

Fluke Calibration Software

MET/TEAM®
MET/CAL® Run Time
MET/CAL® Editor

Installation Guide

Table of Contents

Title	Page
Introduction.....	1
Safety Information	2
How to Contact Fluke Calibration	2
Before You Call Technical Support.....	3
System Requirements	3
Hardware Requirements	4
File Locations	5
Legacy Applications	6
Fluke Calibration Software Conversions	6
Installation and Licensing.....	7
New MET/TEAM Server Installations and Updates.....	9
New MET/TEAM Client Installations and Updates.....	10
New MET/CAL Workstation Installations and Updates.....	10
Stand-Alone Installations and Updates.....	11
Fluke MET/TEAM Server Installer.....	11
Installer Prerequisites	12
Installation Process.....	12
Prerequisite Installation.....	13
Setup Wizard.....	14
Fluke MET/TEAM Server Update Installer	20
Installer Prerequisites	21
Installation Process.....	21
Prerequisite Installation.....	22
Setup Wizard.....	22
Fluke MET/TEAM Mobile Prerequisites Installer	27
Prerequisites	27
Installation Process.....	28
Fluke MET/TEAM Customer Portal Installer	29
Installer Prerequisites	30
Installation Process.....	30
Installing MET/TEAM Customer Portal on a Non-Domain Machine	34
Configuring SQL Server for Access from a Non-Domain Machine	34
Configuring MET/TEAM Customer Portal on a Non-Domain Machine	36
Fluke MET/CAL Client Installer.....	37

Installer Prerequisites	37
Installation Packages and Prerequisites	37
Installation Process	38
MET/CAL Run Time Installation.....	41
MET/CAL Editor Installation.....	43
Microsoft SQL Server 2008 R2 Express Installer	44
Prerequisites	45
Installation Process	45
Configuring SQL Server to Allow Remote Connections.....	48
Configuring MET/TEAM Server for MET/TEAM Mobile.....	50
Configuring Application Pool Recycling Settings.....	52
Set Up a Secure MET/TEAM Website Using SSL.....	52
Licenses	54
License Agreements.....	56

Introduction

Fluke Calibration Software is a software distribution that bundles three software products:

- MET/TEAM®
- MET/CAL® Run Time
- MET/CAL® Editor (Procedure Editor)

MET/TEAM is a browser-based application that requires no client installation. It provides the following basic features:

- Multitasking windows
- Compatibility with MET/CAL Run Time and MET/CAL Editor
- Supports Crystal Reports
- Flexible, custom UI
- Group-based permissions

This guide describes how to install and upgrade different software packages included with MET/TEAM. For installations of MET/TEAM only, you can ignore all references to MET/CAL.

Safety Information

Instrument calibration can require the calibration system to generate or measure dangerous voltages. 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
- techsupport@flukecal.com

To see product information and download the latest manual supplements, visit Fluke Calibration's website at www.flukecal.com.

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

To join the user community of Fluke Calibration software, visit <http://community.flukecal.com/>.

Before You Call Technical Support

Sometimes you can find the answer by yourself, so before you call for support:

- Check the manual
- Check the online help

If you find it necessary to call for support, 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 for the problem to reappear
- Version of *Crystal Reports*

System Requirements

For the system to operate properly, some required frameworks and other software packages must be installed on the server and some client computers. These prerequisite packages are detailed in the sections that follow. The Fluke Calibration Software download and media include all the necessary prerequisite software packages. Individual installation files that you download from the web do not contain the prerequisite software packages. To install correct prerequisite software packages, you must always use the full installer for new installations and major upgrades.

Note

Always run Windows Update after the installation process is complete. This action updates your system with the latest security patches.

The MET/TEAM Server, MET/TEAM Customer Portal, and MET/TEAM Mobile software only run on the following platforms:

- 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)

Note

Attempts to install and run MET/TEAM Server on other operating systems including "Home" editions of Windows are not supported.

The MET/TEAM Server database can be hosted by a 64-bit version of Microsoft SQL Server 2008 R2 (or later) database server. For an updated list of SQL Server versions that MET/TEAM has been tested with, visit our web site. The distribution media includes multiple versions of the free Express edition of SQL Server in English. The Express edition is usually sufficient for stand alone or small networked databases. For larger databases, it is recommended that you use a full version of SQL Server. MET/TEAM does not support 32-bit versions of SQL Server. The MET/TEAM Server installation configures the MET/TEAM website to be hosted by Microsoft Internet Information Services (IIS) 7.5 or later.

The MET/TEAM website can be accessed from any computer that is running a compatible web browser. MET/TEAM is compatible with all modern web browsers that support HTML5 such as Microsoft Internet Explorer and Google Chrome.

The MET/CAL Run Time and MET/CAL Editor client software run on these platforms:

- 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)

Note

Prior versions of Windows are no longer supported.

Hardware Requirements

The minimum recommended PC requirements are:

MET/TEAM Server

- 2.0 GHz quad core processor or equivalent
- 16 GB of RAM
- 20 GB of available hard drive space

MET/TEAM Customer Portal Stand-alone Server

- 2.0 GHz quad core processor or equivalent
- 8 GB of RAM
- 2 GB of available hard drive space

MET/TEAM Client

- 1.0 GHz Pentium 4 processor or equivalent
- 2 GB of RAM

MET/CAL Client

- 2.0 GHz Pentium 4 processor or equivalent
- 4 GB of RAM
- 6 GB of available hard drive space

The optional General Purpose Interface Bus (GPIB) connects a PC to a programmable instrument. Before installation, make sure that the optional GPIB (IEEE 488) Interface is installed. Fluke Calibration 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, visit the National Instruments website: <http://www.ni.com/pxi/>.

File Locations

Table 1 gives the default location for files that are distributed with Fluke Calibration Software. Custom installations can differ.

Note

*During installation, all paths can be customized except for the path to the **metcal.ini** file.*

Table 1. File Locations

MET/TEAM Files	
MET/TEAM Website	%IIS_Root_Folder%\METTEAM
MET/TEAM Customer Portal Website	%IIS_Root_Folder%\CustomerPortal
Installers	%ProgramFiles%\Fluke\METTEAM\Installers
Database	<determined by Microsoft SQL Server>
MET/TEAM Email Alert Engine Files	%ProgramFiles%\Fluke\METTEAM Email Alert Engine
Database Update Scripts	%ProgramFiles%\Fluke\METTEAM Database Scripts
MET/TEAM Mobile Check-In/Check-Out Files	%ProgramData%\Fluke\METCAL\shared\Mobile
MET/TEAM Import Files	%ProgramData%\Fluke\METCAL\shared\Import\Files
MET/TEAM Import Data	%ProgramData%\Fluke\METCAL\shared\Import\Data
MET/CAL Shared Files (located on server computer)^[1]	
Root Folder	%ProgramData%\Fluke\METCAL\shared
Reports	%ProgramData%\Fluke\METCAL\shared\reports
Accuracy Files	%ProgramData%\Fluke\METCAL\shared\acc
Procedures	%ProgramData%\Fluke\METCAL\shared\proc
Pictures	%ProgramData%\Fluke\METCAL\shared\pic
Prompt Files	%ProgramData%\Fluke\METCAL\shared\PromptFiles
User Programs	%ProgramData%\Fluke\METCAL\shared\UserPrograms
Client Installer	%ProgramFiles%\Fluke\METTEAM\Installers
MET/CAL Files (located on client computer)^[2]	
FSC Help	%ProgramData%\Fluke\Help
Executables and DLLs	%ProgramFiles%\Fluke\METCAL and %ProgramFiles%\Fluke\METCAL Editor
Manuals	%ProgramData%\Fluke\Help
DATs	%ProgramData%\Fluke
metcal.ini ^[3]	%ProgramData%\Fluke
[1] Shared files are installed by MET/TEAM Server and can be accessed from client computers by mapping \\<servername>\metcal (where <servername> is the name of the server where the files are installed) to a local drive letter [2] Files installed by MET/CAL Run Time and MET/CAL Editor [3] To access the metcal.ini file, use the shortcut to the %ProgramData% folder installed with the MET/CAL client software %IIS_Root_Folder% typically resolves to C:\inetpub\wwwroot. %ProgramFiles% typically resolves to C:\Program Files (x86) on 64-bit Windows platforms and C:\Program Files on 32-bit Windows platforms. %ProgramData% typically resolves to C:\ProgramData	

Legacy Applications

Many applications that support Fluke Calibration Software directly refer to the **metcal.ini** file in the Windows directory. These applications should be modified to use the path in Table 1. Then, they can function with MET/CAL Run Time and MET/CAL Editor version 8.0 and later.

In the interim, you can maintain a copy of the **metcal.ini** file in the Windows directory to allow these applications to work. In this case, the information in the ini file that located in the Windows directory does not update with operations within MET/CAL. After you make a related edit, you need to copy the file from the MET/CAL maintained location to the Windows directory. The Fluke Calibration program group gives a shortcut to the %ProgramData% folder.

Fluke Calibration Software Conversions

Before new Fluke Calibration Software installations or conversions, archive all procedures, accuracy files, correction files, and other support files.

After a conversion, some files and menus created by a previous installation are not deleted. For example, when you convert from Fluke Metrology Software, Sybase will remain intact on the server computer, and some other application files will remain intact on client computers. Directories specific to MET/CAL Run Time and MET/CAL Editor can also be left intact. You can delete these directories only after all references to them are removed from the **metcal.ini** configuration file.

You cannot directly convert all previous versions of MET/BASE systems to MET/TEAM. Table 2 summarizes the version upgrade requirements and restrictions.

After the conversion to a MET/TEAM system from a MET/BASE system, you must migrate the data from the MET/BASE Sybase database to the MET/TEAM SQL Server database. A migration utility is available for this task. Contact softwaresupport@flukecal.com for additional details.

Table 2. MET/BASE Conversions

MET/BASE Version	Conversion Process
8.x	Direct conversion to the current release of MET/TEAM including MET/CAL v8.x. No special requirements.
7.3 SP1 Build 38	
7.3 SP1 Build 37	
7.3 SP1	
7.3	Direct conversion supported in current release of MET/TEAM including MET/CAL v8.x. Must run DBUpdate to update the database to v7.3 SP1 before migrating data to MET/TEAM. Existing folders and files specific to the current version are not automatically removed by the installation. Custom application shortcuts must be removed manually. After installation, the Sybase database service must be manually disabled to prevent it from launching when the server PC is rebooted. Refer to “Starting and Stopping the Database Engine” in the <i>Fluke Metrology Software Installation Guide</i> for more information. MET/BASE and MET/TRACK need to be uninstalled manually. Once the database has been migrated into MET/TEAM, Sybase can be uninstalled.
7.2 SP3	
7.2 SP1	
7.2	
7.1.1 SP1	An upgrade to MET/BASE version 7.3 SP1 is required first. Follow the upgrade steps for the selected upgrade version. Then run the MET/TEAM installation.
7.1	
7.0.1	An upgrade to MET/BASE version 7.3 SP1 is required first. Follow the upgrade steps for the selected upgrade version. Then run the MET/TEAM installation.
7.0	
6.1.1A	Not supported.
6.1.1 and less	

Installation and Licensing

Fluke Calibration Software allows stand-alone and client/server (networked) installations. In a stand-alone setup, the MET/TEAM Server, MET/CAL Run Time, and MET/CAL Editor are installed on the same PC. In a client/server setup, MET/TEAM Server is installed on a server PC, whereas the MET/CAL Run Time and MET/CAL Editor are installed on individual client PCs. Floating licenses for the clients are stored in MET/TEAM.

The MET/TEAM Server installer included on the distribution media is used to install the MET/TEAM websites, including the MET/TEAM and Customer Portal websites. The database for MET/TEAM needs to be hosted by an instance of SQL Server. Multiple versions of the free Express edition of SQL Server are included on the distribution media and can be installed on the same machine as MET/TEAM, or use an existing instance of SQL Server on your network. SQL Server must be installed prior to starting the MET/TEAM Server installation.

This MET/TEAM installer also copies the following installers to a shared folder on the server computer:

- MET/TEAM Mobile Prerequisites installer - This installer must be run on any computer expected to be used with the Mobile feature of MET/TEAM.
- MET/TEAM Customer Portal installer - This installer can be used to setup a Customer Portal website on a separate machine from the MET/TEAM website, such as a machine in a DMZ.
- MET/CAL Client Installer, including MET/CAL Run Time and MET/CAL Editor - This installer must be run on any machine that is used to develop or execute MET/CAL procedures on a MET/TEAM system.

When you need to use these installers, they can be accessed from client computers over the network. Refer to the installer sections for more details.

Figure 1 shows the flowcharts of MET/TEAM and MET/CAL installation in a client/server setup and stand-alone setup.

