10Tec iGrid for .NET 6.x
What's New in the Control

Tags used to classify changes:

- [New] – a totally new feature;
- [Change] – a change in a member functionality or interactive behavior;
- [Fixed] – a fixed bug or solved problem;
- [Removed] – a member was completely removed;
- [Enhancement] – some functionality was enhanced;
- [Optimization] – a feature has speed improvements;
- [Renaming] – a member was renamed;
- [Code-Upgrade] – the source code for the previous versions requires changes.

v6.00, build 0037 | 2020-Feb-12

1. [Fixed] iGrid crashed when the user tried to start editing by pressing a diacritical mark key that may affect the next pressed symbol. For example, these are the circumflex symbol **^** in German used to enter letters like **Â** (press ^ , A on the keyboard) or the accented letter **É** in Spanish (press ´ , E).
2. [Fixed] iGrid crashed while switching to the right-to-left mode by setting its **RightToLeft** property to the **RightToLeft.Yes** value.
3. [Fixed] A row moved to a new position in the 'stay sorted' mode after changing the value in one of its cells even if the row's **Sortable** property was set to False.

v6.00, build 0034 | 2019-Nov-01

1. [New] .NET Core 3.0 brings Windows Forms support. The source code of the core grid control was tested with the final release of this new Microsoft development platform and was amended to support it. This means that the iGrid.NET control can be also recompiled as a native .NET Core WinForms control and used in native .NET Core WinForms apps.
2. [Enhancement] The graphical resources of the iGrid control were optimized for smaller size. Some of them, which are used only at design time, were moved to the design-time DLL to minimize the size of the core grid control DLL redistributed with compiled apps.
3. [Enhancement] All rarely used graphical resources (specific row header glyphs like the error icon and the like) are loaded on-the-fly only when they are really needed.
4. [Enhancement] The triangle arrow glyph in 3D/flat combo buttons and scroll bar buttons is centered better compared to the previous versions.
5. [Fixed] The **iGCell.EffectiveBackColor** property returned an incorrect value if alternating row colors were set with the **BackColorOddRows** and **BackColorEvenRows** properties of iGrid.
6. [Fixed] The read-only **iGColHdr.SpanRoot** property which cannot be edited at design time is no longer displayed in the Property Grid.
7. [Fixed] 32-bit images with translucent areas were not drawn correctly.

v6.00, build 0025 | 2019-Mar-14

1. [Enhancement] The previous builds of iGrid calculated the SUM, MIN, MAX and AVG aggregate functions in the footer by converting all cell values and the results to the **System.Double** data type. This led to unneeded rounding errors related to the floating-point arithmetic. For example, the sum of the values 56.46, 13.55 and -70.51 may have been displayed as "-0.500000000000004" instead of the expected result "0.5".

   To avoid this problem, now iGrid uses the **System.Decimal** data type for the calculation of the aggregate functions. The speed of code execution did not suffer from this change.

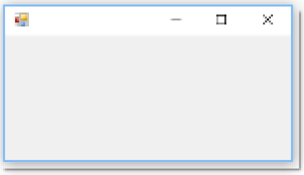
The algorithm calculating aggregate functions was also optimized. Now it works much faster in the situations listed below, especially while debugging an app with iGrid in the Visual Studio IDE:

- when cell values were not set or contain **System.DBNull** (the latter often happens when iGrid is populated from a database);
- when cell values are strings that cannot be converted to numbers (for example, a cell contains an empty string or a string like "n/a" to indicate a missing value).

