Run Time)
- Microsoft .NET 4 Multi-Targeting Pack (for MET/CAL Editor only)
- Microsoft Application Error Reporting (for MET/CAL Editor only)
- Microsoft Visual C++ 2010 Redistributable Package (for MET/CAL Editor only)
- Microsoft Visual Studio 2010 Isolated Shell (for MET/CAL Editor only)

The installation files for these prerequisites are also included on the distribution media.

*Note*

*When uninstalling the software, none of the prerequisites will be uninstalled automatically. In order to uninstall prerequisites, use the Windows® Control Panel Add or Remove Programs or Program and Features option.*

### **Installation Process**

The steps that follow describe the Fluke Metrology Software installation process using the consolidated installer. If Windows Installer and/or the Microsoft .NET 4.0 Framework need to be updated on the PC, the prerequisite installation dialog is displayed.

### **Prerequisite Installation**

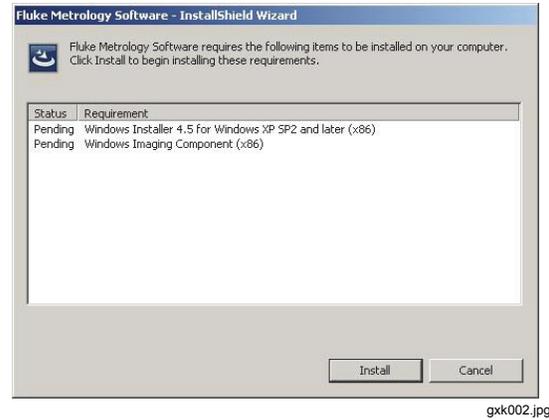
To install the prerequisites:

1. Make sure that the minimum PC requirements are met.  
See System Requirements on page 3 for more information.
2. For upgrades, verify that none of the Fluke Metrology Software applications are running and that the database engine is not running.  
See page 30 for more information.

*Note*

*The active user must be logged into the PC as system administrator in order to complete the installation process.*

3. Insert the distribution media.
  - a. When AutoRun is enabled on the host PC, the AutoRun Splash Screen will launch.
  - b. If AutoRun is not enabled, use Windows Explorer to navigate to the root folder of the installation media, and double-click the **AutoRun.exe** file to launch the AutoRun Splash Screen.



4. Click the **Fluke Metrology Software** item in the Install Software column on the right to launch the consolidated installer.
5. If any prerequisites need to be installed, click **Install** to install the prerequisites.

If Windows Installer and/or the .NET 4.0 Framework are updated, a reboot message is displayed.

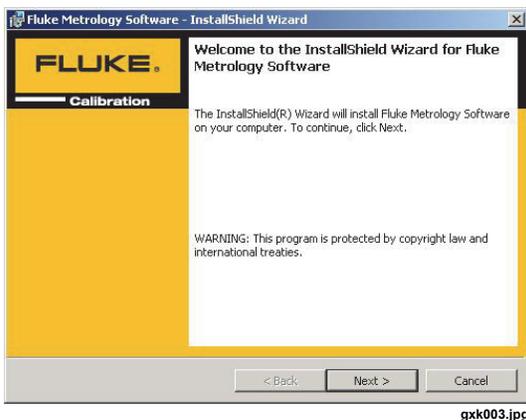
- a. To avoid multiple reboots, click **No** on the message box and run the consolidated installer again.

A Windows Installer Update may also need to be installed, which will also require a reboot.

- b. Keep selecting **No** on the reboot prompts until all prerequisites have been installed.
6. Reboot the computer once all prerequisites have been installed.
7. Launch the consolidated installer again.

### Setup Wizard

Once the Windows Installer prerequisites have been installed, the Welcome dialog is displayed.



To set up the installation:

1. Click **Next >** to proceed.

The License Agreement dialog is displayed.

*Note*

- *If setup detects a previous version of MET/CAL is currently installed on the computer, all dialogs in the consolidated installer are skipped and the Ready to Install the Program dialog is displayed.*
- *Upgrades must be performed by following the dialogs for each individual feature's installer.*

2. Check the **I accept...** option.

3. Click **Next >** to proceed.

The Select Language dialog is displayed.

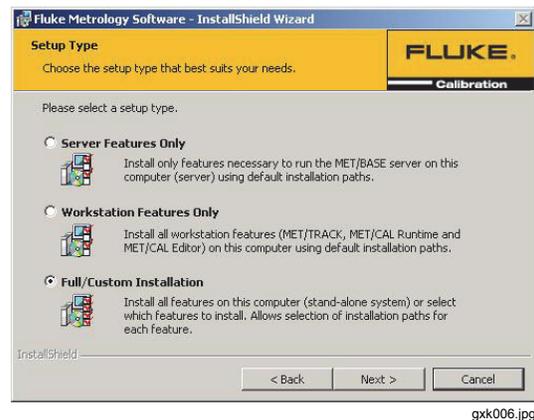
4. Select the language of the computer system that the software is being installed on.

*Note*

*This selection does not change the language used on the installation dialogs, but will determine some database and various other settings.*

5. Click **Next >** to proceed.

The Setup Type dialog is displayed.

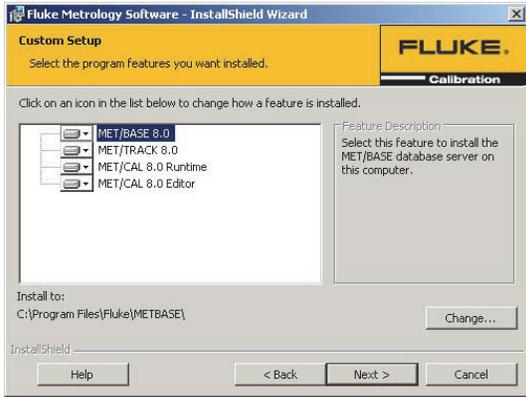


6. Select an option and click **Next >**.

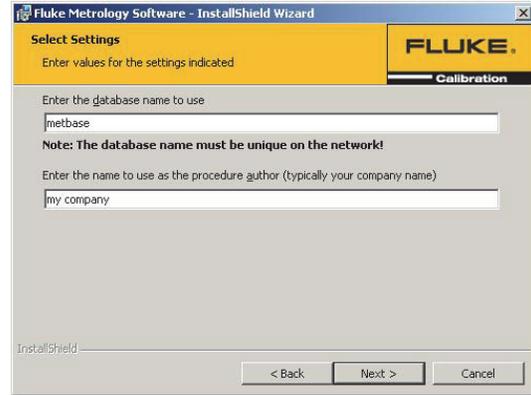
The consolidated installer provides three choices:

- **Server Features Only** – Selecting this option installs only the necessary software and prerequisites for setting up the MET/BASE server on the computer using default settings. (MET/CAL Run Time, MET/CAL Editor and MET/TRACK are not installed on the computer.)
- **Workstation Features Only** – Selecting this option installs only the necessary software and prerequisites for setting up a MET/CAL Run Time, MET/CAL Editor and MET/TRACK workstation (client) computer using default settings. (MET/BASE is not installed on the computer.) When selecting this option, it is expected that the server computer has already been setup.
- **Full/Custom Installation** – Selecting this option allows the individual features to be selected for installation and allows the installation paths and many other customizable settings to be selected.

