

precisely

# MapXtreme

Installer Guide

Version 9.4



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# 1 – Installation Instructions

This chapter contains system requirements and procedures for successfully installing MapXtreme.

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# System Requirements

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Memory	Windows 7 and 8: 1 gigabyte (GB) RAM (32-bit), 2 GB RAM (64-bit) Windows 10: 1 gigabyte (GB) RAM (32-bit), 2 GB RAM (64-bit) Windows Server 2016: 2 GB RAM Windows Server 2012 R2: 1 GB RAM Windows Server 2008: 512 megabytes (MB) RAM
Processor	Windows 10: 1 GHz processor Windows 8, Windows 7: 1 GHz processor Windows Server 2016: 1.4 GHz processor Windows Server 2012 R2: 1 GHz processor Windows Server 2008: 1 GHz processor
Video Card	Graphics card that supports at least 256 colors

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## Supported Environments

Precisely has tested and supports MapXtreme on the following.

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Operating Systems	Windows 10 (x86, x64) Windows 8 and 8.1 (x86, x64) Windows 7 (x86, x64) SQL Server 2008, 2012 and 2014 Windows Server 2016 Windows Server 2012 R2 (x64) Windows Server 2012 (x64) Windows Server 2008 R2 (x64) Windows Server 2008 with SP2 (x86, x64)
Architecture	64-bit 32-bit
Development Framework and IDE Support	Microsoft .NET Framework 4.7.2 Visual Studio 2017 Visual Studio 2015
Browsers	Internet Explorer 10 and above** Firefox 3.5 and higher Chrome 20 and higher

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For web application and deployment:	IIS 10 (Windows 10, Windows Server 2012 R2) IIS 8 and above (Windows 8 and 8.1) IIS 7 (Windows Server 2008 R2, and Windows 7)
Supported databases	Microsoft Access 2007 and Excel 2007 Microsoft Access 2003 Oracle 12c R2 Oracle 11G (11.1.0.6.0 and 11.1.0.7.0) Oracle 10G, 10G R2 Microsoft SQL Server 2014 Microsoft SQL Server 2012 (with SQL Native Client 11) Microsoft SQL Server 2008 (with SQL Native Client 10)
For data access:	MDAC 2.8

\* Recommended development environments (IDE). Others can be used, however, the MapXtreme installer will not integrate its templates, samples, and help system.

\*\* The MapXtreme Learning Resources displays in Internet Explorer automatically, regardless of your default browser setting. This will not change your default browser setting.

## Before You Install

The following are things to be aware of prior to installing MapXtreme.


### Administrator Privileges

To install MapXtreme, you must be an Administrator on the machine or the current user must be a member of the group Administrator. This applies to both types of installation (SDK and Runtime).

### Install .NET Framework and Visual Studio First

Before you install MapXtreme, be sure that you have the .NET Framework and the Visual Studio environment appropriate for the framework installed. Open Visual Studio once on your computer to ensure that you have working Visual Studio environment.

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 You may use a different development environment than Visual Studio, however, the templates, samples, and the online help system will not be integrated.

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## IIS 7/8.5/10 Support

MapXtreme supports web deployment under Internet Information Services (IIS) 7, IIS 8.5 and IIS 10.

For IIS 7, the operating system requirement is Windows Server 2008R2 or Windows 7. For IIS 8/8.5, the operating system requirement is Windows 8/8.1. For IIS 10, the operating system requirement is Windows 10 or Windows Server 2012 R2. MapXtreme does not support web deployment on Windows XP.

Throughout the Developer Guide references to IIS will refer to IIS 7, IIS 8.5 and IIS 10. IIS 7 is included (although not necessarily installed) with Windows Server 2008R2 and Windows 7 Ultimate. MapXtreme supports IIS 7/8.5/10 in both classic mode and integrated pipeline mode.

Prior to installing MapXtreme, configure IIS 7/8.5/10 following the steps below. These steps apply to Windows Server 2008R2 and Windows 7.