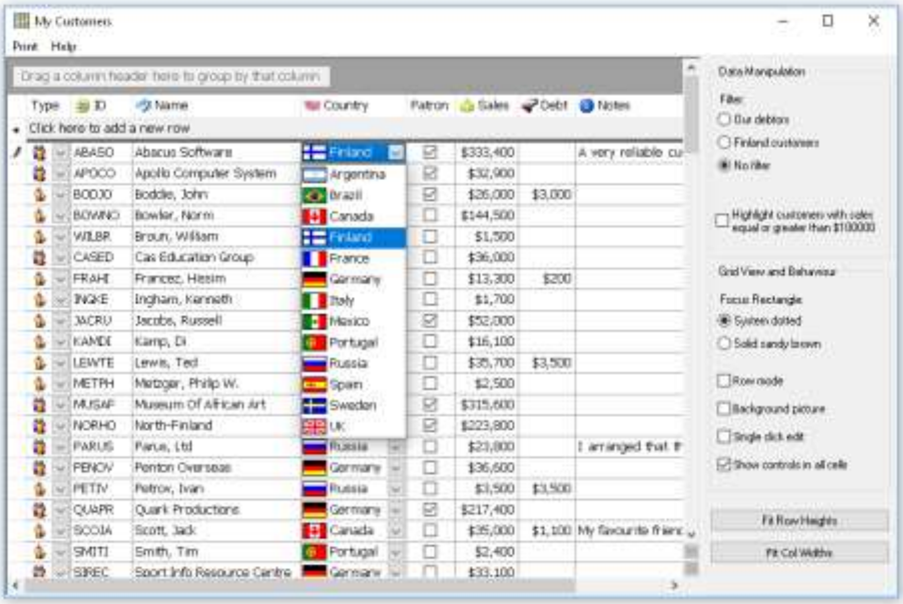
2. [Enhancement][Change] iGrid always displayed the tooltip for a column header placed in the group box, but this tooltip was useless in the vast majority of cases as the width of the column header in the group box is automatically set to a width enough to display the column header text without clipping. This build of iGrid does not display tooltips for grouped column headers by default, but they can be enabled and the tooltip text can be adjusted if required with the **RequestColHdrToolTipText** event.
3. [Fixed] The **iGrid.RowHeader.DrawSystem** property did not work.
4. [Fixed] PrintManager threw a **System.ArgumentException** while printing iGrid with a font with the measurement unit set to **GraphicsUnit.Pixel**.
5. [Fixed] The cell image was not clipped by the cell boundaries while printing iGrid with the PrintManager component.
6. [Fixed] Problems with sort info layout in column headers in Right-to-Left mode were fixed.

v6.00, build 0018 | 2018-Aug-28

1. [Fixed][Enhancement] A serious problem related to the iGrid drop-down controls infrastructure was fixed. If the user opened a built-in drop-down list (**iGDropDownList**) or a custom drop-down control based on the **IiGDropDownControl** interface, any new form created in the same app may have had a parasitic double shadow. This effect was especially noticeable in Windows 10:



The problem was related to the internal implementation of the WinForms package in .NET and the system shadow effect used for iGrid drop-down controls since Windows XP. The new implementation of shadows behind drop-down controls introduced in this update of iGrid is based on the modern Aero theme used in the latest versions of Microsoft Windows. An unobtrusive shadow similar to the shadow around top-level windows is displayed around drop-down controls in iGrid now, which creates a consistent look and feel with other windows in the OS:


My Customers
Print
Help
Drag a column header here to group by that column
Click here to add a new row
Fit Row Heights
Fit Col Widths

Type	ID	Name	Country	Patron	Sales	Debt	Notes
	ABASO	Abacus Software	Finland	☑	$333,400		A very reliable cu
	APOCO	Apollo Computer System	Argentina	☑	$32,900		
	BODJO	Boddie, John	Brazil	☑	$26,000	$3,000	
	BOWNO	Bowler, Norm	Canada	☐	$144,500		
	WILBR	Broun, William	Finland	☐	$1,500		
	CASED	Cas Education Group	France	☐	$36,000		
	FRAHI	Francez, Hesim	Germany	☐	$13,300	$200	
	INGKE	Ingham, Kenneth	Italy	☐	$1,700		
	JACRU	Jacobs, Russell	Mexico	☑	$52,000		
	KAMDI	Kamp, Di	Portugal	☐	$16,100		
	LEWTE	Lewis, Ted	Russia	☐	$35,700	$3,500	
	METPH	Metzger, Philip W.	Spain	☐	$2,500		
	MUSAF	Museum Of African Art	Sweden	☑	$315,600		
	NORHO	North-Finland	UK	☑	$223,800		
	PARUS	Parus, Ltd	Russia	☐	$23,800		I arranged that t
	PENOV	Penton Overseas	Germany	☐	$36,600		
	PETIV	Petrov, Ivan	Russia	☐	$3,500	$3,500	
	QUAPR	Quark Productions	Germany	☑	$217,400		
	SCOJA	Scott, Jack	Canada	☐	$35,000	$1,100	My favourite frienc
	SMITI	Smith, Tim	Portugal	☐	$2,400		
	SIREC	Sport Info Resource Centre	Germany	☐	$33,100		