If the **Full/Custom Installation** option was selected, the Custom Setup dialog is displayed.



gkx007.jpg



gkx008.jpg

### Note

*This dialog allows each individual feature to be selected or deselected, and allows the installation location for each feature to be customized.*

### Software Installation

To actually install the Fluke Metrology Software:

1. Select the features to install and click **Next >** to proceed.

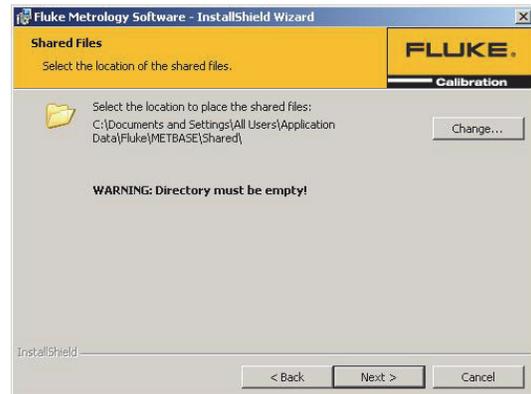
The Select Settings dialog is displayed.

2. Enter the name to use for the database (or the name that was used when the database was installed on the server if performing a workstation only installation).
3. Click **Next >** to proceed.
4. Make sure the database name is unique on the network.
5. If the MET/TRACK or MET/CAL Run Time feature was selected for installation, enter the procedure author name.

If the MET/BASE feature was selected for installation, the Database Location dialog is displayed.



gkx009.jpg



gkx010.jpg

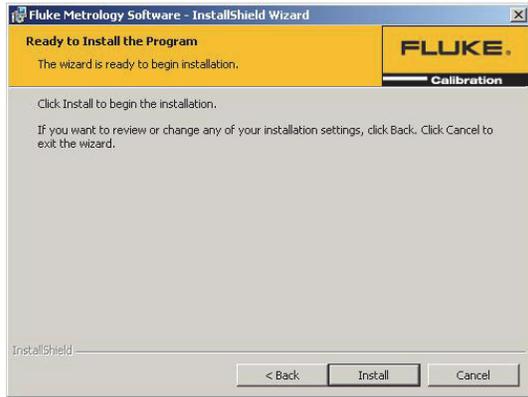
6. Select the location for the database and click **Next >** to proceed.

The Shared Files dialog is displayed.

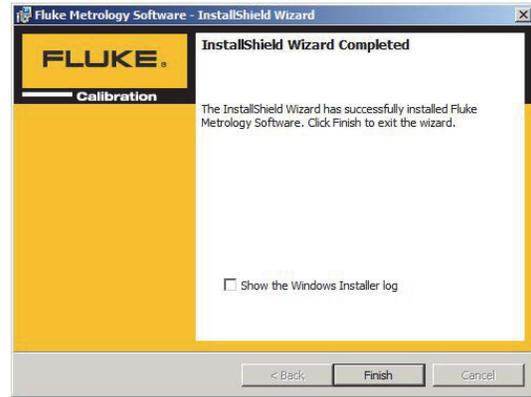
7. If the MET/BASE feature was selected for installation, select the folder where the shared files will be installed.

- a. For a server installation, this folder must be shared on the network.
  - b. If performing a workstation only installation, map the shared folder on the server to a drive letter on the local computer, then select that drive letter.
8. Click **Next >** to proceed.

The Ready to Install the Program dialog is displayed.



gxxk011.jpg



gxxk012.jpg

9. Click **Install** to begin the installation process.

Depending on the selected features to install, the installer automatically installs all necessary prerequisites, then automatically launches and installs each selected feature.

*Note*

*On Windows® 7/Vista and Windows® Server 2008 computers, multiple User Account Control (UAC) prompts are likely to appear throughout the installation process. These prompts must be dismissed within a specific time limit in order for the installation to succeed. Failure to dismiss any of these prompts in a timely manner may cause the installation to abort. For this reason, do not leave the installation process unattended.*

When the installation process is complete, a message box is displayed, indicating that the computer needs to be rebooted prior to using MET/CAL.

10. Click **OK**.

The Setup Complete dialog is displayed.

11. Click **Finish** to close the dialog.

*Note*

*Reboot the computer before attempting to use MET/CAL.*

### **Network Installation for Workstations**

For client/server systems that have MET/BASE installed on a central server computer and have multiple MET/CAL and/or MET/TRACK workstations, the workstation (client) features can be manually installed on each workstation. These features can be installed from a shared folder on the server. Alternatively, they can be installed from Microsoft networks using Active Directory, deployed on each workstation using Group Policy Objects (GPOs).

*Note*

*Refer to the Microsoft Active Directory documentation for more information on this topic.*

Once the MET/BASE feature has been installed on the server computer, you can copy the workstation installation packages and all necessary prerequisite installation packages from the distribution media to a shared folder (that has appropriate permissions on the server). Then, GPOs can be created in Active Directory to deploy the appropriate installations on desired workstation computers. Refer to Table 3 for information on where to find the appropriate installation packages for each client application and prerequisite on the distribution media.

**Table 3. Installation Locations and Prerequisites**

Application	Installation Package File Name	Location on Distribution Media	Required for MET/CAL Workstations	Required for MET/TRACK Workstations
MET/TRACK	Fluke-METTRACK-8.x.x.msi	\\Setup\Client	No	Yes
MET/CAL Run Time	Fluke-METCAL-8.x.x.msi	\\Setup\Client	Yes	No
MET/CAL Editor	Fluke-METCAL-EDITOR-8.x.x.msi	\\Setup\Client	Yes <sup>[1]</sup>	No
Microsoft Application Error Reporting	dw20shared.exe	\\Setup\\ISSetupPrerequisites\\{6E4449A7-4C2C-4C89-9A35-B438C61086A5}	Yes <sup>[2][4]</sup>	No
Microsoft .NET 4 Multi-Targeting Pack	NetFx_DTP.cab NetFx_DTP.msi	\\Setup\\ISSetupPrerequisites\\{965A969C-DC36-4AFE-8769-005250207958}	Yes <sup>[2][4]</sup>	No
Microsoft Visual C++ 2010 Redistributable	vcredist_x86.exe	\\Setup\\ISSetupPrerequisites\\{83960519-644A-4722-BA7A-37D23C1D004F}	Yes <sup>[2][4]</sup>	No
Microsoft Visual Studio 2010 Isolated Shell	vs_setup.msi vs_setup.cab vs_setup.dll	\\Setup\\ISSetupPrerequisites\\{5696516B-A5D4-4D14-9950-F3FDB75BDA29}	Yes <sup>[2]</sup>	No
Microsoft.NET 4.0 Framework (full)	dotNetFx40_Full_x86_x64.exe	\\Setup\\ISSetupPrerequisites\\{32D7E3D1-C9DF-4FA6-9F9B-4D5117AB2917}	Yes	Yes
Crystal Reports 2008 Runtime SP3	Crystal Reports 2008 Runtime SP3 12.3.4.895.msi	\\Setup\\ISSetupPrerequisites\\{946B2FE6-70F8-4876-A9AB-E913C471956A}	Yes <sup>[3]</sup>	Yes
<p>[1] Only required if writing procedures on the workstation                      [2] Only required if MET/CAL Editor is installed on the workstation                      [3] Only required if MET/CAL Run Time is installed on the workstation                      [4] These must be installed prior to installing the Microsoft Visual Studio 2010 Isolated Shell</p>				

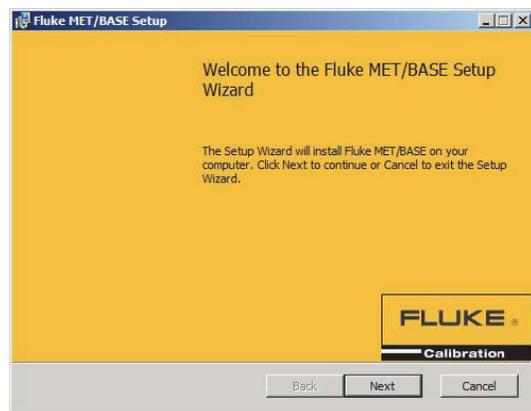
## MET/BASE Feature Installation

This section outlines the process of installing the MET/BASE feature individually or as an upgrade when using the Fluke Metrology Software installer.