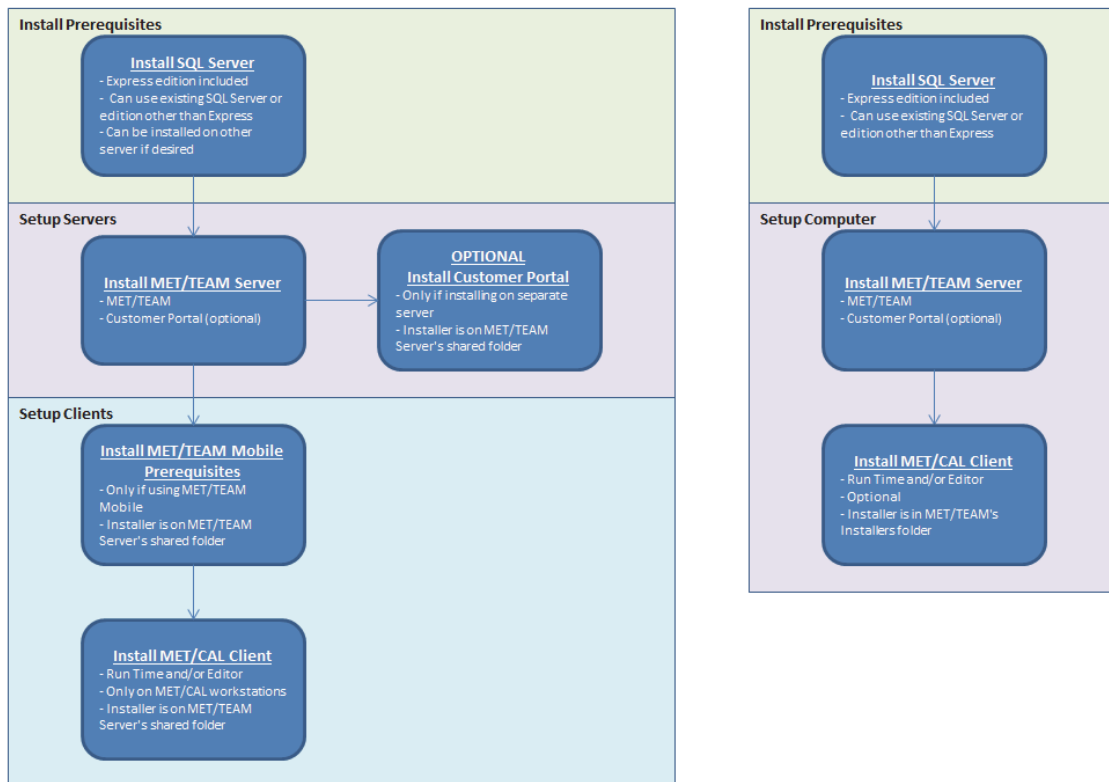


Figure 1. Installation Flowcharts

InstallBlockDiagram.png

New MET/TEAM Server Installations and Updates

To set up a new system, or when converting from a MET/BASE system, follow the steps outlined in the *Fluke MET/TEAM Server Installer* section.

To update an existing installation of MET/TEAM, follow the steps outlined in the *Fluke MET/TEAM Server Update Installer* section.

MET/TEAM requires a connection to an instance of Microsoft SQL Server, either on the server where MET/TEAM is being installed, or on another server on the network. The free Express edition of Microsoft SQL Server is included on the distribution media. However, you can either use an existing installation of SQL Server or install a different edition of SQL Server. If you choose the latter, SQL Server must be installed and accessible prior to the MET/TEAM Server installation process.

- For a new server installation, select the **Server Installation** option on the Configuration Options dialog.
- To use all default settings, select the **Typical Install using Default Settings** option on the Setup Type dialog.
- For a customized installation, select the **Choose Features and Customize Settings** option on the Setup Type dialog. Subsequent dialogs will prompt for custom settings.

If you are converting your system from MET/BASE, the MET/BASE database needs to be migrated to MET/TEAM. A migration utility is available for this task. Contact softwaresupport@flukecal.com for additional details. If you are updating an existing MET/TEAM system, the update installer can run all necessary database update scripts. If you choose otherwise, be sure to use Microsoft SQL Server Management Studio to run all required database update scripts before you log on to the MET/TEAM website following the update.

Once the MET/TEAM Server is successfully installed, you may run MET/TEAM by double-clicking the shortcut created on the desktop and log on using this built-in administrator account:

- User name: admin
- Password: admin

Fluke Calibration highly recommends that you change the password on this built-in administrator account immediately and create individual user accounts for all users of the system. After you have logged on, you need to request and apply your licenses. Refer to the “Licenses” section for details. Updating from some versions of MET/TEAM will also require re-requesting existing licenses. You will need to have your Gold number or your original master code/product codes when you perform the update. The installer shows a message prior to the update process when this is the case. To install the MET/CAL client applications on workstation computers, you can connect to the server’s MET/TEAM shared folder and run the MET/CAL client application installer.

New MET/TEAM Client Installations and Updates

Because the MET/TEAM application is browser-based, no client installation is required. You can make a shortcut to the website or add the MET/TEAM website to your Favorites folder in your web browser on each client computer.

If you have purchased and plan to use the MET/TEAM Mobile feature, you must run the MET/TEAM Mobile Prerequisites installer on each mobile computer. This installer is copied to the server computer in the MET/TEAM shared folder during MET/TEAM Server installation. Refer to the “Fluke MET/TEAM Mobile Prerequisite Installer” section for details. When updating from a previous version of MET/TEAM, be sure to run the latest MET/TEAM Mobile Prerequisites Installer on each mobile computer to be sure all the prerequisites are up to date.

If you have purchased and plan to use the MET/TEAM Customer Portal feature, and the Customer Portal website needs to be hosted on a different server than the MET/TEAM website, you must run the MET/TEAM Customer Portal installer on the other server computer. The MET/TEAM Customer Portal installer is copied to the server computer in the MET/TEAM shared folder during MET/TEAM Server installation. Refer to the “Fluke MET/TEAM Customer Portal Installer” section for details. When updating a MET/TEAM Customer Portal system hosted on a different server, be sure to back up the web.config file and note any special application pool and website settings in IIS as well as any special file/folder permissions before starting the update process. These settings will need to be re-applied after the update.

New MET/CAL Workstation Installations and Updates

To do a new MET/CAL client workstation installation or an update, follow the steps outlined in the “Fluke MET/CAL Client Installer” section.

Before you install the software on a new workstation, make sure the server has been properly set up and the MET/CAL shared folder has been mapped to a drive letter on the workstation computer.

Using MET/CAL with MET/TEAM requires PDF viewer software to be installed on the workstation in order to view reports. Any standard PDF file viewer should work, such as Adobe Reader which is included on the MET/TEAM distribution media. For updates, the MET/CAL Client installer will launch the appropriate feature installers based on the features that are currently installed on the computer.

Stand-Alone Installations and Updates

To set up a new stand-alone system, follow the steps outlined in the *Fluke MET/TEAM Server Installer* section.

To update an existing stand-alone installation of MET/TEAM, follow the steps outlined in the *Fluke MET/TEAM Server Update Installer* section.

MET/TEAM requires a connection to an instance of Microsoft SQL Server, either on the computer where MET/TEAM is being installed or on another computer on the network. The free Express edition of Microsoft SQL Server is included on the distribution media. However, you can either use an existing installation of SQL Server or install a different edition of SQL Server. If you choose the latter, SQL Server must be installed and accessible prior to MET/TEAM Server installation.

- For new stand-alone installations, select the **Stand-alone Installation** option on the Configuration Options dialog.
- To use all default settings, select the **Typical Install using Default Settings** option on the Setup Type dialog.
- For a customized installation, select the **Choose Features and Customize Settings** option on the Setup Type dialog. Subsequent dialogs will prompt for custom settings.

Fluke MET/TEAM Server Installer

The Fluke MET/TEAM Server installer is launched from the AutoRun program. Typically, this program opens automatically when you insert the MET/TEAM distribution media into the host PC.

This installer is only used to perform new MET/TEAM system installations in a server/client or stand-alone configuration. It will install most prerequisites automatically.

To update an existing installation of MET/TEAM, follow the steps outlined in the "Fluke MET/TEAM Server Update Installer" section.

Installer Prerequisites

For the MET/TEAM Server installer to complete successfully, some prerequisites must be installed. The installer automatically installs most of these prerequisites as necessary. The prerequisites include (but are not limited to):

- Microsoft .NET Framework
- Microsoft SQL Server Express (included on distribution media)
- Microsoft SQL Server 2008 R2 Shared Management Objects
- Microsoft SQL Server System CLR Types
- Microsoft SQL Server 2008 R2 Native Client
- SAP Crystal Reports Runtime
- Microsoft ASP.NET MVC Tools
- Microsoft Windows Process Activation Service (WAS)
- Microsoft Internet Information Services (IIS)

Note

The installation of Microsoft SQL Server Express is optional and can be skipped if you already have an instance of SQL Server available. SQL Server must be version 2008 R2 or later.

When you uninstall the software, none of the prerequisites will be uninstalled automatically. To uninstall prerequisites, use the Windows® Control Panel Add or Remove Programs or Programs and Features option.

Always reboot the computer when prompted to ensure the successful installation of all prerequisites.

Installation Process

Note

*If you download MET/TEAM Server installer and plan to run the installation from a local hard drive, you must keep the path to the root folder of the installer files to a minimal length. For example, use **C:\Temp** or **C:\Temp\metteam**. Attempting to run the installation from a folder that has a long path can result in “Error 1308 - Source file not found” errors and fail to install all files properly.*

Prerequisite Installation

To install from the distribution media:

1. Make sure that the minimum PC requirements are met. See the “System Requirements” section.

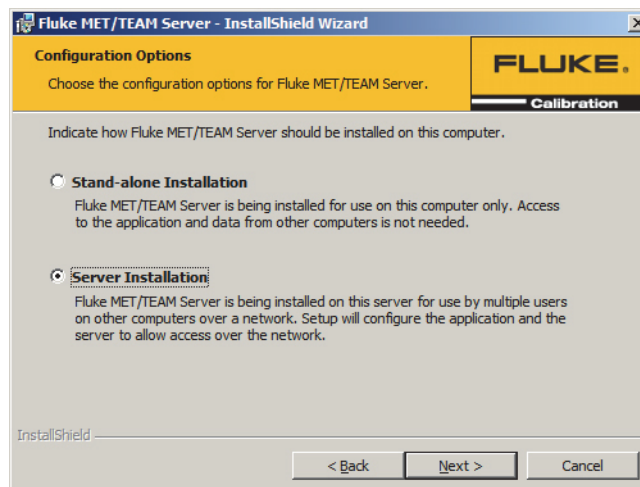
Note

The active user must log into the PC as system administrator in order to complete the installation process. Make sure that you have access to a login for SQL Server that has sysadmin rights.

2. 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.
3. If you already have an instance of SQL Server installed, skip to the next step. Otherwise, click the **Install SQL Server Express** item in the **Install Software** column on the right. Navigate to the folder for the version of SQL Server Express you want to install and launch the installer. Follow the instructions given in the "Microsoft SQL Server 2008 R2 Express Installer" section to complete the installation.
4. Click the **Fluke MET/TEAM Server** item in the Install Software column on the right to launch the installer.

The language selection dialog is shown.

5. Select the language to use for the installation and click **OK**.
6. If any prerequisites need to be installed, click **Install** to install the prerequisites.



gxl030.jpg

Note

- *Always reboot the computer when prompted to ensure the successful installation of all prerequisites.*
- *If a reboot is required when installing on a Windows 8/8.1 computer, you must navigate to the Desktop after the reboot for the installation process to resume.*
- *The Microsoft WAS and IIS prerequisite always appears even if WAS and IIS are already configured on the computer. This ensures that all of the necessary modules are installed.*
- *The installation of all prerequisites can take a significant amount of time, especially Microsoft .NET Framework.*

Setup Wizard

If a previous version of MET/TEAM Server is found on the machine, a prompt is shown that indicates that the MET/TEAM Server Update Installer must be run instead of this installer and the installation process is aborted. Follow the steps outlined in the "Fluke MET/TEAM Server Update Installer" section.

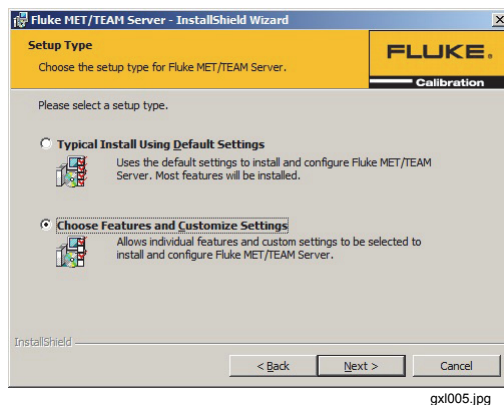
The Welcome dialog is shown.

To install:

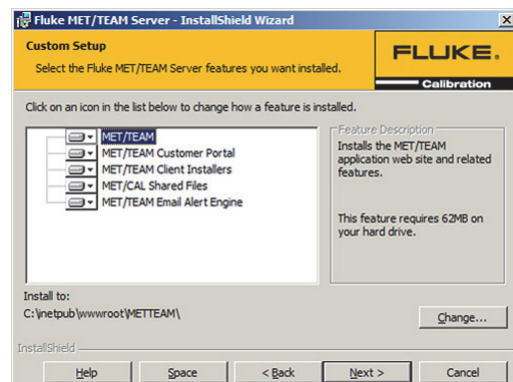
1. Click **Next >**.
2. The License Agreement dialog is shown. Check the **I accept...** option.
3. Click **Next >**. The Configuration Options dialog is shown.
4. Select an option and click **Next >**.
 - a. If you plan to install MET/TEAM for use on this computer only, select **Stand-alone Installation**.
 - b. Otherwise, select **Server Installation**.

The Setup Type dialog is shown.