Data Manipulation

Filter:
○ Our debtors
○ Finland customers
● No filter

☐ Highlight customers with sales equal or greater than $100000

Grid View and Behaviour

Focus Rectangle
● System dotted
○ Solid sandy brown

☐ Row mode
☐ Background picture
☐ Single click edit
☑ Show controls in all cells

The new implementation also solves one more problem with shadows under iGrid drop-down lists in its previous builds. If a dialog was displayed from an event handler of the **BeforeCommitEdit** event when the user selected an item in the list, the shadow behind the drop-down list disappeared while the dialog was active. In the new build of iGrid this shadow remains but becomes less strong indicating the fact that the input focus was moved to another window.

2. [Fixed] The **iGRow.AutoHeight()** and **iGRowCollection.AutoHeight()** methods did not work correctly if the processed rows contained cells merged horizontally. The same problem was fixed for the **iGCol.AutoWidth()** and **iGColCollection.AutoWidth()** methods if columns contained cells merged vertically.

3. [Fixed] Changes in the **Header.SeparatingLine** property of one iGrid were copied to all other grids in the application. The same problem was fixed for the **Footer.SeparatingLine** property.

4. [Fixed] iGrid did not draw its rows correctly after moving or hiding/showing them.

v6.00, build 0012 | 2018-May-18

1. [Enhancement] The level indent area of a cell in the tree column is filled with the background color specified not only in the row cell style, but also in the cell's style or the column's cell style. The **ColorizeRowLevelIndent** property of iGrid now can be used to specify whether iGrid fills the level indent area in the cells of a tree column with the colors listed above.

2. [Fixed] If keys were specified for rows, iGrid threw an exception when the developer tried to move rows from code using the **iGRow.Move()** method or by changing the **iGRow.Index** property.

3. [Fixed] iGrid crashed when the user clicked the empty header area after the last column header.

4. [Fixed] iGrid did not draw the horizontal grid lines in the cells of the tree column properly after merging some cells in the grid.

5. [Fixed] Merged cells intersecting with selected rows in row mode were drawn using the individual cell selection colors defined in the **SelCellsForeColor** and **SelCellsBackColor** properties instead of the colors defined in the **SelRowsForeColor** and **SelRowsBackColor** properties.

6. [Fixed] If the **ShowControlsInAllCells** property was set to False, iGrid did not display the drop-down list when the cell combo button was pressed.

7. [Fixed] If you set background colors for odd and even rows with the **BackColorOddRows** and **BackColorEvenRows** properties of iGrid, merged cells spanning rows may have switched their background color during vertical scrolling of iGrid.

8. [Fixed] The **MergeCellsInCols** method failed for cells with null values.

9. [Fixed] If iGrid had invisible columns that had been moved, setting the **iGCell.Selected** property to True did not result in selecting the cell in some cases.

10. [Fixed] In apps compiled for .NET Framework 4.5 or higher, the filter box dialog of AutoFilterManager decreased in height and width by 8 pixels with every opening. The issue was related to the implementation of **SystemInformation.FrameBorderSize** in .NET that returns incorrect values in .NET 4.5 and higher versions.

    To find out more about this issue in .NET 4.5+, read the following StackOverflow discussion:

    https://stackoverflow.com/questions/12856708/the-systeminformation-framebordersize-return-wrong-size

11. [Fixed] Reordering columns or rows with non-empty keys in the corresponding collection editors at design time led to the "Key already exists" error and corrupted column/row set at an attempt to save the changes.

12. [Fixed] The **TreeCol** and **SearchAsType.SearchCol** properties of iGrid could be set to incorrect values after changing the column set in the column collection editor at design time.