MapInfo Pro
Version 15.0
Release Notes

This document provides information about the new and enhanced features that have been introduced into MapInfo® Pro 15.0.

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System Requirements

This product is tested on the following Microsoft Windows Desktop Operating Systems:

- Windows 7 Ultimate 32-bit SP1
- Windows 7 Ultimate 64-bit SP1
- Windows 8.1 32-bit
- Windows 8.1 64-bit
- Windows 2008 Server R2 64-bit SP1
- Windows 2008 Server R2 64-bit SP1 with XenApp 6.0
- Windows 2012 Server R2 64-bit with XenApp 7.5

Dependencies and Prerequisites

The install wizard checks for the following requirements and prompts you if not already on your system; you can choose to have the install wizard install these requirements, or cancel the installation if you do not want to proceed.

- Microsoft Office Access database engine 2010 - does not install when the 64-bit office 2010 driver is installed.
- Microsoft Office Access database engine 2007 - installs only if the 64-bit office 2010 driver is installed.
- Microsoft .NET Framework 4.5.2 Full.

Installing MapInfo Pro

You must have Administrator rights to run the Installer, and the Installer requires that your TEMP variable be set to a valid directory.

Caution: We strongly recommend that you exit from all Windows programs before beginning the installation process. If you are upgrading from an earlier version of MapInfo Pro, we recommend that you uninstall before upgrading.

MapInfo Pro provides its application data files to each user. Called a Per-User install, this functionality runs the first time you run MapInfo Pro or MapInfo Pro client on a machine, and each time the MapInfo Pro Installer is run thereafter. The application data files include, among others, the Pen
Styles file, Custom Symbols files, Graph Support files, and Thematic Legend templates. These files allow different users to have custom settings.

To install MapInfo Pro:

1. If installing from a DVD, the Installer automatically launches. If installing from a download, go to the directory into which you downloaded MapInfo Pro and right-click the setup.exe file.

   Select Run as Administrator from the pop-up menu to install using elevated privileges.

   You may see a prompt for permission to continue. Click Allow or Yes to proceed (if you do not respond and the message times-out, the install is unsuccessful).

   The wizard begins to lead you through the installation process.

2. On the Launcher menu, choose Install Products.

3. Choose MapInfo Pro.

4. Choose MapInfo Pro Installer.

   You may see a prompt for permission to continue. Click Allow or Yes to proceed (if you do not respond and the message times-out, the install is unsuccessful).

5. If any of the prerequisites listed under Dependencies and Prerequisites on page 2 are not already installed on your system, then a prompt displays to install them. Click Install.

   Installing the prerequisites takes several minutes—the status of each prerequisite updates as it installs.

6. If you see a message that MapInfo Pro requires a reboot, click Yes. You must reboot to continue with the installation.

7. Click Next to continue the process.

8. On the License Information screen, review the license. If accepting the terms, click Next to continue.

9. On the Customer Information screen, type your name, organization name, serial number, and access code in the corresponding fields.

   Note: Do not select the check box. Doing so installs an evaluation copy of MapInfo Pro. If you select to install an evaluation copy, then you may activate your copy after installation with your serial number and activation code.

   The serial number and access code are listed on the Product Activation Information Card or emailed with your license details, and are used to activate your product.
10. Click **Next** to continue.

11. Do one of the following:

   - If your organization purchased node-locked licenses, the third character of your serial number is "N". Skip this step and go to step 12.
   - If your organization purchased concurrent licenses, the third character of your serial number is "S". In this case, the **License Server Name** and **License Server Port Number** fields display on the screen.

   If you know the license server name and port number, type them here. If you do not, you can continue with the installation without filling in the license server name and port number. You will have another opportunity to supply this information when you start MapInfo Pro.

12. Click **Next** to continue.
13. Select one of the following options:

- **Typical** – choose this option if you will be using MapInfo Pro as a desktop application including remote database access and connectivity. Continue to Typical Workstation Installation.
- **Custom** – choose this option to restrict the components that are installed by the installation program. For example, you can prevent the installer from adding the tools and documentation. Continue to Custom Workstation Installation.

14. Click **Next** to continue.

There are no special installation instructions for installing MapInfo Pro in a Citrix environment. Citrix users follow the instructions in Typical Workstation Installation to install MapInfo Pro.

