



MapXtreme 2004 v6.2 Release Notes

May 2005

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Introduction

This document describes the [What's New](#), [Bug Fixes](#) and [Known Issues](#) for this release of MapXtreme 2004.

This document is a companion to the MapXtreme 2004 Developer Guide and the Supplement Guide v6.1. This document and the Supplement for v6.1 cover important information since the release of the Developer Guide.

Installation

The MapXtreme Developer Guide provides information on system requirements, types of installations (SDK or Deployment) and the steps to install MapXtreme 2004. Be sure to review Chapter 2: Getting Started for complete details. See also the Online Help that is accessible from any of the installation dialogs.

.NET Framework SP1 Installation

MapXtreme 2004 v 6.2 requires the .NET Framework 1.1 with Service Pack 1 (SP1). The installer will detect if the service pack is not found and prompt you with a Yes/No dialog to install it. Be sure to click Yes. If you click No, the installation will fail.

Important Installation Note for Users of Windows 2003 Server:

Due to a bug in the installer that is beyond our control, the installer will not install SP1 on systems using Windows Server 2003, even if you have clicked Yes when prompted, as described above. You must install the service pack manually. The service pack is provided on the product CD in \root\install and on our website. You can install the service pack before or after the MapXtreme 2004 installation.

Upgrading to MapXtreme 2004 v6.2

An upgrade of MapXtreme 2004 v6.2 installs into its own directory. It will not overwrite a previous version. This allows you to maintain side-by-side installations of v6.2 with v6.0 (Build 75) and/or v6.1 (Build 104). A side-by-side installation requires that you copy your old license file to the 6.2 location.

Follow the instructions on the MapXtreme website for downloading v6.2. You must have a previous version of MapXtreme 2004 installed in order to install v6.2.

Note, when using a side by side install (e.g., v6.1 and v6.2 on the same machine), you must close Visual Studio before opening a project of a different type. For web applications, you will need to reset IIS (use the iisreset.exe command in a console window or from the Start > Run menu option).

Updating Existing Desktop Applications

Desktop applications created with v 6.0 or 6.1 can be recompiled if you are upgrading to v6.2. Controls may have to be re-added to the form.

Alternatively, you can redirect your applications to use the new 6.2 assemblies without recompiling. This technique instructs your application to look for an upgraded version of a referenced assembly. See the MapXtreme 2004 v6.1 Developer Supplement Guide for instructions (available at <http://extranet.mapinfo.com/support/documentation/manuals.cfm#mapxtremet>).

Updating Existing Web Applications

For web applications created with v 6.0 or 6.1 you must change the project version numbers from the old version number to the current version. Use the form 1.1.0.118 where 118 is the 6.2 build number. To determine the build number for any installed version, select **Start > Run** and type **assembly**.

Recompiling Web Applications

If you are recompiling an existing web application (or creating a new web application) the ExitProcess key should be omitted or set to false. For example:

```
<add key="MapInfo.Engine.Session.ExitProcess" value="false" />
```

This is a change from v 6.0 Build 75, in which it was necessary to set this key to true.

To recompile a web application to use v6.2:

1. Stop IIS and close all instances of Visual Studio.
2. Open the .cs or .vb project file in a text editor, such as Notepad.
3. Change AssemblyFolderKey = "hklm\mapinfo.net" to AssemblyFolderKey = "hklm\mapinfo.net 6.2". If no key is present, add it for any MapInfo assemblies. There are two ways the assembly references may be made in the project file. You may find entries similar to one of the following:

- ```
<Reference
 Name = "MapInfo.CoreTypes"
 AssemblyName = "MapInfo.CoreTypes"
 HintPath = "..\..\Program Files\Common
 Files\MapInfo\MapXtreme\6.1\MapInfo.CoreTypes.dll"
 AssemblyFolderKey = "hklm\mapinfo.net"
/>
```
- ```
<Reference
  Name = "MapInfo.CoreTypes"
  AssemblyName = "MapInfo.CoreTypes"
  HintPath = "..\..\Program Files\Common
  Files\MapInfo\MapXtreme\6.1\MapInfo.CoreTypes.dll"
/>
```

After you make necessary changes to the file, it might look like:

- ```
<Reference
 Name = "MapInfo.CoreTypes"
 AssemblyName = "MapInfo.CoreTypes"
 HintPath = "..\..\Program Files\Common
 Files\MapInfo\MapXtreme\6.2\MapInfo.CoreTypes.dll"
 AssemblyFolderKey = "hklm\mapinfo.net 6.2"
/>
```
4. Open WebForm1.aspx in your text editor. Change any version references to 1.1.0.118 where 118 is the v6.2 build number.
  5. Open web.config and change any references to 1.1.0.118.
  6. Restart IIS.
  7. Reopen the project in Visual Studio and recompile.
  8. Use Task Manager to stop and restart aspnet\_wp.exe; in Windows 2003-specific operating systems, the aspnet process is named w3wp.exe.