5. Select an option for installing features on this computer, and click **Next >**.



gx1005.jpg

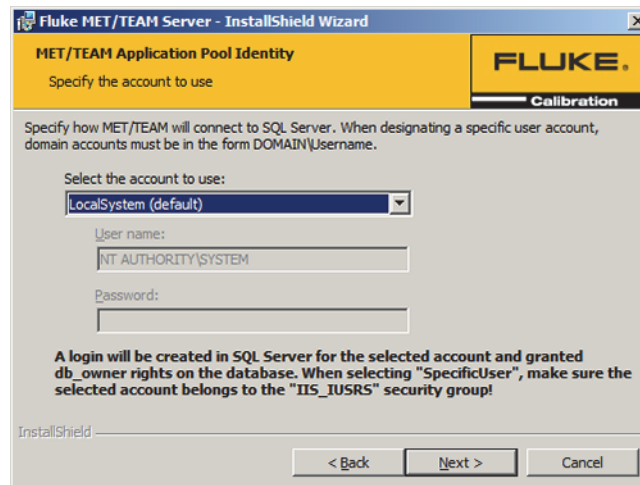


gx1005.jpg

The installer provides two options:

- **Typical Install using Default Settings:** installs typical features that use the default settings. Select this option for the simplest installation process.
 - **Choose Features and Customize Settings:** allows you to select individual features for installation and to select installation paths and other customizable settings. Select this option when you have specific requirements such as for file locations.
6. If the **Choose Features and Customize Settings** option was selected, the following customization dialogs are displayed:
- a. Custom Setup dialog: Select the features that you want to install on this computer.
The features include:
 - **MET/TEAM** – This is the main MET/TEAM website. This feature is always installed and cannot be disabled. You can select this feature and click **Change** to change the location of the website files.
 - **MET/TEAM Customer Portal** – This is the Customer Portal website that should be configured to be accessed by customers. As an option, the Customer Portal website can be hosted on a separate server to improve security for external access. If you choose to do this, you should click the drop-down to the left of the feature name and select "This feature will not be available". An installer for setting up a stand-alone Customer Portal server will be deployed and can be used to setup the Customer Portal server. You can choose to install this website on this server by enabling this feature. You can select this feature and click **Change** to change the location of the website files.
 - **MET/CAL Shared Files** – This feature includes all shared accuracy, correction, report, and sample procedure files for MET/CAL. This feature is always installed and cannot be disabled. You must install this feature to successfully install MET/CAL client applications on workstation computers later. You can select this feature and click **Change** to change the location of the shared files.

- **MET/TEAM Client Installers** – This feature includes the MET/TEAM Mobile Prerequisites, MET/TEAM Customer Portal, and MET/CAL Client installers. It is useful when you set up mobile clients or install the Customer Portal website on a different server. This feature also includes the MET/CAL Client installer to install MET/CAL Run Time and MET/CAL Editor on workstation computers. This feature is always installed and cannot be disabled. You can select this feature and click **Change** to change the location of the installer files.
 - **MET/TEAM Email Alert Engine** - This feature includes the executable file that processes and sends email alerts. This executable is setup to run as a service on the machine. This feature is always installed and cannot be disabled. You can select this feature and click **Change** to change the location of the executable file.
- b. MET/TEAM Application Pool Identity dialog: allows you to specify the account that the MET/TEAM application pool in Internet Information Services will use. This is the account that will be used by MET/TEAM to connect to SQL Server. Select the account to use, and optionally enter the user name and password in the boxes provided. Click **Next >**.



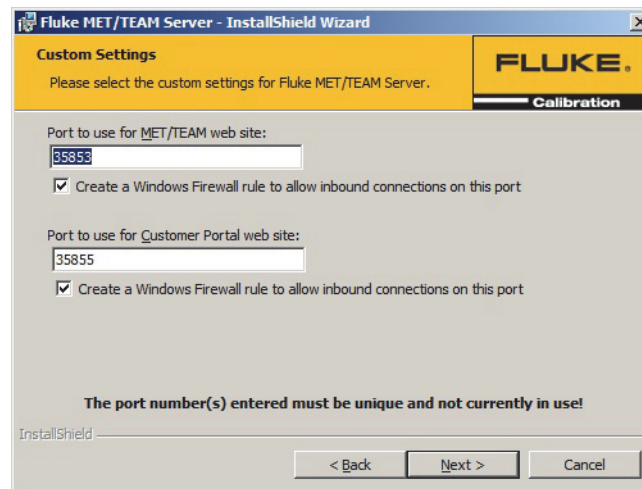
gxi032.png

The options are:

- **LocalSystem** – This is the default option. Selecting this option requires the built-in account NT AUTHORITY\SYSTEM (if SQL Server is on the same machine) or the machine account [DOMAIN]\[MACHINE_NAME]\$ (if SQL Server is on another machine) to be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database.
- **LocalService** – Selecting this option requires that the built-in account NT AUTHORITY\LOCAL SERVICE (if SQL Server is on the same machine) or the built-in account NT AUTHORITY\ANONYMOUS (if SQL Server is on another machine) to be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database.
- **NetworkService** – Selecting this option requires that the built-in account NT AUTHORITY\Network Service (if SQL Server is on the same machine) or the machine account [DOMAIN]\[MACHINE_NAME]\$ (if SQL Server is on another machine) to be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database.
- **ApplicationPoolIdentity** – Selecting this option requires that the built-in account IIS APPPOOL\[APP_POOL_NAME] (if SQL Server is on the same machine) or the built-in account NT AUTHORITY\ANONYMOUS (if SQL Server is on another machine) to be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database.
- **SpecificUser** – Selecting this option requires domain account credentials to be entered on the dialog. This domain account must be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database regardless of whether SQL Server is on the same machine or on another machine. When selecting this option, be sure to add the domain account to the built-in IIS_IUSRS security group.

Regardless of the selected option, the installer automatically creates the login in SQL Server and configures it as a db_owner for the MET/TEAM database.

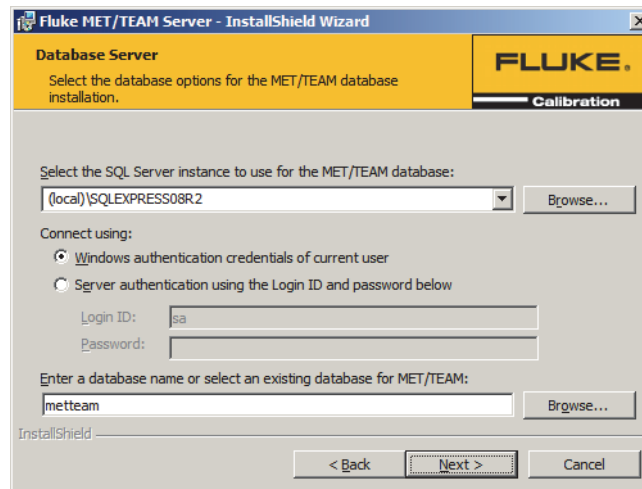
- c. Customer Portal Application Pool Identity dialog: lets you specify the account that the Customer Portal application pool in Internet Information Services uses. This account is used by Customer Portal to connect to SQL Server. This dialog only shows if Customer Portal is being installed. Select the account to use, and enter the user name and password in the boxes provided (optional). Click **Next>**. See the previous item for details of the options available.
- d. Custom Settings dialog: lets you enter the port of each individual website based on the feature selections. For server installations, you can also choose whether rules are created for the Windows firewall to allow access to the selected ports. Click **Next >**.



gx1007.jpg

- e. MET/TEAM Client Installers Share Name dialog: lets you enter the name of the network share for the MET/TEAM client installers. The default name for this network share is **metteam**. Click **Next >**.
 - f. MET/CAL Share Name dialog lets you enter the name of the network share for the MET/CAL shared files. The default name for this network share is **metcal**. Click **Next >**.
- The Database Server dialog is shown.

7. Enter or click the **Browse...** button to select the SQL Server instance where the MET/TEAM database is located or should be created and choose the authentication method to connect to SQL Server.



qx1033.png

- **Windows authentication credentials of current user** – Select this option to use the credentials of the domain user account that was used to launch the installer (typically the user account that is logged into Windows). This is the default option. Selecting this option requires the user account to have sysadmin rights in SQL Server.
- **Server authentication using the Login ID and password below** – Select this option to enter SQL Server credentials to use. Selecting this option requires credentials that have sysadmin rights in SQL Server to be entered.

8. Enter the name to use for the database, and click **Next >**.

Note

If you change the default database name, do not use the dash “-” character in the database name.

The Ready to Install the Program dialog is shown.

9. Click **Install** to start the installation. The installer installs the files for each selected feature. An installation progress dialog is shown during the installation. When the installation is complete, the Setup Complete dialog is shown.

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

Shortcuts are created on the desktop for you to access the websites of the installed application on the local computer.

If you chose the Server Installation option, and if the options to create rules in the Windows firewall (to allow access to the websites from other computers) were checked, you can access the MET/TEAM application websites from other computers on your network by typing the following address in your web browser:

http://<servername>:<port>/

<servername> is the name of the server computer where the MET/TEAM Server installation was done. **<port>** is the port number typed on the MET/TEAM Server Custom Settings dialog for the website you want to access. For example, if the computer where MET/TEAM Server was installed is named **SERVER01** and the MET/TEAM website was installed using the default port **35853**, you can access the MET/TEAM website from any computer on your network by typing the following address in your web browser:

http://SERVER01:35853/

Fluke MET/TEAM Server Update Installer

The Fluke MET/TEAM Server Update installer is launched from the AutoRun program. Typically, this program opens automatically when you insert the MET/TEAM distribution media into the host PC.

Updating a MET/TEAM system may require multiple steps, including possibly re-requesting licenses, depending on the changes that were made to the latest version of MET/TEAM. For the specific details of updating to the latest version of MET/TEAM, refer to the ReadMe file for that version. ReadMe files can be found on the distribution media or in the root folder of the installer if it was downloaded.

This installer is only used to update existing MET/TEAM Server systems. It will preserve all customized website, application pool, and file system security settings that may have been applied after the original MET/TEAM Server installation. It will also preserve customized reports and shared files.

To setup a new MET/TEAM system, follow the steps outlined in the "Fluke MET/TEAM Server Installer" section.

Installer Prerequisites

The MET/TEAM Server Update installer ensures that all necessary prerequisites for the latest version of MET/TEAM are installed on the server.

Prior to updating an existing MET/TEAM system:

- Backup the MET/TEAM database.
- During the update process, you are asked if you want all database update scripts to be applied automatically, if applicable. If you select No, you will be required to manually apply all database update scripts in the proper order after the update using Microsoft SQL Server Management Studio.
- If you have customized the MET/TEAM database in any way, you must contact Technical Support for assistance as running the update scripts may leave your database in an unusable state.
- Updating MET/TEAM from a previous version may require you to re-request all of your licenses via email once the upgrade is complete. The update installer notifies you if that is the case prior to performing the update. You will need to have your original product codes, master code or gold number in order to re-request licenses.
- If MET/CAL Run Time and/or Editor is installed on any workstations, be sure to run the latest MET/CAL Client installer on all MET/CAL workstations to update them to the latest version.
- Make sure there are no MET/CAL workstations logged in before the update process is started.
- If you have installed Customer Portal on a separate server, be sure to run the Customer Portal installer on that server to update the Customer Portal website to the latest version.
- If MET/TEAM Mobile is used, be sure to run the MET/TEAM Mobile Prerequisites installer on each mobile workstation to ensure all prerequisites are up to date.
- Any MET/TEAM Mobile workstations MUST be checked in prior to the update process. Once MET/TEAM is updated to the latest version, mobile workstations that were checked out with a previous version of MET/TEAM will be unable to check in.

Installation Process

Note

If you download MET/TEAM Server Update installer and plan to run the installation from a local hard drive, you must keep the path to the root folder of the installer files to a minimal length. For example, use C:\Temp or C:\Temp\metteam. Attempting to run the installation from a folder that has a long path can result in "Error 1308 - Source file not found" errors and fail to install all files properly.

Prerequisite Installation

To install from the distribution media:

Note

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

1. Insert the distribution media.
 - a. When AutoRun is enabled on the host PC, the AutoRun splash screen launches.
 - 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.
2. Click the Fluke MET/TEAM Server Update item in the Install Software column on the right to launch the update installer. The language selection dialog is shown.
3. Select the language to use for the installation and click **OK**.
4. If any prerequisites need to be installed, click **Install** to install the prerequisites.

Setup Wizard

Note

Be sure to carefully read any messages shown at the start of the installation process before the update process is continued. Once the update installer is finished, additional tasks may be necessary before MET/TEAM can be used.

The Welcome dialog is shown.

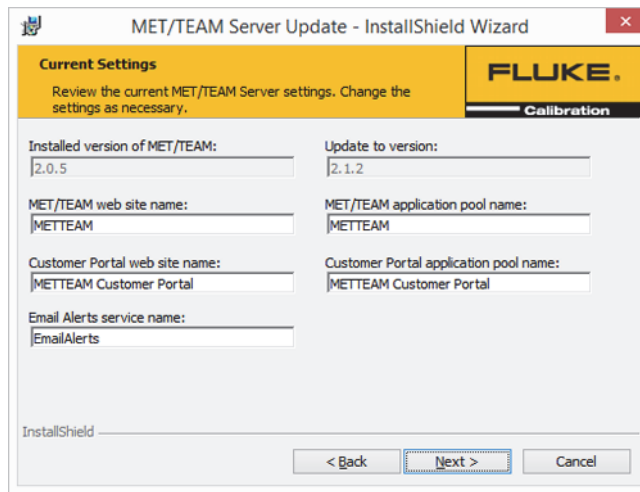
To install:

1. Click **Next** to proceed.
2. The License Agreement dialog is shown. Check the **I accept...** option.
3. Click **Next**.
4. The Update Type dialog is shown. Select the update type that most closely matches your system and click **Next**.

The options are:

- **Use all default settings:** Select this option if MET/TEAM Server was originally installed with default settings. This option automatically applies all necessary database update scripts to the MET/TEAM database.
- **Use custom settings:** Select this option if the MET/TEAM Server installation was customized or if you manually moved files and folders deployed by the installer after the initial installation was complete. Select this option to choose custom settings for the update process.

5. If the **Use custom settings** option was selected, these dialogs are shown:
- Current Settings dialog: This dialog indicates the currently-installed version of MET/TEAM and the version that the update installer will deploy. The MET/TEAM and Customer Portal website names and application pool names are also indicated, as well the Email Alerts service name. These settings are automatically populated based on the original installation of MET/TEAM Server. If any of these settings were changed after the original installation, enter the new values. All settings will be validated when the **Next** button is clicked.



MET/TEAM Server Update - InstallShield Wizard

Current Settings
Review the current MET/TEAM Server settings. Change the settings as necessary.

