MapXtreme v7.2.0 Patch Notes

These Patch Notes provide information on bug fixes made to the MapXtreme 7.2.0 Maintenance release. It also covers known issues and other important information for this release.

Important: This is a full product release. You must uninstall your existing installation of MapXtreme before installing this release.

This document is a supplement to the MapXtreme Developer Guide. Refer to this document for release specific information and to the Developer Guide for overall product information and usage. The Developer Guide is available in three formats and from several locations, including:

- PDF version accessible from the Start > All Programs menu under MapInfo > MapXtreme 7.2.0 > Learning Resources browser
- PDF version on the Pitney Bowes Software Inc. website

Table of Contents

- What’s New ................................................................. 2
- Bug Fixes ................................................................. 2
- Known Issues ............................................................. 2
- Supported Environments ............................................ 6
- Installation Guidance .................................................. 7
What’s New

ECW

The ECW5.rhd handler is new for MapXtreme v7.2.0. It is used to open raster files in ecw, url, jp2, j2k formats.

By default ECW takes up to one quarter of available system RAM. To limit the maximum cache size, you can add an environment variable MI_ECW_MAX_CACHE for your system. The value must be in bytes and must be greater than 200 MB (209715200 bytes) and less than one quarter of RAM. If MI_ECW_MAX_CACHE is set and value is less than 200 MB than MAX cache will be set to 200 MB for ECW handler.

New Limit to Maximum Number of Open Files

MapXtreme supports a new limit to the number of files that can be open at the same time. The previous limit was 507 files. To increase the number, add the MI_MAX_FILE_HANDLES variable to your environment path and set the value to between 512 and 2040. If this variable is not set or its value is less than 512 or greater than 2040, the default limit will be 512 file handles.

New System Support

- SQL 2012 Support
- Windows 8.1
- Windows Server 2012 R2

Bug Fixes

Individual Value themes where a character field contained a numeric value are now working correctly.

Custom distribution method for range themes in MapXtreme now matches the behavior in MapInfo Professional.

A memory leak in MapXtreme 7.1 was resolved.

A memory issue with ECW raster files has been resolved.

Known Issues

Exporting/Printing Transparent Bitmaps

A problem with exporting and printing transparent bitmap fill patterns exists on Windows 7 and Windows Server 2008. It is due to a problem in GDIPPlus.dll 1.1 that uses the newer Windows Imaging Component on those platforms.

To workaround this issue, use a manifest to force the use of GDI+ 1.0. Additionally you can set the System.Drawing.Graphics object’s SmoothingMode property to AntiAlias, CompositingQuality to HighQuality, and InterpolationMode to HighQualityBicubic. For more information see:


Known Issues

Infrastructure

**64-bit Applications on Visual Studio Development Server.** Visual Studio 2010 does not support running 64-bit web applications in Development Server. An incorrect format exception is returned when running trying to run 64 bit applications.

**ACE Drivers for Microsoft Access on 64-bit:** The MS Access Database Engine contains components that facilitate the transfer of data between MS Office applications and non-Office applications. MapXtreme does not provide this redistributable. See [http://www.microsoft.com/en-us/download/details.aspx?id=13255](http://www.microsoft.com/en-us/download/details.aspx?id=13255) for usage, limitations. On 32-bit applications you can continue to use the Jet driver which may perform better in multi-thread mode.

**Running .NET Framework 2 application on 64-bit Windows:** When using the grant set `<trust level="Full" legacyCasModel="true" />`, an error message “Loading this assembly would produce a different grant set from other instances” is presented when you run a .NET Framework 2.0-based application on a computer that is running a 64-bit version of Windows. See [http://support.microsoft.com/kb/2282372](http://support.microsoft.com/kb/2282372).


**Merge Modules additional requirements:** If you are creating your own installer with our merge modules (not available in the Trial versions), you must add the following prerequisites: .NET Framework 4.0 (not the client profile), MSXML 6.0 and Visual C++ 10.0 CRT (x86 and x64). x86 is needed for both x86 and x64 apps.

Data Access

**Column Named ‘NOT’:** There is a MapXtreme issue parsing SQL statements containing columns named ‘NOT’.

Rasters and Grids

**GRD and GRC Limitations:** MapXtreme 64-bit cannot open .GRD and .GRC files without a .TAB file. If .TAB is present these files are opened as rasters only using the vmgrid.rhl. They will not be opened as grid files. This does not apply to 32-bit MapXtreme.

**Raster images in Multi-thread Mode:** An unhandled exception may occur when attempting to open an ECW raster image when MapXtreme is running on 30 or more threads.

**Re-projecting palete-based images with 256 colors:** When image re-projection of a raster is turned on, it displays in MapXtreme with a black border. The workaround for this issue is to convert the image to non-palette based or reduce the image colors to below 256.