## Upgrading WMS/WFS Servers

To use the WMS and WFS servers in v6.2, open each web.config file and change any references to 1.1.0.118 where 118 is the current build number.

## What's New

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The following are new additions to MapXtreme 2004.

- [Single Table Joins](#)
- [ConnectionFailed Event Handler](#)
- [Custom Bitmap Symbols MSM](#)
- [IN/ANY/ALL Operators and Subqueries](#)
- [License File Tool](#)

### Single Table Joins

Tables can now be joined to themselves. For example:

```
Select ... From T as A, T as B Where A.X = B.Y
```

### ConnectionFailed Event Handler

You can now programmatically listen for a ConnectionFailed event when attempting to connect to an Oracle database when using an OCI method of connection. This event is fired if a connection cannot be made due to missing or incorrect connection information. You will have two attempts to resolve it before the connection fails.

### Custom Bitmap Symbols MSM

This release of MapXtreme 2004 includes a new merge module to make including custom symbols in your deployment projects easier. Simply include MapInfoCustSymb.msm in your project. This will install the symbols into the folder Program Files\Common Files\MapInfo\MapXtreme\6.2\CustSymb.

If you wish to locate custom symbols to a different location, use a <Path> or a <SpecialPath> element in your application's configuration file. The following example shows the <SpecialPath> tag:

```
<?xml version="1.0" encoding="utf-8" ?>
<configuration>
 <configSections>
 <section name="MapInfo.CoreEngine"
 type="MapInfo.Engine.ConfigSectionHandler,
 MapInfo.CoreEngine, Version=1.1.0.104, Culture=neutral,
 PublicKeyToken=93e298a0f6b95eb1" />
 </configSections>
 <MapInfo.CoreEngine>
 <ApplicationDataPaths>
 <SpecialPath>
 <LocalApplicationData>Your Corporation\Your
Application\LocalApplicationData>
 <\SpecialPath>
 </ApplicationDataPaths>
 </MapInfo.CoreEngine>
</configuration>
```

In this example MapXtreme 2004 will search for custom symbols in a folder like C:\Documents and Settings\username\Application Data\Your Corporation\Your Application\CustSymb. Note that the <SpecialPath> element should *not* include the CustSymb folder name. If it does, the path would be interpreted as ...\Your Application\CustMapXtreme 2004\CustSymb\CustSymb. The duplicated "CustSymb" would be incorrect.

Use the <SpecialPath> syntax if the application data is stored in a location relative to a .NET Framework special system folder. For example, if your application data is stored in a directory named MyAppData located under the "My Documents" directory, then the entry in the configuration file could be:

```
<Personal>MyAppData</Personal>
```

where "Personal" is the value of the .NET Framework enumeration Environment.SpecialFolder that represents the "My Documents" directory.

## IN/ANY/ALL Operators and Subqueries

The following is new and enhanced functionality related to data access.

- IN, ANY and ALL operators with literal lists and subqueries are now available. For example:

```
Select ... From T Where X IN (2, 6, 12) Select ... From T Where X IN (Select X From U Where B > 50)
```

- Correlated subqueries, in which a subquery references a column (or expression) from the out query, are now available. For example:

```
Select ... From T Where X IN (Select X From U Where B = T.A)
```

- The spatial OR-lists have been optimized. For example:

```
{Select ... From T Where Obj Within @Var1 OR Obj Within @Var2 OR Obj Within @Var3}
```

## License File Tool

MapXtreme installs the licensing tool MILicenseNodeID.exe and its libraries into the folder Program Files\Common Files\MapInfo\MapXtreme\6.2\License Tool. Run this tool when you need a perpetual use license for developing and deploying MapXtreme applications. Submit the resulting node ID text file to MapInfo Corporation to request your license(s).

