

ASP.NET Grid Feature Cheat Sheet

This guide is a feature-by-feature comparison of equivalent characteristics among the WebDataGrid™ and WebHierachicalDataGrid™ controls. Click on a feature to go directly to a code snippet.

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Notes

- An instance of the ScriptManager component is required in all instances.
- This cheat sheet is an excellent resource for UltraWebGrid customers looking to move to the WebDataGrid or WebHiearchicalDataGrid controls.
- The notation of 'Same' for WebHierarchicalDataGrid implementations does not necessarily indicate that the required code is exactly the same. You may have to access the grid slightly differently, but generally the approach is the same.

Adding Behaviors to WebHierachicalDataGrid Child Bands

The easiest way to expose a behavior enabled on the parent grid to a child band of an instance of the WebHierarchicalDataGrid is to set the behavior's EnableInheritance property to true on the top-level grid. If, for some reason, you opt to not enable inheritance of a behavior there are a number of ways you may enable a specific behavior for a child band.



Often the procedure to add a behavior to the parent grid of a WebHierarchicalDataGrid control is the same as described for the WebDataGrid control associated to a behavior in this document. However, in order to enable behaviors on a non-inherited child band, you must add the behavior directly to the band via the designer, in markup or in code.

The following code snippets demonstrate how to explicitly add the ColumnMoving behavior a child band, although you may add any grid behavior using this approach.

In the Designer

- 1. Enable Behavior on Child Band
 - 1.1. Open the Smart Tag
 - 1.2. Select Edit Bands
 - 1.3. Select a band
 - 1.4. Expand **Behaviors** section
 - 1.5. Check ColumnMoving
 - 1.6. Configure in dialog window

In ASPX



Code Snippets

Activation

WebDataGrid		WebHierarchicalDataGrid		
1. Enable Activation Behavior 1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Activation 1.4. Configure in dialog windo	w	1. Enable Activation Behavior 1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Activation 1.4. Configure in dialog window		
ActiveRowSelectorCssClass Behavior ActivationClientEvents	True	ActiveRowSelectorCssClass Behavior ActiveCellChanged ActiveCellChanging Initialize Enabled True Misc ActiveCellCssClass ActiveColumnCssClass ActiveRowCssClass ActiveRowCssClass ActiveRowSelectorImageCssClass ActiveRowSelectorImageCssClass AutoPostBackFlags		
Setting Active Cell on the Client function setActiveCell() { var grid = \$find("<%= this. var behaviors = grid.get_be var activation = behaviors. var rows = grid.get_rows(); var row = rows.get_row(0); var cell = row.get_cell(1); activation.set_activeCell(c	<pre>t WebDataGrid1.ClientID %>"); haviors(); get_activation();</pre>	<pre>Setting Active Cell on the Client - Parent Level function setActiveCellTopLevel() { var grid = \$find("WebHierarchicalDataGrid1").get_gridView(); var behaviors = grid.get_behaviors(); var activation = behaviors.get_activation(); var rows = grid.get_rows(); var row = rows.get_row(0); var cell = row.get_cell(1); activation.set_activeCell(cell); }</pre>		



```
Getting Active Cell on the Client
function getGetCell() {
   var grid = $find("<%= this.WebDataGrid1.ClientID %>");
   var behaviors = grid.get_behaviors();
   var activation = behaviors.get_activation();
   return activation.get_activeCell();
}
More Info
```

WebDataGrid Activation

```
Setting Active Cell on the Client – Parent Level
function setActiveCellRowIsland() {
    var grid = $find("WebHierarchicalDataGrid1");
    var parentGrid = grid.get gridView();
    if (parentGrid != null) {
        var rows = parentGrid.get rows();
        var row = rows.get row(0);
        var cell = row.get cell(2);
        var childGrid = row.get_rowIslands(0)[0];
        if (childGrid != null) {
            var behaviors = childGrid.get behaviors();
            var activation = behaviors.get activation()
            var cRows = childGrid.get rows();
            var cRow = cRows.get row(0);
            var cCell = cRow.get_cell(0);
            activation.set activeCell(cCell);
       }
}
Getting Active Cell on the Client - Parent Level
function getActiveCellTopLevel() {
    var grid = $find("WebHierarchicalDataGrid1").get gridView();
    var behaviors = grid.get behaviors();
    var activation = behaviors.get activation();
    return activation.get activeCell();
Getting Active Cell on the Client – Row Island Level
function getActiveCellRowIsland() {
    var grid = $find("WebHierarchicalDataGrid1");
    var parentGrid = grid.get gridView();
    var activeCell;
```



```
if (parentGrid != null) {
    var rows = parentGrid.get_rows();
    var row = rows.get_row(0);

    var childGrid = row.get_rowIslands(0)[0];

    if (childGrid != null) {
        var behaviors = childGrid.get_behaviors();
        var activation = behaviors.get_activation()
        activeCell = activation.get_activeCell();
    }
}

return activeCell;
}

More Info
    WebHierarchicalDataGrid Activation
```

Ajax: Events

WebDataGrid	WebHierarchicalDataGrid
 Create client handlers for Ajax events 1.1. Open the Properties window 1.2. Expand the Client Events group 1.3. Create a handler for AJAXResponse and AJAXResponseError 1.3.1.Generate the handler by clicking on the drop down and assigning a name to the function 	← Same
The following example depicts how your functions may look:	
<pre>function onAjaxResponseError(sender, eventArgs) { // do something on the client // in response to the Ajax error }</pre>	



```
function onAjaxResponse(sender, eventArgs) {
    // do something on the client
    // in response to the successful Ajax request
}
```

Ajax: Load on Demand (Automatic)

WebDataGrid	WebHierarchicalDataGrid
Not Implemented	Note: See Automatic Load on Demand section for basic settings.
	When the grid's EnableAjax property is set to True (default value), data interactions are asynchronous. If the property is set to False, data interactions result in a full page postback.