Before you install the MET/BASE feature individually:

- The active user must log on the PC as system administrator in order to complete the installation process.
- If you are running the MET/BASE feature installer individually, make sure all prerequisites have been installed first.
- If you are using the Fluke Metrology Software installer to perform an upgrade, it automatically installs all necessary prerequisites for you.

After the MET/BASE feature installer is launched, the Welcome dialog is displayed.



gxxk013.jpg

## Setup Wizard

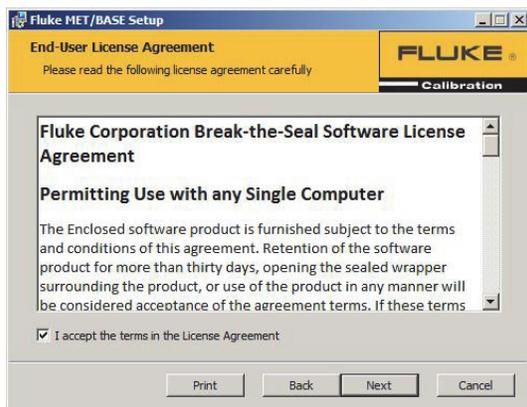
To set up the installation:

1. Click **Next** to proceed.

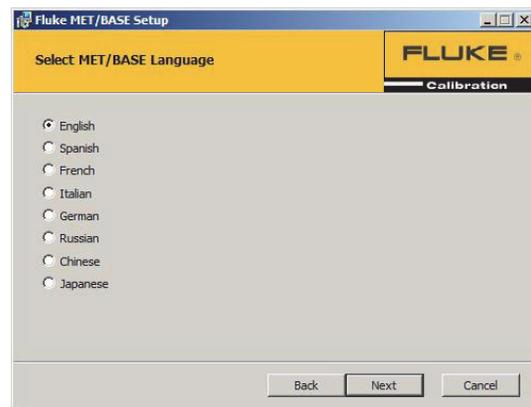
The License Agreement dialog is displayed.

2. Check the **I accept...** option.
3. Click **Next** to proceed.

The Select Language dialog is displayed.



gxxk014.jpg



gxxk015.jpg

For upgrades from version 7.3 SP1, the Ready to Install dialog is displayed.

4. Select the language to use.

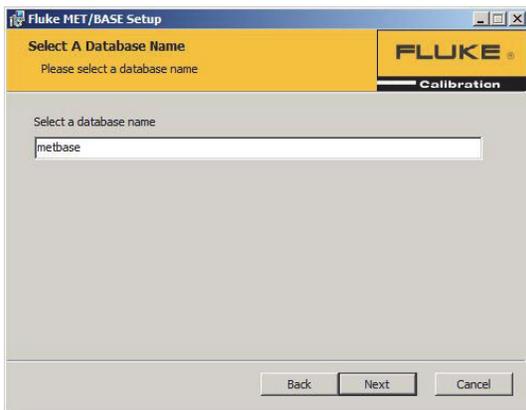
*Note*

*The language selection defines the database collation that is installed.*

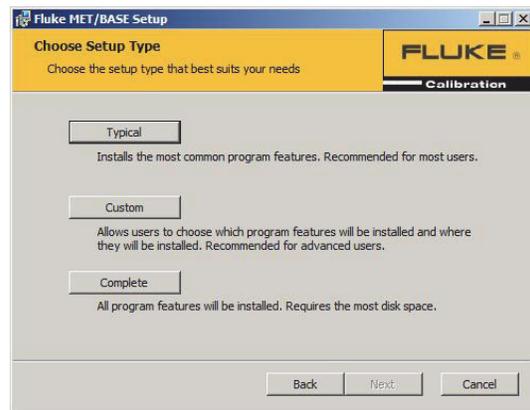
5. Click **Next** to proceed.
6. Enter the database name to use for this server.

The value entered is used as the name for the Sybase 11 database service.

7. Click **Next** to proceed.



gxx016.jpg



gxx017.jpg

*Note*

*The database name must be unique on the network. If other MET/BASE server computers are on the same network, make sure each one has been given a unique name.*

8. Choose the setup type.

The choices are:

- **Typical** – Install the typically used installation files using the default installation settings. There are no options to alter the file and folder paths.
- **Custom** – All installation folders and paths are customizable. The default options are pre-selected.
- **Complete** – Install all options using the default installation settings. There are no options to alter the file and folder paths.

The Custom option is recommended for all upgrades.

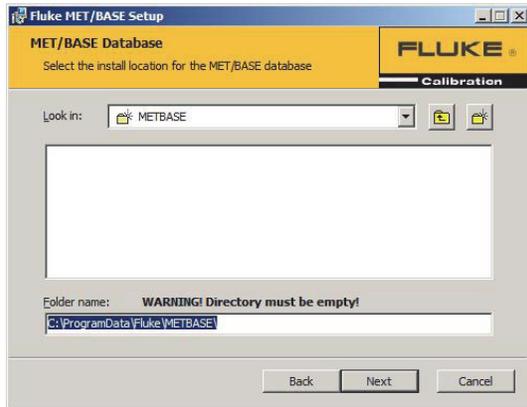
## Feature Installation

To install the feature:

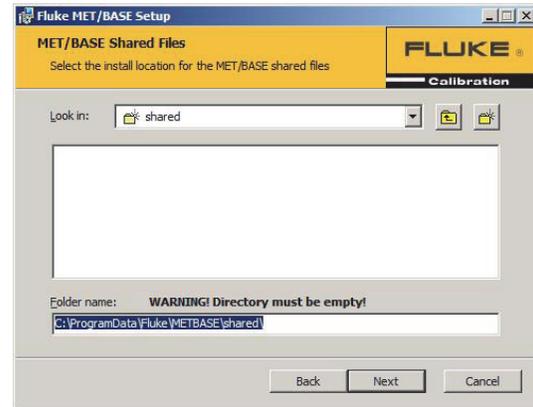
1. If the Custom setup type was selected, select the location for the MET/BASE database.

The default database file is installed to this location.

2. Click **Next** to proceed.



gxk018.jpg



gxk019.jpg

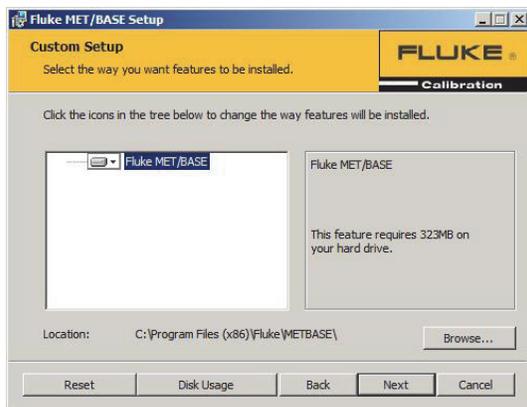
### Note

*The database file cannot be installed onto a network drive. It must be installed on a local drive of the MET/BASE server PC. When upgrading, use the file path selections in DBUpdate to move the file to a network path. For a new installation, the file must be transferred after the installation is complete.*

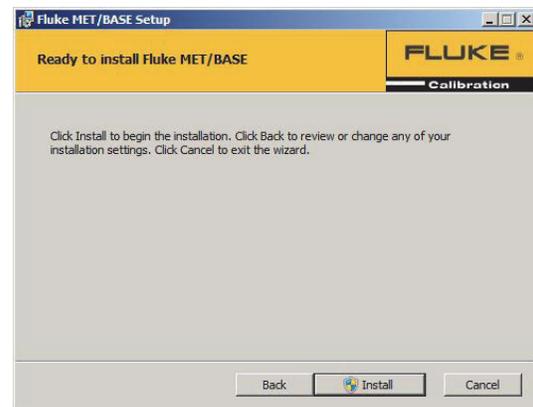
3. Select the path to the MET/BASE shared folder.