You must provide this tool in your project if you are deploying a web application or if you are developing and deploying web or desktop applications using a software copy-protected version of MapXtreme 2004. The node ID tool is now included in the merge module MapInfoMXConfig\_6.2.msm. This msm is required for the "core engine" merge modules, so the license tool will be now be deployed along with your application.

## Who Needs a License?

Any installation of MapXtreme 2004 SDK or Runtime requires a license file (.LIC). Some are provided in the installation, others must be obtained from MapInfo Corporation. The following describes the types of licenses and when you need one from MapInfo.

***Trial License***

If you run the Trial installer, you are automatically provided a Trial license (MapXtremeTrial.LIC), which expires 60 days from date of install. To continue using MapXtreme 2004 for development you can purchase a perpetual use SDK license from MapInfo Corporation (see [How do I Obtain a License?](#) for details). The perpetual license will remove the watermark from the map display.

***SDK License***

If you install the non-copy protected Software Development Kit (SDK), you automatically get a perpetual SDK license (MapXtremeSDK.LIC), as well as a Trial license. With the perpetual license you can continue to use the SDK as long as you want. No other SDK license is necessary.

If you install the SDK from a software copy-protected version of the MapXtreme SDK, you receive a Trial license only. In order to use the SDK permanently and without the watermark on every map, you must obtain a perpetual license from MapInfo Corporation.

***Runtime Licenses***

Licenses for runtime installations are required for all runtime installations.

**How do I Obtain a License?**

To obtain a perpetual use license, run MILicenseNodeID.exe to generate a unique machine-specific (node-locked) code (MILicenseNodeID.txt). MapInfo Corporation uses this information to generate a custom license for your particular installation (SCP SDK, SCP Desktop runtime, or any Web runtime). Trial users will be required to purchase the product before receiving a permanent license.

For complete details on obtaining a license, see the Software Copy Protection Notice in the product box or from our website. Contact MapInfo Corporation (or its representative) at the appropriate email or fax number for your region as provided on the Notice.

When you receive your permanent license, copy it to the C:\Program Files\Common Files\MapInfo\MapXtreme\6.2 folder.

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## Bug Fixes

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Bug fixes for MapXtreme 2004 v6.2 covers issues in the following areas of the product:

- [Data Access](#)
- [Non-Earth Maps](#)
- [Web Applications](#)
- [Web Tools](#)
- [Geocoding and Routing](#)

### Data Access

#### Startup

- MapXtreme 2004 no longer searches at startup for a non-existent file called "C" when TAB files are opened.

#### Feature/ResultSet Bugs

- ResultSetFeatureCollections that contain features with complex expressions, such as MI\_Area(Obj, 'sq mi', 'spherical'), now correctly return the result set table. Previously it returned the base table.
- ResultSets created on a base table which is a view that joins multiple tables has been fixed.
- ExecuteFeatureCollection now returns the correct results when using a join.
- MapXtreme's performance when calling ExecuteFeatureCollection, has been enhanced.
- CreateFromFeatureCollection now creates the correct Column collection.

#### Performance Optimizations in ResultSets

- The population of the ResultSet keylist for cases where there is no OrderBy specified has been optimized.
- The temporary index used by ResultSets has been removed and replaced with an ordered keylist.

#### Expressions and Cursors

- Cursors now correctly handle the case where there is an expression used as an OrderBy or GroupBy in a SQL statement. Previously the index on the expression column was not regenerated if the expression changed so it always returned the order when the cursor was first generated.
- A bug involving cursors for a table that has temporary columns (from AddColumns) that are sorted by an expression involving a column from the base table and a temporary column has been fixed.

## SQL Language Bugs

- Problems with Current\_Date, EngineVersion, and SQLVersion are now resolved.

## Table.Refresh

- The spatial schema for a remote database table that is opened with cache and a spatial schema now refreshes correctly. Previously the cache was not passing down the refresh to the base dataset, in this case, the spatial schema.

## Miscellaneous Fixes for Data Access

- MapInfo.Data.Table.InsertFeature now returns the key.
- Fixed a bug with Join based on a spatial join (e.g. A.Obj Within B.Obj) that was not rewinding properly.

