MapXtreme
Version 9.1

Release Notes

These Release Notes provide information on enhancements and updates made to MapXtreme 9.1. It also covers bug fixes 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 9.1 > Learning Resources browser
- PDF version on the Pitney Bowes website

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Table of Contents:

1. MapXtreme Version 9.1 Release Notes 4
   1.1 What's New in 9.1 4
   1.2 Bug Fixes 5
   1.3 Known Issues 6
   1.4 Installation Requirements 6
   1.5 New Coordinate Systems and Projections 4

   2.1 What's New 8
   2.2 What's Changed 9
   2.3 Bug Fixes 10
   2.4 Known Issue 11
   2.5 Installation Requirements for 9.0 11
MapXtreme Version 9.1 Release Notes

This document provides information on new and enhanced features that are introduced in MapXtreme 9.1. It also contains information about resolved issues that are important to MapXtreme users.

What’s New in 9.1

This release provides the following new features.

Export/Import Theme and Style

MapXtreme now enables you to export existing themes and styles applied on any layer, in XML format. This exported theme and style XML can be imported on any similar layer when required.

This is particularly useful when you create and apply complex display settings on a layer and you want to preserve it for reuse.

There are two ways to use this feature:

• Using the context menu of the Layer Control
• Using MapXtreme API interface

For more details, refer to MapXtreme Version 9.1 Developer Guide.

New Coordinate Systems and Projections

Coordinate System and Datum Additions in this version:

• Geocentric Datum of Australia (GDA 2020 Datum) #1028

For Longitude Latitude systems:

• "Longitude / Latitude (Australia GDA 2020)\p7842", 1, 1028

For Map Grid of Australia:

"--- Map Grid of Australia 2020 (MGA2020) ---"

• "MGA2020 Zone 46\p7846", 8, 1028, 7, 93, 0, 0.9996, 500000, 10000000
• "MGA2020 Zone 47\p7847", 8, 1028, 7, 99, 0, 0.9996, 500000, 10000000
• "MGA2020 Zone 48\p7848", 8, 1028, 7, 105, 0, 0.9996, 500000, 10000000
• "MGA2020 Zone 49\p7849", 8, 1028, 7, 111, 0, 0.9996, 500000, 10000000
• "MGA2020 Zone 50\p7850", 8, 1028, 7, 117, 0, 0.9996, 500000, 10000000
Bug Fixes

<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MXT-4754</td>
<td>Printing behavior of Legends is incorrect.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution</strong> - Fixed.</td>
</tr>
<tr>
<td>MXT-8721</td>
<td>Timeout issue with WMTS layer.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution</strong> - Fixed.</td>
</tr>
<tr>
<td>MXT-8765</td>
<td>Loading WMTS From *.TAB fails.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution</strong> - Fixed.</td>
</tr>
<tr>
<td>MXT-6980</td>
<td>Problem with graticule layer refresh - lines not drawn.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution</strong> - Fixed.</td>
</tr>
<tr>
<td>MXT-8828</td>
<td>WMS layer stops displaying in the workspace when used with Bing Layer.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution</strong> - Fixed.</td>
</tr>
<tr>
<td>MXT-4097</td>
<td>More than one Labels get selected at a time even without using the Ctrl button.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution</strong> - Fixed.</td>
</tr>
</tbody>
</table>
Known Issues

This release contains the following known issues.

1. When multiple versions of MapXtreme co-exists on a computer such as MapXtreme 9.0 and MapXtreme 9.1, Visual Studio version 2015 and 2017 show only MapXtreme 9.1 components in the design Toolbox.

   To work around this issue, add the missing components by following the steps below:
   For example, if you create a sample for MapXtreme 9.0 then you can add the missing components from the toolbox Items.
   • Open Visual Studio.
   • In the Toolbox, select the tab where you want to add the control.
   • Right-click the Toolbox and select Choose Items from the shortcut menu. The Choose Toolbox Items dialog box opens.
   • Select and add the missing components using the dialog box.
   • Click OK.