**Typical Workstation Installation**

*Make sure you have completed the directions in Installing MapInfo Pro before beginning these instructions.*

Choose the **Typical** option to install all MapInfo Pro program files including documentation, MapInfo Utility tools and Crystal Reports.

To continue installing MapInfo Pro:

1. On the **Setup Type** screen, choose **Typical Workstation Installation**.
2. On the **Destination Folder** screen, do one of the following:
   - Click **Next** to accept the destination folder indicated.
   - Click **Change** to create a new path on the **Change Current Destination Folder** screen. Type the new path in the **Folder name** field and click **OK** to continue. Choose to create a new directory name when you have an earlier version of MapInfo Pro installed and you do not want to overwrite that version.
3. Click **Next** to continue.
4. On the **Ready to Install the Program** screen, review your selections to ensure that the path is correct and then click **Install**. To make changes, click **Back**. A progress bar indicates the status of the process.

   **Note:** If you are using ODBC or Oracle Spatial for database connectivity, we install ODBC Connectivity and Oracle Spatial support by default to simplify the connectivity process.

5. At the end of the installation, the prompt: “Would you like to check our web site for any current updates to our product?” displays. If you have an Internet connection, click **Yes** to access the Pitney Bowes Software Inc. web site containing information about product updates.
6. When the **Complete** screen displays, click **Finish**.

**Custom Workstation Installation**

*Make sure you have completed the directions in Installing MapInfo Pro before beginning these instructions.*
Choose **Custom** to select components and drivers within the MapInfo Pro installation program. This is useful when you want to save disk space by not installing the documentation, or the MapInfo Pro tools.

To continue installing MapInfo Pro:

1. On the **Setup Type** screen, choose **Custom Workstation Installation**.
2. On the **Custom Setup** screen, you can click on a component to display information about it and the space it requires:
   - **MapInfo Program Files** – you must install these files to run MapInfo Pro.
   - **Documentation** – installs user guide documents in PDF format.
   - **Tools** – installs MapInfo Utilities and Crystal Reports.

Select the components that you do not want to install (all are selected by default) by clicking the **Down Arrow** beside it. From the following menu of options, select **This feature will not be available**.

- This feature will be installed on local hard drive.
- This feature, and all subfeatures, will be installed on local hard drive.
- This feature will not be available.

3. To specify a non-default location for the installation, click **Change**.

   In the **Change Current Destination Folder** screen, type the new path in the **Folder name** field and click **OK** to continue.

4. To see if you have enough space on your hard drive or other mapped resources, click the **Space** button.

   The **Disk Space Requirement** screen displays the disk size, the amount of available space, and the amount of space the selected install would take.

5. After making your custom selections on the **Custom Setup** screen, click **Next**.

6. If you are installing an English language version of MapInfo Pro, the **Language Setting** screen displays. Select an English language preference and then click **Next**.

7. On the **Ready to Install the Program** screen, click the **Install** button to begin the installation of MapInfo Pro with the features you selected.

   The **Installing MapInfo Pro** screen displays with a progress bar indicating the status.

8. At the end of the installation, the prompt: “Would you like to check our web site for any current updates to our product?” displays. If you have an Internet connection, click **Yes** to access the Pitney Bowes Software Inc. web site containing information about product updates.

9. On the **Complete** screen, click **Finish**.
Repairing MapInfo Pro from the .MSI file

The repair process fails using the .msi file when the Microsoft User Account Control (UAC) is turned on. Depending on the installation conditions the repair stops with the following error message:

You have MapInfo Pro running, please close it and run setup again.

To work around this issue, do one of the following three things:

• Shut off the UAC (User Account Control), this requires System Administrative privileges, reboot the machine, and rerun the repair.
• Run the original setup.exe file and then run the repair from maintenance mode.
• Run the installed copy of the MapInfo Pro 15.0 .msi file as an administrator. Go to C:\Windows\Installer and search for the MapInfo Pro 15.0 .msi file. It will have a name similar to 8e95f1.msi, where the name is different for each machine. Go to C:\Windows\System32 and find the cmd.exe file. Right click this file and select Run as Administrator (this may require an administrator password). Run the command C:\Windows\Installer\nameofMiPro15.0.msi and select Repair from maintenance mode.