## Non-Earth Maps

- The default display coordinate system bounds for a non-earth map has been increased to the bounds of the earth (Long/Lat -90 to 90 and -360 to 360). Previously the settings were 0, 0, 10 and 10.  
The tighter bounds caused searches on non-earth tables to fail if the bounds of the table were larger than 10 x 10.
- Selection tools such as the PolygonSelectionToolControl now work correctly on non-earth map layers.
- The InfoTool control now work correctly on non-earth map layers.
- SearchInfoFactory method SearchNearest now works correctly with non-earth tables.
- MYSQL statement that includes a spatial search for non-earth coordinate system features no longer fails.
- Bar and Pie themes that are created for a non-earth layer are working properly now.

## Web Applications

- The web MapControl no longer displays a blank map after clearing a map and pre-loading another map from a workspace.

When a MapControl is loaded with a workspace at design time, the information is stored in the .aspx file. If the map is cleared from the MapControl, the alias remains in the .aspx file. If you follow that by adding a preloaded workspace (which is specified in the web.config file), the alias in the web.config file may not match the alias stored in the .aspx file. As a result a blank map displays. The MapControl always points to a map with a MapAlias, so in order to see correct map, the MapAlias must have the right value.

MapXtreme now checks the .aspx file for a MapAlias. If one is not found, it picks the first map from the preloaded workspace (as a workspace might have multiple maps). If the displayed map is not the map you expected to display, you will need to adjust the MapAlias in the web.config file to display the correct map.

- The web MapControl now exhibits expected behavior in a multi-threaded environment. The issue was caused by a static array that has been changed to dynamic.

- In a MapXtreme web application, if you use the QueryString method to request a map page, the request is sent in the form of url?name1=value&name2=value2 etc. If there are two requests with the same URL, the second request will not be sent to the ASP.NET server and will return the page from the first request in the cache. If these two requests need to change map objects, the first one will and the second one will NOT, but you will not be able to tell the difference. If IE caching is turned off, every request will be sent to original ASP.NET server with no problem.

There are three ways to disable caching in Internet Explorer.

- a. In Internet Explorer, go to Tools menu --> Internet Options, click Setting button in Temporary Internet files panel. In the Settings dialog, check "Every visit to the page"
- b. In the aspx page, add the following between <head> and </head>

```
<META HTTP-EQUIV="CACHE-CONTROL" CONTENT="NO-CACHE">
<META HTTP-EQUIV="PRAGMA" CONTENT="NO-CACHE">
```

- c. Add to the beginning of the Page\_Load method:

```
Response.Cache.SetCacheability(HttpCacheability.NoCache);
```

## Web Tools

- PointSelection tool now correctly selects point layers that use zoom layering (which may or may not be visible at the time the selection is made).
- The design time behavior of the DistanceType property for the DistanceToolControl class has been corrected. You may now choose a Spherical or Cartesian distance type to be used with the distance tool and get the correct results. Previously the distance type was automatically reset depending upon the display coordinate system of the map. Additionally, it was not serialized into the form, causing some inconsistent behavior. Note, for the Longitude/Latitude coordinate system, you will need to choose Spherical for the distance type. For non-earth coordinate systems, the distance type must be Cartesian. An exception will be thrown at runtime if you choose the wrong type. For any other coordinate system, you may choose either distance type.

## Geocoding and Routing

- The Geocoding client now supports required street types (pre- and post- address types) for international geocoding.
- The issue of invalid coordinates being returned in a geocoding candidate list while using a non-English locale, has been corrected. The information was being parsed using a German locale that would interpret commas in the string representing the coordinate values as periods and vice versa.

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## Known Issues

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The issues that follow are those identified since the previous release 6.1. They are either currently under investigation or in active development seeking a resolution. Continue to refer to the 6.1 Developer Guide Supplement for the additional known issues.

- [Data Access](#)
- [Features](#)
- [Labels](#)
- [Layers](#)
- [Legends](#)
- [Mapping](#)
- [MapXtreme 2004 Project Templates](#)
- [Sample Applications](#)
- [Sample Code](#)
- [SQL Functions](#)
- [Styles](#)
- [Tables](#)
- [Tools](#)
- [Web Applications](#)
- [Miscellaneous Issues](#)

### Data Access

- MapXtreme returns an error if you attempt to insert a feature into a table when the entry in the MapInfo\_MapCatalog for the table has the RenditionType set to 0 and the RenditionColumn set to null.
- MapXtreme will not load a remote database table containing an MI\_STYLE field if the RenditionType is set to 0 and the RenditionColumn is set to NULL in the MapInfo\_MapCatalog.
- Executing an update query on an MS Access table fails to insert style and object. For example:

```
insert into custpointswest (Obj, MI_Style) values (newobject, newstyle)
```

