



MapXtreme Version 9.0

Release Notes

These Release Notes provide information on enhancements and updates made to MapXtreme 9.0. It also covers bug fixes, known issues, and other important information for this release.

This document is a supplement to the MapXtreme Developer Guide. In this document we mention release specific information, refer to Developer Guide for complete product information and usage. The Developer Guide is available from these locations:

- PDF version accessible from the Start > All Programs menu under MapInfo > MapXtreme 9.0 > Learning Resources browser
- [PDF version](#) on the Pitney Bowes website

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MapXtreme Version 9.0 Release Notes

MapXtreme 9.0 is a cumulative release update that also include updates supplied with version 8.1.

This document provides information on new and enhanced features that are introduced in MapXtreme 9.0. It also contains information about resolved issues and known issues that are important to MapXtreme users.

For more details on these features, refer to MapXtreme Version 9.0 Developer Guide.

What's New in 9.0

This release provides the following new and updated features.

Vector Tile Server

MapXtreme 9.0 provides the ability to deploy an XYZ Vector Tile Server. It supports the open-standard Mapbox vector tile (MVT) format for tile generation. This format can be used as an alternative to raster image formats (PNG, GIF, and JPG/JPEG) in Map Tiling Service (MTS) and Web Map Tile Service (WMTS).

Vector tiles can be rendered on request by a client, such as a web browser, a mobile app, and a desktop GIS application. They can also be rendered on the fly on a server.

Custom Resolution Raster TileServer Client

MapXtreme 9.0 now supports consumption of tile servers which provide tiles of custom resolution at different zoom levels. Unlike standard tile servers, these tile servers provide a level-wise list of resolutions, which do not necessarily differ by a factor of two with increasing zoom level.

You can consume such tile server either by a combination of .TAB/.XML files or via APIs.

Location Intelligence API Integration

You can now use Pitney Bowes' Location Intelligence APIs to build innovative location-based applications. These APIs grant developers access to Pitney Bowes' extensive collection of industry-trusted location data. For more information on Location Intelligence APIs visit, [this website](#).

MapXtreme LI API Integration enables you seamless execution of token management for client application to implement the OAuth 2.0-based security and it also provides you a built-in Geometry Conversion. Since Location Intelligence API gives response in JSON format. If the response contains spatial information, MapXtreme converts the spatial data or geometries from the JSON response into MapInfo geometry.

GeoJSON Sample Data Provider

In this release we have added a GeoJson Data Provider project which demonstrates how the MapXtreme Extensible Data Provider classes and interfaces can be extended to consume GeoJSON data.

API to Export Vector Data to GeoJSON format

MapXtreme now provide a new ExportToGeoJSONFile API to save any vector table content as GeoJson file.

DistanceMapTool

The DistanceMapTool allows you to get the distance between two or more points by clicking on the map. The tool gets activated when you click on a map on different points. Double clicking on a point completes the process and gives distance between start to end points.

Support for Alpha Channel in RGBA (32-bit per pixel) raster files

MapXtreme now supports images with Alpha channel transparency. Alpha channels are masks through which you can display images. The alpha channel is an 8-bit channel, which means it has 256 levels of gray from 0 (black) to 255 (white). The resulting image is called RGBA (RGB+A, A means alpha channel).

All supported imagery files will now support Alpha channel for rendering.

What's Changed

- MapInfo.TileServer.dll is now appropriately renamed to MapInfo.TileServer.Client.dll. References to MapInfo.TileServer.dll in your applications will now need to be changed to MapInfo.TileServer.Client.dll.

- For RGBA raster images (32-BPP), now image class returned by RasterInfo call would be ARGB instead of RGB. Opening RGBA raster images in a map will set translucency and anti-aliasing ON. If you disable it, the Alpha channel will not be honored.

i Important: We plan to discontinue the 32-bit installer for development and deployment in a future release. You are requested to upgrade to the 64-bit installer.