The default procedures, accuracy files, and other support files are installed in a directory structure relative to the shared folder.

4. Click **Next** to proceed.
5. Select the location of the MET/BASE installation files (DLL files and executables that represent MET/BASE).



gxk020.jpg



gxk021.jpg

6. To change the location, click the **Browse...** button.

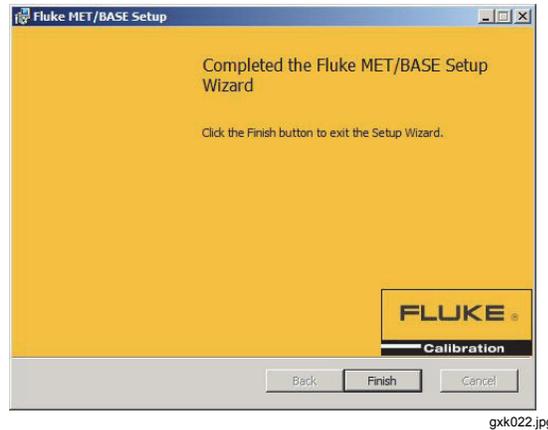
A final confirmation dialog displays before transferring all files.

7. Click **Next** to proceed.
8. On the Ready to Install dialog, click the **Install** button to begin the installation process.

The MET/BASE files are installed on the PC.

After the MET/BASE files have been installed on the PC, the Installation Complete dialog is displayed.

9. Click **Finish** to complete the MET/BASE installation process.



### **MET/TRACK Installation**

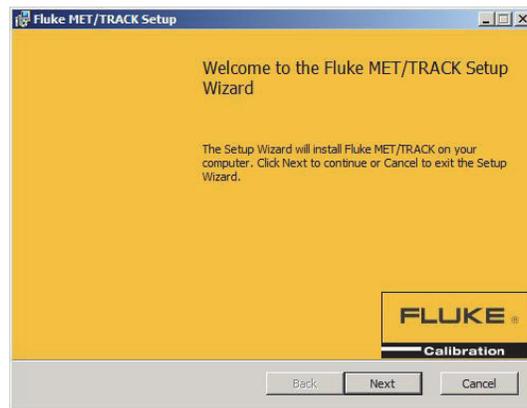
This section outlines the process of installing the MET/TRACK feature individually or as an upgrade when using the Fluke Metrology Software installer.

Before you begin:

- Make sure that MET/BASE is installed either on the same PC (stand-alone installation) or that the shared folder in a networked instance of MET/BASE is mapped to a logical drive on the PC. (The mapped drive is required to complete the installation process for networked installations.)
- Make sure that the active user has logged on the PC as system administrator in order to complete the installation process.
- If you are running the MET/TRACK feature installer individually, make sure all prerequisites have been installed first.

If you are using the Fluke Metrology Software installer to perform an upgrade, it automatically installs all necessary prerequisites for you.

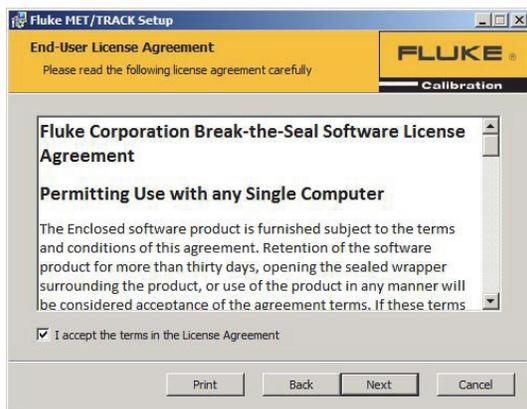
After the MET/TRACK feature installer is launched, the Welcome dialog is displayed.



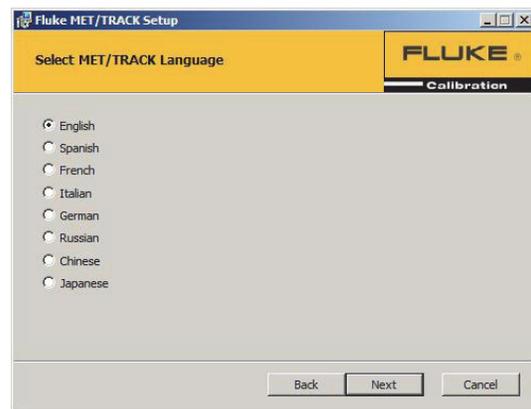
gxxk023.jpg

### Setup Wizard

1. Click **Next** to proceed.



gxxk024.jpg



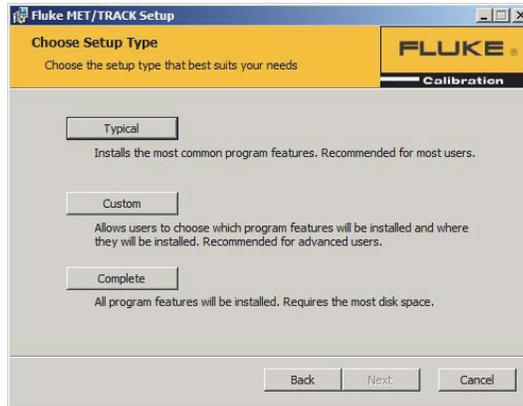
gxxk025.jpg

2. Check the **I accept...** option.
  3. Click **Next** to proceed.
- The Language Selection dialog is displayed.
4. Select the language to use.

#### Note

*The language selection defines the database collation that is installed.*

5. Click **Next** to proceed.
6. Choose the setup type.



gxxk026.jpg

The choices are:

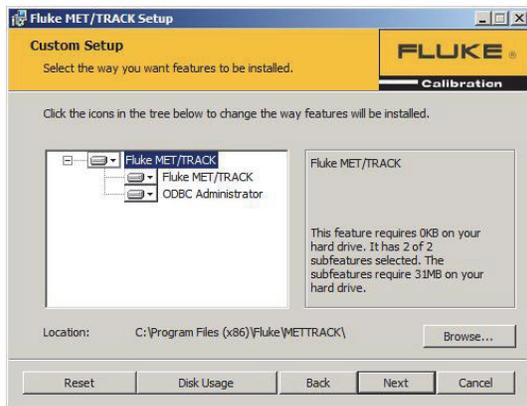
- **Typical** - Install the typically used installation files using the default installation settings. There are no options to alter the file and folder paths.
- **Custom** - All installation folders and paths are customizable. The default options are pre-selected.
- **Complete** - Install all options using the default installation settings. There are no options to alter the file and folder paths.

The Custom option is recommended for all upgrades.