Ajax: Load on Demand (Manual)

WebDataGrid	WebHierarchicalDataGrid
Not Implemented	Achieving Load on Demand requires you to first bind to the top-level data source in Page_Load, and then the child-level data on during RowIslandsPopulating event.
	<pre>protected void Page_Load(object sender, EventArgs e) { this.WebHierarchicalDataGrid1.DataSource = thisproductRepository.GetAll(); }</pre>
	<pre>protected void WebHierarchicalDataGrid1_RowIslandsPopulating(object sender, Infragistics.Web.UI.GridControls.ContainerRowCancelEventArgs e) { e.Cancel = true;</pre>
	<pre>ContainerGrid child = new ContainerGrid(); // further configure container grid // by customizing columns, behaviors, etc. child.InitializeRow += new</pre>



Ajax: Loading Indicator

Ajax: Loading Indicator				
WebDataGrid		WebHierarchicalDataGrid		
 Configure the AjaxIndicator properties group Open the grid's properties in the Property window Expand the AjaxIndicator section		← Same		
.jaxIndicator	(Has Data)			
AltText	Async post			
BlockArea	NotSet			
BlockCssClass				
CssClass				
Enabled	NotSet			
FadeInDuration				
FadeInEquationType	EaseInOut			
FadeOutDuration				
${\sf FadeOutEquationType}$	EaseInOut			
ImageUrl	~/ajax-loader.gif			
Location	MiddleCenter			
OffsetLeft				
OffsetTop				
RelativeToControl	True			
Text				



loading indicator to work properly.

Ajax: Virtual Scrolling

We	ebDataGrid		
1.	1.1. Open the Smart Tag1.2. Select Edit Behaviors1.3. Check the Virtual Scro		
Δ	Behavior		
	AverageRowHeight	20	
	Data Fetch Delay	500	
	Enabled	True	
	RowCacheFactor	3	
	ScrollingMode	Virtual	
	ThresholdFactor	0.5	
	TooltipCssClass		
	TooltipVisibility	NotSet	
Δ	VirtualScrollingClientEvents		
	Format Tool Tip		
	Initialize		
	MoreRowsReceived		
	MoreRowsRequesting		

Automatic Load on Demand

WebDataGrid	WebHierarchicalDataGrid
Not Implemented	Set the InitialDataBindDepth property to the data levels desired during initial load. The default is 0 which only loads the root data. A value of -1 disables load on demand and loads all data levels.
	Note: See the <i>Ajax: Load on Demand (Automatic)</i> section for Ajax interactions



Columns: Hidden Columns

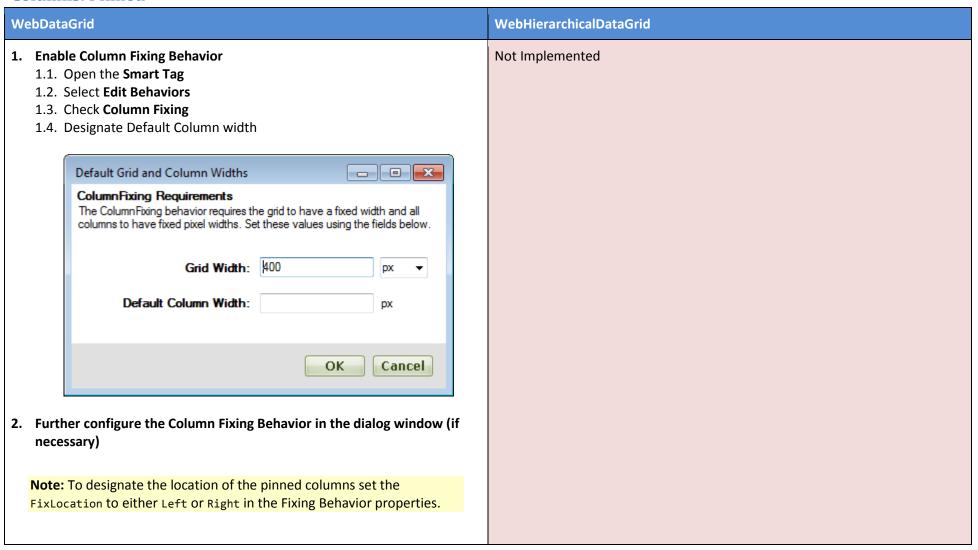
WebDataGrid	WebHierarchicalDataGrid	
1. Configure Column Settings for hidden column 1.1. Open the Smart Tag and select Edit Columns	← Same for parent grid	
1.2. Choose a column from Selected Fields1.3. Set: Hidden = True	To add behavior to child bands, see: Adding Behaviors to WebHierarchicalDataGrid Child Bands.	

Columns: Moving

WebDataGrid		WebHierarchicalDataGrid
1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Column Moving		← Same for parent grid To add behavior to child bands, see: Adding Behaviors WebHierarchicalDataGrid Child Bands.
1.4. Configure in dialog window		webnierarchicalbatagna chila banas.
△ Behavior		
■ ColumnMovingClientEvents		
HeaderDragEnd		
HeaderDragStart		
HeaderDropped		
HeaderMove		
Initialize		
Enabled	True	
[₫] Misc		
Bottom Drag Indicator Css Class		
ColumnSettings	(Collection)	
DragMarkupCssClass		
Drag Style Drag Style	Slide	
EnableInheritance	False	
MiddleDragIndicatorCssClass		
Top Drag Indicator Css Class		



Columns: Pinned



Columns: Resizing

WebDataGrid	WebHierarchicalDataGrid
1. Enable Column Resizing Behavior	← Same for parent grid



	1.1. Open the Smart Tag1.2. Select Edit Behaviors1.3. Check Column Resizing1.4. Configure in dialog window	
Δ	Behavior	
Δ	Column Resizing Client Events	
	ColumnResized	
	ColumnResizeDragging	
	ColumnResizing	
	Initialize	
	Enabled	True
Δ	Misc	
Δ	Auto Post Back Flags	
	ColumnResized	False
	ColumnSettings	(Collection)
	EnableInheritance	False
	ResizeIndicatorCssClass	

Columns: Unbound Columns

WebDataGrid	WebHierarchicalDataGrid	
 Create an UnboundField 	← Approach for the WebHierarchicalDataGrid is generally the same, although configuring for child bands requires you to add settings and apply the logic in scope of a child band.	



- 2.2. Double-click on the **RowInitialized** event
- 2.3. Implement the logic for your unbound field in the RowInitialized event handler

Creating an Unbound Column

The following code implements the logic for a total column which multiplies price by quantity.

