Ignite UI™ 2016.1 Release Notes





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Installation

Downloading

Download Ignite UI 2016.1 SR here.

Release Notes

Work Item ID	Component	Product Impact	Description
219525	AngularJS	Improvement	When several changes in the scope are applied they are not correctly reflected in the igGrid
212010	Angularis	Dug Fiv	Unable to update ng-model from a promise in igCombo using Angular directives Note:
212018	AngularJS	Bug Fix	Store the model value and apply it after the new data source has been set
220072	AngularJS Directives	Improvement	igHierarchicalGrid is rendered on a DIV instead of a TABLE
216892	AngularJS Two-way data binding	Bug Fix	Updating the scope does not apply the changes to the correct cell when there are fixed columns Note: Use cellById API method of the grid to get proper cell which needs to updated. The problem was introduced when there are fixed columns.
217774	Excel Engine	Bug Fix	Saving a workbook with pivot table breaks the pivot table in the exported file
220873	General	Bug Fix	NuGet wrong version for the help
189051	igChart	Bug Fix	igDataChart - categoryTooltip with no data right before being destroyed
215652	igChart	Bug Fix	[igDataChart] LegendItemTemplate callbacks are not fired Note: LegendItemTemplates are now working for fragment series in stacked charts.





215022	igChart	Bug Fix	Legend items are not properly ordered for a composite chart if reverseLegendOrder is set true for StackedSeries. Note: Legend items are now ordered correctly when stacked and non-stacked series are combined, and ReverseLegendOrder is set to true.
204637	igChart	Bug Fix	The last datapoint label remains visible even the datapoint is removed and notified to the chart Note: A scenario when removing the last category item might leave a label on a category axis has been resolved.
204639	igChart	Bug Fix	notifyClearItems API method does not notify the update to the chart Note: A scenario with labels and tickmarks could be left behind when clearing a data source has been resolved.
216333	igCombo	Bug Fix	Pressing Backspace before confirmation breaks the autocomplete IME input
219244	igCombo	Bug Fix	Composing 2 Japanese characters in a row and then confirming cause their doubling
214817	igCombo	Bug Fix	No events are fired when custom value is entered
219190	igDataSource	Improvement	Grid is throwing an error when the data source is empty Note: Check whether there is a data source applied, before using the responseDataKey value. This is allowing the grid to be initialized properly with an empty data source.
216748	igDateEditor	Bug Fix	igDateEditor fails to set min/max value when it's exceeded and revertIfNotValid is false
218752	igDateEditor	Bug Fix	Incorrect input date when changing from the last day of a long month to any day of a short month.
216938	igDatePicker	Bug Fix	itemSelected event is fired without arguments
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217219	igDatePicker	Bug Fix	Incorrect selected date when changing from the last day of a long month to any day of a short month.
216620	igDatePicker	Bug Fix	igDatePicker min(max)Date is not correctly displayed
218564	igDoughnutChart	Improvement	notifyInsertItem method cannot be called Note: notifyClearItems, notifyInsertItem, notifyRemoveItem, and notifySetItem are now implemented as documented in igDoughnutChart
218717	igFileUpload	Improvement	After file uploaded successfully with Ajax, the client cannot receive JSON response data from the server. Note: In case of successful upload and it is sent JSON - JavaScript error is thrown because igUpload expects ONLY XML to be sent. igUpload now parses JSON in format {error: ", serverMessage: "}
213539	igFileUpload	Bug Fix	Filename is truncated on the server if it contains ";" in it Note: If try to upload a file with name having character ";" - file is uploaded but the name of the uploaded file is not properly set
211227	igGauge	Bug Fix	igLinearGauge doesn't accept values of 'maximumValue' less than 0.051
217557	igGrid	Bug Fix	If the grid does not have height has Vertical Scrollbar method returns true.
219550	igGrid	Bug Fix	Empty horizontal scrollbar appears when the grid is bigger than the column sizes and its width is set in percent.
220190	igGrid	Bug Fix	Resizing the grid causes header appearance to break
220101	igGrid	Bug Fix	When Virtualization is enabled and grid width is not set columns have incorrect width