Bug Fixes

Issue Number	Description
MXT-8551	Error in opening some TIFF raster file. Resolution - Fixed.
MXT-8516, MXT-7900	Raster maps are getting shrunk on being printed on larger page sizes (like A2, A1, A0). Resolution - Fixed.
MXT-8435	An error occurs if double-byte characters are found in the folder path where ECW data is saved. Resolution - Fixed.
MXT-8411, MXT-8060,	When a new node is added on top of an existing one by snapping, it does not precisely overlap. Resolution - Fixed.
MXT-8286	ScaleBarAdornment not being displayed at the position specified by the Location property. Resolution - Fixed.
MXT-8257	MapInfo.Engine.Selections.DefaultSelection retaining empty result-sets. Resolution - Fixed.

Issue Number	Description
MXT-8229	Application becomes unresponsive on changing the spacing of a Graticule Layer. Resolution - Fixed.
MXT-8064	Geometry processing that uses libspw_mi.dll generates debugging data into D:\temp. Resolution - Fixed.
MXT-7857	Issue found in MapInfo component trying to create new FeatureGeometryCollection. Resolution - Fixed.
MXT-7015	Raster maps not being drawn as expected with RasterReprojection enabled. Resolution - Fixed.

Known Issue

- Before installing itself, MapXtreme 9.0 installer will attempt to install .Net Framework 4.6.1 and Microsoft Visual C++ 2015 Redistributables if they are not already present in the system. This may fail on Windows 8.1, Windows 2012 R2 and Windows 10 due to other updates required by Visual Studio 2015. Please see Microsoft Knowledge Base articles KB2919355 (<https://support.microsoft.com/en-in/help/2919355/windows-rt-8.1,-windows-8.1,-and-windows-server-2012-r2-update-april-2014>) and KB2887595 or contact Microsoft Support for the resolution.

Installation Requirements for 9.0

Pitney Bowes has tested and supports MapXtreme 9.0 on the following:

Operating Systems	Windows 10 (x86, x64) Windows 8 and 8.1 (x86, x64) Windows 7 (x86, x64) 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 4.6.1 Visual Studio 2017 Visual Studio 2015
Browsers	Internet Explorer 10 and above** Firefox 3.5 and higher Chrome 20 and higher
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 2008R2, and Windows 7)
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 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.

MapXtreme Version 8.1 Release Notes

What's New

WFS 2.0 Server and Client Support

WFS Server

MapXtreme has extended the support of WFS to version 2.0 Simple Profile. So now MapXtreme supports WFS 2.0 Simple Profile and WFS 1.0 Basic Profile both. WFS 2.0 Simple Profile supports following requests:

- GetCapabilities
- GetFeature
- DescribeFeatureType
- ListStoredQueries
- DescribeStoredQueries

Sample configuration for WFS 2.0 has been provided on the physical media at the path "WFS_Config\WFS2.0".

WFS Client

MapXtreme WFS Client can now consume WFS 1.0 and WFS 2.0 servers. Sample WFS Client application, which is provided along with the installation, has been updated to consume WFS 2.0 Servers.

For more information refer to chapter 23, Web Feature Service in the MapXtreme 8.1 Developer Guide.

WMTS Client

MapXtreme now comes with a WMTS Client through which users can consume an external WMTS server in MapXtreme desktop and web applications. It can be achieved in the following two ways.

- WMTS maps can be opened in MapControl via Tile Server TAB/XML files generated by MapInfo Pro similar to Bing tile server tab file.

For more information, refer section "WmtsClient Class" in Chapter 18 - of MapXtreme 8.1 Developer Guide.

- A new MapInfo.Wmts.WmtsClient API has been introduced to enable users to execute GetCapabilities, GetTile and (optional) GetFeatureInfo operations. For more information refer to Chapter 25 – Web Map Tile Service of MapXtreme 8.1 Developer Guide.

OGC Certification

MapXtreme 8.1 is OGC certified for WFS 1.0.0, WFS 2.0.0, WMS 1.1.1 and 1.3.0.

.NET Framework

.NET Framework support has been updated to 4.6.1.

Miscellaneous Updates

- A new Opacity property has been added in the FeatureLayer to allow users to set the opacity of vector layers.
- A new constructor has been introduced to facilitate creation of ScaleBarAdornmentControl with transparent backgrounds.
- System tables will not be visible when connection to Oracle Server will be made using Workspace Manager.
- Path of Bitmap Symbols have been changed to “C:\ProgramData” due to permission constraints on ProgramFiles folder.