FLUKE
Calibration

Installed version of MET/TEAM: 2.0.5

Update to version: 2.1.2

MET/TEAM web site name: METTEAM

MET/TEAM application pool name: METTEAM

Customer Portal web site name: METTEAM Customer Portal

Customer Portal application pool name: METTEAM Customer Portal

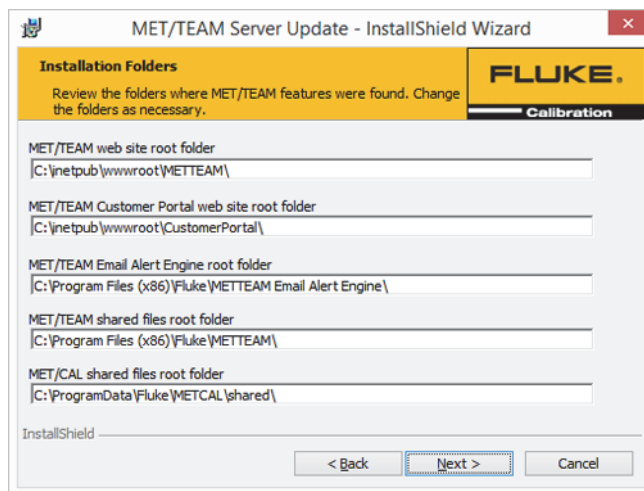
Email Alerts service name: EmailAlerts

InstallShield

< Back Next > Cancel

update-currentsettings.png

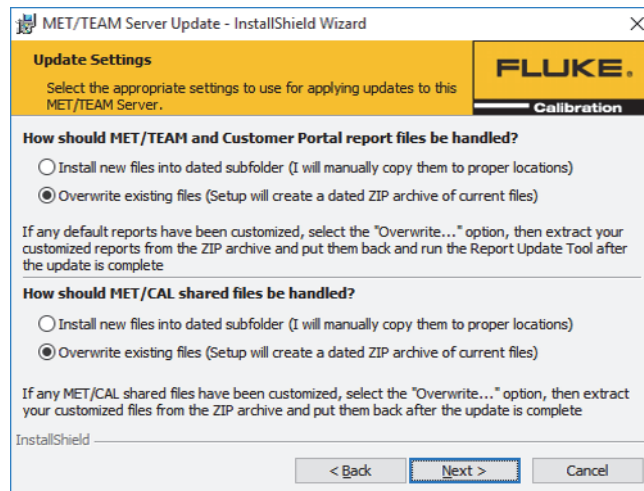
- b. Installation Folders dialog: This dialog indicates the folders where the MET/TEAM and Customer Portal website files, Email Alert Engine files, and MET/TEAM and MET/CAL shared files were installed. These settings are automatically populated based on the original installation of MET/TEAM Server. If any of these folders were relocated after the original installation, enter the new folders. All settings are validated when the **Next** button is clicked.



update-installationfolders.png

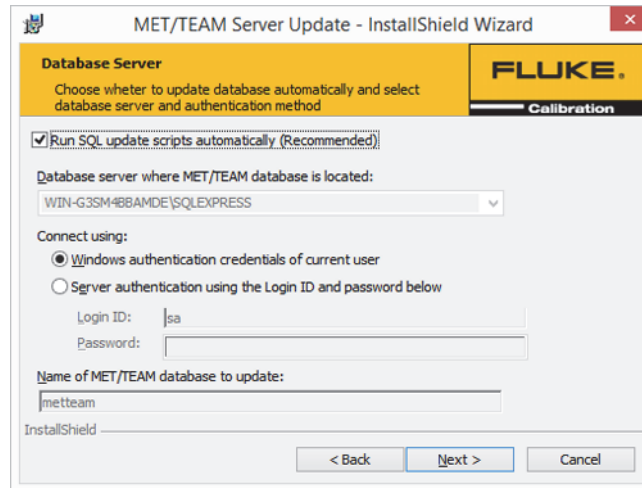
- c. Update Settings dialog: Use this dialog to determine how report files and MET/CAL shared files should be handled. Selecting the **Install new files into dated subfolder** option leaves existing files untouched and copies all new files into a subfolder that is named with today's date. Once the update process completes, you must manually copy the new files into the proper locations. Depending on the changes for this update, existing report files may not work until they have been updated. Changes made to updated MET/CAL shared files will also not be recognized until you manually copy the new files into the proper locations.

When the **Overwrite existing files** option is selected, the installer creates a ZIP archive of the current files, then copies the new files for this release into the proper locations. The ZIP archive is given the name "Archive_YYYY-MM-DD.zip" with today's date. Once the update is complete, you can restore any customized file that was overwritten with a new file by extracting it from the ZIP archive and copying it to the proper location.



update-updatesettings.png

6. Database Server dialog: Use this dialog to determine whether all necessary database update scripts should be applied to the database automatically. If the **Run SQL update scripts automatically (Recommended)** option is disabled, there are no update scripts included with this update. The database server and database name are populated automatically and cannot be changed. Select the authentication method to use to connect to SQL Server and enter appropriate credentials if necessary. If you uncheck the **Run SQL update scripts automatically (Recommended)** option, you will be required to run all necessary database update scripts manually using Microsoft SQL Server Management Studio when the update installation process is complete.



update-databaseserver.png

The Ready to Update the Program dialog is shown.

7. Click **Install** to start the update.
8. An installation progress dialog is shown during the installation. When the installation is complete, a log file is opened that shows the status of the update. Review the log file for potential failures and/or other information on additional steps that may need to be taken. The Setup Complete dialog is shown.
9. Click **Finish** to close the dialog.

Note

Although the MET/TEAM Server Update can be uninstalled using Programs and Features in Control Panel, the files that are deployed by the update are not removed from the system. The update cannot be reversed or removed.

Fluke MET/TEAM Mobile Prerequisites Installer

MET/TEAM Mobile is a feature that allows you to “check out” MET/TEAM to a mobile workstation and disconnect it from the network to do some work. Once the work is complete, you can connect the mobile workstation to the network again and “check in” the updates. To use this feature, you must first run the Fluke MET/TEAM Mobile Prerequisites Installer on the mobile workstation to configure it for mobile use. This installer was copied to the MET/TEAM Client Installers shared folder on the server where the MET/TEAM Server installation was done. For stand-alone installations, this installer was copied to the folder indicated in Table 1 for the Installers item of the MET/TEAM Files section.

Note

*When you install SQL Server on the MET/TEAM Mobile workstation computer, some settings need to be configured differently from the MET/TEAM Server installation of SQL Server. These settings are identified in the “Microsoft SQL Server 2008 R2 Express Installer” section. **Failure to configure these settings properly will prevent MET/TEAM Mobile from operating.***

Note

MET/TEAM Mobile requires the same version of SQL Server on the Mobile machine as on the server.

Before setting up any client computers for MET/TEAM Mobile, see the “Configuring MET/TEAM Server for MET/TEAM Mobile” section.

When updating to a later version of MET/TEAM, be sure to run the Fluke MET/TEAM Mobile Prerequisites installer on all Mobile workstations to ensure that all the prerequisites are up to date.

Prerequisites

The MET/TEAM Mobile feature requires the same prerequisites as the MET/TEAM Server installer. This installer will automatically install all of the prerequisites.

Note

- *Always reboot the computer when prompted to ensure the successful installation of all prerequisites.*
- *When you uninstall the software, none of the prerequisites will be uninstalled automatically. To uninstall prerequisites, use the Windows® Control Panel Add or Remove Programs or Programs and Features option.*

Installation Process

To install the Fluke MET/TEAM Mobile Prerequisites from the MET/TEAM server computer:

1. Make sure that the minimum PC requirements are met for a MET/TEAM client. Ensure there is plenty of hard drive space for the database. See the “System Requirements” section for more information.

Note

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

2. If you already have an instance of SQL Server installed on the Mobile workstation, skip to the next step. Otherwise, install SQL Server on the Mobile workstation. You **MUST** install the same version (for example, 2008 R2, 2012, 2014, etc.) of SQL Server on the Mobile workstation as you are using on the MET/TEAM server. Free Express editions of SQL Server in English can be found on the distribution media, or download SQL Server for other languages from the Microsoft web site. Follow the instructions given in the "Microsoft SQL Server 2008 R2 Express Installer" to complete the installation.

Note

When you install SQL Server on the MET/TEAM Mobile workstation computer, some settings need to be configured differently from the installation of SQL Server on the MET/TEAM Server. These settings are identified in the “Microsoft SQL Server 2008 R2 Express Installer” section.

Failure to configure these settings properly will prevent MET/TEAM Mobile from operating.

3. Run Windows Explorer on the mobile workstation. In the address bar, enter \\<servername>\<sharename> and push **ENTER**.

<servername> is the name of the server where MET/TEAM Server was installed, and <sharename> is the network share name entered on the **MET/TEAM Client Installers Share Name** dialog. The default name of this network share is **metteam**. For example, if the computer where MET/TEAM Server was installed is named **SERVER01** and the MET/TEAM network share name is **metteam**, type \\SERVER01\metteam into the Windows Explorer address bar and push **ENTER**.
4. In Windows Explorer, double-click the Mobile folder to navigate to the MET/TEAM Mobile Prerequisites installer files.
5. Double-click the **Setup.exe** file to launch the MET/TEAM Mobile Prerequisites installer.
The language selection dialog is shown.
6. Select the language to use for the installation and click **OK**.
The Welcome dialog is shown.
7. Click **Next >**.
The License Agreement dialog is shown.
8. Read the terms of the license agreement. If you accept these terms, select the **I accept...** option and click **Next >**.
The Ready to Install the Program dialog is shown.
9. Click **Install** to begin the installation process.

Note

- *The installer installs each of the prerequisites for MET/TEAM Mobile. **Always reboot the computer when prompted to ensure the successful installation of all prerequisites.** The installation should start up automatically after each reboot.*
- *If a reboot is required when installing on a Windows 8/8.1 computer, you must navigate to the Desktop after the reboot for the installation process to resume.*
- *The installation of all prerequisites can take a significant amount of time, especially Microsoft .NET Framework.*

An installation progress dialog will be displayed during the installation. When the installation is complete, the Setup Complete dialog is shown.

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

Fluke MET/TEAM Customer Portal Installer

The MET/TEAM Customer Portal is a feature that allows your customers to log into your system to view the status of their orders. This feature can be installed on the same server as the MET/TEAM website during the MET/TEAM Server installation. However, sometimes it is preferable to set up external-facing websites on a separate server.

Note

This installer will only install the MET/TEAM Customer Portal feature on a server that is part of the same domain as the MET/TEAM Server. If you need to install MET/TEAM Customer Portal on a non-domain machine (for example in a DMZ), follow the instructions in the Installing MET/TEAM Customer Portal on a Non-Domain Machine section below.

To install the MET/TEAM Customer Portal on a separate server on the same domain, you must first install the MET/TEAM Server and configure SQL Server to allow remote connections. Then you must run the Fluke MET/TEAM Customer Portal installer on the server to host the Customer Portal website. This installer was copied to the MET/TEAM Client Installers shared folder on the server where the MET/TEAM Server installation was run. For stand-alone installations, this installer was copied to the folder indicated in Table 1 for the Installers item of the MET/TEAM Files section. See the “Configuring SQL Server to Allow Remote Connections” section for details.

Installer Prerequisites

In order for the MET/TEAM Customer Portal installer to complete successfully, these prerequisites must first be installed:

- Microsoft SQL Server 2008 R2 Shared Management Objects
- Microsoft SQL Server System CLR Types
- Microsoft SQL Server 2008 R2 Native Client
- Microsoft .NET Framework
- SAP Crystal Reports Runtime
- Microsoft ASP.NET MVC Tools
- Microsoft Windows Process Activation Service (WAS)
- Microsoft Internet Information Services (IIS)

Note

The installer will automatically install these prerequisites.

- *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 Programs and Features option.*
- *Always reboot the computer when prompted to ensure the successful installation of all prerequisites.*

Installation Process

To install the Fluke MET/TEAM Customer Portal from the MET/TEAM server computer:

1. Make sure that the minimum PC requirements are met. See the “System Requirements” section for more information.

Note

The active user must log into the PC as system administrator in order to complete the installation process. Also, make sure that you have access to a login for SQL Server that has sysadmin rights.

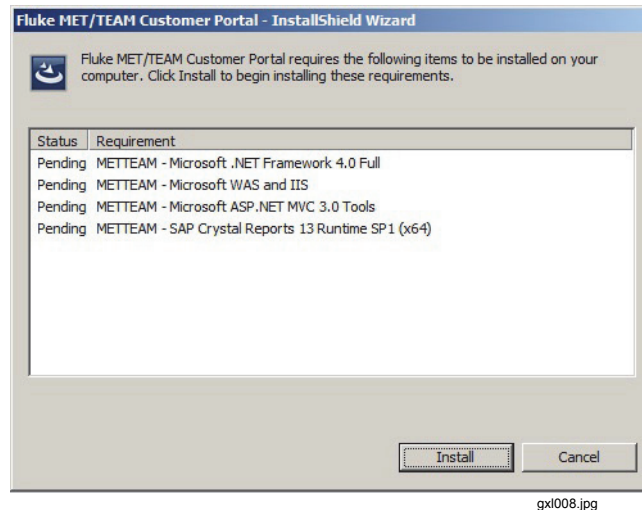
2. Run Windows Explorer on the server to host the Customer Portal website. In the address bar, type \\<servername>\<sharename> and push **ENTER**.

<servername> is the name of the server where MET/TEAM Server was installed, and <sharename> is the network share name entered on the MET/TEAM Client Installers Share Name dialog. The default name of this network share is **metteam**. For example, if the computer where MET/TEAM Server was installed is named **SERVER01** and the MET/TEAM network share name is **metteam**, enter **\\SERVER01\metteam** into the Windows Explorer address bar and push **ENTER**.
3. In Windows Explorer, double-click the **CustomerPortal** folder to navigate to the MET/TEAM Customer Portal installer files.
4. Double-click the **Setup.exe** file to launch the MET/TEAM Customer Portal installer.