**Raster/Grid Handlers and Oracle:** MapXtreme may be unable to load some raster and grid handlers when the Oracle client is installed. This can occur when running a 32-bit MapXtreme application, such as Workspace Manager on either a 32-bit or 64-bit operating system. To work around this issue, add C:\Program Files\Common Files\MapInfo\MapXtreme\7.1.0\RasterGridHandlers to the beginning of your system PATH variable.

Oracle Arcs and Circles

When MapXtreme reads Oracle arcs or circles, they are converted to a polygon representing the arc or circle. The resolution (# of points) defaults to 40, up from 20 prior to this release. You can specify a different number of nodes in your app.config or web.config by adding the following:

```
<configuration>
  <appSettings>
    <add key="MapInfo.Data.ArcNodeResolution" value="1000"/>
  </appSettings>
</configuration>
```

Note that using a high number can affect performance.
Known Issues

ASP.NET Master Pages

The MapControl must be wrapped in a relative positioned <div> tag:

```html
<div id="mapDiv" style="position:relative;">
  <cc1:MapControl ID="MapControl1" runat="server" Height="300" Width="300"
  MapAlias="map1" />
</div>
```

Thematic Mapping

**ModifyRangedThemeSettings control:** The ModifyRangedThemeSettings control loses the appropriate count assigned to each Custom range when the number of ranges is increased.

**Quantile method for Ranged Theme:** A memory leak has been encountered while trying to create ranged theme based upon Quantile method.

**Custom Legends and Workspaces:** MapXtreme’s workspace persistence format does not support saving custom legends. Custom legends are saved through serialization, however, not to the workspace.

**Printing Pie and Bar Legends:** MapXtreme does not properly display the legend of bar and pie theme when viewed in Print Preview.

MI SQL Time Functions

**Date and Time Functions:** The MapInfo SQL functions `DateTimeToString` and `StringToDateTime` do not work correctly.

The documentation for `StringToTime()` and `TimeToString()` functions is incorrect. The following information is correct.

**StringToTime**

Creates a Time from a character string.

Syntax

`StringToTime (str)`

Arguments

`str` is a string representation of a time

`StringToTime` cannot perform conversions on DateTime strings. Use `StringToDateTime`.

**TimeToString**

Converts a time into a string.

Syntax

`TimeToString ( time, fmt)`

Arguments

`time` is a time.

`fmt` is a string identifying the format of time.

Remarks

TimeToString does not work with DateTime values.
Known Issues

Samples

Samples on 64-bit installations: Samples are installed under both Program Files and Program Files (x86) folders.

Documentation

MapXtreme Help Integration: The Developer Reference (API documentation) may not integrate into Visual Studio 2010 (SP1) when installing MapXtreme SCP for Japanese or Chinese on a Japanese or Chinese operating system, respectively, with an English version of Visual Studio. An exception is thrown, however the MapXtreme installation completes.

The Developer Reference may not integrate into Visual Studio 2010 (SP1) when installing MapXtreme for English, Japanese, or Chinese on an English operating system under the following conditions:

- Visual Studio has not been run at least once, or
- Visual Studio Help Viewer is set to use online help.

To remedy this, set your Help Viewer to use local help and then manually integrate the Developer Reference following the procedure below:

1. From the Help > Manage Help Settings in Visual Studio, choose Install Content from Disk.
2. Navigate to the Help\Documentation folder under your MapXtreme installation. Select HelpContentSetup.msha and click Open, then Next.
3. Under the Actions column for MapXtreme Developer Reference 7.1.0, click Add, then click the Update button.
4. At the Security dialog, click Yes to proceed.
5. At the conclusion of the update, click Finish. Click Exit to leave the Help Library Manager.

MapXtreme Developer Guide and MapInfo SQL Reference: These components of the MapXtreme documentation set are not integrated into Visual Studio. They are available from the Learning Resource browser under the Documentation section. To open Learning Resources, from the Start menu navigate to MapInfo > MapXtreme 7.1.0 > Learning Resources.