			Dropdown calendar keeps showing in the same location when Enter key is pressed and editing cell moves down. Note: Resolved an issue with the end edit procedure of igGridUpdating not recognizing and closing the datepicker dropdown causing it to remain hanging on its original
220506	igGrid	Bug Fix	place.
219237	igGrid	Improvement	mapper function is not available in MVC wrapper
212862	igGrid	Bug Fix	When dataType is not explicitly set the grid should auto detect it or use the default "string" type
			Grid with 100% height requires its container to have explicitly set height Note:
-	igGrid	Breaking Change	This was not a requirement in the previous versions
219915	igGrid (AppendRowsOnDemand)	Bug Fix	igGrid AppendRowsOnDemand does not function properly when initialized on a widget element that is initially detached from the document
214618	igGrid (ColumnFixing)	Bug Fix	When fixing and unfixing the last column on a resized window in a grid with 100% width the column widths are changed compared to their initial widths
214716	igGrid (ColumnFixing)	Bug Fix	The vertical scrollbar position is incorrect after fixing a few columns
217439	igGrid (ColumnFixing)	Bug Fix	When Column Fixing and cell Selection is enabled (and there is at least one fixed column) trying to navigate from the first cell (from the first record) as pressing key UP - grid is not scrolled to the selected cell (at the bottom) in Internet Explorer
218834	igGrid (ColumnFixing)	Bug Fix	Scrolling is not possible with mouse wheel after unfixing a right fixed column
218851	igGrid (ColumnFixing)	Bug Fix	Hiding when having a fixed column, autofitLastColumn: false and the columns are smaller than the grid width auto-fits the headers
219197	igGrid (ColumnFixing)	Bug Fix	When Column Fixing, with direction "right" and cell Selection is enabled (and there is at least one fixed column) trying to navigate from the first cell (from the first record of the unfixed area) as pressing key UP - grid is not scrolled
219547	igGrid (ColumnFixing)	Bug Fix	Fixing the last column when having continuous virtualization, grid width in pixels and fixing Direction "right" results in a gap between fixed and unfixed area of the





		grid
219548 igGrid (ColumnFixing)	Bug Fix	Fixing and unfixing the last column with fixing Direction "right" and grid width set in percent shrinks the header row.
220151 igGrid (ColumnFixing)	Bug Fix	Horizontal scroll container is not at proper position when there is initially fixed columns and grid width is set in $\%$
220182 igGrid (ColumnFixing)	Bug Fix	Resizing is not working properly when fixing direction is "right" and grid width is set in % (rowVirtualization should be enabled)
220336 igGrid (ColumnFixing)	Bug Fix	There is blank space for horizontal scrollbar when there are fixed columns and fixing direction is "right"
220337 igGrid (ColumnFixing)	Bug Fix	Resizing grid in pixels causes white line to appear in the unfixed area when fixing direction is "right" and virtualization is enabled
220495 igGrid (ColumnFixing)	Bug Fix	Setting dynamically width of the grid in percentage when fixing direction is "right" and there is at least one fixed column causes width of the horizontal bar to be incorrect
220512 igGrid (ColumnFixing)	Bug Fix	Incorrect width of grid with virtualization enabled in case of grid width is set in % and there is initially fixed column
220537 igGrid (ColumnFixing)	Bug Fix	Last column is not automatically adjusted when there is fixed column and grid width is in percentage and width of the grid is changed dynamically
220556 igGrid (ColumnFixing)	Bug Fix	Changing dynamically width (in percentages) of the virtual grid (virtualization enabled) when fixing direction is "right" causes unfixed part header to be with incorrect width
218722 igGrid (ColumnFixing)	Bug Fix	Error saying fixedTable is undefined occurs when showHeader is false and Column Fixing is enabled. Note: When there are initially fixed columns and option showHeader is set to false - JavaScript error is thrown