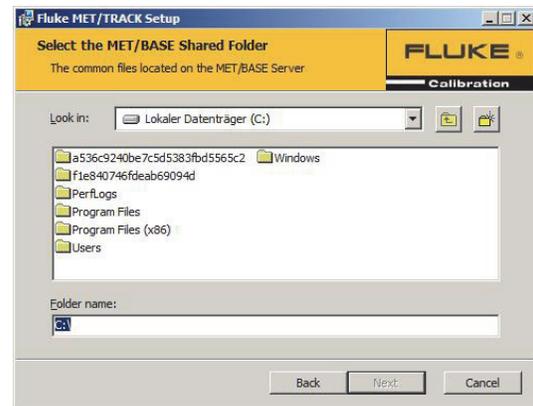
### Feature Installation

To actually install the MET/TRACK feature:

1. If the Custom setup type was selected, select the specific applications and choose the option to install it on the local hard drive.
2. Select the Fluke MET/TRACK item and click **Browse** to change the folder where the MET/TRACK applications will be installed.
3. Click **Next** to proceed.



gxxk027.jpg



gxxk028.jpg

### Note

*All available applications are automatically installed when Complete is selected as the setup type.*

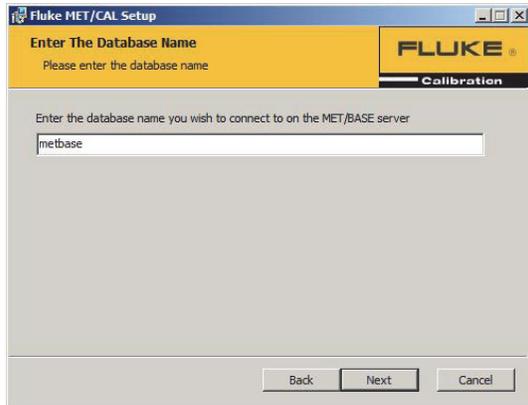
4. When installing on a networked system and MET/CAL is not installed, enter the path to the MET/BASE shared folder.

For a networked installation, this should be a locally mapped drive on the MET/BASE

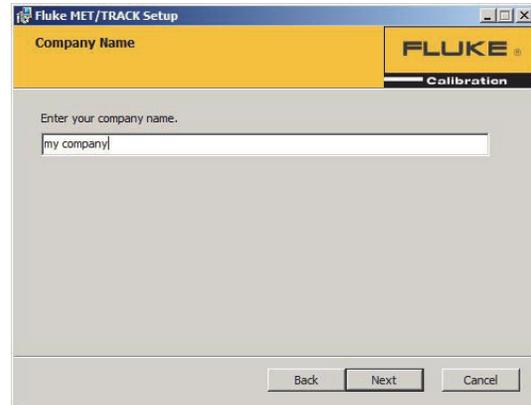
server PC.

In a stand-alone installation, this is typically a local folder.

5. For a networked installation, enter the name of the MET/BASE server.



gxx029.jpg



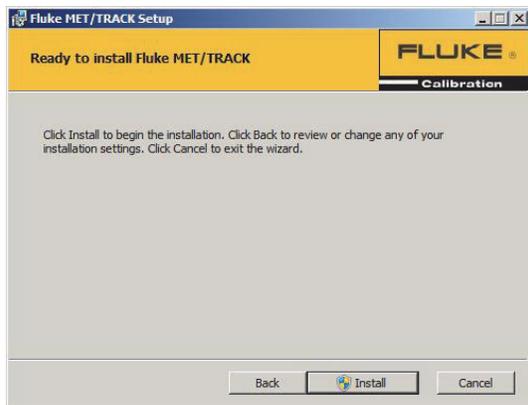
gxx030.jpg

If a custom MET/BASE installation was performed, enter the same name that was entered during the MET/BASE installation. Otherwise, the default database name is **metbase**.

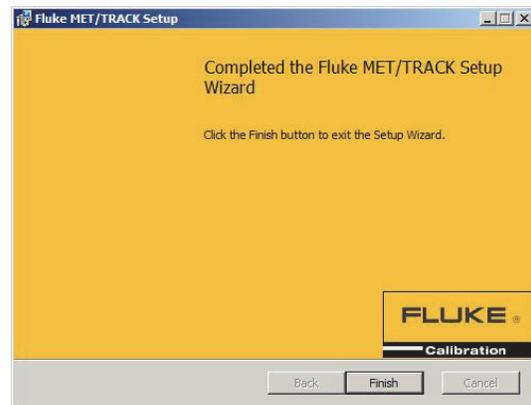
6. Enter your company name.

The text entered is used for the default procedure author name.

7. Click **Next** to proceed.



gxx031.jpg



gxx032.jpg

8. On the Ready to Install dialog, click the **Install** button to begin the installation process.

The MET/TRACK files are installed on the PC. When upgrading MET/TRACK from version 7.2 or earlier, the **metcal.ini** file located in the Windows directory is automatically transferred to the %ProgramData% path. After the MET/TRACK files have been installed on the PC, the Installation Complete dialog is displayed.

9. Click **Finish** to complete the MET/TRACK installation process.

10. When the installation is complete, remove or replace custom MET/CAL icons.

## MET/CAL Run Time Installation

This section outlines the process of installing the MET/CAL Run Time feature individually or as an upgrade when using the Fluke Metrology Software installer.

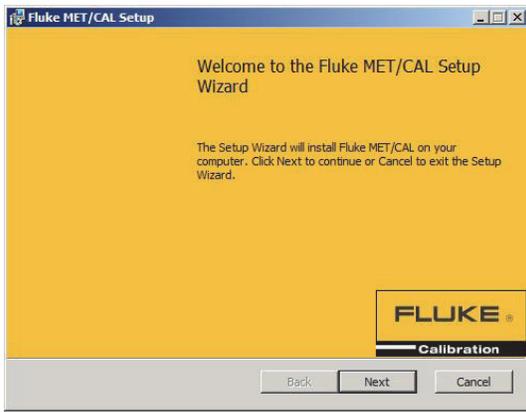
Before you begin:

- Make sure that MET/BASE is installed either on the same PC (stand-alone installation) or that the shared folder in a networked instance of MET/BASE is mapped to a logical drive on the PC. (The mapped drive is required to complete the installation process for networked installations.)

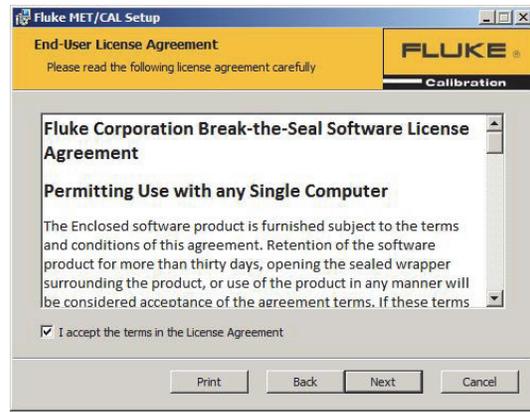
The MET/CAL Run Time installation installs the MET/CAL Run Time, MET/CAL LITE, 5500/CAL and 5000A RH/T client software.

- Make sure that the active user has logged on the PC as system administrator in order to complete the installation process.
- If you are running the MET/CAL Run Time feature installer individually, make sure all prerequisites have been installed first. If you are using the Fluke Metrology Software installer to perform an upgrade, it automatically installs all necessary prerequisites for you.

After the MET/CAL Run Time feature installer is launched, the Welcome dialog is displayed.