UnitPrice	UnitsInStock	Total Retail
18.0000	39	\$702.00
DataType: DataForma	alRetail" ="System.Decimal" atString="{0:c2}":	
<pre> </pre>	der <mark>Text="Total Re</mark> Field>	etall />
In Code Behind Execute in Initial	lizeRow event hand	ller
using Infragistion	cs.Web.UI.GridCont	trols;
GridRecordItem und GridRecordItem beridRecordItem beridRecordI	ound1;	
<pre>int indexOfUnbour int indexOfBound? int indexOfBound?</pre>	1 = 3;	
bound1 = e.Row.I	Items[indexOfUnboutems[indexOfBound1 tems[indexOfBound1	1];
decimal unitPrice	e = Convert.ToDeci	imal(bound1.Value);



```
int qty = Convert.ToInt32(bound2.Value);
decimal total = unitPrice * qty;
e.Row.Items[indexOfUnbound].Value = total;
```

Columns: Checkbox Columns

WebDataGrid	WebHierarchicalDataGrid
Binding to a boolean field in the grid will create a BoundCheckboxField by default as the column type.	← Approach for the WebHierarchicalDataGrid is generally the same, although configuring for child bands requires you to add settings and assign the converter in scope of a child band.
Additionally, you may display any bound data as a checkbox field by implementing the IBooleanConverter interface.	
Binding Non-Boolean Data as Checkboxes In ASPX <columns></columns>	
<pre>In Code Behind public partial class WDG : System.Web.UI.Page { private int UNIT_PRICE_COLUMN_INDEX = 0; protected void Page_Load(object sender, EventArgs e) { BoundCheckBoxField field = (BoundCheckBoxField)</pre>	



```
public class UnitPriceConverter :
Infragistics.Web.UI.GridControls.IBooleanConverter
    public object DefaultFalseValue
        get { return 0; }
    public object DefaultTrueValue
        get { return 100; }
    public bool IsFalse(object value)
        if (value != null && value is decimal)
            return (decimal)value < 100;</pre>
        return false;
    }
    public bool IsTrue(object value)
        if (value != null && value is decimal)
            return (decimal)value >= 100;
        return false;
   Note: Your implementation will likely require support for other data
   types beyond a decimal type.
```

Columns: Summary Rows

	WebHierarchicalDataGrid
Add Summary Row Behavior 1.1. Open the Smart Tag	← Same for parent grid



- 1.2. Select Edit Behaviors
- 1.3. Check Summary Row

To add behavior to child bands, see: Adding Behaviors to WebHierarchicalDataGrid Child Bands.

Note: You can compact summaries by showing different summary details in the same row by setting CompactRendering to On.

CRUD: Auto

W	ebDataGrid	WebHierarchicalDataGrid
	UD actions for the grid are batched, therefore once your set up Auto CRUD u still need to add a control to the page to send change message back to the	← Same for parent grid
1 -	ver.	To add behavior to child bands, see: Adding Behaviors to WebHierarchicalDataGrid Child Bands.
1.	Setup the data source	3.110
	1.1. Bind the grid to a data source control that implements functionality for inserting, selecting, updating and deleting	
2.	Set the DataKeyFields property	
	2.1. From the Properties window set the DataKeyFields property the field name of the primary key value(s)	
3.	Enable editing behaviors	
	3.1. Open the Smart Tag	
	3.2. Select Edit Behaviors	
	3.3. Check Selection	
	3.3.1.Set RowSelectType equal to Single	
	3.4. Check Row Selectors	
	3.5. Check Editing Core	
	3.5.1.Ensure AutoCRUD is equal to True	
	3.6. Check Cell Editing	
	3.7. Check Row Adding	
	3.8. Check Row Deleting	
	3.9. Click OK	
4.	Add Control to Cause Postback	
	4.1. Add a control like a server Button to initiate postback to the server	



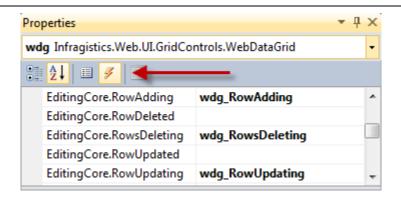
More Info

• WebDataGrid Auto CRUD (video)

CRUD: Manual

W	ebDataGrid	WebHierarchicalDataGrid
1.	Configure grid for manual CRUD operations	← Same for parent grid
	1.1. From the Properties window set the DataKeyFields property the field	
	name of the primary key value(s)	To add behavior to child bands, see: Adding Behaviors to
	1.2. Set the EnableAjax property equal to False	WebHierarchicalDataGrid Child Bands.
2.	Enable CRUD behaviors	
	2.1. Open the Smart Tag	
	2.2. Select Edit Behaviors	
	2.3. Check Selection	
	2.4. Check Row Selection	
	2.5. Check Activation	
	2.6. Check Editing Core	
	2.6.1.Ensure AutoCRUD is set to False	
	2.7. Check Cell Editing	
	<pre>2.7.1.Set EditModeActions -> EnableOnKeyPress equal to True</pre>	
	2.8. Check Row Adding	
	2.8.1.Set EditModeActions -> EnableOnKeyPress equal to True	
	2.9. Check Row Deleting	
3.	Subscribe to CRUD events	
	3.1. From the Properties window, double click on these events to create	
	event handlers:	
	3.1.1.EditingCore.RowAdding	
	3.1.2. EditingCore.RowDeleting	
	3.1.3. EditingCore.RowUpdating	





4. Implement CRUD logic

4.1. In general terms you must implement logic that facilitates the CRUD messages as well as expose the latest data to the grid. One approach you may use it to re-bind the grid on each page load and allow the event handlers to carry out the CRUD operations. The code snippets below reflect this design.

```
using Infragistics.Web.UI.GridControls;
...
public void BindData()
{
    this.wdg.Rows.Clear();
    this.wdg.DataSource = this.GetData();
    this.wdg.DataBind();
}

public IList<Person> GetData()
{
    // make a call to data access
    // layer to retrieve data

    // the return type does not have to be an IList
    // nor of type Person

    // the method signature is for placholder purposes only
}

protected void Page_Load(object sender, EventArgs e)
{
    if (!this.Page.IsPostBack)
```



```
this.BindData();
protected void wdg_RowAdding(object sender,
Infragistics.Web.UI.GridControls.RowAddingEventArgs e)
    Person person = new Person()
       FirstName = e.Values["FirstName"].ToString(),
       LastName = e.Values["LastName"].ToString()
    };
    this.Repository.Insert(person);
    this.BindData();
protected void wdg_RowsDeleting(object sender, RowDeletingEventArgs e)
    int id = Convert.ToInt32(e.Row.DataKey[0]);
    this.Repository.Delete(id);
    this.BindData();
protected void wdg RowUpdating(object sender,
Infragistics.Web.UI.GridControls.RowUpdatingEventArgs e)
    Person person = new Person()
        Id = Convert.ToInt32(e.Row.DataKey[0]),
       FirstName = e.Values["FirstName"].ToString(),
       LastName = e.Values["LastName"].ToString()
    };
    this.Repository.Update(person);
    this.BindData();
```

DataBinding: HeirachicalDataSource

WebDataGrid	WebHierarchicalDataGrid
Not Implemented	The WebHierarchicalDataSource control acts as a wrapper and connector for



two or more data source controls that correlate together via related fields.