1. Enable Windows Authentication and Anonymous Authentication.
  - a. Go to Control Panel > Administrator Tools, right-click **IIS** and choose to “Run As Administrator”.
  - b. Select Default Web Site.
  - c. Under the IIS group, double-click Authentication.
  - d. Right-click Anonymous Authentication and choose Enable. Do the same for Windows Authentication.
2. Enable the Web Management Tools.
  - a. Go to Control Panel > Programs and Features.
  - b. Click Turn Windows features on or off. The Windows Features dialog box opens.
  - c. Select the Internet Information Services checkbox.
  - d. Double-click (or expand) Web Management Tools, and select all checkboxes below it.
3. Enable World Wide Web Services.
  - a. In the Windows Features dialog, double-click (or expand) the World Wide Web Services and check the boxes itemized below.
  - b. Application Development Features - select all.
  - c. Common HTTP Features: Default Document, Directory Browsing, HTTP Errors, Static Content and WebDAV Publishing
  - d. Health and Diagnostics: HTTP Logging, Request Monitoring
  - e. Performance: Static Content Compression
  - f. Security: Request Filtering and Windows Authentication



## MapXtreme Web Controls and IIS

MapXtreme's Web Controls have always modified the web.config file of your ASP.NET automatically to include the required modules and handlers. We fully support IIS7 integrated pipeline mode and will also auto-modify the web.config file to include the necessary code under the system.webServer node. To maintain compatibility with IIS7's 'Classic' pipeline mode, the Integrated Pipeline code will only be entered into the web.config file if the MapInfo.Engine.Session.PipelineMode property is set to 'Integrated'. This property is added to the 'appSettings' node of the web.config file when any ASP.NET project is loaded into Visual Studio 2015 with MapXtreme 8.1 installed on your system. Initially, this property is commented out. Simply uncomment to make the proper edits for an application running in Integrated Pipeline mode in IIS7/8.5/10. Change the value to 'classic', or simply recomment the property, to comment out the system.webServer node for backwards compatibility with Classic Pipeline mode or IIS6.

## Default Install Directory for MapXtreme

MapXtreme runs on 32-bit and 64-bit systems. The following are the default installation directories.

C:\Program Files\MapInfo\MapXtreme\9.x.x\, where 9.x.x is the 64-bit version of MapXtreme.

C:\Program Files(x86)\MapInfo\MapXtreme\9.x.x\, where 9.x.x is the 32-bit version of MapXtreme.

Both default paths are included in the Web.config files of the MapXtreme sample applications. If you have installed MapXtreme to another location, you must edit the Web.config files to point to that location for the samples to run properly.

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- i** For non-English US (ENU) installations of Windows, the default installation directory C:\Programmer\ is considered a custom install location by MapXtreme. You must edit the samples Web.config files to point to your install directory, as the example below shows.
- 

```
<configuration>
<appSettings>
<add key="MapInfo.Engine.Session.workspace"
    value="C:\Programmer\MapInfo\MapXtreme\9.x.x\Samples\Data\world.mws" />
```

```
</appSettings>  
</configuration>
```

## Additional Installation Features

MapXtreme provides online installation instructions to follow. You can also access the instructions via the Help button on the install dialogs during installation.

MapXtreme provides free sample data for a variety of world locations. To install the data, choose Install Sample Data from the DVD Browser. You can control how much of the data you wish to install by choosing the Custom option. The Complete option (default) will install about 450 MB of world data sets under Program Files\MapInfo\MapXtreme\9.x.x\Samples\Data.

You do not need to run this data installer in order to use the sample applications that ship with MapXtreme. Basic sample data is automatically installed to the \Data folder for this purpose.

The MapXtreme DVD Browser also provides a link to the PDF version of this Developer Guide.

## Types of Installations

MapXtreme provides two installation types: one for Development (SDK) and one for Deployment (Runtime). Each is selectable from the product DVD Browser.

### Development (SDK) Installations

The Development Installation installs the MapXtreme Software Development Kit (SDK) on your computer. Choose this installation to develop your desktop and web applications. Upon installation, this SDK is automatically integrated with the Microsoft Visual Studio IDE, and works in conjunction with the .NET Framework. The SDK provides C# and VB application templates for simplified development.

### Deployment (Runtime) Installations

The Deployment installation option installs the Location Runtime Environment which lays down the MXTRuntime.exe (for software-copy protected versions of MapXtreme).

## Side-By-Side Installations and Use

You may have more than one version of MapXtreme installed on your system at the same time. Each version of MapXtreme installs into its own directory.

You may also build a desktop and web application against an earlier version of MapXtreme and run it against a later version.

You may run more than one ASP.NET application on the same computer if they are built with different versions of MapXtreme. Create an application pool for each version of MapXtreme and place the appropriate ASP.NET application in it. Restart IIS by issuing an *iisreset* from a command prompt or recycle the application pool that the application is assigned. When an application runs in its own process space, it will load the appropriate version of MapXtreme.

This does not affect desktop applications created with different versions on MapXtreme. Each desktop application always runs in its own process space.