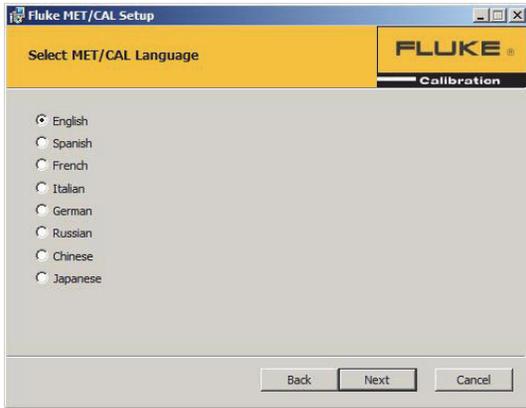
gxx033.jpg



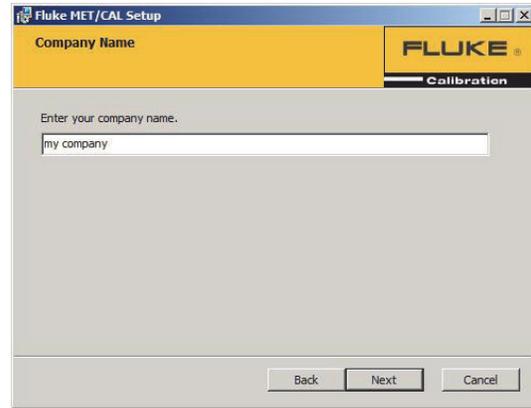
gxx034.jpg

To install the MET/CAL Run Time feature:

1. Click **Next** to proceed.
2. Check the **I accept...** option.
3. Click **Next** to proceed.
4. Select the language to use and click **Next** to proceed.



gxx035.jpg

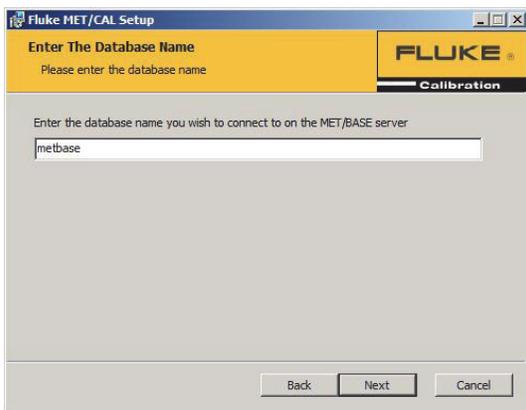


gxx036.jpg

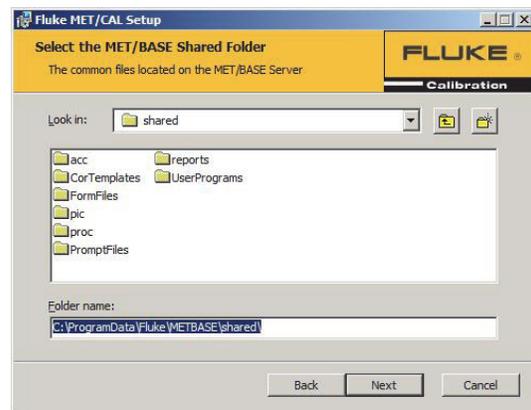
*Note*

*The language selection defines the database collation that is installed.*

5. Enter your company name. (The text entered is used for the default procedure author name.)



gxx037.jpg



gxx038.jpg

6. Enter the database name.

For a networked installation, enter the name of the MET/BASE server. If a custom MET/BASE installation was performed, enter the same name that was entered during the MET/BASE installation. Otherwise, the default database name is **metbase**.

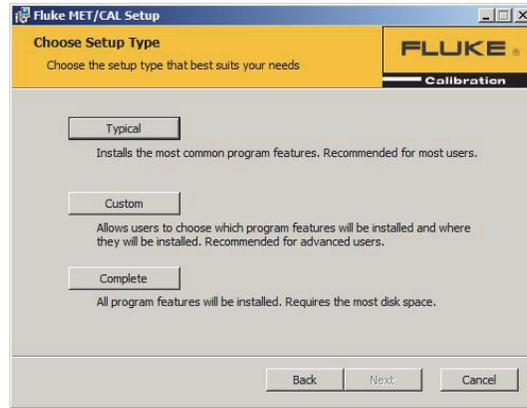
7. Click **Next** to proceed.
8. Enter the path to the MET/BASE shared folder.

For a networked installation, this should be a locally mapped drive on the MET/BASE server PC. In a stand-alone installation, this is typically a local folder.

9. Choose the setup type.

The choices are:

- **Typical** - Install the typically used installation files using the default installation settings. There are no options to alter the file and folder paths.
- **Custom** - All installation folders and paths are customizable. The default options are pre-selected.
- **Complete** - Install all options using the default installation settings. There are no options to alter the file and folder paths.

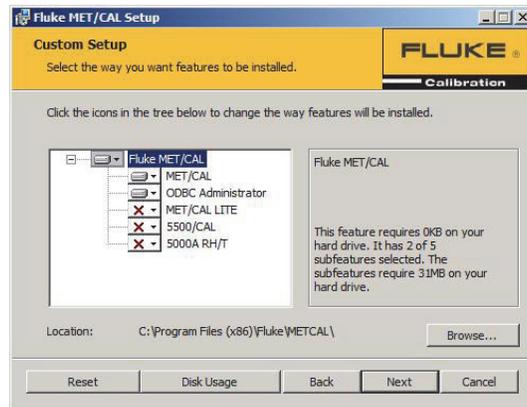


gxx039.jpg

The **Custom** option is recommended for all upgrades.

When installing MET/CAL LITE, 5500/CAL, or 5000A RH/T, you should always choose **Custom** as the setup type.

1. If the Custom setup type was selected, select the specific applications and choose the option to install it on the local hard drive.
2. Change the folder where the MET/CAL applications will be installed.
  - a. Select **Fluke MET/CAL**.
  - b. Click the **Browse...** button.
  - c. Select the new folder where you want to install the MET/CAL applications.
3. Click **Next** to proceed.

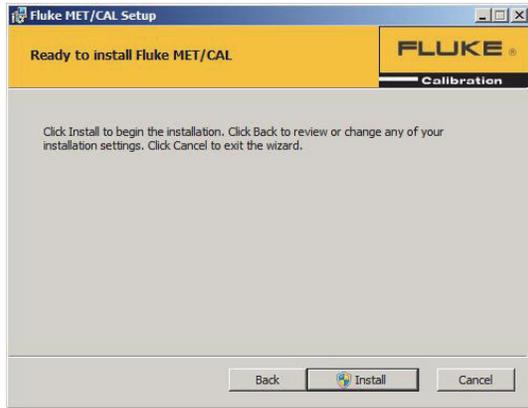


gxx040.jpg

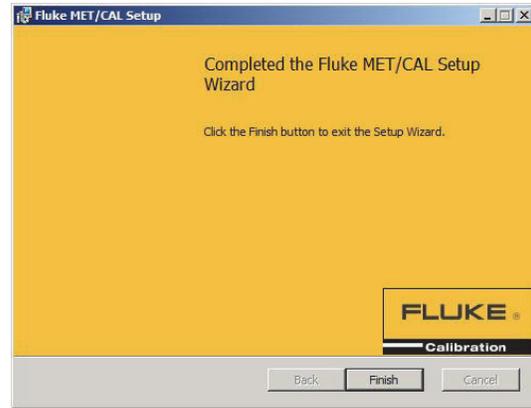
*Note*

*All available applications are automatically installed when Complete is selected as the setup type.*

4. On the Ready to Install dialog, click the **Install** button to begin the installation process.



gxx041.jpg



gxx042.jpg

The MET/CAL Run Time files are installed on the PC.