# Supported Environments

Pitney Bowes Software Inc. has tested and supports MapXtreme on the following.

| Operating Systems | • Windows 8.0 and 8.1  
|                   | • Windows 7 (x86, x64)  
|                   | • Windows Vista with SP2 (x86, x64)  
|                   | • Windows Server 2012 R2  
|                   | • Windows Server 2012  
|                   | • Windows Server 2008 R2 (x64)  
|                   | • Windows Server 2008 with SP2 (x86, x64)  
|                   | • Windows Server 2003 R2 with SP2 (x86, x64)  
|                   | • Windows Server 2003 with SP2 (x86, x64)  
|                   | • Windows XP with SP3 (x86, x64)  

| Architecture | • 64-bit  
|             | • 32-bit  

| Development Framework and IDE Support | • Microsoft .NET Framework 4.0  
|                                       | • Visual Studio 2010 with SP1 (Professional, Premium, Ultimate)  

| Browsers | • Internet Explorer 8.0, 9.0**  
|          | • Firefox 3.5 - 13  
|          | • Chrome 20  

For web application and deployment:  
• IIS 6 (Windows Server 2003)  
• IIS 7 (Windows Vista, Windows Server 2008, and Windows 7, Windows 8)  

| Supported databases | • Microsoft Access 2007 and Excel 2007  
|                     | • Microsoft Access 2003  
|                     | • Oracle 11G (11.1.0.6.0 and 11.1.0.7.0)  
|                     | • Oracle 10G, 10GR2  
|                     | • Microsoft SQL Server 2012 (with SQL Native Client 11)  
|                     | • Microsoft SQL Server 2008 (with SQL Native Client 10)  
|                     | • MapInfo SpatialWare® 4.9 and 4.9.2 for Microsoft SQL Server 2005  
|                     | • MapInfo SpatialWare® 4.9.2 for Microsoft SQL Server 2008 32- and 64 bit editions  

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.

ℹ️ MapXtreme does not support the Express Editions of Microsoft Visual Studio.
Minimum System Requirements

| Memory | Windows 7, Windows 8: 1 gigabyte (GB) RAM (32-bit), 2 GB RAM (64-bit)
|        | Windows Vista: 1 GB RAM
|        | Windows Server 2012: 1 GB RAM
|        | Windows Server 2008: 512 megabytes (MB) RAM
|        | Windows Server 2003: 256 MB RAM
|        | Windows XP: 256 MB RAM
| Processor | Windows Vista, Windows 7, Windows 8: 1 GHz processor
|        | Windows Server 2008/2012: 1.6 GHz (x64) processor
|        | Windows XP: 800-MHz Pentium III-class processor
| Video Card | Graphics card that supports at least 256 colors

Installation Guidance

**Important:** This is a full product maintenance release. You must uninstall your existing installation of MapXtreme before installing this version.

**Installer:** We recommend using the x64 installers on x64 platforms; even if your application is x86. The x64 installers will install the features/components needed for x86 development and runtimes. Currently we do not support having two versions of our installations. For example if you have version 7.1.0 install and want to use the x64 version, you have to uninstall the x86 version, followed by installing the x64 version.

**Installer - Run As Administrator:** When installing MapXtreme on Windows 7, Windows 2008 Server and Vista, be sure that you specifically choose Run As Administrator from the shortcut menu. You must also be an administrator on the installation target.

**Run Visual Studio as Administrator:** Be sure that you are running Visual Studio as administrator for full privileges in the development environment.

**How to Register MapInfo.CoreEngine in COM+:**

Installing MapXtreme (x64) creates two COM+ applications - x86 and x64. If both objects (via Component Services) are not present, run the following commands in the specified given:

```bash
C:\WINDOWS\Microsoft.NET\Framework64\v4.0.30319\REGSVCS.EXE /u /quiet
C:\WINDOWS\Microsoft.NET\assembly\GAC_64\MapInfo.CoreEngine\v4.0_7.1.0.228__93e298a0f6b95eb1\MapInfo.CoreEngine.dll

C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319\REGSVCS.EXE /u /quiet
C:\WINDOWS\Microsoft.NET\assembly\GAC_32\MapInfo.CoreEngine\v4.0_7.1.0.228__93e298a0f6b95eb1\MapInfo.CoreEngine.dll

C:\WINDOWS\Microsoft.NET\Framework\v4.0.30319\REGSVCS.EXE /quiet /noreconfig
C:\WINDOWS\Microsoft.NET\assembly\GAC_32\MapInfo.CoreEngine\v4.0_7.1.0.228__93e298a0f6b95eb1\MapInfo.CoreEngine.dll

C:\WINDOWS\Microsoft.NET\Framework64\v4.0.30319\REGSVCS.EXE /quiet /noreconfig
C:\WINDOWS\Microsoft.NET\assembly\GAC_64\MapInfo.CoreEngine\v4.0_7.1.0.228__93e298a0f6b95eb1\MapInfo.CoreEngine.dll
```
Re-integrating MapXtreme Developer Reference into Visual Studio 2010:

1. From the Help > Manage Help Settings in Visual Studio, choose Install Content from Disk.
2. Navigate to the Help\Documentation folder under your MapXtreme installation. Select HelpContentSetup.msha and click Open, then Next.
3. Under the Actions column for MapXtreme Developer Reference 7.1.0, click Add, then click the Update button.
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