## Installing MapXtreme in Your Environment

To install MapXtreme:

1. Place the MapXtreme DVD in the DVD drive.
2. At the DVD Browser main page, click Install. The Install Description page displays.
3. Choose either **DEVELOPMENT INSTALL** to install the SDK or **DEPLOYMENT INSTALL** to install the runtime version. Depending on your selection, you will get the option to install either **Install SDK(x86, x64)/SDK(x86)** or **Install Runtime Environment (x86, x64)/Install Runtime Environment (x86)**.
4. Choose **Install SDK(x86, x64)** or **Install Runtime Environment**. At the Welcome dialog box, click Next to proceed. For deployment installations skip to [step 11](#).
5. You may also review the installation instructions and install sample data from this page.
6. At the Installer Welcome dialog box, read the information in the panel and click **NEXT** to proceed.
7. Choose to accept the License Agreement. Click **NEXT**. The Customer Information dialog box displays.
8. At the Customer Information dialog box, enter your user name and company name in the appropriate fields. Click **NEXT**. The Setup Type dialog box displays.
9. At the Setup Type dialog box, select **COMPLETE** or **CUSTOM**. Choose **CUSTOM** if you want to choose the features to be installed or to install to a location other than the

default (C:\Program Files\MapInfo\MapXtreme\X.x.x, where X.x.x is the version number.). Click **NEXT**. If you chose **COMPLETE** proceed to [step 11](#).

**10.** If you chose Custom in the previous step, select the components that you want to install, or click the **CHANGE** button to specify a new installation path. Click **NEXT**.

**11.** At the Ready to Install the Program dialog box, click **INSTALL**.

**12.** The Installing MapXtreme dialog box launches.

**13.** At the InstallShield Wizard Completed dialog box, check the **LAUNCH LEARNING RESOURCES** box to view learning resources at your fingertips, and then click **FINISH** to leave the software installer.

## 2 – Installer Dialog Reference

This chapter contains dialog descriptions and user interface definitions.

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# Change Current Destination Folder

This dialog allows you to change the destination for the product. It displays after you click the Change button on the Custom Setup dialog.

<b>Look in</b>	Select path of the installation.
<b>Up one level Button</b>	Click to move one level up.
<b>New Folder button</b>	Click to create a new folder.
<b>Folder Name</b>	Click the button to select a location for the installation.
<b>Help</b>	Click to display help for this dialog.
<b>OK</b>	Click to continue with the installation.
<b>Cancel</b>	Click to exit the installation wizard without installing the program.

## Custom Setup

The Custom Setup dialog enables you to specify which components you want to install. This dialog displays when you choose Custom from the Setup Type dialog. Features and their space requirements are described in the right-hand pane of the dialog.

Click on the icon next to an item in the list to change how the feature is installed.

<b>Install to</b>	This is the location where MapXtreme will be installed.
<b>Change</b>	Click the button to select a location where MapXtreme will be installed.
<b>Help</b>	Click to display help for this dialog.
<b>Space</b>	Click to display the Disk Space Requirements dialog that shows how much space is available for the installation. If a volume does not have enough space, it is highlighted in the list.
<b>Back</b>	Click to go back to the previous dialog.
<b>Next</b>	Click to proceed to the next dialog.
<b>Cancel</b>	Click to exit the installation wizard without installing the program.

## Custom Setup Tips

This dialog explains the icons that display next to a program feature in the Custom Setup dialog. Each icon indicates the installation state for the feature. Click OK to return to the Custom Setup dialog.

## Customer Information

The Customer Information dialog asks you for your name and the name of your organization.

<b>User Name</b>	Enter your name into the box.
<b>Organization</b>	Enter the name of your organization into the box.
<b>Help</b>	Click to display help for this dialog.
<b>Back</b>	Click to go back to the previous dialog.
<b>Next</b>	Click to proceed to the next dialog.
<b>Cancel</b>	Click to exit the installation wizard without installing the program.

## Disk Space Requirements

This dialog displays when you click on the Space button in the Custom Setup dialog. It shows the available disk space on each volume on your system. The highlighted volume(s) indicate that there is not enough disk space for the installation. Click OK to return to the Custom Setup dialog.

<b>Volume</b>	Shows available space.
<b>Help</b>	Click to display help for this dialog.
<b>OK</b>	Click to accept the space requirements.

## Files In Use

This dialog indicates any open applications that are affected by this installation. Close the application(s) and click Retry to restart the installation.