218799	igGrid (ColumnFixing)	Bug Fix	Setting a column as hidden in grid with Column Fixing with columns fixed and Multi-Column Headers enabled, when unhiding columns causes column to not render properly Note: Grid header is not properly rendered when there are initially fixed columns and grid has Multi-Column Headers.
217368	igGrid (ColumnFixing)	Bug Fix	Scrolling speed of the unfixed part of the grid is very slow on Google Chrome 49 on Windows 7. Note: When there is grid with fixed columns and user tries to scroll unfixed container with mouse wheel - scrolling is very slow.
209693	igGrid (ColumnHiding)	Bug Fix	Hiding more than one column using Column Chooser when width of the grid is not set does not update it in Mozilla Firefox
219911	igGrid (ColumnHiding)	Bug Fix	igGrid Hiding does not function properly when initialized on a widget element that is initially detached from the document
209487	igGrid (ColumnMoving)	Bug Fix	More accurate/intuitive rendering of the column indicator when using deferred mode Note: Improved certain areas in the integration between Column Fixing and Column Moving. Indicators will no longer incorrectly show at the wrong place when the header hovers at same place. Fixed an issue causing the moving operation to be executed with parameters that are not the same as the indicator shows.
217001	igGrid (ColumnResizing)	Bug Fix	Resizing does not take into account the vertical scrollbar and some of cell text is not fully visible after resizing
218362	igGrid (ColumnResizing)	Bug Fix	Height of the grid is incorrect after resizing a column
220483	igGrid (ColumnResizing)	Bug Fix	Resizing grid in % when columns widths are in % does not resize correctly
220563	igGrid (ColumnResizing)	Bug Fix	Exception is thrown when resizing column with API resize method and showHeaders option is set to false





219935	igGrid (ColumnResizing)	Bug Fix	Column Resizing does not work when Multi-Column Headers and Column Fixing are enabled, and grid is initialized while it is invisible Note: If grid is instantiated on hidden element and there is at least one initially fixed column (and Column Resizing is enabled) - it is not possible to resize any column when grid is shown.
216890	igGrid (ColumnResizing)	Bug Fix	Column outerWidth gets larger by 3px than the size specified in resize method when rowVirtualization is enabled.
217213	igGrid (ColumnResizing)	Bug Fix	When using Multi-Column Headers, Hiding and Resizing, can't resize the second from the last column after showing the last column. Note: When the grid has Multi-Column-Headers and last column is hidden showing it causes the second from the last column - can't be resized
219912	igGrid (FeatureChooser)	Bug Fix	igGrid Feature Chooser does not function properly when initialized on a widget element that is initially detached from the document
217507	igGrid (Filtering)	Bug Fix	filterDialogClosed event raises but the dialog is not actually closed Note: Event now raises after the dialog is closed.
219640	igGrid (Filtering)	Bug Fix	igGrid Filtering does not function properly when initialized on a widget element that is detached from the document
219702	igGrid (Filtering)	Bug Fix	Holding backspace on filter prevents filter from being cleared
219704	igGrid (Filtering)	Bug Fix	Text in filter Row is not localized for bool values
218972	igGrid (Filtering)	Bug Fix	rowVirtualization is not compatible with selectRow method while filtering the grid, it loses focus from the textbox of the filter. Note: Resolved an issue causing focus on rows from igGridSelection to be retained between virtualScrollTo API calls.
217214	igGrid (Filtering)	Bug Fix	Can't paste numeric text in the numeric filter editor.