The following procedure describes how to add two data sources as child views to the WebHierarchicalDataSource control.

- 1. Add a WebHierarchicalDataGrid to the page
- 2. Add and configure a WebHierarchicalDataSource control on the page
 - 2.1. Add a WebHierarchicalDataSource control to the page
 - 2.2. Set the ID property of the control to desired value
 - 2.3. Open the data source's **Smart Tag**
 - 2.4. Select Configure DataSource
 - 2.5. Click Add View
- 3. Add First Data Source
 - 3.1. From the **DataSource** drop down, select **New Data Source**
 - 3.2. Select a data source type from the dialog window
 - 3.2.1.Configure data source via data source configuration wizard and click **Finish**

Note: Make sure the data source includes selection of the foreign key field which will relate to the primary key value of the related data added in step 4.3.1.

- 3.3. Click **OK** in the WebHierarchicalDataSource Designer dialog window
- 4. Add Second Data Source
 - 4.1. Click **Add Child** under the data source you just created in the *Edit WebHierarchicalDataSource* dialog window
 - 4.2. Select **New Data Source** from the **Child Data Source** drop down
 - 4.3. Select a data source type from the dialog window
 - 4.3.1.Configure data source via data source configuration wizard and click **Finish**

Note: Make sure the data source includes selection of the primary key field which will relate to the foreign key value of the related data added in step 3.2.1.

- 5. Relate Fields Among Data Sources in *Edit WebHierarchicalDataSource* dialog window
 - 5.1. Click on the **Parent Columns** drop down



 5.1.1.Select the primary key field from the field options 5.2. Click on the Child Columns drop down 5.2.1.Select the foreign key field from the field options 5.3. Click OK 6. Close the Designer Dialog 6.1. Click OK 7. Associate the WebHierarchicalDataSource to the WebHierarchicalDataGrid 7.1. Open the grid's Smart Tag 7.2. Click on the drop down for Choose Data Source
 7.3. Select the ID of the WebHierarchicalDataSource as defined in step 2.2 Note: You may see a dialog box asking you if you want to regenerate the column and key settings for the grid. If you are setting up the grid for the first time then you may safely click Yes. If you are unsure, you may want to click No and manually configure the column and key options. More Info Getting Started with WebHierarchicalDataSource

DataBinding: DataSet

WebDataGrid	WebHierarchicalDataGrid
To bind a DataSet to the WebDataGrid, set the DataSource property equal to a DataSet and then call DataBind on the grid.	← Same
<pre>In Code Behind protected void Page_Load(object sender, EventArgs e) { ProductRepository repository = new ProductRepository(); DataSet ds = repository.GetAllDataSet(); this.WebDataGrid1.DataSource = ds; this.WebDataGrid1.DataBind(); }</pre>	



DataBinding: DataTable

WebDataGrid	WebHierarchicalDataGrid
To bind a DataTable to the WebDataGrid, set the DataSource property equal to a DataTable and then call DataBind on the grid.	← Same
<pre>In Code Behind protected void Page_Load(object sender, EventArgs e) { ProductRepository repository = new ProductRepository(); DataTable ds = repository.GetAllDataTable(); this.WebDataGrid1.DataSource = ds; this.WebDataGrid1.DataBind(); }</pre>	

DataBinding: IEnumerable

WebDataGrid	WebHierarchicalDataGrid
To bind IEnumerable collections to the WebDataGrid, set the DataSource property equal to an IEnumerable collection and then call DataBind on the grid.	← Same
<pre>In Code Behind protected void Page_Load(object sender, EventArgs e) { ProductRepository repository = new ProductRepository(); IEnumerable<product> data = repository.GetAllEnumerable(); this.WebDataGrid1.DataSource = data; this.WebDataGrid1.DataBind(); }</product></pre>	

DataBinding: AccessDataSource

WebDataGrid	WebHierarchicalDataGrid
1. Add a AccessDataSource control to the page 1.1. Drag a AccessDataSource control to the design surface 1.2. Open the Properties window and give the control a value for the Id property	Follow the procedure as described in <i>DataBinding: HierarchicalDataSource</i> and select AccessDataSource as the data source type for steps 3.2.1 and/or 4.3.1.



- 1.3. Open the data source's **Smart Tag**
- 1.4. Follow the wizard to complete configuration of the data source control
- 2. Associate the data source control to the grid
 - 2.1. Open the grid's **Smart Tag**
 - 2.2. Click on the drop down next to the label Choose Data Source
 - 2.3. Select the data source ID as defined in step 1.2

Note: You may see a dialog box asking you if you want to regenerate the column and key settings for the grid. If you are setting up the grid for the first time then you may safely click **Yes**. If you are unsure, you may want to click **No** and manually configure the column and key options.

DataBinding: SqlDataSource

W	ebDataGrid	WebHierarchicalDataGrid
1.	 Add a SqlDataSource control to the page 1.1. Drag a SqlDataSource control to the design surface 1.2. Open the Properties window and give the control a value for the Id property 1.3. Open the data source's Smart Tag 1.4. Follow the wizard to complete configuration of the data source control 	Follow the procedure as described in <i>DataBinding: HierarchicalDataSource</i> and select SqlDataSource as the data source type for steps 3.2.1 and/or 4.3.1.
2.		
	Note: You may see a dialog box asking you if you want to regenerate the column and key settings for the grid. If you are setting up the grid for the first time then you may safely click Yes . If you are unsure, you may want to click No and manually configure the column and key options.	