However, if you only insert the Obj field, the query works, as below:

```
insert into custpointswest (Obj) values (MI_Point(-
121.331658, 38.546608, 'EPSG:4326'))
```

- MapXtreme 2004 Web applications that are used to accessing Microsoft Access databases, may experience failed connection attempts. This is due to a limitation in Microsoft's Jet database engine when used in a high-stress, 24 x7 server environment. The Jet database engine, the engine behind MS Access, is limited to 64 concurrent connections. This includes the number of tables across all threads. In high-stress web environments, the actual number of successful concurrent connections may be less. For more information, see the following Microsoft technical publication: <http://support.microsoft.com/default.aspx?scid=kb;EN-US;q222135>. Microsoft recommends using MS SQL Server with IIS for web applications that require absolute data integrity or high user concurrency.

## Features

- You currently cannot set the alias of a FeatureCollection returned from a Search method. The ResultSetFeatureCollection inherits the IFeatureCollection.Alias property which is a get/set property.
- The IsEditing property of a Geometry should be false after calling EditingComplete.
- IResultSetFeatureCollection.Add throws a null reference exception when trying to add a feature. It works when adding a FeatureKey.
- Region Features have a white border around them even though null border has been selected. To avoid this, set the border option to be a solid line of the same color.

## Labels

- The rotation handles that display for labels and legacy text that are selected do not operate. Additionally, the anchor point position cannot be changed.
- Label visible range is not inclusive at MaxZoom in some situations. The visible zoom level varies due to the coordinate system, possibly due to rounding calculations.

## Layers

- Error occurs when opening a MWS after saving it from an application. The layer filter is not being persisted.
- The Removed event does not get called when removing a Layer from a Group Layer. The Layer gets removed when calling RemoveAt but it does not fire the OnRemoved event.
- The LayerHelper.SetSelectable method does not affect the selectability of certain layer types, including Labels, WMS/WFS, Raster and Group layers. The documentation for this method does not indicate this limitation.  
To control selectability of label layers, use the SelectMapToolProperties.LabelsAreEditable property programmatically or via Workspace Manager's Labels are Editable checkbox.

## Legends

- BarTheme legend does not update correctly after the map zoom level is changed.
- When exporting a legend with a higher resolution than 96 dpi, the legend text does not display correctly.  
A workaround is to manually clone the legend for export (similarly where you have to use a map's clone with the MapExport class). The difference, however, is you have to create a new legend and then clone each frame using LegendFrame.clone() as there is no Legend.Clone() method.
- LegendRow[0].Text is not updating the text in the first row. As a workaround, use Frame.Rows[0].Text.
- LegendFrame.Rows.Visible property set to false does not turn off the legend row as expected.

## Mapping

- Exporting a Map with an animated point layer creates an image that no longer displays the points.
- When `ExportMap.ExportSelection` Property is set to `False`, the selection highlighting is still exported.

Similarly, when `DrawSelections` property is set to `False`, the feature still draws with highlighting when selected with a `Select` tool.

In both cases, as a workaround, set the selection style pattern to 0 or set the color to transparent. For example:

```
((SimpleInterior)Session.Current.Selections.DefaultSelection.Style.AreaStyle.Interior).Pattern = 0;
((SimpleLineStyle)Session.Current.Selections.DefaultSelection.Style.LineStyle).Pattern = 0;
Session.Current.Selections.DefaultSelection.Style.SymbolStyle.Color = Color.Transparent;
```

- Calling `MapControl1.map.Invalidate()` fails to refresh the layers after an update is made. To refresh a label layer, you must call `LabelLayer.Invalidate()`. To refresh other layers, call `MapLayer.Invalidate()`.
- Setting the `RightToLeft` property on the `MapControl` to `Yes` causes the application to hang when you marquee select with the zoom tools. It works correctly if the property is set to `Inherit` or `No`.

For more information on right-to-left text display, see <http://msdn.microsoft.com/library/default.asp?url=/library/en-us/cpref/html/frlrfsystemwindowsformscontrolclassrighttolefttopic.asp>.