The language selection dialog is shown.
5. Select the language to use for the installation and click **OK**.

The prerequisite installation dialog is shown.

6. Click **Install** to install all of the prerequisites.



gxi008.jpg

Note

- *Always reboot the computer when prompted to ensure the successful installation of all prerequisites.*
- *If a reboot is required when installing on a Windows 8/8.1 computer, you must navigate to the Desktop after the reboot for the installation process to resume.*
- *The installation of all prerequisites can take a significant amount of time, especially Microsoft .NET Framework.*

Once the prerequisites have all been successfully installed, the Welcome dialog is shown.

7. Click **Next >**.

If a previous version of MET/TEAM Customer Portal is found on the machine, a prompt shows that MET/TEAM Customer Portal will be upgraded. The installer detects all settings used for the installation of the previous version, uninstalls the previous version, and then installs the current version with minimal user interaction. The License Agreement dialog is shown.

Note

When updating a previous installation of MET/TEAM Customer Portal, the current website is completely uninstalled, which may cause any customized settings and/or file system permissions to be lost. These settings will need to be manually re-applied after the update is complete. Before proceeding with the update, make a note of all custom settings and make a backup copy of the web.config file.

8. Read the terms of the license agreement. If you accept these terms, select the **I accept...** option and click **Next >**.

If upgrading from a previous version, the Database Server dialog is shown. Otherwise, the Setup Type dialog is shown.

9. Select the option for feature installation on this computer, and click **Next >**.

The installer provides two choices:

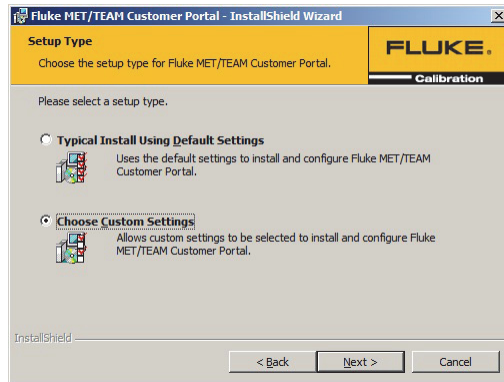
- **Typical Install Using Default Settings:** installs typical features by using the default settings. Select this option for the simplest installation process.
- **Choose Custom Settings:** allows the user to select the installation path and other customizable settings. Select this option when you have specific requirements such as for file locations.

If Choose Custom Settings was selected, the following custom dialogs are displayed:

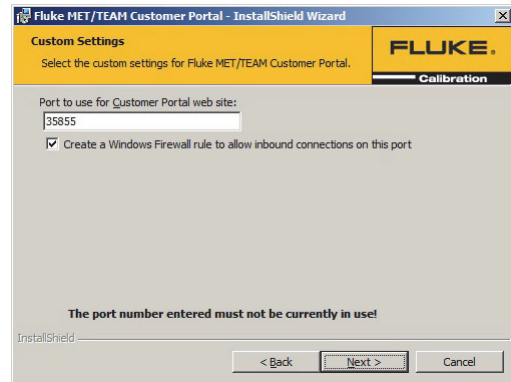
- **Custom Setup:** The MET/TEAM Customer Portal installer only includes one feature, MET/TEAM Customer Portal. This feature is always installed and cannot be disabled. You can select this feature and click **Change** to change the location of the Customer Portal website files.
- **Customer Portal Application Pool Identity:** This dialog lets the user select the account that the Customer Portal website uses to connect to the SQL Server database. The options are as follows:
 - **LocalSystem** – This is the default option. Selecting this option requires the built-in account NT AUTHORITY\SYSTEM (if SQL Server is on the same machine) or the machine account [DOMAIN]\[MACHINE_NAME]\$ (if SQL Server is on another machine) to be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database.
 - **LocalService** – Selecting this option requires that the built-in account NT AUTHORITY\LOCAL SERVICE (if SQL Server is on the same machine) or the built-in account NT AUTHORITY\ANONYMOUS (if SQL Server is on another machine) to be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database.
 - **NetworkService** – Selecting this option requires that the built-in account NT AUTHORITY\Network Service (if SQL Server is on the same machine) or the machine account [DOMAIN]\[MACHINE_NAME]\$ (if SQL Server is on another machine) to be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database.
 - **ApplicationPoolIdentity** – Selecting this option requires that the built-in account IIS APPPOOL\[APP_POOL_NAME] (if SQL Server is on the same machine) or the built-in account NT AUTHORITY\ANONYMOUS (if SQL Server is on another machine) to be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database.
 - **SpecificUser** – Selecting this option requires domain account credentials to be entered on the dialog. This domain account must be configured as a login in SQL Server and setup as db_owner for the MET/TEAM database regardless of whether SQL Server is on the same machine or on another machine. When selecting this option, be sure to add the domain account to use to the built-in IIS_IUSRS security group.

Regardless of the selected option, the installer automatically creates the login in SQL Server and configures it as a db_owner for the MET/TEAM database. Select an option from this dialog and click **Next >**.

- Custom Settings: This dialog allows the user to enter the port of the website and to set whether a rule is created for the Windows firewall to allow access to the selected port.



gx1009.jpg



gx1010.jpg

10. Click **Next >**.

The Database Server dialog is shown.

11. Click the **Browse...** next to the database server box to select the SQL Server instance where the MET/TEAM database is located and choose the authentication method to use to connect to SQL Server.

- **Windows authentication credentials of current user** – Select this option to use the credentials of the domain user account that was used to launch the installer (typically the user account that is logged into Windows). This is the default option. Selecting this option requires the user account to have sysadmin rights in SQL Server.
- **Server authentication using the Login ID and password below** – Select this option to enter SQL Server credentials to use. Selecting this option requires credentials that have sysadmin rights in SQL Server to be entered.

12. Click **Browse** next to the database catalog box, select the database that MET/TEAM uses, and click **Next >**.

The Ready to Install the Program dialog is shown.

13. Click **Install** to run the installation process. The installer installs the files for the Customer Portal website. An installation progress dialog shows during the installation. When updating an existing system, if the identity for the Customer Portal application pool was previously configured to use the SpecificUser option, a prompt is shown for the password for the user account that was selected. Enter the password for the account indicated and click **OK**.

When the installation is complete, the Setup Complete dialog is shown.

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

A shortcut is created on the desktop to access the installed website on the local computer.

Additional steps will be required to expose the MET/TEAM Customer Portal website to external customers. Consult your IT department for assistance on this setup.

Installing MET/TEAM Customer Portal on a Non-Domain Machine

Setting up the MET/TEAM Customer Portal feature on a machine that is not a member of the same domain as MET/TEAM Server (such as a server in a DMZ) requires a different installation process than when setting it up on a machine that is a member of the same domain. The provided MET/TEAM Customer Portal installer cannot complete this type of installation on its own.

This setup process requires some manual steps on both the server that hosts the SQL Server database as well as the machine to host the MET/TEAM Customer Portal website. Because every machine configuration can be different, a general process for setting up MET/TEAM Customer Portal is outlined in this section. The instructions provided below may not be exact for your system, but should guide you in the right direction to successfully get MET/TEAM Customer Portal up and running.

Security steps above and beyond what is documented here may need to be taken to completely secure your website and servers. Always refer to your company's IT policies and practices when configuring machines and systems for external access.

Configuring SQL Server for Access from a Non-Domain Machine

When setting up the MET/TEAM Customer Portal feature on a non-domain machine, SQL Server must be configured to allow logins using a SQL Server authentication login account. This is most easily accomplished by selecting **Mixed Mode** authentication when SQL Server is first installed. However, if SQL Server was originally installed using Windows Authentication only, you can change it to use **Mixed Mode** authentication using the SQL Server Management Studio application. Microsoft has documented this process here: [http://technet.microsoft.com/en-us/library/ms188670\(v=sql.105\).aspx](http://technet.microsoft.com/en-us/library/ms188670(v=sql.105).aspx)

Next, you need to create a SQL Server authentication login account that the MET/TEAM Customer Portal can use to connect to SQL Server. The Customer Portal installer automatically creates a login in SQL Server. To create the login manually, follow the process outlined below.

To create a login for MET/TEAM Customer Portal:

1. Choose **Start > All Programs > Microsoft SQL Server 2008 R2 > SQL Server Management Studio** to open SQL Server Management Studio and log in to the server.
2. In the left pane, expand the **Security** node. Right-click on the **Logins** node and select **New Login** to display the **Login – New** dialog.
3. On the **General** page, enter a login name to use for the MET/TEAM Customer Portal in the **Login name** box.
4. Select the **SQL Server authentication** option and enter a password for this login.
5. Uncheck the **Enforce password expiration** and **User must change password at next login** options.
6. On the **User Mapping** page, check the box to the left of the MET/TEAM database, and check the **public** and **db_owner** boxes in the roles list.
7. Click **OK** to create the login.

SQL Server must be configured to allow TCP/IP connections on a specific port.

To configure SQL Server to allow connections on a specific port:

1. Choose **Start > All Programs > Microsoft SQL Server 2008 R2 > Configuration Tools > SQL Server Configuration Manager** to open the SQL Server Configuration Manager utility.
2. In the left pane under SQL Server Configuration Manager, select **SQL Server Network Configuration > Protocols for [InstanceName]**.
3. Double-click the **TCP/IP** item to open the **TCP/IP Properties** dialog.
4. On the **Protocol** tab, set the **Enabled** property to **Yes**.
5. On the **IP Addresses** tab, locate the **IP4** section and set the **Enabled** property to **Yes**.
6. On the **IP Addresses** tab, locate the **IPAll** section and set the **TCP Port** property to **1433**.
7. Click **OK** to close the **TCP/IP Properties** dialog.

You will need to restart the SQL Server service to allow these changes to take effect. To restart the service using SQL Server Configuration Manager, select the **SQL Server Services** node in the left pane, right-click the **SQL Server ([InstanceName])** item and select **Restart** from the popup menu.

Now that SQL Server is configured, the firewall on the server that SQL Server is running on must be configured to allow inbound connections on port 1433. The instructions below indicate how to do this on a Windows firewall. If you are using different firewall software, refer to your firewall's documentation.

To configure Windows Firewall with Advanced Security for allowing inbound connections on a TCP port:

1. Choose **Start > Administrative Tools > Windows Firewall with Advanced Security** to open the Windows Firewall with Advanced Security utility.
2. In the left pane of the Windows Firewall with Advanced Security window, select the **Inbound Rules** item.
3. In the far right pane, click the **New Rule...** link.
4. On the **New Inbound Rule Wizard** dialog, select the **Port** option on the **Rule Type** step, and click **Next >**.
5. Select the **TCP** and the **Specific local ports** options on the **Protocol and Ports** step and enter **1433** in the box provided, and click **Next >**.
6. Select the **Allow the connection** option on the **Action** step, and click **Next >**.
7. Select the desired options on the **Profile** step, and click **Next >**.
8. Enter a name and description for this rule on the **Name** step, and click **Finish** to complete the process.

The last step of this process is to determine the IP address of the machine that SQL Server is running on as well as the SQL Server instance name. You can get the IP address using the **ipconfig** command-line utility. Make a note of the IP address. You can get the instance name of SQL Server using SQL Server Management Studio or SQL Server Configuration Manager. These items will be used in the following section.

Configuring MET/TEAM Customer Portal on a Non-Domain Machine

Once SQL Server has been configured for access, you may proceed to install and configure MET/TEAM Customer Portal on the non-domain machine. This process uses the MET/TEAM Customer Portal installer to facilitate the installation of prerequisites for the website, but also requires many things to be done manually. Follow the process outlined below to successfully setup the MET/TEAM Customer Portal feature.

To setup MET/TEAM Customer Portal on a Non-Domain Machine:

1. Copy the MET/TEAM Customer Portal installer files from the machine where MET/TEAM Server is installed to removable media.

This installer is typically located in the **%programfiles(x86)%\Fluke\METTEAM\Installers\CustomerPortal** folder. If the non-domain machine has access to shared folders on the domain, you can access this installer using `\\[servername]\metteam\Installers\CustomerPortal` (where [servername] is the name or IP address of the server where the MET/TEAM website is installed).
2. On the machine where MET/TEAM Customer Portal is to be installed, run **Setup.exe** to begin the MET/TEAM Customer Portal installation.
3. Allow all of the prerequisites to be installed on the machine.
4. Once all prerequisites have been installed, install Customer Portal as described in the *Fluke MET/TEAM Customer Portal Installer* section using the following guidelines:
 - On the Customer Portal Application Pool Identity dialog, select the **ApplicationPoolIdentity** setting. (This causes a login for NT AUTHORITY\ANONYMOUS to be created in SQL Server. It can be removed later if it is not needed for any other reason).
 - On the Database Server dialog, you must select the **Server authentication using the Login ID and password below** option and enter the credentials for the login to use.

After the installation process is complete, use Windows Explorer to navigate to the **C:\inetpub\wwwroot\CustomerPortal** folder and open the **web.config** file in a text editor. Make the following changes:

- a. Locate the <connectionStrings> section near the top. Comment out the first entry in this section by enclosing the entire line in a XML comment tag:

```
<!-- <add name="MetTrack_Dev" connectionString="..." /> -->
```
- b. Delete the commented lines of text both above and below the next entry in this section, leaving the entry itself in the file:

```
<add name="MetTrack_Dev" connectionString="..." />
```
- c. Replace %SERVER_IP_ADDRESS% in the connection string with the IP address of the machine where SQL Server is located and the port used by SQL Server separated by a comma (i.e. 129.196.123.214,1433).
- d. Replace %INSTANCE_NAME% in the remaining connection string with the instance name of SQL Server. This can be copied from the first connection string.
- e. Replace %DATABASE_NAME% with the name of the MET/TEAM database (typically **metteam**). This can be copied from the first connection string.

- f. Replace %USER_ID% and %PASSWORD% with the SQL Server authentication login user name and password that were used on the Database Server dialog during installation.