DataBinding: ObjectDataSource

WebDataGrid	WebHierarchicalDataGrid
 Add a ObjectDataSource control to the page 1.1. Drag a ObjectDataSource control to the design surface 1.2. Open the Properties window and give the control a value for the Id property 1.3. Open the data source's Smart Tag 1.4. Follow the wizard to complete configuration of the data source control Associate the data source control to the grid Open the grid's Smart Tag Click on the drop down next to the label Choose Data Source 	Follow the procedure as described in <i>DataBinding: Hierarchical Data</i> and select ObjectDataSource as the data source type for steps 3.2.1 and/or 4.3.1.
Note: You may see a dialog box asking you if you want to regenerate the column and key settings for the grid. If you are setting up the grid for the first time then you may safely click Yes. If you are unsure, you may want to click No and manually configure the column and key options.	

DataBinding: LinqDataSource

WebDataGrid	WebHierarchicalDataGrid
 Add a LinqDataSource control to the page 1.1. Drag a LinqDataSource control to the design surface 1.2. Open the Properties window and give the control a value for the Id property 1.3. Open the data source's Smart Tag 1.4. Follow the wizard to complete configuration of the data source control 	Follow the procedure as described in <i>DataBinding: Hierarchical Data</i> and select LinqDataSource as the data source type for steps 3.2.1 and/or 4.3.1.
 2. Associate the data source control to the grid 2.1. Open the grid's Smart Tag 2.2. Click on the drop down next to the label Choose Data Source 2.3. Select the data source ID as defined in step 1.2 	



Note: You may see a dialog box asking you if you want to regenerate the column and key settings for the grid. If you are setting up the grid for the first time then you may safely click **Yes**. If you are unsure, you may want to click **No** and manually configure the column and key options.

Editing: Adding Rows

WebDataGrid WebHierarchicalDataGrid 1. Setup the data source 1. Setup the data source 1.1. Bind the grid to a data source control that implements selection and 1.1. Bind the grid to a data source control that implements selection and inserting. inserting. 2. Set the DataKeyFields property 2. Set the DataKeyFields property 2.1. From the **Properties** window set the DataKeyFields property the field 2.1. From the **Properties** window set the DataKeyFields property the field name of the primary key value(s) name of the primary key value(s) 3. Enable editing behaviors 3. Enable editing behaviors 3.1. Open the Smart Tag 3.1. Open the **Smart Tag** 3.2. Select Edit Behaviors 3.2. Select Edit Behaviors 3.3. Check Editing Core 3.3. Check **Editing Core** On the Client On the Client function addRow() { Root Level var grid = \$find("<%= this.WebDataGrid1.ClientID %>"); var grid = \$find("WebHierarchicalDataGrid1"); // Fill array with all values to insert into the row var topRowIsland = grid.get gridView(); var values = ["10000", "New Product"]; var cellValues = ["1", "Bob", "Green", "1/2/1983"]; topRowIsland.get rows().add(cellValues); grid.get rows().add(values); Child Level var grid = \$find("WebHierarchicalDataGrid1"); On the Server To add rows to the grid on the server, add the data to your data source and revar childGrid = topRowIsland.get rows().get row(3).get rowIslands()[0]; cellValues = ["1", "25 Main Road", "New York", "NY", "19234"]; bind the grid. childGrid.get rows().add(cellValues); On the Server Customizations



You can further customize the process of adding new records on a column-by-column basis by providing values for DefaultValueAsString, ReadOnly, EditorID and ValidatorID on ColumnSettings.

```
In ASPX
<Behaviors>
    <ig:EditingCore>
        <Behaviors>
            <ig:RowAdding>
                <ColumnSettings>
                    <%-- Setting a default value for new data --%>
                     <ig:RowAddingColumnSetting</pre>
                         ColumnKey="Size"
                         DefaultValueAsString="3" />
                     <%-- Setting "Id" column to read-only, therefore</pre>
                     a value cannot be provided -- %>
                     <ig:RowAddingColumnSetting</pre>
                         ColumnKey="Id" ReadOnly="true" />
                     <%-- Setting up an editor & validator --%>
                     <ig:RowAddingColumnSetting</pre>
                         ColumnKey="OrderDate"
                         EditorID="DateTimePicker1"
                         ValidatorID="myValidator1" />
                 </ColumnSettings>
            </ig:RowAdding>
        </Behaviors>
    </ig:EditingCore>
</Behaviors>
In Code Behind
Execute in the Page Load event handler
RowAdding rowAddingBehavior =
this.WebDataGrid1.Behaviors.EditingCore.Behaviors.RowAdding;
/* Setting a default value for new data */
RowAddingColumnSetting sizeSetting = new RowAddingColumnSetting();
sizeSetting.ColumnKey = "Size";
sizeSetting.DefaultValueAsString = "3";
rowAddingBehavior.ColumnSettings.Add(sizeSetting);
/* Setting "Id" column as read only, therefore a value cannot be
```

To add rows to the grid on the server, add the data to your data source and rebind the grid.

Customizations

You can further customize the process of adding new records on a column-by-column basis by providing values for DefaultValueAsString, ReadOnly, EditorID and ValidatorID on ColumnSettings.

In ASPX

← The markup is basically the same for the WebHierarchicalDataGrid as it is for the WebDataGrid, you just need to customize the columns at the appropriate level in the grid.

In Code Behind

Execute in the InitializeBand event handler

```
if (e.Band.DataMember == "Root")
    RowAdding rowAddingBehavior =
        e.Band.Behaviors.EditingCore.Behaviors.RowAdding;
    /* Setting a default value for the new data */
    RowAddingColumnSetting sizeSetting = new RowAddingColumnSetting();
    sizeSetting.ColumnKey = "Size";
    sizeSetting.DefaultValueAsString = "3";
    rowAddingBehavior.ColumnSettings.Add(sizeSetting);
    /* Setting "Id" column as read only, therefore a value cannot be
provided */
    RowAddingColumnSetting idSetting = new RowAddingColumnSetting();
    idSetting.ColumnKey = "Id";
    idSetting.ReadOnly = true;
    rowAddingBehavior.ColumnSettings.Add(idSetting);
    /* Setting up an editor & validator */
    RowAddingColumnSetting orderDateSetting =
        new RowAddingColumnSetting();
    orderDateSetting.ColumnKey = "OrderDate";
    orderDateSetting.EditorID = "DateTimePicker1";
   orderDateSetting.ValidatorID = "myValidator1";
    rowAddingBehavior.ColumnSettings.Add(orderDateSetting);
```



```
provided */
                                                                         else if (e.Band.DataMember == "SecondLevel")
RowAddingColumnSetting idSetting = new RowAddingColumnSetting();
idSetting.ColumnKey = "Id";
                                                                             RowAdding rowAddingBehavior =
idSetting.ReadOnly = true;
                                                                                 e.Band.Behaviors.EditingCore.Behaviors.RowAdding;
rowAddingBehavior.ColumnSettings.Add(idSetting);
                                                                             /* Configuring child grids would use the same approach
                                                                                as shown above. */
/* Setting up an editor & validator */
RowAddingColumnSetting orderDateSetting = new RowAddingColumnSetting();
orderDateSetting.ColumnKey = "OrderDate";
orderDateSetting.EditorID = "DateTimePicker1";
orderDateSetting.ValidatorID = "myValidator1";
rowAddingBehavior.ColumnSettings.Add(orderDateSetting);
```