Disabling User Account Control (UAC) on Windows 7 or Server 2008 R2

To disable UAC on Windows 7 or Server 2008 R2:
1. Launch MSCONFIG by from the Run menu.
2. In the System Configuration dialog box, click the Tools tab.
3. Click Change UAC Settings.
4. Click Launch.
5. Move the slider to Never Notify.
6. Click OK to close the dialog box.
7. Reboot the machine to have this change take effect.

Disabling User Account Control (UAC) on Windows 8.1 or Windows Server 2012 R2

To disable UAC on Windows 8.1 or Windows Server 2012 R2:
1. On Windows 8.1, go to the Control Panel and type Change User Account Control settings in the search box.
2. In the **User Account Control Settings** window, move the slider to **Never Notify** position.

3. Click **OK**.
   
   You may see a prompt to confirm your selection or to enter an administrator password.

4. Reboot the machine to have this change take effect.

Support Notices

**SQL Server 2012**

If connecting to a SQL 2012 server with Windows 7 or higher, use the SQL Server Native Client 2012 (also known as SQL Server Native Client 11.0).

**Bing Maps Expiration Date**

Bing Maps has a limited license period, which is specific to each version of MapInfo Pro. The Bing Maps and the Add Bing Roads to Map and the Move Map To features cease working after this date:

- MapInfo Pro 15.0 on January 1st, 2017

Customers with a current maintenance package who would like to continue to use earlier versions of MapInfo Pro (10.5.3, 11.0.x, 11.5.x, or 12.0.x) are entitled to use Bing services until December 31, 2016. For details, contact your account representative.

License Server Utility

If you have a previous version of the License Server Utility (LSU) installed to manage distributable licenses, then you must upgrade to the latest License Server Utility, version 4.6. Using a previous version of the License Server Utility with MapInfo Pro 15.0 will cause MapInfo Pro to become unresponsive.

Using an incompatible version of the License Server Utility might result in the following issues while fetching licenses for MapInfo Pro:

- MapInfo Pro is unable to borrow a borrowable license.
- MapInfo Pro is unable to activate a distributed license from the License Server.

If this occurs, contact your License Server administrator and have them upgrade the License Server to version 4.6.
After successfully borrowing or activating a license, if you again roll back to an older version of License Server Utility, you cannot transfer the borrowed/activated license back to License Server Utility. You will not see an error message as the operation simply hangs.

Microsoft Warning for 64-Bit Version of Microsoft Office

If you do not have Microsoft Office installed on your machine, then MapInfo Pro 15.0 installs a Microsoft Office 2010 32-bit driver, so that MapInfo Pro can open Microsoft Access and Excel 2010 files.

If you already have the 64-bit 2010 Microsoft Office driver installed, and you do not have the 2007 32-bit driver installed, then MapInfo Pro installs the Microsoft Office 2007 32-bit driver. You can still work with Microsoft Access 2010 and Excel 2010, but you may see an error message if an incompatibility occurs.

Note: Microsoft strongly recommends using the 32-bit (x86) versions of Office 2010, Project 2010, Visio 2010, and SharePoint Designer 2010 applications as the default option for all platforms (including on a 64-bit operating system).

Downloading Tools and Applications

Several tools and applications are available for download from the Pitney Bowes Software website at www.mapinfo.com.

MapInfo ProViewer: www.mapinfo.com/proviewer
MapInfo ProViewer lets anyone open, view and manipulate your MapInfo Pro maps, tables and analyses with easy-to-use functionality including print, zoom, scroll, select objects, measure distances and view details.

MapBasic: www.mapinfo.com/mapbasic
The MapBasic development environment is a complete, BASIC-like programming language used to create custom applications for use with MapInfo Pro or special MapInfo runtimes. MapBasic allows you to customize the geographic functionality of MapInfo Pro, automate repetitive operations and integrate MapInfo Pro with other applications.

EasyLoader: www.mapinfo.com/easyloader
EasyLoader lets you to upload MapInfo .tab files to a remote database, such as Oracle, SQL Server, Microsoft Access, and PostgreSQL / PostGIS.

To install these downloads, unzip the download file in to your Temp folder (C:\Temp) and then launch the setup.exe. An install wizard guides you through the installation process.

To obtain more MapInfo Pro resources and downloads, visit www.mapinfo.com/resources.