215721	igGrid (Filtering)	Bug Fix	Grid throws an error when filtering is performed through API call while all filtering settings for all columns have allowFiltering option set to false
215249	igGrid (Filtering)	Bug Fix	filterDialogColumnDropDownDefaultWidth option does not change the width of the dropdown's inner input element.
220967	igGrid (Filtering)	Bug Fix	The first column is not shown in dropdown list on Advanced Filter window when Column Fixing is enabled and there is an initially hidden column
216435	igGrid (GroupBy)	Bug Fix	Grouping from different layouts when there is load on demand enabled is throwing an error
216651	igGrid (GroupBy)	Breaking Change (API)	Second grouping after custom grouping is applied is not correct Note: Added new option - compareFunc (option of columnSettings object) - it allows to use custom comparer function (used in sorting function of data source) for each column.
219914	igGrid (GroupBy)	Bug Fix	igGrid GroupBy does not function properly when initialized on a widget element that is initially detached from the document
218306	igGrid (GroupBy)	Breaking Change (Visual Appearance)	Column key is displayed instead of column header text in the grouping summary row when group summaries are enabled
214917	igGrid (igGridExcelExporter)	Bug Fix	When responseDataKey for both parent and child definitions is set to empty string "" a JavaScript error is thrown: _dataToExport is undefined
219038	igGrid (igGridExcelExporter)	Bug Fix	Trying to export igHierarchicalGrid with unbound column results in an error
215955	igGrid (igGridExcelExporter)	Improvement	User is not able to change event args values in event handlers
217471	igGrid (Knockout)	Bug Fix	When the data source is changed with another containing the same PKs, updating fails to refresh the UI in a Knockout grid Note: Resolved an issue in the Knockout grid extension causing rebinding with a data source containing the same PKs to fail when updating the UI through the rebindCells routine.
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219305	igGrid (Multicolumn headers)	Bug Fix	Multi-Column Headers don't render the specified rowSpan for the correct TH elements Note: If it is set option 'rowspan' for column object in Multi-Column Header scenario using MVC wrapper - it does not work as expected - it behaves like it is not set. igMultiColumnHeader feature expects option with name 'rowspan' but MVC wrapper renders it with name 'rowSpan'. We have deprecated option rowspan and it should be used option rowSpan. For backward compatibility for now both options - rowspan and rowSpan - could be used.
217291	<u> </u>	Bug Fix	\$(".ui-iggrid-scrolldiv") height is different when Responsive feature is enabled Note: Resolved an issue causing the grid's scroll container to be improperly sized when the Responsive feature is enabled.
209302	igGrid (RowSelectors)	Bug Fix	"Select all" overlay cannot be tabbed using keyboard navigation
216216	igGrid (RowSelectors)	Bug Fix	Calling igGridSelection.selectRow API in igGrid.rowsRendered event does not check the Row Selectors checkbox Note: Resolved an issue preventing Row Selectors from reacting to Selection API calls if they are done earlier than the last event in the grid's rendering chain.
217204		Bug Fix	multipleCellSelectOnClick option has no effect on the behavior of clicking cells Note: Resolved an issue preventing the multipleCellSelectOnClick from functioning correctly.
217520	igGrid (Selection)	Bug Fix	When Selection and Virtualization is enabled clicking on a last cell changes the horizontal scrollbar position in Internet Explorer





218974	igGrid (Selection)	Bug Fix	Another cell can't be selected when a cell is being edited and it is hidden in the scroll container. Note: Resolved an issue with Updating and Selection integration causing the grid to scroll to the cell or row that stopped being edited when editing ends due to a click on another row at a different scroll position.
215793	igGrid (Selection)	Bug Fix	Deselect row does not take into account virtualization frame start row index Note: Resolved an issue with deselectRow and deselectCell causing unexpected behavior in virtualization scenarios.
216337	igGrid (Sorting)	Bug Fix	Sorting style is lost if the grid is data bound and the page size or index is changed
216494	igGrid (Sorting)	Bug Fix	unsortColumn API does not remove the sorting indicator by index when the sorting is remote
218405	igGrid (Sorting)	Bug Fix	When there are 2 sorted columns and one of them has custom comparer function - for the other column it is used the same comparer function - not the default one
218407	igGrid (Sorting)	Bug Fix	Option compareFunc (custom comparer function) is not taken into account when initial sorting is set
217765	igGrid (Sorting)	Bug Fix	Sorting indicator appears after the second column sorting and calling dataBind Note: When calling dataBind(from API) after sorting is applied on 2 different columns causes sorting indicator to be shown to these 2 columns.
217283	igGrid (Sorting)	Bug Fix	Sorting style isn't removed after changing data source when virtualization = TRUE and persist = FALSE.
214911	igGrid (Summaries)	Bug Fix	Summaries don't have padding when there's a scrollbar in the grid
216360	igGrid (Summaries)	Improvement	Summaries icon gets white background when clicked





218809	igGrid (Summaries)	Bug Fix	Calling igGridUpdating.updateRow when fixed virtualization is enabled will destroy the igEditorFilters causing a JavaScript error to be thrown on subsequent edits Note: Resolved an issue causing editors to be destoyed and no editing to be doable when an Updating API call is done while the grid is in edit mode and there are virtualization and Summaries enabled.
218810	igGrid (Summaries)	Bug Fix	Calling igGridUpdating.updateRow on a grid which is in edit mode will exit edit mode if Summaries and row virtualization are enabled Note: When Summaries and Updating are enabled in virtual grid - and user is in edit mode - calling API funciton igGridUpdating.updateRow causes grid to exit edit mode.
217827	igGrid (Tooltips)	Bug Fix	igGridTooltips makes the igGridPaging element moves on hover
212641	igGrid (Updating)	Bug Fix	Cannot exit edit mode with ESC key in Firefox when the value of the editor is already changed
212661	igGrid (Updating)	Bug Fix	Value changes in the editCellEnding event arguments only work if the editor value has changed during edit mode.
215703	igGrid (Updating)	Bug Fix	When continuous virtualization is enabled you cannot delete all rows from the grid
216593	igGrid (Updating)	Bug Fix	The Delete button does not disappear when changing pages on iPad
216643	igGrid (Updating)	Bug Fix	Swipe to show Delete button works for group rows.
217148	igGrid (Updating)	Bug Fix	When opening the dialog for a row using 'startEdit' API the respective cell editor should be focused
215550	igGrid (Updating)	Improvement	Cannot change columnSettings option in editRowStarting event Note: Added the possibility of columnSettings being settable in a handler of the editRowStarting event.