Editing: Deleting Rows

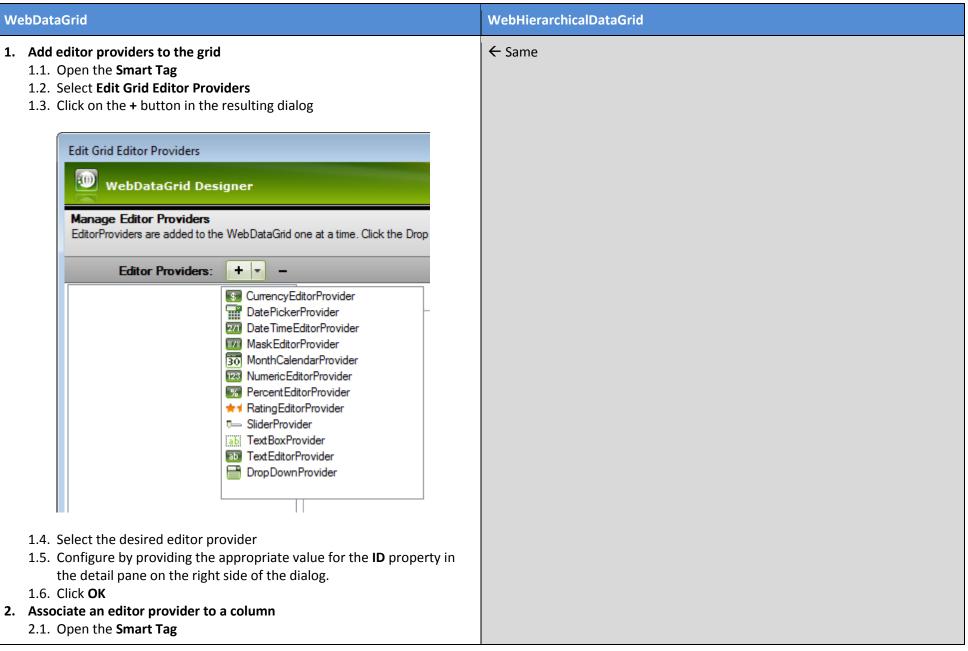
WebDataGrid	WebHierarchicalDataGrid
1. Add the Row Deleting behavior 1.1. Open the Smart Tag 1.2. Click Edit Behaviors 1.3. Check Selection 1.4. Check Editing Core 1.5. Check Row Deleting Once the deleting behavior is added to the grid then you may remove rows	1. Add the Row Deleting behavior 1.1. Open the Smart Tag 1.2. Click Edit Behaviors 1.3. Check Selection 1.4. Check Editing Core 1.5. Check Row Deleting Once the deleting behavior is added to the grid then you may remove rows
from the grid a number of different ways.	from the grid a number of different ways.
Note: If the data source attached to the grid is not automatically updated by the grid then you must handle the update events manually to make changes on the server.	Note : If the data source attached to the grid is not automatically updated by the grid then you must handle the update events manually to make changes on the server.
On the Server	On the Server
To remove a row from the grid on the server, remove the row from the data source and rebind the grid.	To remove a row from the grid on the server, remove the row from the data source and rebind the grid.
On the Client Delete Selected Rows - Basic	On the Client Delete Selected Rows at Any Level



```
var grid = $find('<%= WebDataGrid1.ClientID %>');
                                                                         var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
                                                                         var selection = grid.get gridView().
var gridRows = grid.get rows()
                                                                                                    get behaviors().
var selectedRows = grid.get behaviors().
                                                                                                    get selection();
                           get selection().
                           get selectedRows();
                                                                        // get selectedRowsResolved() gets selected rows across all grids
                                                                        // it returns a row array
var rows = new Array();
                                                                        var selectedRows = selection.get selectedRowsResolved();
var i1 = 0;
                                                                        for (var i=0; i < selectedRows.length; i++) {</pre>
for (var i = selectedRows.get length() - 1; i >= 0; i--) {
                                                                                  var row = selectedRows[i];
                                                                                  var containerGrid = row.get grid();
         rows[i1] = selectedRows.getItem(i);
                                                                                  var gridRows = containerGrid.get rows();
                                                                                  gridRows.remove(row);
      i1++:
grid.get behaviors().
                                                                         Delete non-Selected Rows
         get editingCore().
                                                                         var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
         get behaviors().
                                                                         var parentGrid = grid.get gridView();
         get rowDeleting().
                                                                         var row:
         deleteRows(rows);
                                                                         // Remove first PARENT row
Delete Selected Rows – Using 'Remove' Method
                                                                         row = parentGrid.get rows().get row(0);
                                                                        parentGrid.get rows().remove(row);
var grid = $find('<%= WebDataGrid1.ClientID %>');
var gridRows = grid.get rows()
                                                                         var childGrid = grid.get gridView().
                                                                                                    get rows().
var selectedRows = grid.get behaviors().
                                                                                                    get row(0).
                           get selection().
                                                                                                    get rowIslands(0)[0];
                           get selectedRows();
                                                                         // Remove first CHILD row
for (var i = selectedRows.get length() - 1; i >= 0; i--) {
                                                                         row = childGrid.get rows().get row(0);
         var row = selectedRows.getItem(i);
                                                                         childGrid.get rows().remove(row);
         gridRows.remove(row);
Delete non-Selected Rows
var grid = $find('<%= WebDataGrid1.ClientID %>');
var row = grid.get rows().get row(0);
grid.get rows().remove(row);
```