*Note*

*When upgrading MET/CAL Run Time from version 7.2 or earlier, the **metcal.ini** file located in the Windows directory is automatically transferred to the %ProgramData% path.*

After the MET/CAL Run Time files have been installed on the PC, the Installation Complete dialog is displayed.

5. Click **Finish** to complete the MET/CAL Run Time installation process.
6. When the installation is complete, remove or replace custom MET/CAL icons.

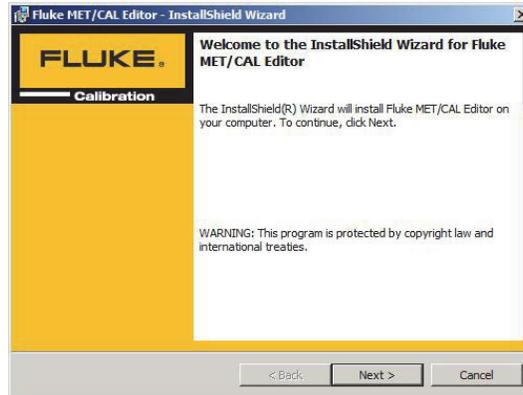
**MET/CAL Editor Installation**

This section outlines the process of installing the MET/CAL Editor feature individually or as an upgrade when using the Fluke Metrology Software installer.

Before you begin:

- Make sure that MET/BASE is installed either on the same PC (stand-alone installation) or that the shared folder in a networked instance of MET/BASE is mapped to a logical drive on the PC.
- Make sure that the active user has logged on the PC as system administrator in order to complete the installation process.
- If you are running the MET/CAL Editor feature installer individually, make sure all prerequisites have been installed first. (If you are using the Fluke Metrology Software installer to perform an upgrade, it automatically installs all necessary prerequisites for you.)

After the MET/CAL Editor feature installer is launched, the Welcome dialog is displayed.



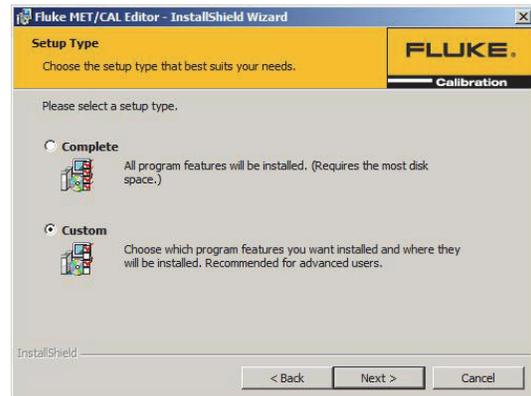
gkx043.jpg

To install MET/CAL Editor:

1. Click **Next >** to proceed.



gkx044.jpg



gkx045.jpg

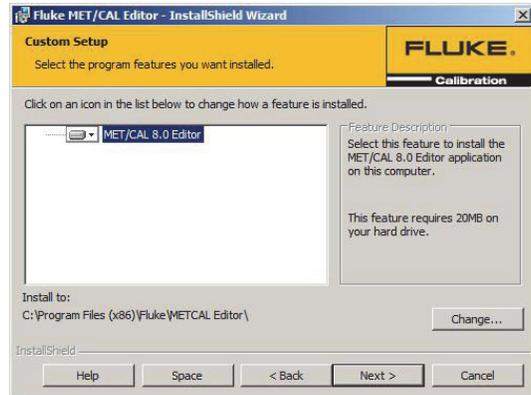
2. Check the **I accept...** option.
3. Click **Next >** to proceed.
4. Choose the setup type.

The choices are:

- **Complete** - Install all options using the default installation settings. There are no options to alter the file and folder paths.
- **Custom** - All installation folders and paths are customizable. The default options are pre-selected.

The Custom option is recommended for all upgrades.

5. Click **Next >** to proceed.



gtxk046.jpg

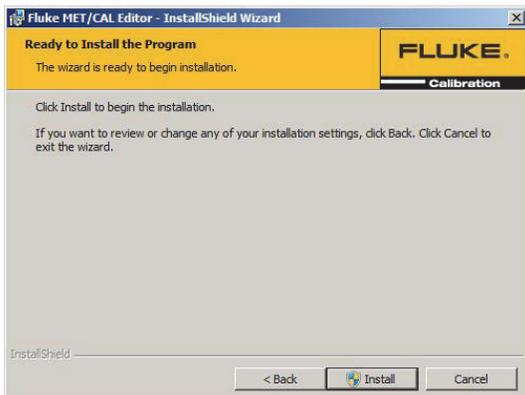
6. If the Custom setup type was selected, select the specific applications and choose the option to install it on the local hard drive.

You can select **MET/CAL 8.0 Editor** and click **Change...** to change the folder where the MET/CAL Editor application will be installed.

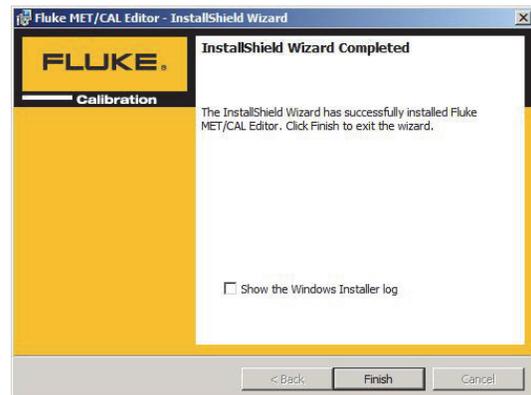
7. Click **Next >** to proceed.

*Note*

*All available applications are automatically installed when Complete is selected as the setup type.*



gtxk047.jpg



gtxk048.jpg

8. On the Ready to Install dialog, click the **Install** button to begin the installation process.

The MET/CAL Editor files are installed on the PC.

After the MET/CAL Editor files have been installed on the PC, the Installation Complete dialog is displayed.

9. Click **Finish** to complete the MET/CAL Editor installation process.

## **DBUpdate**

DBUpdate is a program located in the Fluke Calibration program group. This program updates a Sybase 8 database to a Sybase 11 format that is compatible with MET/CAL 7.3 or later. The update process does not alter the original Sybase 8 database file.

Before you run DBUpdate, make sure:

- All Sybase services are stopped and that all Fluke Metrology Software is shut down.
- You have logged on as administrator in order to run the program.

To run DBUpdate on Windows 7, Windows Vista, and Windows Server 2008:

1. Right-click the DBUpdate shortcut.
2. Choose **Run as Administrator**.

The main program interface asks you to select the database to upgrade, the location of the new database, and a temporary folder.

3. Use the folder icon next to each selection to browse to files and folders.
4. Make sure that both the new database location and the temporary folder location have enough disk space to support the database size.
5. Enter the “mt” user credentials in the User ID and Password fields.

By default, the ID and password are “mt”. The **Use new SQL Anywhere database when complete** option is provided to automatically create a database service for the new database when the migration is complete. The service name is determined by the database service name entered at the MET/BASE installation.

If you use multiple databases, only select the option for one database. Services for the other databases must be created with Sybase Central.

6. Click **Update** to begin the process.

Transactional information is listed in the text box below the **Update** button. Data transfer information is listed to the right of the folder selections at the top of the program. This information is provided as a progress indication. A prompt displays when the process is complete.