218719	igGrid (Updating)	Bug Fix	The grid scrolls back to the top when a cell is updated in a grid with Virtualization and Summaries enabled
219169	igGrid (Updating)	Bug Fix	In grid with Virtualizatoin enabled when deleting row - summaries are not updated
220145	igGrid (Updating)	Bug Fix	setCellValue cannot set a new PK for a row
220146	igGrid (Updating)	Bug Fix	If updateRow is called with a list of values containing some for read-only columns while their row is in edit mode an error is thrown
220507	igGrid (Updating)	Bug Fix	Grid framework throws a TypeError on entering edit mode once jQuery UI tooltip is attached to the cell Note: Resolved an issue with Updating and other features failing to recognize which column a cell element belongs to when the ARIA-describedby attribute is modified by a third-party control resulting in an unspecific error.
219852	igGrid (Updating)	Bug Fix	igGrid not rendering Delete button on Internet Explorer 10 Note: Resolved an issue preventing the Delete button to show on hover in IE10.
219591	igGrid (Updating)	Bug Fix	Wrong date when clicking on datepicker editor inside grid cell
219252	igGrid (Updating)	Bug Fix	When exiting edit mode without making any changes, ui.update returns true for combo column Note: Changed the default EditorProviderCombo getValue function to return null when no item is selected which is more akin to what the grid's data source would work with compared to the previous empty array.
219252	igGrid (Updating)	Bug Fix	rowEditDialogOptions:editorsColumnWidth and namesColumnWidth options do not work properly with pixels Note: Resolved an issue with the default Row Edit Dialog's table rendering in auto layout thus setting column widths for the two columns in it is not adhered to properly.
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217826 igGrid (Updating)	Bug Fix	Hiding the validator message is not detected by Updating causing further messages to be hidden. Note: Resolved an issue preventing a validator message for a column from appearing if another validator message was shown and then hidden for a different column.
218338 igGrid (Updating)	Bug Fix	excelNavigationMode: true is not working when Updating and Summaries are enabled a cell is being edited and then navigated away with the arrow keys Note: Resolved an issue preventing vertical keyboard navigation when virtualization and Summaries are enabled with Updating.
216603 igGrid (Updating)	Bug Fix	Closing the dialog with ESC/Enter doesn't throw events if it wasn't closed through the Done/Cancel buttons at least once. Note: Resolved an issue causing no events to be fired for the first closing of the edit dialog if it's done by the keyboard (Enter/ESC).
215742 igGrid (Updating)	Bug Fix	Value of numeric cell increases or decreases when entering cell using excelNavigationMode Note: Resolved an issue causing editors that use arrow keys to change their value to incorrectly change their value while navigating through them with the arrow keys when excel navigation mode is turned on.
219580 igGrid (Virtualizatio	on) Bug Fix	Rows height fills the whole grid height when fixed virtualization is enabled and autoAdjustHeight is set to true after sorting
217438 igGrid (Virtualizatio	on) Bug Fix	Resizing the grid at runtime doesn't work when row virtualization is enabled and autoAdjustHeight=true
216646 igHierarchicalGrid (Selection) Bug Fix	Tabbing out of a child grid onto the parent grid in hierarchical grid doesn't remove state focus class of the parent cells
216632 igHierarchicalGrid (Updating) Bug Fix	Editing rows on different levels causes error