The finished <connectionStrings> section of the web.config file should look similar to this:

```
<connectionStrings>

    <!-- <add name="MetTrack_Dev" connectionString="Data
    Source=MYSERVER\SQLEXPRESS;Database =metteam;Integrated
    Security=SSPI" providerName="System.Data.SqlClient" /> -->

    <add name="MetTrack_Dev" connectionString="Data
    Source=10.0.2.56,1433\SQLEXPRESS;Network Library=DBMSSOCN;Initial
    Catalog=metteam; User ID=cplogin;Password=cploginpwd" />

</connectionStrings>
```

- g. Save and close the **web.config** file.

The MET/TEAM Customer Portal website should now be available using the IP address of the machine it is installed on and the website port number (for example, **http://[ip_address]:[port]**).

Fluke MET/CAL Client Installer

The Fluke MET/CAL Client Installer streamlines the client workstation installation process for the MET/CAL applications. This installer is launched from the **metteam** network share on the server computer. For stand-alone installations, this installer is launched from the folder indicated in Table 1 for the Installers item of the MET/TEAM Shared Files section.

This installer should be used for new installations and upgrade installations. Alternatively, you can use the individual feature installers. The individual installers require that you manually install all prerequisites, whereas the Fluke MET/CAL Client installer does this automatically.

Installer Prerequisites

In order for this installer to function properly, the Microsoft Framework and Visual C++ redistributable must be installed on the PC. If necessary, the .NET Framework and Visual C++ redistributable will be installed when you run this installer for the first time.

Installation Packages and Prerequisites

The installation packages used by the Fluke MET/CAL Client installer are located in the shared **metteam** folder on the server. MET/CAL Run Time and MET/CAL Editor are both distributed as Windows Installer installation packages, also known as MSI files. Each MSI file has a version suffix (major, minor, revision). These packages are:

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

The .NET Framework must be installed on all MET/CAL Client workstations. The MET/CAL Client installer automatically installs this prerequisite.

Using MET/CAL with MET/TEAM requires PDF viewer software to be installed on the workstation in order to view reports. A PDF viewer is not automatically installed with the MET/CAL Client installer. However, Adobe Reader is included on the MET/TEAM distribution media.

If the MET/CAL Editor is going to be installed on a workstation, the Microsoft Visual Studio 2012 Shell (Isolated) and Microsoft Visual Studio 2012 Update 3 (or later) prerequisites must also be installed. These prerequisites are optional. If you choose not to install the prerequisites, the MET/CAL Editor cannot be installed on the workstation.

Note

When you uninstall 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

To install the Fluke MET/CAL Client from the MET/TEAM server computer:

1. Make sure that the minimum PC requirements are met. See the “System Requirements” section for more information.
2. Before an upgrade, verify that none of the MET/CAL applications are running.

Note

The active user must log into the PC as system administrator and the MET/CAL shared folder must be mapped to a local drive letter to complete the installation process.

3. Run Windows Explorer on the workstation computer. In the address bar, type \\<servername>\<sharename> and push **ENTER**.

<servername> is the name of the server where MET/TEAM Server was installed, and <sharename> is the network share name entered on the **MET/TEAM Client Installer Share Name** dialog. The default name of this network share is **metteam**. For example, if the computer where MET/TEAM Server was installed is named **SERVER01** and the MET/TEAM Client Installer network share name is **metteam**, type the following into the Windows Explorer address bar and push **ENTER**:
\\SERVER01\metteam
4. In Windows Explorer, double-click the **METCAL** folder to navigate to the MET/CAL Client installer files.
5. Double-click the **Setup.exe** file to launch the MET/CAL Client installer.
The language selection dialog is shown.
6. Select the language to use for the installation and click **OK**.
If any prerequisites are not already installed on the PC, the prerequisite installation dialog is shown.
7. Click **Install** to install the prerequisites.
If the Microsoft .NET Framework needs to be installed, the computer must be rebooted. Setup will resume automatically.

The Microsoft Visual Studio Shell (Isolated) prerequisite is only required if MET/CAL Editor is to be installed on this workstation. When prompted, you may skip this prerequisite if desired. If installed, the computer must be rebooted. Setup will resume automatically.

If the Microsoft Visual Studio 2012 Shell (Isolated) prerequisite was installed, the Microsoft Visual Studio 2012 Update 3 prerequisite will also be installed. If installed, the computer must be rebooted. Setup will resume automatically.

Note

Always reboot the computer when prompted to ensure the successful installation of all prerequisites.

If a reboot is required when installing on a Windows 8/8.1 computer, you must navigate to the Desktop after the reboot for the installation process to resume.

Once the Windows Installer prerequisites are installed, the Welcome dialog is shown.

8. Click **Next >** to proceed.

If setup detects a previous version of MET/CAL is currently installed on the computer, the Ready to Install the Program dialog is shown. Do upgrades by following the dialogs for each individual feature's installer.

The License Agreement dialog is shown.

9. Read the terms of the license agreement. If you accept these terms, select the **I accept...** option and click **Next >**.

The Select Language dialog is shown.

10. Select the language that the MET/CAL applications should use, and click **Next >**.

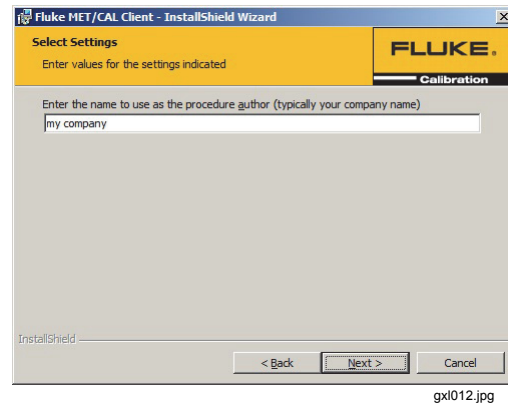
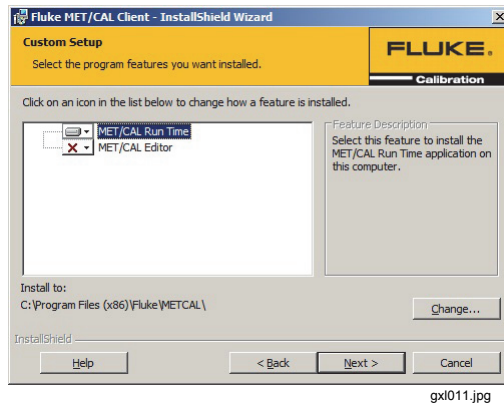
The Custom Setup dialog is shown.

11. Select the features that you want to install on this computer. The features include:

- a. **MET/CAL Run Time**: installs the MET/CAL Run Time application on the computer. This feature is always installed and cannot be disabled. You can select this feature and click **Change** to change the location of the Run Time application files.
- b. **MET/CAL Editor**: installs the MET/CAL Editor application on the computer. This feature is optional and should only be installed on computers where procedure editing is required. You can select this feature and click **Change** to change the location of the Editor application files. If the Microsoft Visual Studio 2012 Shell (Isolated) prerequisite was not installed, this feature will not be available on the Custom Setup dialog.

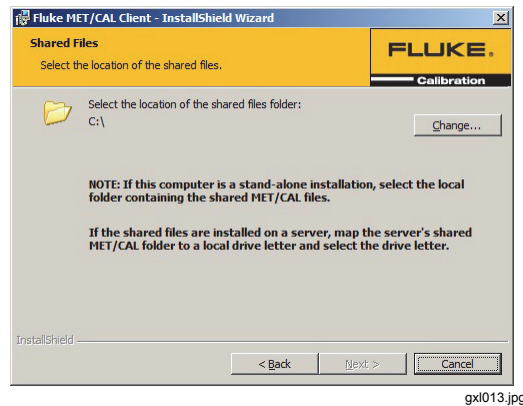
The Select Settings dialog is shown.

12. Enter the name to use as the procedure author, and click **Next >**.



The **Shared Files** dialog is shown.

- a. If you are installing MET/CAL on a client workstation, the MET/CAL network share that was created during the MET/TEAM Server installation needs to be mapped to a drive letter on the local computer. This drive must be selected.



Note

If a mapped drive letter does not appear on the dialog when you click the Change button, you may need to do the mapping by running a command window as administrator and use the NET USE command to create the drive mapping. For example, NET USE M: \\server\share will map \\server\share to the M: drive.

- b. If you are installing a stand-alone system, select the root folder on this computer for the MET/CAL shared files. Refer to Table 1. This folder can be hidden. If so, you can type in the path manually.
- c. Click **Next >**.

The Ready to Install the Program dialog is shown.

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

Installation progress dialogs for the selected features will be displayed during the installation process. The Setup Complete dialog is shown.

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

MET/CAL Run Time Installation

This section outlines the process of installing the MET/CAL Run Time as a stand-alone installer outside of the MET/CAL Client installer.

Before you begin, make sure that MET/TEAM Server is installed either on the same PC (stand-alone installation) or that the MET/CAL shared folder in a networked instance of MET/TEAM is mapped to a logical drive on the PC. The mapped drive is required to complete the installation process for networked installations.

Note

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

1. Make sure all prerequisites have been installed first.
2. Launch the MET/CAL Run Time installer (msi) file.

The Welcome dialog is shown.

3. Click **Next >**.

The License Agreement dialog is shown.

4. Check the **I accept...** box and click **Next >**.

The Select MET/CAL Language dialog is shown.

5. Select the language to use and click **Next >**.

Note

The language selection defines the default language selection for the MET/CAL Run Time and MET/CAL Editor only.

The Company Name dialog is shown.

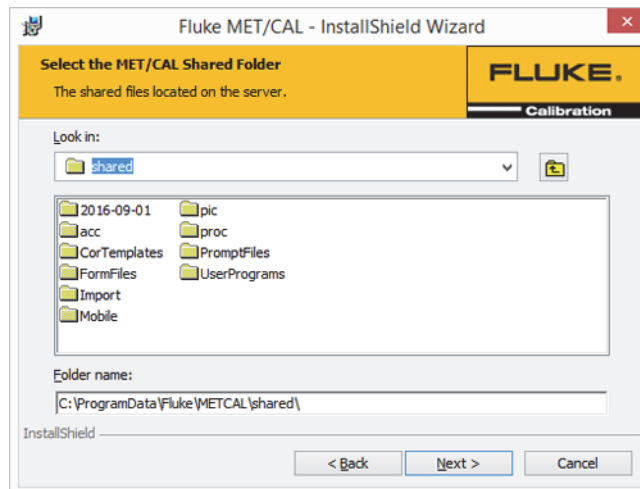
6. Enter your company name and click **Next >**.

The Select the MET/CAL Shared Folder dialog is shown.

7. Select the path to the MET/CAL shared folder and click **Next>**.

- a. If you are installing MET/CAL on a client workstation, the MET/CAL shared folder that was created during the MET/TEAM Server installation needs to be mapped to a drive letter on the local computer. This drive must be selected on this dialog.
- b. If you are installing a stand-alone system, select the root folder for the MET/CAL shared files on this dialog. Refer to Table 1.

The Choose Setup Type dialog is shown.



Runtime-SharedFolder.png

8. Choose the setup type.

The options are:

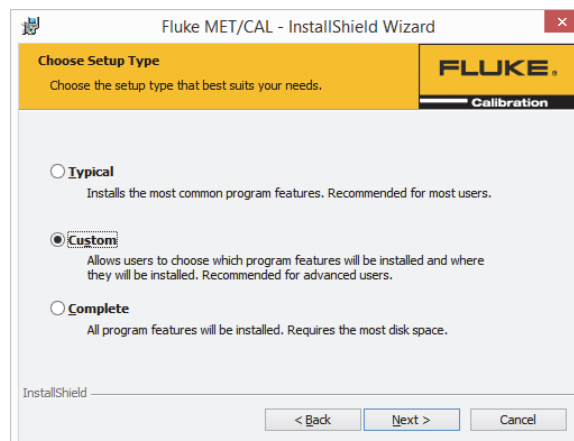
- **Typical:** installs the typically used installation files using the default installation settings. There are no options to alter the file and folder paths.
- **Custom:** All installation folders and paths are customizable. The default options are pre-selected.
- **Complete:** automatically installs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

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

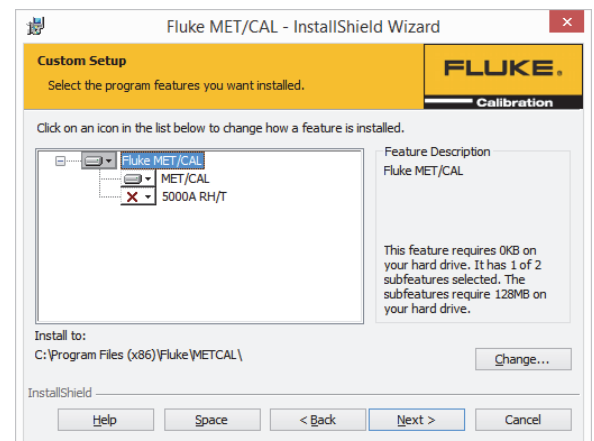
9. If the **Custom** setup type was selected, select the specific applications that you want to install and choose the option to install it on the local hard drive.

You can change the folder where the MET/CAL applications are installed. To do so, select **Fluke MET/CAL** and click **Change**.

10. Click **Next>**.



Runtime-SetupType.png



Runtime-CustomSetup.png

11. On the Ready to Install dialog, click the **Install** button to begin the installation process. The MET/CAL Run Time files are installed on the PC.

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

12. Click **Finish** to complete the MET/CAL Run Time installation process.

MET/CAL Editor Installation

This section outlines the process of installing the MET/CAL Editor as a stand-alone installer outside of the MET/CAL Client installer.

Before you begin, make sure one of the following requirements is met:

- MET/TEAM Server is installed on the same PC (stand-alone installation).
- The MET/CAL shared folder in a networked instance of MET/TEAM is mapped to a logical drive on the PC.