Locating Your Documentation

MapInfo Pro documentation, in the form of PDF files, installs with MapInfo Pro in to the Documentation subfolder. You must have the Adobe Acrobat reader installed to view PDF files. To download a free copy of the Adobe Acrobat Reader, go to http://www.adobe.com.

You can view documents from the software Installer. The Installer automatically launches from the DVD, or go to the directory into which you downloaded MapInfo Pro and right-click the setup.exe file.

Installation Instructions are Available in the Install Guide

For system requirements, installation instructions, and System Administrator notes for performing a workgroup installation, see the MapInfo Pro Install Guide. From the software installer:

• Click Online Reference and then MapInfo Pro Install Guide, or
• Click Browse DVD. This launches an Explorer window. Under the PDF_DOCS folder, double-click the MapInfoProInstallGuide.pdf file.

Instructions for Activating your License are in the Install Guide

Instructions for activating your MapInfo Pro license are in the MapInfo Pro Install Guide. The same information is also in the MapInfo Pro Licensing and Activation Notes (ActivatingYourProduct.pdf).

The MapInfo Pro Data Directory Document

MapInfo Pro’s sample data comes with the MapInfo Pro Data Directory document, which describes the sample data. From the software installer:

• Click Online Reference and then MapInfo Pro Data Directory, or
• Click Browse DVD. This launches an Explorer window. Under the PDF_DOCS folder, double-click the MIProDataDirectory.pdf file.
All Documents Install with your Software

After installing MapInfo Pro, you can find documentation files under the Documentation folder where MapInfo Pro is installed (for example, C:\Program Files\MapInfo\Professional\Documentation).

Documentation is also available on our website at www.mapinfo.com/miprodocs.

Notes about this Release

This release provides a number of new features, enhancements, and new additions to MapInfo Pro.

New Features

For details about what is new in this release, see the section titled What's New in MapInfo Pro in the MapInfo Pro User Guide or Help System. This release provides the following new and updated features.

Performance Improvement

Capability to delete/suspend and recreate transaction indexes

MapInfo Pro now optionally drops/recreates transaction indexes for operations such as Insert, Delete, Update, Combine Selected Objects, Split, Erase, Erase Outside, Disaggregate and Line Split, to improve the performance of these operations. MapBasic statements for these operations now have a new option:

\[ \text{Drop Index \{ON | OFF | AUTO\}} \]

For example,

\[ \text{Delete from States Drop Index \{AUTO\}} \]

The default value for this option can be set in the Performance Settings dialog box.

When Drop Index option is set to ON, MapInfo Pro will suspend updating the indexes while executing the operation and recreate them when the operation is complete. This significantly improves the performance. However, it’s recommended to set this option to AUTO.

When Drop Index option is set to AUTO, MapInfo Pro will decide whether to suspend/recreate the indexes or not. If the table contains more than 1000 rows and more than 0.1% of the total rows are to be updated, the indexes will be suspended and recreated later. Else, the operations will be executed on the regular basis.
When **Drop Index** option is set to OFF, the operation will execute without suspending/recreating the indexes, as in the previous versions.

**Export All Active License Information**

You can now export all active license information on your server into a text or CSV (comma separated value) format using the License Server Utility tool. For details and instructions, refer to the *Using the License Server Utility* topic in the *License Server User Guide* that installs with the License Server software.

**Multi-Touch Support**

MapInfo Pro now supports multi-touch gestures which allows two-finger pinching and panning gestures on a touchscreen device to perform zoom in, zoom out and pan on the map. The multi-touch also works on a 3D map, Prism map and the map in the New Layout Designer window.

**Improvements in Layout Frame Alignment**

Alignment of layout frames have been improved and you can now:

- Align layout objects with each other.
- Align layout objects with either the page margins or the page center lines, both horizontal and vertical.

**New Coordinate Systems and Projections**

There are coordinate system additions and enhancements in this version. Some new EPSG codes have also been added in this version. For a detailed list of new EPSG codes, see *Coordinate System Enhancements by Version* in the MapInfo Pro Help System.