Editing: Embeddable Editors / Editor Providers





- 2.2. Select Edit Behaviors
- 2.3. Check Editing Core
- 2.4. Check **Cell Editing**
- 2.5. Click the ellipsis button on the **ColumnSettings** property
- 2.6. Click the add item button
- 2.7. Select a value for the **ColumnKey**
- 2.8. Select a value for the **EditorID**
- 2.9. Click **OK** on all open dialogs

Export to Excel

WebDataGrid	WebHierarchicalDataGrid
 Add a Reference to Infragistics.Documents.Excel Add a WebExcelExporter to the page 1.1. Drag the WebExcelExporter on the page 1.2. In the Properties window, set Id equal to eExporter Create a button to handle the export procedure 1.2. In the Properties window set the Id property equal to btnExport 2.1. Drag a Button onto the page 2.2. In the Properties window set the Id property equal to btnExport 2.3. Double-click on the button to create a click handler in the code behind 	← Same
<pre>In Code Behind Execute in the btnExport_Click event handler // file will get extension based upon workbook format this.eExporter.DownloadName = "data"; eExporter.WorkbookFormat = Infragistics.Documents.Excel.WorkbookFormat.Excel2007; // export mode- all grid data or all visible data eExporter.DataExportMode = Infragistics.Web.UI.GridControls.DataExportMode.AllDataInDataSource; // determines whether to apply DataFormatString to values before assigning to excel cell eExporter.DisableCellValueFormatting = true;</pre>	



```
// determines if styles should be exported
eExporter.EnableStylesExport = true;

// how many rows to place between multiple grids exported
eExporter.GridsRowSpacing = 2;

eExporter.Export(new WebControl[] { WebDataGrid1, WebDataGrid2 });
```

Export to PDF

WebDataGrid	WebHierarchicalDataGrid
 Add a WebDocumentExplorer to the page 1.1. Drag the WebDocumentExporer on the page 1.2. In the Properties window set Id equal to dExporter Create a button to handle the export procedure 1.2. Drag a Button on to the page 1.3. In the Properties window set the Id property equal to btnExport 1.3. Double-click on the button to create a click handler in the code behind 	← Same
In Code Behind Execute in the btnExport_Click event handler	
Execute in the benexport_click event handler	
<pre>this.dExporter.DownloadName = "data.pdf";</pre>	
<pre>dExporter.Format = Infragistics.Web.UI.GridControls.FileFormat.PDF;</pre>	
<pre>// export mode - all grid data or all visible data dExporter.DataExportMode = Infragistics.</pre>	
<pre>dExporter.TargetPaperOrientation = Infragistics.</pre>	



```
Portrait;
dExporter.Margins = PageMargins.Normal;
dExporter.TargetPaperSize = PageSizes.A4;
// export the grids from the page
// if you want to export more than two grids
// add them as WebControl[] array
dExporter.Export((WebDataGrid1, WebDataGrid2);
```

Filtering

WebDataGrid WebHierarchicalDataGrid 1. Add the Row Deleting behavior 1. Add the Row Deleting behavior 1.1. Open the Smart Tag 1.1. Open the Smart Tag 1.2. Click Edit Behaviors 1.2. Click Edit Behaviors 1.3. Check Filtering 1.3. Check **Filtering** 1.3.1.Set EnableInheritance equal to True Once the Filtering behavior is enabled on the grid the user may filter columns based on a number of different criteria: Once the Filtering behavior is enabled on the grid the user may filter columns based on a number of different criteria: Clear Filter ∇ Equals Clear Filter Does Not Equal Equals Begins With Does Not Equal Ends With Begins With Contains Ends With Does Not Contain Contains Is Null Does Not Contain Is Not Null Is Null Camembert Pierrot Is Not Null Camembert Pierrot By default the Filtering behavior is enabled for all columns with blank filter rules. The following snippets demonstrate how to programmatically customize By default the Filtering behavior is enabled for all columns with blank filter the filter settings. rules. The following snippets demonstrate how to programmatically customize the filter settings.



Disable Filtering for a Single Column

ASPX

```
<Behaviors>
       <ig:Filtering>
               <ColumnSettings>
                      <ig:ColumnFilteringSetting</pre>
                             ColumnKev="ProductName"
                              Enabled="false" />
               </ColumnSettings>
       </ig:Filtering>
</Behaviors>
Code Rehind
using Infragistics.Web.UI.GridControls;
ColumnFilteringSetting columnSetting = new
                   ColumnFilteringSetting(this.WebDataGrid1);
columnSetting.ColumnKey = "ProductName";
columnSetting.Enabled = false:
ColumnFilteringSettings settings = this.WebDataGrid1.
                                               Behaviors.
                                               Filtering.
                                               ColumnSettings;
settings.Add(columnSetting);
```