Note

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

1. Make sure all prerequisites have been installed first.
2. Launch the MET/CAL Editor installer (msi) file.

The Welcome dialog is shown.

3. Click **Next >**.
4. Accept the license agreement with the **I accept...** option, and click **Next >**.
5. Choose the setup type, and click **Next >**.

The options are:

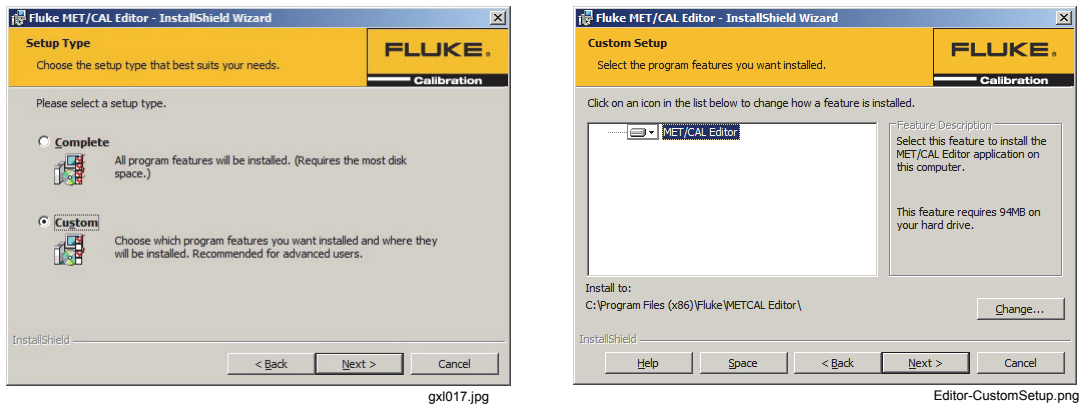
- **Complete:** installs all available applications by using the default installation settings. There are no options to alter the file and folder paths.
- **Custom:** All installation folders and paths are customizable. The default options are pre-selected.

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

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 change the folder where the MET/CAL Editor application is installed. To do so, select **MET/CAL Editor** and click **Change**.

7. Click **Next >**.



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

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

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

Microsoft SQL Server 2008 R2 Express Installer

SQL Server is required to host the database for MET/TEAM. The SQL Server database can either be installed on the same computer that hosts the MET/TEAM website or be located on another computer that is accessible over a network. For this reason, the SQL Server installation is optional on the computer where MET/TEAM Server is being installed.

Whether you choose to install SQL Server on the same computer or a different computer, the MET/TEAM Server installer must be able to connect to a valid instance of SQL Server before the MET/TEAM website can be installed. The MET/TEAM Server distribution media contains multiple versions of the free SQL Server Express edition in English. If you want to use a specific language installation of SQL Server other than English, you should download it from Microsoft website and install it prior to starting the MET/TEAM Server installation process. Use the link below to access the download:

<http://www.microsoft.com/en-us/download/details.aspx?id=26729>

It is recommended that you download the **SQLEXPRT_x64_XXX.exe** version of SQL Server, where XXX refers to the desired language. This version contains the Management Studio tool, which is very useful for gaining access to and maintaining your database. The installer for SQL Server 2016 does not include the Management Studio tool. This tool must be downloaded and installed separately.

Note

MET/TEAM requires Microsoft SQL Server 2008 R2 or later. The MET/TEAM Server installer prevents the selection of a database server prior to this version. Later versions of SQL Server are also supported. For the most up-to-date information on supported versions of SQL Server, see our website.

The SQL Server database also must be installed on all MET/TEAM Mobile workstation computers. MET/TEAM Server and MET/TEAM Mobile are required to use the same version of SQL Server. If different versions of SQL Server are used, the mobile Check In or Check Out process may fail.

Note

*When you install SQL Server on the MET/TEAM Mobile workstation computer, some settings that need to be configured differently from the MET/TEAM Server's installation of SQL Server. Pay special attention to the information provided in the Installation Process section for installing SQL Server on MET/TEAM Mobile workstation computers. **Failure to configure these settings properly will prevent MET/TEAM Mobile from operating.***

Prerequisites

The SQL Server installer thoroughly analyzes the computer prior to installation. If the computer does not meet all criteria of the installer, you must correct the issues found before continuing.

In order for the SQL Server installer to complete successfully, one or more of prerequisites may need to be installed. The SQL Server installer attempts to install the necessary prerequisites, or prompt you to install them manually as needed.

Installation Process

This section outlines a plain installation of Microsoft SQL Server 2008 R2 Express.

Note

Installation dialogs for other versions of SQL Server may differ slightly from the SQL Server 2008 R2 Express dialogs, but the same settings apply. Also, prior to installing MET/TEAM, make sure the account to be used to setup the database during MET/TEAM Server installation has been granted the 'sysadmin' server role. Failure to do this may result in an error message near the end of the installation process indicating the database is out of sync, and the MET/TEAM website may fail to run properly. If this is the case, simply make the change indicated above post-installation (reinstallation is not required).

1. Download the desired version of SQL Server, or insert the distribution media and click the **Install SQL Server Express** item in the **Install Software** column on the right when the AutoRun dialog is shown.
2. Navigate to the folder for the version of SQL Server Express you want to install.
3. Launch the installer.

To install SQL Server:

1. Click the **New installation or add features to an existing installation** link.

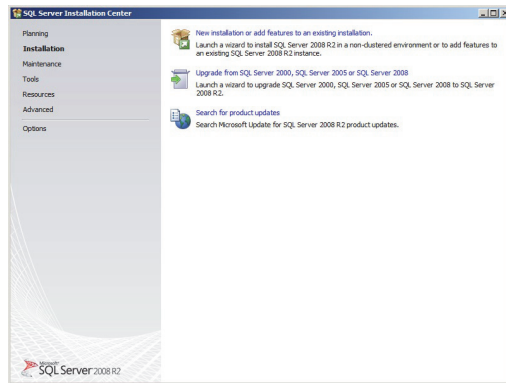
The License Terms dialog is shown.

2. Check the **I accept...** option to accept the license terms, and click **Next >**.

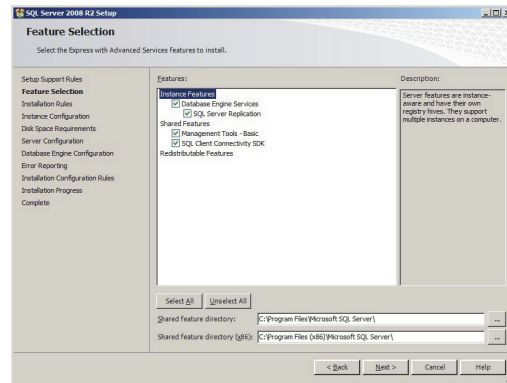
The Setup Support Files progress dialog is shown while the installer prepares for installation.

The Feature Selection dialog is shown.

3. Click **Select All** to make sure all features are selected, and click **Next >**.



gx1019.jpg



gx1020.jpg

The Instance Configuration dialog is shown.

4. For MET/TEAM Server installations, use the default settings on this dialog and click **Next >**.

Note

*For MET/TEAM Mobile workstation installations, you must select the **Default instance** option on this dialog.*

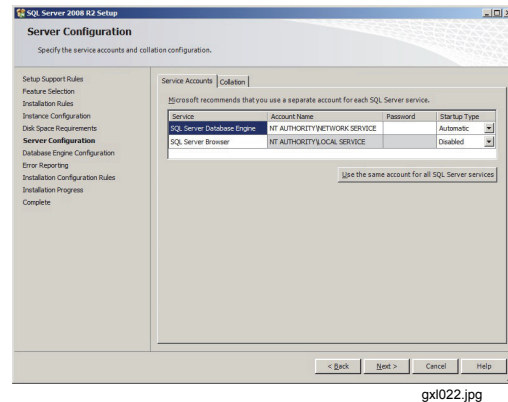
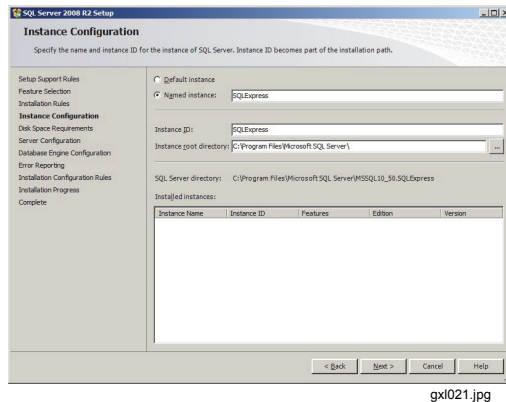
The **Server Configuration** dialog is shown.

5. On the Service Accounts tab, select the **NT AUTHORITY\SYSTEM** account for the SQL Server Database Engine service.

The SQL Server Browser service **Startup Type** should be set to **Automatic** if any of the following conditions is met:

- The MET/TEAM website is being installed on a separate computer.
- The Customer Portal website is being installed on a separate computer.
- You plan to use MET/TEAM Mobile.

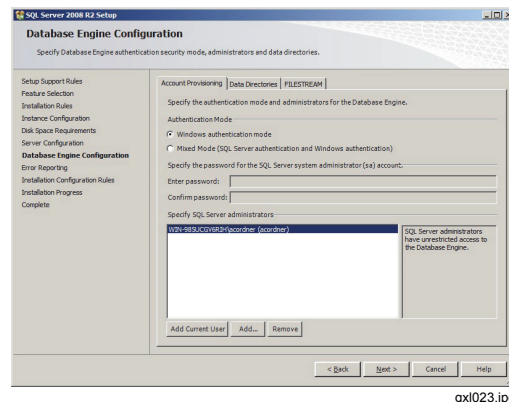
6. On the Collation tab, set collation to **Latin1_General_CI_AS**, and click **Next >**.



7. On the displayed Database Engine Configuration dialog, check the following items and click **Next >**.

- a. On the Account Provisioning tab, you can select **Windows authentication mode** or **Mixed Mode**. However, if you plan to install the MET/TEAM Customer Portal website on a machine that does not belong to the same domain as the MET/TEAM server (for example, in a DMZ) you must select the **Mixed Mode** option when setting up the MET/TEAM server database and specify a password for the built-in system administrator (sa) account.

Also, add any necessary domain accounts or security groups based on how the MET/TEAM and Customer Portal websites are going to connect to the database. Refer to the **Application Pool Identity** setting in the MET/TEAM Server and Customer Portal installation sections. These accounts or security groups can also be added later if desired using SQL Server Management Studio.



- b. If you are installing SQL Server on the MET/TEAM server computer and you plan to use MET/TEAM Mobile, or if you are installing SQL Server on a MET/TEAM Mobile **workstation** computer, add the security group for MET/TEAM Mobile users to the **Specify SQL Server Administrators** list with the **Add** button.

- c. On the **Data Directories** tab, you can specify the location of various database files.
 - d. On the **FILESTREAM** tab, the **FILESTREAM** feature should be disabled.
- The Error Reporting dialog is shown.
8. If you wish to send error information to Microsoft, check the box.
 9. Click **Next >**.

Note

The installation of SQL Server takes a significant amount of time.

An installation progress dialog will be displayed during the installation process. When the installation process is complete, the Setup Complete dialog is shown.

10. Click **Finish** to close the dialog.
11. Close the SQL Server Installation Center dialog to resume installing other prerequisites.

Configuring SQL Server to Allow Remote Connections

SQL Server must be configured to allow remote connections when you:

- Set up the MET/TEAM Customer Portal website on a separate server from the MET/TEAM server, whether the server is on the same domain or not (for example, in a DMZ)
- Use MET/TEAM Mobile
- Install MET/TEAM Server on a machine that is not hosting the SQL Server database

By default, SQL Server is configured to only be accessed from the local PC.

Note

Path references in the following sections may be slightly different for other versions of SQL Server.

To configure SQL Server for remote access:

1. Choose **Start > All Programs > Microsoft SQL Server 2008 R2 > Configuration Tools > SQL Server Configuration Manager**.
2. In the left pane of SQL Server Configuration Manager, select the **SQL Server Services** item.
3. If the SQL Server Browser service was not configured to start up automatically during the installation of SQL Server:
 - a. Right-click the **SQL Server Browser** item in the right pane and select **Properties** from the popup menu.
 - b. On the SQL Server Browser Properties dialog, select the **Service** tab.
 - c. Select **Automatic** from the drop-down list for the **Start Mode** setting.
 - d. Click the **Apply** button.
 - e. Select the **Log On** tab, and click the **Start** button to start the service.
 - f. Click **OK** to close the SQL Server Browser Properties dialog.

4. In the left pane of SQL Server Configuration Manager, expand the **SQL Server Network Configuration** item, and select the **Protocols for SQLEXPRESS** item.
5. In the right pane, locate the **TCP/IP** item. If it is disabled, right-click the **TCP/IP** item and select **Enable** from the popup menu.
6. If you get a message indicating the service must be restarted for changes to take effect, click **OK**.
7. In the left pane of SQL Server Configuration Manager, select the **SQL Server Services** item.
8. In the right pane, right-click the **SQL Server (SQLEXPRESS)** item, and select **Restart** from the popup menu to restart the service.
9. Close SQL Server Configuration Manager.