Following are the new PRJ codes in this version:

**Portuguese Coordinate Systems**

- "PT TM06 ETRS891\p3763", 8, 115, 7, -8.133108333334, 39.668258333333, 1, 0, 0

**Colombian Coordinate Systems**

- "Colombia East\p21899", 8, 16, 7, -68.08091666666667, 4.599047222222222, 1, 1000000, 1000000
- "Colombia East Central zone\p21898", 8, 16, 7, -71.08091666666667, 4.599047222222222, 1, 1000000, 1000000
- "Colombia West zone\p21896", 8, 16, 7, -77.08091666666667, 4.599047222222222, 1, 1000000, 1000000
- "MAGNA-SIRGAS / Colombia East zone\p3118", 8, 165, 7, -68.07750791666666, 4.596200416666666, 1, 1000000, 1000000
- "MAGNA-SIRGAS / Colombia East Central zone\p3117", 8, 165, 7, -71.07750791666666, 4.596200416666666, 1, 1000000, 1000000
Following are the new datums added in this version:

- **Number** - The number used to identify the datum in the MAPINFOW.PRJ file.
- **Datum Name** - The datum's name
- **Area of Coverage** - The maps for which the datum is typically used
- **Ellipsoid** - The datum's reference ellipsoid

<table>
<thead>
<tr>
<th>Number</th>
<th>Datum Name</th>
<th>Area of Coverage</th>
<th>Ellipsoid</th>
</tr>
</thead>
<tbody>
<tr>
<td>166</td>
<td>Aratu</td>
<td>Brazil</td>
<td>4</td>
</tr>
<tr>
<td>167</td>
<td>Barbados</td>
<td>Barbados</td>
<td>6</td>
</tr>
<tr>
<td>168</td>
<td>Beduaram</td>
<td>Guinea</td>
<td>30</td>
</tr>
<tr>
<td>170</td>
<td>Dealul Piscului 1930</td>
<td>Romania</td>
<td>4</td>
</tr>
<tr>
<td>171</td>
<td>Douala</td>
<td>Cameroon</td>
<td>4</td>
</tr>
<tr>
<td>172</td>
<td>Final_Datum_1958</td>
<td>Iran</td>
<td>6</td>
</tr>
<tr>
<td>173</td>
<td>Makassar</td>
<td>Indonesia</td>
<td>10</td>
</tr>
<tr>
<td>174</td>
<td>Manoca</td>
<td>Cameroon</td>
<td>30</td>
</tr>
<tr>
<td>1026</td>
<td>NGO_1948</td>
<td>Norway</td>
<td>1026</td>
</tr>
<tr>
<td>1927</td>
<td>Palestine_1923</td>
<td>Asia / Middle East</td>
<td>1027</td>
</tr>
</tbody>
</table>

**New Option to Rename a Layer**

You can now assign a friendly name to a selected layer. Right-click on a layer in the Layer Control window and click **Rename**.
You can also assign a default friendly name to a layer by using the Description field (part of Definition section) in a TAB file.

**Enhancements to the Change View Dialog**

The **Cartographic Scale** field in the **Change View** Dialog is now an editable list-box showing a list of available common scales. You can also type in a custom scale factor.

**New Option to Set Grid Sizes in Paper Units**

You can set the units in which you want to resize a grid. On the **Options** menu, click **Preferences** and then click **System Settings** to open the **System Settings Preferences** dialog box. Select the desired unit from the **Paper and Layout Units** drop-down list.

**Change Text Frame Orientation in Layout Designer**

In the **Layout Designer** window, you can now change the orientation of a text frame in either of the two ways:

1. Using **Changes orientation of selected frames** button on the Layout Designer window.
2. Dragging and dropping the text frame bottom-right corner.

**Improved Mouse Wheel Behavior in Layout Designer**

In the previous version, if you rolled the mouse wheel while in a Layout Designer window, it scrolled the window up/down. Now, the mouse wheel acts on a Layout Designer the same way that it acts on a Map window.

- When you are in a Layout Designer window, using the mouse scroll wheel now zooms in/out on the layout, which matches the behavior in the Map windows and Classic Layout windows.
- If you hold down the CTRL key while you use the mouse wheel, the page scrolls up or down within the window, instead of zooming in/out.

**Sample Data Enhancements**

To help you get started, Pitney Bowes Software Inc. provides you with some United States-based and world-wide maps you can use as a background to your data. To install the free data provided with MapInfo Pro see the section titled **Installing Data** in the **MapInfo Pro Install Guide**.

