

10Tec iGrid for .NET 3.x

What's New in the Control

Keywords used to classify changes:

- [New] – a totally new feature;
- [Change] – a change in a member functionality or interactive behavior;
- [Improved] – something is implemented better than in previous versions;
- [Renaming] – a name of the member was changed so it is enough to rename it in your code;
- [Fixed] – a fixed bug or solved problem.

v3.00, build 0042 (SP1) | 2012-Jan-25

1. [Change] The source code of this version of iGrid was converted from the Visual Studio 2005 format to the Visual Studio 2008 format as the minimal VS version according to the expectations of the vast majority of iGrid.NET users. The target framework for iGrid.NET is still .NET Framework 2.0 which makes it possible to run iGrid.NET in this and all newer versions of the .NET Framework including 3.5 and 4.0.
2. [Change][Fixed] Due to some problems with using iGrid.NET at design-time, which first appeared in the VS 2010 because of the changed internal logic of the environment, and to make it possible to use different versions of iGrid.NET in the same project, the internal attributes of the iGrid members related to the Windows Forms designer infrastructure and the names of the iGrid.NET assemblies were corrected and changed respectively.

Now all iGrid.NET assemblies are named using the scheme <main_assembly_name>.vN.M.dll, where N is the major version, M is the minor version of the component. For instance, the current version of the main iGrid.NET DLL is named TenTec.Windows.iGridLib.iGrid.v3.0.dll instead of TenTec.Windows.iGridLib.iGrid.dll for the previous builds.

No changes are required in your code except changing the reference link to point to the new DLL(s) of the component.

3. [New] After splitting the release version of the iGrid 3.0 component into two different assemblies to support .NET Framework 4.0 Client Profiles, a lot of useful internal values and methods have been made public. They were organized and renamed to conform to the general naming rules for iGrid members in this build.

First of all, these are the constants and static fields from the **iGStyleBase**, **iGCellStyle**, **iGColHdrStyle** classes used to define cell and column header styles. All these values start with "ConstDefault" and return the default values used for the corresponding style properties, for example **ConstDefaultBackColor**, **ConstDefaultTextAlign**, **ConstDefaultSelectable**, etc (26 values in all). These properties can be used in different scenarios – for instance, to know whether the corresponding property of a style has been changed or not.

The second category is the methods used to determine the current mouse state and to test whether the specified point belongs to a constituent part of iGrid. These are the **IsMouseCaptured**, **IsPointOverHScrollBar**, **IsPointOverVScrollBar**, **IsPointOverSizeBox**, **IsPointOverHeader**, **IsPointOverRowHeader**, **IsPointOverCellsArea**, **IsPointOverRowLevelArea** methods.

4. [New] The **iGIndent** type used to specify cell indents has the new **EqualsTo** method you can use to compare two instances of this class. It also has the new public constant value **ConstNotSetFieldValue** used as the value for each indent when it is not specified.

5. [Improved] If you used the iGrid drop-down list to enter cell values, the TAB key moved the selection in the drop-down list to the next item while it is open. Now this key is used to finish the text editing in the current cell with the drop-down box and place the typed text as is. The input focus is moved to the next cell like it is done for normal text cells when TAB is pressed.
6. [Improved] Meaningful descriptions were added to the main public parts of iGrid to help to understand their purpose (based on the .NET **DescriptionAttribute** class).
7. [Improved] The properties of PrintManager were better categorized to make it much easier to find the required property in the Property Browser. The following new categories were introduced for that: "Behavior", "Document Sections", "User Interface".
8. [Improved] The most of the standard Windows Forms controls which have collection properties always display them as bold (changed) in the Property Editor even if they do not have any items. Among them **ListBox.Items**, **ListView.Columns**, **ListView.Items**, etc. Previous builds of iGrid also went this way, but in this release the behavior of the control in the designer was enhanced, and its collections properties **iGrid.Rows**, **iGrid.Cols**, **iGDropDownList.Items** are not displayed in bold if they do not have items.
9. [Improved] When you place a new instance of iGrid on a form, 3 additional style objects are created automatically for the **DefaultCol.CellStyle**, **DefaultCol.ColHdrStyle**, **RowTextCol.CellStyle** object properties, and this allows you to set any properties of the styles without the need to create and select them in these properties manually. Because of this, the **DefaultCol**, **DefaultCol**, **RowTextCol** properties were always marked as bold (changed) in the Property Browser even if you did not change them.

In this build, they are displayed as non-changed by default which is the expectation of any developer. This effect is achieved by ignoring the change status of the **Name** property of the style objects listed above.

10. [Improved] When you place iGrid on a form, iGrid automatically calculates the header height to display one row of text in its column headers without clipping taking into account the default font settings. When visual styles are turned on (which is true in the vast majority of cases when iGrid is used in the interface), the required header height equals 19 pixels. The default header height was changed from 18 to 19 in this release to display the **Header.Height** property as non-changed (not in bold text) in the Property Editor if you did not change it.
11. [Change] The **e.SearchText** argument of the **SearchAsTypeCustomCompare** event of the **iGrid** and **iGDropDownList** objects is passed "as is" but not in upper case as it was in the previous builds. Due to this change, the developers can implement case-sensitive custom searching and filtering in the built-in drop-down lists.
12. [Fixed] Because of some problems with the obfuscation used in the release version of the product, the **ForeColor**, **TreeCol**, **TreeLines**, **TreeLines.Color** properties of **iGrid** were always highlighted as "changed" (as bold text) in the Property Editor and were always serialized in code generated by the Windows Forms Designer even if their default values were not changed.

The same concerns the **BackColor**, **ForeColor**, **SelectedItemBackColor**, **SelectedItemForeColor** properties of the **iGDropDownList** object, the **BackColor** and **ForeColor** properties of **iGDropDownListItem**, and the **TreeLineColor**, **PrintPreviewSettings** and **UIStrings** property of **iGPrintManager**.

13. [Fixed] The row headers weren't drawn for the fake rows below real rows when the grid lines were extended down (when iGrid's **GridLines.ExtendMode** property was set to **iGGridLinesMode.Vertical** or **iGGridLinesMode.Both**).
14. [Fixed] A localization error in the print-preview dialog of PrintManager. The "of" label on the toolbar wasn't changed to a custom value specified through the PrintManager's **UIStrings.PrintPreview.OfPagesLabelText** property.
15. [Fixed] The page setup dialog in PrintManager might display page margins incorrectly in metric culture settings.
16. [Renaming] The name of the event data in the **OnPaintBackground** method you can override was changed from "pevent" to "e" to conform the general naming system.
17. [Improved][Fixed] The help system for iGrid was significantly enhanced:
 - New conceptual topics were added, some existing topics were redesigned to make it clearer the used concepts.
 - The PrintManager manual was completely rewritten for better understanding of the tasks the component can do.
 - A series of problems with help in the VS2010 format were fixed (hierarchical topic structure, very small fonts for comfort reading).
 - Missing member descriptions were added.
 - Broken links to standard .NET classes and iGrid members were repaired.