MapInfo Professional Interoperability

Opacity Support on Vector Layer

MapXtreme now supports setting of Opacity on Vector Layers. A new translucency track-bar has been added in the View tab of Layer Control to facilitate this. As mentioned before, the opacity can also be set programmatically via the new Opacity property introduced in the FeatureLayer class.

What's Changed

- MapXtreme 8.1 Workspace Manager comes with a new refreshing look.
- The icons of the toolbar buttons registered in Visual Studio controls have also been updated.

Bug Fixes

- Memory Leak has been fixed when a control is assigned to Left Button Tool

- Features added by Add Geometry Tools were not getting drawn consistently
- If .Tab, .Map, .DAT, .IND, .ID file names contain '.' character then file names were getting truncated
- When re-indexing of the Geometries is done then Z&M values of geometries was not being updated
- Raster images were not getting displayed properly with Raster re-projection
- POSTGRES Data Provider sample was not able to draw tables and was throwing an error
- "Raster Reprojection" setting were not preserved during check/uncheck of Raster Map in Layer control
- Title Adornment was getting clipped when the font is bold
- Tracing polylines with snap enabled shows that the lines are not correct when zoomed in using MapXtreme. A new property has been introduced on SnapToNode event to get the MapCoordinates of layer on which Snap has been applied.
- Scale Bar value was coming in decimal despite setting Rounding property to "True"
- Workspace containing LegacyText was throwing an exception "*Error loading workspace: Unsupported geometry type encountered: mxp:Style*"
- Insert command did not work in TableInfoAdoNet having a FeatureGeometry column
- Issues with GraticuleLayer Drawing.
 - a. When LabelWithDisplayCoordsysUnit property set to false, minor lines labels are drawn at same spacing as the major lines.
 - b. When LabelWithDisplayCoordsysUnit property set to true, some minor lines labels are missed out.

Known Issues

- The newly added translucency track-bar in the View tab of LayerControl indicates the previously set translucency value when a Raster Layer is selected in the layer tree. The track-bar works only for vector layers and is disabled when a Raster Layer is selected, however, it indicates the previously set translucency value, which is not always 0%. This can be misleading as this track-bar doesn't affect the opacity of Raster Layers.
- Before installing itself, MapXtreme 8.1 installer will attempt to install .Net Framework 4.6.1 and Microsoft Visual C++ 2015 Redistributables if they are not already present in the system. This may fail on Windows 8.1, Windows 2012 R2 and Windows 10 due to other updates required by Visual Studio 2015. Please see Microsoft Knowledge Base articles KB2919355 (<https://support.microsoft.com/en-in/help/2919355/windows-rt-8.1,-windows-8.1,-and-windows-server-2012-r2-update-april-2014>) and KB2887595 or contact Microsoft Support for the resolution.

- In Visual Studio 2015, while adding references of MapXtreme 8.1 assemblies to a new C# or VB project, the “CopyLocal” property of assemblies is True by default. It is advisable to set the same to False after adding the assemblies.
- The newly added 64-bit raster handler for MRR files, i.e., MIRasterHandler.rhz, can also open vertical mapper (.grd and .grc) files. However, since MIRasterHandler.rhz handler treats grid files as raster files, only raster related functions, such as MI_ImageFile, MI_ImagePixelWidth and MI_ImagePixelHeight, can be used. The grid related functions, such as MI_GridValueAtPixel, MI_GridMinValue and MI_GridMaxValue will not work on .grd and .grc files opened by the MIRasterHandler.rhz handler.

Installation Requirements

Pitney Bowes has tested and supports MapXtreme 8.1 on the following:

Operating Systems	Windows 10 (x86, x64) Windows 8 and 8.1 (x86, x64) Windows 7 (x86, x64) 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
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Browsers	Internet Explorer 10 and above** Firefox 3.5 and higher Chrome 20 and higher
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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 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
<p>* Recommended development environments (IDE). Others can be used, however, the MapXtreme installer will not integrate its templates, samples, and help system.</p> <p>** The MapXtreme Learning Resources displays in Internet Explorer automatically, regardless of your default browser setting. This will not change your default browser setting.</p>	

Minimum System Requirements

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 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 2008/2012: 1 GHz processor
Video Card	Graphics card that supports at least 256 colors