For a description of the sample data supplied with this product, see the **MapInfo Pro Data Directory** document.

You can view documents from the software Installer. The Installer automatically launches from the DVD, or go to the directory into which you downloaded MapInfo Pro and right-click the `setup.exe` file. After installing MapInfo Pro, you can find documentation files under the **Documentation folder** where MapInfo Pro is installed (for example, `C:\Program Files\MapInfo\Professional\Documentation`).
New Features in MapBasic

For details about the new and updated features in MapBasic, refer to MapBasic Reference or MapBasic Help.

The following features have been added/updated in MapBasic:

New clause for Set Map Layer command

We have added a new FriendlyName clause to the Set Map Layer command, which allows MapBasic programmers to set a friendly name for a layer. The string value can be a maximum of 255 characters and cannot be empty. Specifying 'Default' for the value will clear out the friendly name. A layer’s friendly name is persisted in the workspace.

New parameter for LayerInfo function

There is a new parameter LAYER_INFO_FRIENDLYNAME (64) for LayerInfo function to query the friendly name.

Modified Set Table command

You may now write to the TAB file’s Description field using the Description property with the Set Table command. Description assigns a default friendly name to a layer.

```
Set Table tablename
[ Description Map Of the United States ]
```

You can also delete an open TAB file’s Description property by passing an empty string:

```
Set Table tablename
[ Description "" ]
```

New Syntax for Selecting Layout Frames

We have added a new Selection clause to the Set Layout statement which will allow MapBasic programmers to change the selection of frames in a Layout Designer window.

Modified Syntax for Alter Designer Frame Statement

The Alter Designer Frame statement has been modified so that width and/or height of layout frames can be set. Now the statement syntax also contains a Width clause. The Alter Designer Frame statement has also been updated to include a Name clause for Layout Designer.

Alter Designer Frame Statement

You can now change/set the name of an existing layout frame.

Create Empty Frames

The Create Frame statement allows you to create empty frames for the Layout Designer. Empty frames are used to add template functionality for Layouts and create place-holders at any position, of any valid frame size.
Syntax

Create Frame

[ Into { window window id | Variable var_name } ]
( x1, y1 ) ( x2, y2 )
[ Pen...]
[ Brush...]
[ Priority n ]
[ Name framename ]

If window_id refers to a Layout Designer a new empty frame will be created. If it refers to a classic Layout, the legacy empty frame will still be created.

If Name is omitted the default text will be "" (empty string). Names will be displayed in the center of the frame. Long names (names wider than the current width of the empty frame) will wrap.

If Pen is omitted default pen will be a single pixel solid black line.

If Brush is omitted default brush will be a transparent brush (no fill).

If Priority is omitted the frame is added as the topmost.

The empty frame is counted as a frame like any other and added to the frame count returned by LayoutInfo(). The Pen, Brush, Name, and Priority properties can be modified after the frame is created using Alter Designer Frame statement. Position and size can also be modified using Alter Designer Frame or by clicking and dragging the frame in the GUI. The frame border and fill (pen and brush) can be modified in the GUI using the Frame Properties dialog box.

Adding Content to Empty Frames

Only maps and browsers can be inserted into empty frames. There are two ways of inserting a map or browser window into an empty frame:

1. Using the Set Designer Frame statement

Set Designer Frame

[ Window Layout_window_id]
[ ID empty_frame_id]
[ From { Window map_or_browser_window_id } [ Legends On|Off ] ]

If ID is an empty frame, then when followed by From Window clause, the empty frame is populated by a clone of the original map or browser.

2. Using the Map From and Browse From statements

Use these statements to insert currently open tables into the empty frame. For example,

Map From World, World_Cities Into Window layout_win_id Id empty_frame_id

This will create a map for the open tables called World and World_Cities and insert it into the empty frame in the Layout Designer window. A default view of the map will be displayed. The
frame properties already set for the empty frame will also be retained (pen, brush, position, size, name, and z-order).

Reusing the Empty Frame

To reuse a frame after it has been filled with content, it needs to be emptied.

```
Set Designer Frame [ Window layout_window_id ] Id { frame_id } Clear
```

This leaves an empty frame of the same size and position as the content it just contained, and retains the name currently assigned to it. The content itself is destroyed; meaning, the map or browser goes away. Other frame properties such as the border pen, fill brush, and z-order remain unchanged.