## MapXtreme 2004 Project Templates

- The MapXtreme 2004 C# and VB Console Application templates that are integrated into Visual Studio .NET do not point to the correct assembly version. This is the case only if you have more than one version of MapXtreme 2004 installed on your system (side-by-side install). To use these templates, add a reference to the project and redirect it to the v6.2 assembly. The other C# and VB templates (Map, Windows, and ASP.NET applications), point to the correct assemblies.
- If you have a side by side installation (e.g., v6.1 and v6.2) on the same machine, you must close Visual Studio before opening a project of a different type. For web applications, you will need to kill the ASP.NET or w3wp process.

## Sample Applications

- Double clicking the map will crash `ThematicsWeb` application and return a `SerializationException`.
- The VB version of the `ThematicsWeb` sample application does not save or store state correctly.
- VB `FindSampleWeb` sample application is not saving or restoring state correctly.

## Sample Code

- In the MapXtreme 2004 Developer Guide, the C# code example for customizing the AddPolygonTool doesn't work.  
For a C# code sample on customizing tools, see the MapXtreme Knowledgebase article at [http://testdrive.mapinfo.com/techsupp/miprod.nsf/kbase\\_by\\_product/4A6CC71D55FC008985256E9B0057A2C5](http://testdrive.mapinfo.com/techsupp/miprod.nsf/kbase_by_product/4A6CC71D55FC008985256E9B0057A2C5). It shows how to create a new arc tool class that derives from the CustomArcMapTool class and implements the IAddMapToolProperties interface.

The following is a VB sample in which an AddPointMapTool is created from an AddPolygonTool.

```
Dim insertionlayerfilter As IMapLayerFilter
Dim style As MapInfo.Styles.CompositeStyle
Dim addmaptoolproperties As MapInfo.Tools.AddMapToolProperties
Dim maptool As MapInfo.Tools.MapTool

insertionlayerfilter =
MapLayerFilterFactory.FilterByLayerType(LayerType.Normal)
style = New MapInfo.Styles.CompositeStyle

addmaptoolproperties = New
MapInfo.Tools.AddMapToolProperties(MapLayerFilterFactory.FilterForTools(M
apControl1.Map, insertionlayerfilter,
MapLayerFilterFactory.FilterVisibleLayers(True),
"CustomPolygonAddMapToolProperties", Nothing), style)

maptool = New MapInfo.Tools.AddPointMapTool(MapControl1.Viewer,
MapControl1.Handle.ToInt32(), MapControl1.Tools, New
MapInfo.Tools.MouseToolProperties(Cursors.Default, Cursors.Default,
Cursors.Default), MapControl1.Tools.MapToolProperties,
addmaptoolproperties)
```

- Sample code in the online help under MICConnection contains several errors: Lines 2 and 8 contain errant periods that should be removed; and the line if (o == DBNull) should be changed to if (o == System.DBNull.Value), as shown below.

#### C# sample

```

MICConnection connection = new MICConnection();
connection.Open();
MICCommand command = connection.CreateCommand();
command.CommandText = "Select * From States Where Pop >
1000000";

connection.Open();
MIDataReader reader = command.ExecuteReader();
int i,n = reader.FieldCount;
for (i=0; i < n; i++)
{
 Console.Out.Write("{0}\t", reader.GetName(i));
}
Console.Out.WriteLine();
while(reader.Read())
{
 for (i=0; i < n; i++)
 {
 object o = reader.GetValue(i);
 if (o == System.DBNULL.Value)
Console.Write("null\t");
 else
 Console.Write("{0}\t",
o.ToString());
 }
 Console.Out.WriteLine();
}
reader.Close();
command.Dispose();

```

## SQL Functions

- The MI\_Buffer function may exhibit erratic behavior at resolution sizes above 99. This is due to the cursor's processing of the row expression.  
Note that a valid buffer resolution for MI\_Buffer is between 3 and 100 inclusive.

## Styles

- The halo for a Text style is not displaying correctly. This is observable in the TextStyleDlg and StyleSampleBitmapButton object (button on the Style tab). As a workaround, choose a very dark gray as the halo instead of black.
- The Symbol style for a Graduated Symbol theme is not being reflected in LayerControl.

## Tables

- A seamless table with its base table file names that begin with a number, will not accept queries. As a workaround, files should be named with a leading character or underscore.
- When trying to set the Alias property of a TableInfo object, an error message "Object reference not set to an instance of an object" is returned.
- When trying to insert a table created from a CreateFromFeatureCollection() table, an error message "Invalid Identifier (sessiondata)" is returned. As a workaround, close and reopen the table or create the table without using the CreateFromFeatureCollection method.