To configure Windows Firewall with Advanced Security for remote access:

1. Choose **Start > Administrative Tools > Windows Firewall with Advanced Security** to open the Windows Firewall with Advanced Security utility.
2. In the left pane of the Windows Firewall with Advanced Security window, select the **Inbound Rules** item.
3. In the far right pane, click the **New Rule...** link.
4. On the New Inbound Rule Wizard dialog, select the **Program** option on the **Rule Type** step, and click **Next >**.
5. Select the **This program path** option on the Program step, and click the **Browse** button.
6. Locate the **sqlbrowser.exe** file, which is typically located in the %ProgramFiles (x86)%\Microsoft SQL Server\90\Shared folder.
7. Select this file, click **Open**, and click **Next >**.
8. Select the **Allow the connection** option on the **Action** step, and click **Next >**.
9. Select the desired options on the **Profile** step, and click **Next >**.
10. Enter a name and description for this rule on the **Name** step, and click **Finish** to complete the process.
11. Repeat steps 3 through 8 for the **sqlservr.exe** file, which is typically located in the %ProgramFiles%\Microsoft SQL Server\MSSQL10_50.SQLEXPRESS\MSSQL\Binn folder.
12. If the MET/TEAM Customer Portal website is being installed on a non-domain machine, you also need to setup an exception in the Windows Firewall for the TCP port that SQL Server uses. This process is outlined in the Installing MET/TEAM Customer Portal on a Non-Domain Machine section.

If MET/TEAM Customer Portal is being installed on a non-domain machine, you must create a SQL Server Authentication login for the Customer Portal website to use. This process is outlined in the “Installing MET/TEAM Customer Portal on a Non-Domain Machine” section.

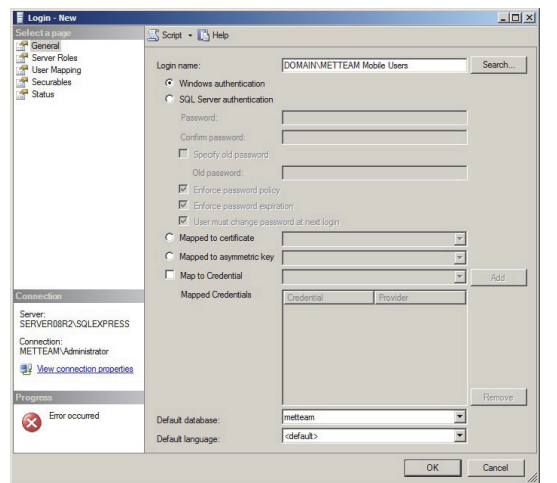
Configuring MET/TEAM Server for MET/TEAM Mobile

The MET/TEAM Mobile feature allows you to use MET/TEAM while your computer, such as a laptop, is disconnected from the network. In order to use MET/TEAM Mobile, you need to run the MET/TEAM Mobile Prerequisites installer on the mobile computer and make some changes to the MET/TEAM Server SQL Server configuration. This section steps you through the process of configuring SQL Server on the MET/TEAM Server.

To successfully use MET/TEAM Mobile, you must log in to Windows on the mobile computer with an account that (when performing the “Check Out” and “Check In” processes) has both administrative privileges on the mobile computer and rights to access the SQL Server database on the server. To simplify the SQL Server configuration process, it is recommended to use this same user account when you install the MET/TEAM Mobile Prerequisites on the mobile computer.

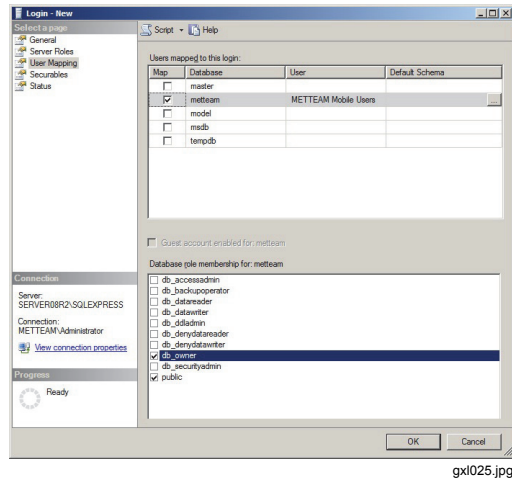
To configure MET/TEAM SQL Server Database for use with MET/TEAM Mobile:

1. Follow the instructions in the “Configuring SQL Server to Allow Remote Connections” section.
2. It is recommended that you create a security group using Active Directory on your domain for MET/TEAM Mobile users, then add the user account for each MET/TEAM Mobile user to this group. Consult your IT department for details about a security group on the domain.
3. Choose **Start > All Programs > Microsoft SQL Server 2008 R2 > SQL Server Management Studio** to open SQL Server Management Studio.
4. Log into the database server where the MET/TEAM database is hosted.
5. In the left pane, expand the Security node. Right-click on the **Logins** node and select **New Login** to display the Login – New dialog.
6. On the General page, enter the MET/TEAM Mobile security group name or a user account for a MET/TEAM Mobile user in the **Login name** box.
7. Select the **Windows authentication** option.



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- On the **User Mapping** page, check the box to the left of the MET/TEAM database, and check the **public** and **db_owner** boxes in the roles list.



- Click **OK** to create the login.
- Make sure that the account (Identity) used by the MET/TEAM application pool in IIS is configured with the **sysadmin** role. By default, this is the **NT AUTHORITY\SYSTEM** account.

To configure a client computer to run MET/TEAM Mobile:

- Log into the client computer using a user account with administrative privileges on the local computer.
Preferably, log in using the same account that you are going to use when performing the Check Out and Check In processes. This user account should be a member of the security group created in the process outlined above.
- On the client computer, connect to the MET/TEAM shared folder on the server and navigate to the \Installers\Mobile folder.
- Run **Setup.exe** and follow the instructions to install the MET/TEAM Mobile prerequisites on the computer.

Refer to the “Fluke MET/TEAM Mobile Prerequisites Installer” section and the “Microsoft SQL Server 2008 R2 Express Installer” section for more details on completing the installation process successfully. Pay special attention to the settings that need to be used when installing SQL Server on MET/TEAM Mobile workstation computers.

Configuring Application Pool Recycling Settings

Microsoft Internet Information Systems (IIS) websites have a feature that helps manage and recover valuable system resources. This feature is known as Application Pool Recycling. When an application pool is recycled, memory and other resources that were allocated for the website(s) in that application pool are released. This recycling process, however, causes all users that were logged in to the website(s) to lose their connections automatically. This can be problematic, especially when running a MET/CAL procedure that takes many hours.

By default, the application pools for the MET/TEAM and MET/TEAM Customer Portal websites are set to recycle every 29 hours, which means the recycle process may occur at 8:00 AM one day, 1:00 PM the next day, and 6:00 PM the following day. This can cause undesirable and seemingly random session expirations and automatic log offs.

The recycling settings can be changed to use more suitable settings for your environment and system. The process outlined below indicates how to change the recycling settings for an application pool using Microsoft Internet Information Systems (IIS) Manager.

To change the application pool recycling settings in IIS:

1. Open Internet Information Services (IIS) Manager using **Control Panel > Administrative Tools > Internet Information Services (IIS) Manager**.
2. Select the application pool node for the website to change in the left pane of **Internet Information Services (IIS) Manager**. On the far right, click the **Recycling...** link.
3. On the **Edit Application Pool Recycling Settings** dialog, choose the option that best suits the needs of your system based on your usage patterns. Select a time or interval to recycle when the least number of users may be connected or when the least impact of this process would be realized. Click **Next**.
4. Choose the types of recycling events to log and click **Finish**.
5. Repeat this process for other application pools.

Set Up a Secure MET/TEAM Website Using SSL

The MET/TEAM Server and MET/TEAM Customer Portal installers provided deploy the MET/TEAM and Customer Portal websites configured to use the standard HTTP protocol. It may be necessary to make MET/TEAM and/or Customer Portal secure by implementing the HTTPS protocol. To do so, follow the steps outlined below.

Note

This section outlines the basic process to set up a secure MET/TEAM website using Secure Socket Layer (SSL). This is not the only way to accomplish this, but it does provide the basic information for what needs to be done. Always consult your IT department when making security related changes.

To setup a secure MET/TEAM website:

1. Run the MET/TEAM Server installer on the server to deploy the MET/TEAM website.
2. Once the installation is complete, run Internet Information Services (IIS) Manager and stop the MET/TEAM website.
3. Obtain a valid SSL certificate from an issuing authority.
4. Install the SSL certificate on the MET/TEAM server.
 - a. Run certmgr.msc
 - b. Right-click the Certificates node under Trusted Root Certification Authorities and select **All Tasks > Import**.
 - c. Click **Next**.
 - d. Locate and select the *.pfx file. Click **Next**.
 - e. Enter the password used to create the certificate.
 - f. Click **Next**.
 - g. Click **Next**.
 - h. Click **Finish**.
5. Set up the certificate in Internet Information Services (IIS).
 - a. Run IIS.
 - b. Select the root node on the left.
 - c. Double-click **Server Certificates**.
 - d. Click the **Import** link on the right.
 - e. Select the *.pfx file.
 - f. Enter the password used to create the certificate.
 - g. Click **OK**.
6. Enable SSL for the website.
 - a. Run IIS.
 - b. Select the website node on the left.
 - c. Click the **Bindings** link on the right.
 - d. Click **Add** to create a new binding.
 - e. Select **https** as the **Type**, enter a port number and select the certificate to use.
 - f. Click **OK**.
 - g. Click **Close**.
 - h. Double-click the SSL Settings icon.
 - i. Check the **Require SSL** checkbox.
 - j. Select the **Ignore client certificates** option.
 - k. Click the **Apply** link on the right.

7. Remove the non-secure binding for the website.
 - a. Run IIS.
 - b. Select the website node on the left.
 - c. Click the **Bindings** link on the right.
 - d. Select the http binding in the list.
 - e. Click **Remove**.
 - f. Click **Close**.
8. Make changes to the web.config file to support HTTPS. The default web.config file contains commented out sections that need to be uncommented.
 - a. Open the web.config file for the website using a text editor.
 - b. Locate the <system.serviceModel> section. Remove the comments around the settings marked with "<!-- Uncomment this section to support HTTPS -->"
 - c. Locate the <standardEndpoints> section. Either delete or comment out the setting marked with "<!-- Remove this setting to support HTTPS -->"
 - d. Locate the <behaviors> section. Either delete or comment out the setting "<serviceMetadata httpGetEnabled="true" />"
 - e. Locate the <behaviors> section. Uncomment the setting "<serviceMetadata httpGetEnabled="true" httpsGetEnabled="true" />"
 - f. Save and close the web.config file.
9. Start the website.

Licenses

When Fluke Calibration Software is installed, a 60-day free trial license is installed automatically. This license enables all functionality of the software.

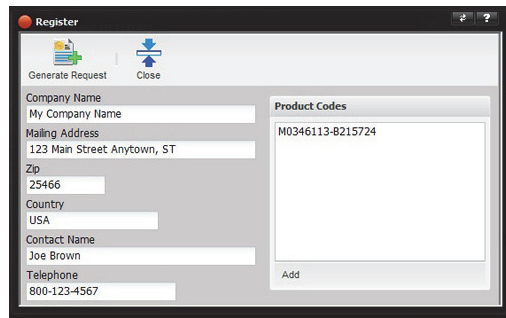
Before the end of the 60-day trial period, you must request a valid license by following the process outlined below.

Note

The application of new licenses forces all current connections to terminate. Be sure to notify all users before you proceed to apply new licenses.

To request a license:

1. Open the MET/TEAM application in a web browser and log in.
2. Select the **About** option in the **Help** menu.
3. Click the **Register** button on the toolbar of the About MET/TEAM dialog.
4. Enter your contact information on the Register dialog and the product code(s) to submit. Product codes are found on a report that accompanies your order.
5. Click the **Generate Request** button on the toolbar to generate the license request.



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6. Copy the entire contents of the box containing the license request information (include the "--- Begin License Request ---" and "--- End License Request ---" tags) from the Register dialog and paste it into the body of a new email message.

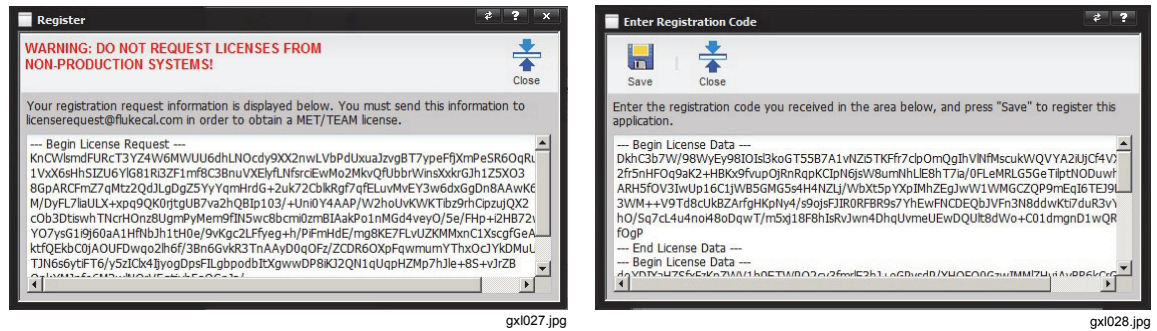
Note

*Do not add additional information to the license registration request.
License requests are processed automatically.*

7. Send the email to the address indicated on the Register dialog. Click the **Close** button on the Register dialog.

Shortly you will receive a response that includes an attachment that contains license information. This license information is generated from the information you provided on the Register dialog and the items you have purchased.
8. Copy the license information from the email attachment (starts with and includes the first "--- Begin License Data ---" tag; ends with and includes the last "---End License Data ---" tag).
9. Click the **Enter Registration Code** button on the toolbar of the About MET/TEAM dialog.

10. Paste the license information into the box on the Enter Registration Code dialog, and click the **Save** button on the toolbar to save the license.



11. Click the **Close** button to close the Enter Registration Code dialog.

The About MET/TEAM dialog shows the details of your new license.

Note

Application of new licenses forces all current connections to terminate. You will be required to log in again.

After applying a new license, you will have full access to the features of the software that you purchased. Features that were not purchased will continue to function until the 60-day trial period elapses.

License Agreements

Components of Fluke Calibration Software use open sources libraries that fall under different license agreements. All such libraries and their corresponding license agreements are copied to the computer during installation.

The full license agreement for MET/TEAM, MET/CAL Run Time, and MET/CAL Editor is shown 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.