218847	igMaskEditor	Bug Fix	When you set the value option it doesn't use the mask pattern in igMaskEditor
218836	igMaskEditor	Bug Fix	The value method doesn't return correct value on keypress event in igMaskEditor
220479	igPercentEditor	Bug Fix	Insert method doesn't work properly for the igPercentEditor
220714	igRating	Bug Fix	Touch-optimized icons are not applied, looks pixelated
215830	igSparkline	Bug Fix	If verticalAxisVisibility is collapsed in Chrome cannot be set again to visible
217010	igSplitter	Bug Fix	Resizing of the splitter causes enlarge of the opposite size with 2px constantly
219776	igSplitter	Bug Fix	[igSplitter with Bootstrap] Not able to click down split bar triangle icon and when click on up triangle icon, it stick at the top of the page and not able to move it back. Note: The Bootstrap styles override Ignite UI styles and hide the clickable area of the button so one cannot click on the down arrow. The fix is to override Bootstrap styles but strictly for these 2 collapse/expand buttons of the splitter. Already set new box-sizing style for these buttons.
215743	igSplitter	Bug Fix	Splitter Pane sizing is not set in Edge when the CSS file for Bootstrap is added to the page Note: Edge present different boxing model than other browsers and present border width "" insead of "0px". This causes the bug.
217371	igTextEditor	Bug Fix	Full width numeric characters are converted to half width after IME composition end.
216789	igTextEditor	Bug Fix	Although setting includeKeys option, the user can paste any characters in the text editor.
189598	igTreeGrid	Bug Fix	toggleRow API method callback parameter is invoked before the rows are collapsed(or expanded) when virtualization is enabled
211091	igTreeGrid	Bug Fix	Header checkbox for TreeGrid with RowSelectors in triState mode doesn't get checked/unchecked properly when all rows are selected.





220137	igTreeGrid	Bug Fix	Focus is not correctly set when there are two igTreeGrids with the same primary key when Virtualization is enabled Note: Focusing the expand button from the proper igTreeGrid. It needs to be manually re-focused at first place, because of the virtualization, which rerenders the rows.
219952	igTreeGrid	Bug Fix	Expanding action is not consistent when there is Selection and it applies activation to the expansion indicator cell when there is Virtualization enabled Note: When clicking on expand icon container (but not directly on expand icon) - in case of row virtualization and row Selection is enabled for igTreeGrid - row is selected. When clicking on expand button/expand button container - it should behave in the same way - row should be toggled and selection should not be changed.
220561	igTreeGrid (ColumnResizing)	Bug Fix	Resizing TreeGrid runtime in % causes incorrect column widths when autofitLastColumn is false and Virtualization is enabled
207232	igTreeGrid (Selection)	Bug Fix	Row header for a selected row does not get applied "ui-state-checked" when you change the page, select all and return back to the previous page
216861	igTreeGrid (Tooltips)	Bug Fix	Tooltip with wrong content is shown while adding new child row in the TreeGrid
216403	igTreeGrid (Updating)	Bug Fix	"Add child row" button does not appear when swiping right on Surface
217502	igTreeGrid (Updating)	Bug Fix	When entering edit mode for not committed child in touch environment the "Add Child" button is enabled.
217521	igTreeGrid (Updating)	Bug Fix	The Done/Cancel buttons container is cut off in touch environment.
218850	igTreeGrid (Updating)	Bug Fix	rowAdding event does not return enough information about the parent of the row which is going to be added Note: The arguments of the events that are fired when adding new child now have parentID property.





218714	igTreeGrid (Updating)	Bug Fix	"Add new row" row is not rendered when igTreeGrid is created on DIV element. Note: If igTreeGrid is instantiated on DIV element and Updating is enabled - "Add new row" is not rendered.
218835	igVideoPlayer	Bug Fix	currentTime method does not work as setter in Internet Explorer 11
218005	JavaScript	Bug Fix	infragistics.dv.js does not support jQuery.noConflict() Note: Now infragistics.dv.js supports jQuery.noConflict.
218573	MVC Wrappers (Grid Sorting)	Bug Fix	compareFunc option is not available from the MVC wrapper
217562	Styling	Bug Fix	Cursor style is like text when hovering over expand/checkbox icons in Internet Explorer 11 and Edge (igTree, igTreeGrid, igGrid Selection, igPivotGrid, igCheckboxEditor)
210172	TypeScript	Bug Fix	All classes in module Infragistics are lacking methods in TypeScript definitions