Browsers, Maps, Legends, Shapes, Images, and Text can be removed using this command. The command can also be used on an empty frame. If you clear a Map frame and it has legend frames associated with it, the legend frames will be removed from the layout.

LayoutItemInfo() Style and Z-Order Attributes

The values of some of the existing layout frame attributes are now accessible via the LayoutItemInfo() function, as described in the table below.

<table>
<thead>
<tr>
<th>Attribute Parameter</th>
<th>ID</th>
<th>LayoutItemInfo() Return Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LAYOUT_ITEM_INFO_PEN</td>
<td>15</td>
<td>Pen value. Returns the pen of a shape or a frame.</td>
</tr>
<tr>
<td>LAYOUT_ITEM_INFO_FILL_BRUSH</td>
<td>16</td>
<td>Brush value. Returns the brush style of a shape or a frame. This is not valid for a frame containing a line shape.</td>
</tr>
<tr>
<td>LAYOUT_ITEM_INFO_Z_ORDER</td>
<td>17</td>
<td>Integer. Returns the z-order of the item. The z-order is taken from the normalized set of frame priorities where each element is unique.</td>
</tr>
</tbody>
</table>

Retiring Functionality

Aspect Ratio Adjustment

MapInfo Pro 15.0 has deprecated the option to adjust the aspect ratio.

In MapInfo Pro 15.0 the Aspect Ratio Adjustment option is no longer available in the System Settings Preferences dialog box.
**Known Issues**

*Editing Text in the Layout Designer Window*

There is a Microsoft issue that affects editing text in the **Layout Designer** window. The mouse cursor may disappear in a text frame when the **Layout Designer** zoom value is not set to 100%. Resetting the zoom value to 100% should correct this issue, which only happens intermittently.

*License Server Utility Incorrect Dates*

When the **RESERVE** option is used in the options file (**unisw20.opt** located in the License Server Utility installation directory), the licenses are checked out from the License Server Utility with incorrect start dates.

*Printing to PDF*

When printing to PDF, the printing progress window may appear frozen and clicking **Cancel** can cause MapInfo Pro to halt.

Selecting certain non-default PDF preferences causes this issue. If you experience this issue, change the PDF preferences back to their default settings:

1. On the **File** menu, point to **Print to PDF** to open the **Print** dialog box.
2. Click **Properties** to open the **MapInfo PDF Printer Properties** dialog box.
3. On the **Destination** tab, uncheck the **Prompt for Destination** check box.

*Running PolyBuilder in MapInfo Pro 12.5 and 15.0*

When MapInfo Professional 12.5 and MapInfo Pro 15.0 are on the same machine, MapInfo Professional 12.5 closes unexpectedly when running the PolyBuilder tool. The issue persists after you uninstall MapInfo Pro 15.0.

To run PolyBuilder in version 12.5 after installing version 15.0:

1. Launch the command prompt with administrator privileges.
2. Navigate to the directory where MapInfo Professional 12.5 is installed, for example:
   
   `cd C:\Program Files (x86)\MapInfo\Professional`

3. Run MapInfo Professional 12.5 with the following option:
   
   `Mapinfow.exe -regserver`

*Installing .Net Framework 4.5.2 fails on Windows 8.1 and Server 2012 R2*

Installing MapInfo software, such as MapInfo Pro, Runtime, ProViewer, or MapBasic, on Windows 8.1 or Server 2012 R2 generates the following error message:
The installation of Microsoft .NET Framework 4.5.2 Full has failed. Setup will now exit.

This issue may be due to Windows Update KB2934520, which is included with .Net Framework 4.5.2 and requires that you reboot your computer to complete its installation. Your computer did not reboot if the .Net Framework 4.5.2 was installed to your machine by the Windows Update service or pushed down by your IT department’s Windows Update management services. To resolve this issue, reboot your computer and rerun the MapInfo software installation.

Sample Data installs slowly

When installing MapInfo Pro from the DVD, the Sample Data files decompress into the temp folder and the Windows Installation Service creates a table that lists the source and destination location for each file. Everything resides on your computer, so creating the install table is usually very fast.