<b>Help</b>	Click to display help for this dialog.
<b>Retry</b>	Click to restart the installation.
<b>Ignore</b>	Click to skip the file.
<b>Exit</b>	Click to exit this dialog.

## License Agreement

The License Agreement enables you to specify that you accept the license agreement for the product. You must accept the license agreement to proceed with the installation.

<b>I accept the terms of the license agreement.</b>	Click to accept the terms of the license agreement. This is required to continue with the installation.
<b>I do not accept the terms of the license agreement.</b>	Click to reject the terms of the license agreement and exit the installation wizard.
<b>Help</b>	Click to display help for this dialog.
<b>Back</b>	Click to go back to the previous dialog.
<b>Next</b>	Click to proceed to the next dialog.
<b>Cancel</b>	Click to exit the installation wizard without installing the program.

## Out of Disk Space

This dialog displays when the destination location for the product does not have enough disk space. Choose to remove some files, install fewer features or change the destination.



<b>Help</b>	Click to display help for this dialog.
<b>OK</b>	Click to accept the space requirements.

## Program Maintenance

This dialog displays when the installer finds a copy of the program already installed on the system. Here you can perform three types of operations: modify which features are installed, repair errors in the program, and remove the program from your system.

<b>Modify</b>	Click to change which features are installed.
<b>Repair</b>	Click to repair errors in the program, such as corrupt files, shortcuts and registry entries.
<b>Remove</b>	Click to remove the program from your computer.
<b>Help</b>	Click to display help for this dialog.
<b>Back</b>	Click to go back to the previous dialog.
<b>Next</b>	Click to proceed to the next dialog.
<b>Cancel</b>	Click to exit the installation wizard without installing the program.

## Ready To Install the Program

This dialog displays when the installer is ready to install the program or modify the current installation. Click Install to proceed.

<b>Help</b>	Click to display help for this dialog.
<b>Back</b>	Click to go back to the previous dialog.
<b>Install</b>	Click to install the program.
<b>Cancel</b>	Click to exit the installation wizard without installing the program.

# Ready To Remove

This dialog displays when the installer is ready to remove the program from your computer. Click Remove to proceed.

<b>Help</b>	Click to display help for this dialog.
<b>Back</b>	Click to go back to the previous dialog.
<b>Remove</b>	Click to remove the program.
<b>Cancel</b>	Click to exit the installation wizard without installing the program.

# Setup Type

Here you indicate the type of installation you want. Choose Complete to install all program features or Custom to choose the features you want to install. Click Next to proceed. See [Custom Setup on page 13](#).

<b>Complete</b>	Click to install all program features.
<b>Custom</b>	Click to install individual program features.
<b>Help</b>	Click to display help for this dialog.
<b>Back</b>	Click to go back to the previous dialog.
<b>Install</b>	Click to install the program.
<b>Cancel</b>	Click to exit the installation wizard without installing the program.

## 3 – Removing MapXtreme

This chapter contains the procedures for removing or uninstalling MapXtreme from your computer.

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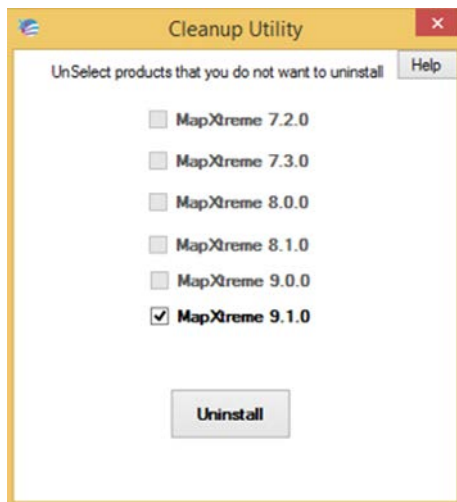


# Remove MapXtreme from your computer

Use the **Cleanup Utility** from the MapXtreme DVD Browser to remove or uninstall MapXtreme. The Cleanup Utility can uninstalls all the previous versions of MapXtreme installed on your computer, for example, 8.0.0, 8.0.1, 9.0.0, 9.1.0 etc.

To remove MapXtreme from your computer follow the steps below:

1. From the DVD Browser click **Cleanup Utility**, this utility reads the information from your computer and provides a list of MapXtreme versions installed on your computer. By default, all versions found on your computer are selected for uninstall.
2. Click the checkbox against the version you do not want to remove from your computer.



3. Click **Uninstall**.

The selected MapXtreme versions are removed from your computer. Uninstalling any MapXtreme version will remove all flavors of that version from your computer.



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