- Unable to insert features from the result of a join.
- The MI\_STYLE column needs to be included with an insert statement.

The sample below shows the addition of MI\_Style.

```
Table tab = MapInfo.Engine.Session.Current.Catalog.GetTable("MapView");
TableInfo ti = TableInfoFactory.CreateTemp("Test",
((MapInfo.Data.GeometryColumn)tab.TableInfo.Columns["Obj"]).CoordSys);
Table tabTemp = MapInfo.Engine.Session.Current.Catalog.CreateTable(ti);

MIConnection conn = new MIConnection();
conn.Open();
MICommand comm = conn.CreateCommand();
comm.CommandText = "Insert Into " + tabTemp.Alias +
" (Obj, MI_Style) SELECT MI_Point(MI_X(Obj), MI_Y(Obj), ' ' +

((MapInfo.Data.GeometryColumn)tab.TableInfo.Columns["Obj"]).CoordSys.SrsS
tring + '), MI_Style" + " FROM " + tab.Alias + " WHERE mname =
'Minneapolis-St. Paul, MN-WI' AND Not Obj = Null";
MessageBox.Show(comm.CommandText);
int numChanged = comm.ExecuteNonQuery();

mapControl1.Map.Layers.Add(new FeatureLayer(tabTemp));
mapControl1.Map.SetView(mapControl1.Map.Layers["Test"] as FeatureLayer);
```

- WriteTabFile for MS Access tables creates an invalid .tab file.
- WriteTabFile for ESRI Shape files crashes with an "Unable to write metadata" error.
- TableInfoView.WriteTabFile() doesn't write out the CharSet property.
- When attempting to update a column with a feature's key, you will get an error message that says there are no attribute values available.
- A View table created from component tables cannot be opened.
- You cannot open a table with zero rows on MS SQL Server. The same tables can be opened on other RDBMS and in MapInfo Professional.

## Tools

- ToolTips don't display when you hover over the map with the select tool. The InfoTips will come up if you select the feature.
- Setting the Enabled property of the ToolBarControl to False in a Web application has no effect.

## Web Applications

- Cannot assign value to <img> tag attributes such as CLASS and USEMAP for a map image at design time. The reason is the ASPX file does not contain the <img> tag for the map image. The <img> tag will be generated at runtime for the map image, together with a <SPAN> tag which <img> tag is put into.
- The use of tools in Internet Explorer v 5 "Could not get the cursor property. Invalid Argument." Setting the Style.cursor on an object is not supported in v5 IE. See <http://msdn.microsoft.com/library/default.asp?url=/workshop/author/dhtml/reference/properties/cursor.asp>.

One workaround is to use IE5.5 stock cursors ("hand", "crosshair", etc.) which are found at the same MSDN site as listed above. Be sure to change the cursorUrl property for the tool controls and also change the cursorUrl for the tools in the MapControls MapTools collection.

```
MapInfo.Web.UI.WebControls.ZoomInMapTool zoomIn = MapControl1.MapTools[0]
as MapInfo.Web.UI.WebControls.ZoomInMapTool;
zoomIn.CursorUrl = "hand";
```

- Pressing the Back button on the browser does not remove the reference to the previous view in a web application.
- The web InfoTool selects features incorrectly and inconsistently. The expected behavior is that the tool selects objects that intersect the select point within a certain pixel tolerance. Currently it selects objects that have a minimum bounding rectangle (MBR) that enclose the clicked point. These MBRs may have larger or smaller tolerances.
- ExitProcess key in web.config file should be set to false by default. The Microsoft issue that required the setting to be true has been resolved.
- The Web tools for distance and polygon selection causes MapXtreme to crash after multiple uses of the tools. This is not specific to MapXtreme, but to a bug in Microsoft's vgx.dll. According to Microsoft, when you view a Web page in Microsoft Internet Explorer 6.0, IE stops responding or crashes, and you receive an access violation in vgx.dll. This problem occurs if the Web page renders vector graphics on the screen and if your computer is running Microsoft Windows XP Service Pack 2 (SP2). For more information see <http://support.microsoft.com/?scid=kb;en-us;885932>.

## Miscellaneous Issues

### Forms

- Putting a message box in a form constructor causes marquee zoom tools to hang when used. To avoid this situation, put the MessageBox call in the form's Load event handler method.

### ScaleBar Adornment

- The MapWidth property in the ScaleBarAdornment class does not work for PaperWidths less than 0.5.