When installing the Sample Data by itself from the DVD, the data does not decompress into the temp folder and remains uncompressed on the DVD. The Windows Installation Service searches the DVD for the files to install, which slows the installation. This is a known issue with this release.

Progress and Resolution of Outstanding Issues

**MapInfo Pro**

<table>
<thead>
<tr>
<th>Issue Number</th>
<th>Description and Resolution</th>
</tr>
</thead>
<tbody>
<tr>
<td>MIPRO-13595</td>
<td>Loading Discover and MapCad disables the WFS Table Refresh and Refresh DBMS Table menu items.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-35584</td>
<td>The Web Feature Service request not working properly in MapInfo Pro.</td>
</tr>
<tr>
<td></td>
<td>This was due to WFS servers not correctly processing XML namespaces.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-35915/MIPRO-54057</td>
<td>MapInfo Pro stops working with open edits in the Browser window.</td>
</tr>
<tr>
<td></td>
<td>This happens only if the Browser window has sort and/or filter applied to it before editing the table, and you try to close the Browser window while the Browser is still in the editing mode.</td>
</tr>
<tr>
<td></td>
<td><strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>Issue Number</td>
<td>Description and Resolution</td>
</tr>
<tr>
<td>--------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>MIPRO-36071</td>
<td>Callout labels do not display for small features. If the polygons are too small, the callout labels do not display on the layout window. <strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-43577</td>
<td>Subselect using decimal fields are much slower than Subselect using Integer fields. <strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-48513/MIPRO-53110</td>
<td>Bing image gets distorted when exported as JPG file. <strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-49213</td>
<td>Oracle: Problems with Easyloader and EPSG-Code 25832. Table uploaded with Easyloader does not get a SRID entry in the Oracle metadata table SDO_GEOM_METADATA and the created geometry column has &quot;NULL&quot; in the SDO:SRID column. With this the spatial index cannot get generated and MapInfo is not able to generate geographic queries. <strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-53776</td>
<td>MapInfo displays &quot;Found [] while searching for [A string constant]&quot; error while using custom template created using the Layout Template tool. <strong>Resolution:</strong> Fixed. The tool now parses the layout template .WOR file correctly.</td>
</tr>
<tr>
<td>MIPRO-59133</td>
<td>&quot;Add Column&quot; statement updates incorrect column. <strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-59627</td>
<td>Changing zoom while using a custom Polygon tool, does not work correctly. If you change the zoom level while drawing using a custom Polygon tool, the lines are not drawn correctly. <strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-59783</td>
<td>MapInfo Pro cannot export MapInfo text layers (.TAB with text objects) to DWG/DXF format. The output DXF file does not show the text strings. <strong>Resolution:</strong> Fixed.</td>
</tr>
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</tr>
<tr>
<td>MIPRO-61501</td>
<td>MapInfo Pro stops working when geocoding an MS Access file, if the table is not mappable. <strong>Resolution:</strong> Fixed. Now MapInfo Pro checks if the table is mappable or not, if the table is not mappable, displays message that the table should be made mappable prior to the geocoding operation.</td>
</tr>
<tr>
<td>MIPRO-62716</td>
<td>Tools do not get populated in Tools Manager if MapInfo Pro 64-bit is not launched prior to installing MapInfo Pro 32-bit. If you install MapInfo Pro 32-bit and MapInfo Pro 64-bit on the same computer and none of the version has been run yet, then the MapInfo Pro version that first runs successfully creates registry entries for the tools. When the other version is run subsequently, the registry entries for the tools do not get created correctly. <strong>Resolution:</strong> Fixed.</td>
</tr>
<tr>
<td>MIPRO-62815</td>
<td>MapInfo Pro is unable to reopen the workspace if user enters localized characters in the Layout. <strong>Resolution:</strong> Fixed. The issue was with the memory allocation for string of a text object.</td>
</tr>
</tbody>
</table>

**MapBasic**

<table>
<thead>
<tr>
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<tbody>
<tr>
<td>MIPRO-60729</td>
<td>MapBasic Set Window WIN_MAPINFO Min/Max not working. <strong>Resolution:</strong> Fixed. MapInfo Pro now responds correctly to MapBasic to minimize, maximize, and restore the MapInfo Pro application window.</td>
</tr>
</tbody>
</table>