2. When multiple versions of MapXtreme co-exists on a computer such as MapXtreme 9.0 and MapXtreme 9.1, Merge Module (Setup project) for 9.1.0 version results into the write to access violation error (Error code 2908) during installation.

   To work around this issue, exclude all *_9.0.0.msm files from the detected dependency of setup project, while creating the setup.

Installation Requirements

Pitney Bowes has tested and supports MapXtreme 9.1 on the following:

<table>
<thead>
<tr>
<th>Operating Systems</th>
<th>Windows 10 (x86, x64)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Windows 8 and 8.1 (x86, x64)</td>
</tr>
<tr>
<td></td>
<td>Windows 7 (x86, x64)</td>
</tr>
<tr>
<td></td>
<td>Windows Server 2016</td>
</tr>
<tr>
<td></td>
<td>Windows Server 2012 R2 (x64)</td>
</tr>
<tr>
<td></td>
<td>Windows Server 2012 (x64)</td>
</tr>
<tr>
<td></td>
<td>Windows Server 2008 R2 (x64)</td>
</tr>
<tr>
<td></td>
<td>Windows Server 2008 with SP2 (x86, x64)</td>
</tr>
<tr>
<td>Architecture</td>
<td>64-bit</td>
</tr>
<tr>
<td></td>
<td>32-bit</td>
</tr>
</tbody>
</table>
| 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 9.1 Release Notes

MapXtreme Version 9.0 Release Notes

For more details on these features, refer to MapXtreme Version 9.1 Developer Guide.

What’s New

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


• 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.

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

<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Description</th>
<th>Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>MXT-8551</td>
<td>Error in opening some TIFF raster file.</td>
<td>Fixed</td>
</tr>
<tr>
<td>MXT-8516, MXT-7900</td>
<td>Raster maps are getting shrunk on being printed on larger page sizes (like A2, A1, A0).</td>
<td>Fixed</td>
</tr>
<tr>
<td>MXT-8435</td>
<td>An error occurs if double-byte characters are found in the folder path where ECW data is saved.</td>
<td>Fixed</td>
</tr>
<tr>
<td>MXT-8411, MXT-8060</td>
<td>When a new node is added on top of an existing one by snapping, it does not precisely overlap.</td>
<td>Fixed</td>
</tr>
<tr>
<td>MXT-8286</td>
<td>ScaleBarAdornment not being displayed at the position specified by the Location property.</td>
<td>Fixed</td>
</tr>
<tr>
<td>MXT-8257</td>
<td>MapInfo.Engine.Selections.DefaultSelection retaining empty result-sets.</td>
<td>Fixed</td>
</tr>
<tr>
<td>MXT-8229</td>
<td>Application becomes unresponsive on changing the spacing of a Graticule Layer.</td>
<td>Fixed</td>
</tr>
<tr>
<td>MXT-8064</td>
<td>Geometry processing that uses libspw_mi.dll generates debugging data into D:\temp.</td>
<td>Fixed</td>
</tr>
</tbody>
</table>
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:

<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>MXT-7857</td>
<td>Issue found in MapInfo component trying to create new FeatureGeometryCollection.</td>
</tr>
<tr>
<td></td>
<td>Resolution - Fixed.</td>
</tr>
<tr>
<td>MXT-7015</td>
<td>Raster maps not being drawn as expected with RasterReprojection enabled.</td>
</tr>
<tr>
<td></td>
<td>Resolution - Fixed.</td>
</tr>
</tbody>
</table>

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- 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)

<table>
<thead>
<tr>
<th>Supported databases</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Microsoft Access 2007 and Excel 2007</td>
</tr>
<tr>
<td></td>
<td>Microsoft Access 2003</td>
</tr>
<tr>
<td></td>
<td>Oracle 11G (11.1.0.6.0 and 11.1.0.7.0)</td>
</tr>
<tr>
<td></td>
<td>Oracle 10G, 10GR2</td>
</tr>
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<td></td>
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</tr>
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<td></td>
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