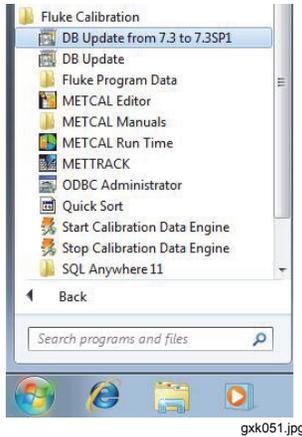
### *Note*

*The update process can take several minutes to several hours depending on the size of the database and the performance characteristics of the PC.*

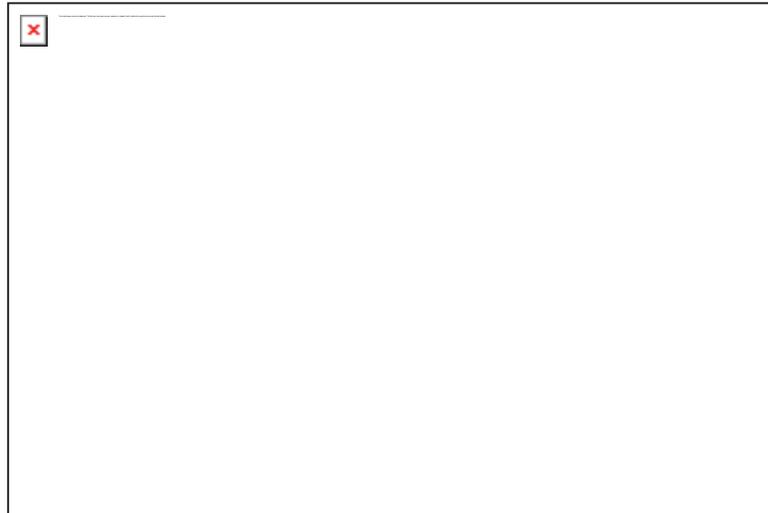
Common errors that will prevent DBUpdate from a successful completion are:

- “mt” User ID/Password is incorrect.
- Temporary folder location is not empty.
- Sybase 8 or Sybase 11 database engine is active.
- Insufficient disk space in the new folder location or the temporary folder location.
- Existing database does not correspond to the log file associated with the database. (This can occur if a database file is copied over an existing database file with the same name but the original log file is not copied at the same time.)

When upgrading from version 7.3 to version 7.3 SP1 or later, a separate DBUpdate shortcut is displayed in the Fluke Calibration program group. Use this shortcut to update the database instead of DBUpdate.



gxxk051.jpg



gxxk052.jpg

The main program interface asks you for the database name (DSN).

1. Enter the “mt” user credentials in the User ID and Password fields.

By default, the ID and password are “mt”. The **Use new SQL Anywhere database when complete** option is provided to automatically create a database service for the new database when the migration is complete. The service name is determined by the database service name entered at the MET/BASE installation.

If you use multiple databases, only select the option for one database. Services for the other databases must be created with Sybase Central.

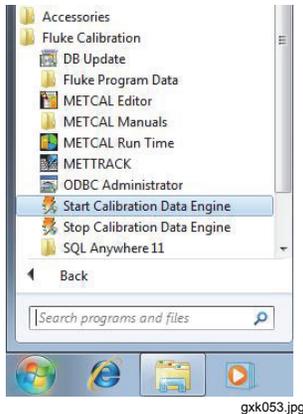
2. Click **Update** to begin the process.

Transactional information is listed in the text box below the **Update** button. Data transfer information is listed to the right of the folder selections at the top of the program. This information is provided as a progress indication. A prompt displays when the process is complete.

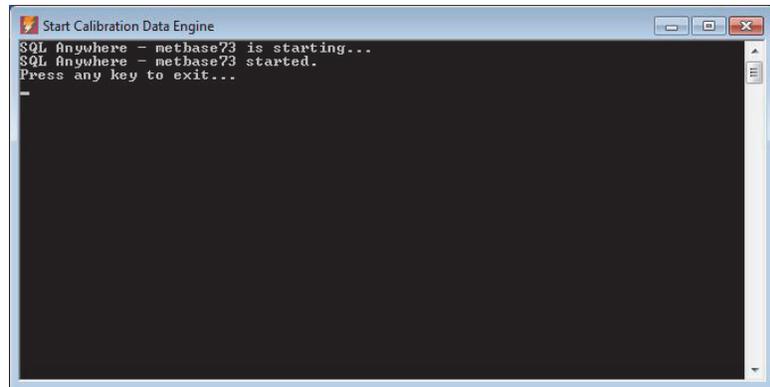
## Starting and Stopping the Database Engine

The MET/BASE installation installs the database engine service. After the installation is complete, the service automatically runs each time the PC is booted. The installation also provides shortcuts in the Fluke Calibration program group to start and stop the database.

When these shortcuts are used, a DOS window is displayed, indicating the status of the start/stop operation. Success or failure of the operation is displayed in the window. Press any key to close the DOS window.



gxxk053.jpg



gxxk054.jpg

### Note

*The active user must be logged into the PC as system administrator in order to start and stop the database. Windows 7 and Windows Vista have an additional security policy that requires that a user right-click the shortcut and specifically select “Run as Administrator” in order to complete the operation.*

The Sybase Central application also provides the ability to start and stop the database engine as well as create and edit database services when more than one database is in use. The MET/BASE installation creates a shortcut to common Sybase tools in the *SQL Anywhere 11* shortcut link in the *Fluke Calibration* program group.

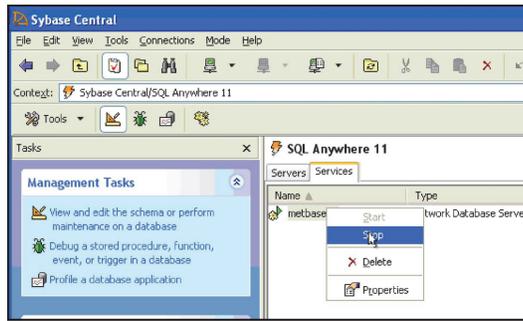
To start or stop the database engine:

1. Launch Sybase Central.
2. Double click the **SQL Anywhere 11** plug-in.
3. Right-click the icon and choose **Run as Administrator** when using a Windows Vista or Windows 7 operating system.

A second dialog is displayed, including a Servers and a Services tab.

4. On the Services tab, right-click the **metbase** server (or the server named during the MET/BASE installation).

- Choose **Start** or **Stop** to enable or disable the Sybase 11 engine.



gxx055.jpg

- Use the **Services** tab to create multiple services when multiple databases are active.
- Refer to the Sybase Central Help menu for more information on creating multiple database servers.

## Licenses

Licenses are required for the MET/CAL and MET/TRACK software to operate. You can access applications only after the corresponding licenses are applied. The client software can be installed on an unlimited number of workstations. The database will track how many applications are started at any given time with a limit that depends on the number of applied licenses.

To apply a license:

- Check that the Calibration Data Engine is running.
- Use the Fluke Calibration program group in the Windows Start menu to access shortcuts to start and stop the Calibration Data Engine.
- Launch the MET/TRACK application and log on with the administrative password (default User ID: mt, Password: mt).
- Select **Setup** from the menu bar.
- Select **Licenses** from the Setup dropdown menu.
- Select **Add License** from the Licenses dialog.
- Insert the license disk, choose the drive location of the license disk, and click **OK**.
- Remove the license disk.
- Repeat this process for each license disk.

## License Agreement

Components of Fluke Metrology Software use open sources libraries that fall under different license agreements. All such libraries and their corresponding license agreements are installed in the executable directories of MET/CAL, MET/TRACK and MET/BASE. See Table 1 on page 4.

The full license agreement for MET/CAL and MET/TRACK is presented during installation. Print the agreement or make a PDF to have a copy of the license. The license agreement is also included as a PDF in the root directory of the distribution media.