Predefined Column Filters

The snippets below show you how to implement a **text** filter, but the grid supports **boolean**, **date** and **number** filter rules as well.

```
Disable Filtering for a Single Column
ASPX - Root Level
<Behaviors>
    <ig:Filtering EnableInheritance="True">
        <ColumnSettings>
            <ig:ColumnFilteringSetting</pre>
                      ColumnKev="CompanyName"
                      Enabled="False" />
        </ColumnSettings>
    </ig:Filtering>
</Behaviors>
ASPX - Band Level
<Bands>
    <ig:Band ...>
. . .
        <Behaviors>
            <ig:Filtering>
                <ColumnSettings>
                    <ig:ColumnFilteringSetting</pre>
                              ColumnKey="CompanyName"
                              Enabled="False" />
                </ColumnSettings>
            </ig:Filtering>
        </Behaviors>
    </ig:Band>
</Bands>
Code Behind - Root Level
Execute in the Page Load event handler
ColumnFilteringSetting columnSetting = new
ColumnFilteringSetting(this.WebHierarchicalDataGrid1.GridView);
columnSetting.ColumnKey = "ProductName";
columnSetting.Enabled = false;
this.WebHierarchicalDataGrid1.
         GridView.
         Behaviors.
         Filtering.
         ColumnSettings.
         Add(columnSetting);
Code Behind – Band Level
```



```
ColumnFilter columnFilter = new ColumnFilter();
                                                                           Execute in the InitializeBand event hander.
columnFilter.ColumnKey = "ProductName";
columnFilter.Condition = textCondition;
                                                                           ColumnFilteringSetting settings = new ColumnFilteringSetting();
                                                                           settings.ColumnKey = "SupplierID";
this.grid.Behaviors.Filtering.ColumnFilters.Add(columnFilter);
                                                                           settings.Enabled = false;
                                                                           e.Band.Behaviors.Filtering.ColumnSettings.Add(settings);
this.WebDataGrid1.Behaviors.Filtering.ApplyFilter();
                                                                           Code Behind - Row Island Level
In JavaScript
                                                                           Execute in the RowIslandCreated event handler
var grid = $find("<%= this.WebDataGrid1.ClientID %>");
var columnFilter = grid.
                                                                           ColumnFilteringSetting columnSetting = new
                        get behaviors().
                                                                           ColumnFilteringSetting(e.RowIsland);
                        get filtering().
                                                                           columnSetting.ColumnKey = "SupplierID";
                        create columnFilter("ProductName");
                                                                           columnSetting.Enabled = false;
                                                                           e.RowIsland.Behaviors.Filtering.ColumnSettings.Add(columnSetting);
var condition2 = columnFilter2.get condition();
condition2.set_rule($IG.TextFilterRules.Contains);
                                                                           In JavaScript – Root Level
condition2.set value("al");
var columnFilters = new Array(columnFilter);
                                                                           In JavaScript – Band Level
grid.get behaviors().
                                                                           Predefined Column Filters
    get filtering().
                                                                           ASPX - Root Level
    add columnFilterRange(columnFilters);
                                                                           <Behaviors>
grid.get behaviors().get filtering().applyFilters();
                                                                               <ig:Filtering EnableInheritance="True">
                                                                                   <ColumnFilters>
                                                                                       <ig:ColumnFilter ColumnKey="ProductName">
                                                                                            <ConditionWrapper>
                                                                                                <ig:RuleTextNode Rule="Contains" Value="al" />
                                                                                            </ConditionWrapper>
                                                                                       </ig:ColumnFilter>
                                                                                   </ColumnFilters>
                                                                               </ig:Filtering>
                                                                           </Behaviors>
                                                                           ASPX - Band Level
                                                                           <Bands>
                                                                               <ig:Band ...>
                                                                                   <Behaviors>
                                                                                       <ColumnFilters>
                                                                                            <ig:ColumnFilter ColumnKey="CompanyName">
                                                                                                <ConditionWrapper>
                                                                                                    <ig:RuleTextNode</pre>
                                                                                                                 Rule="Contains"
```



```
Value="al" />
                    </ConditionWrapper>
                </ig:ColumnFilter>
            </ColumnFilters>
            </ig:Filtering>
        </Behaviors>
    </ig:Band>
</Bands>
Code Behind - Root Level
Execute in the Page Load event handler
ColumnFilter filter = new
ColumnFilter(this.WebHierarchicalDataGrid1.GridView);
filter.ColumnKey = "ProductName";
filter.Condition = new RuleTextNode(TextFilterRules.Contains, "al");
this.WebHierarchicalDataGrid1.
         GridView.
         Behaviors.
         Filtering.
         ColumnFilters.
         Add(filter);
Code Behind – Band Level
Execute in the InitializeBand event handler
ColumnFilter filter = new ColumnFilter();
filter.ColumnKey = "CompanyName";
filter.Condition = new RuleTextNode(
       TextFilterRules.Contains,
       "al");
e.Band.Behaviors.Filtering.ColumnFilters.Add(filter);
Code Behind – Row Island Level
Execute in the RowIslandCreated event handler
ColumnFilter filter = new ColumnFilter();
filter.ColumnKey = "CompanyName";
filter.Condition = new RuleTextNode(
       TextFilterRules.Contains,
       "al");
e.RowIsland.Behaviors.Filtering.ColumnFilters.Add(filter);
```



```
In JavaScript - Root Level
Execute after the grid loads on the page.

var whdg = $find("WebHierarchicalDataGrid1");
var topRowIsland = whdg.get_gridView();
var filtering = topRowIsland.get_behaviors().get_filtering();
var cf = filtering.create_columnFilter("ProductName")
cf.get_condition().set_rule($IG.TextFilterRules.Contains);
cf.get_condition().set_value("al");
filtering.add_columnFilter(cf);
```

Row Numbering

WebDataGrid	WebHierarchicalDataGrid
1. Enable Row Selectors 1.1. Open the Smart Tag	← Same for parent grid
1.2. Select Edit Behaviors	To add behavior to child bands, see: Adding Behaviors to
1.3. Check Row Selection	WebHierarchicalDataGrid Child Bands.
1.3.1.Set RowNumbering equal to True	

Row Summaries

WebDataGrid	WebHierarchicalDataGrid
2. Enable Row Sel 2.1. Open the S	← Same for parent grid
2.2. Select Edit 2.3. Check Sum	To add behavior to child bands, see: Adding Behaviors to WebHierarchicalDataGrid Child Bands.

Selection: Cells

WebDataGrid	WebHierarchicalDataGrid
1. Enable the Selection Behavior 1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Selection	1. Enable the Selection Behavior 1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Selection



Once selection is enabled on the grid then you may select cells on the server or client.

On the Server

```
Get Selected Cells
SelectedCellCollection selectedCells =
         this.WebDataGrid1.
                 Behaviors.
                 Selection.
                 SelectedCells;
Select a Cell
selectedCells.Add(this.WebDataGrid1.Rows[0].Items[1]);
Deselect a Cell
selectedCells.RemoveAt(0);
On the Client
Get Selected Cells
var grid = $find('<%= WebDataGrid1.ClientID %>');
var selectedCells = grid.get behaviors().
         get selection().
         get selectedCells();
Select a Cell
var grid = $find('<%= WebDataGrid1.ClientID %>');
var cell = grid.get rows().get row(0).get cell(1);
grid.get behaviors().
         get selection().
         get selectedCells().
         add(cell);
Deselect a Cell
var grid = $find('<%= WebDataGrid1.ClientID %>');
var cell = grid.get behaviors().
                 get selection().
                  get selectedCells().
                  getItem(0);
grid.get behaviors().
         get selection().
```

Once selection is enabled on the grid then you may select cells on the server or client.

On the Server

In order to have access to the columns for selection, the following snippets must be placed in the **RowlslandDataBound** event.

```
Get Selected Cells
Infragistics.Web.UI.GridControls.SelectedCellCollection selectedCells;
// Selecting a column in the PARENT band
if (e.RowIsland.DataMember == "SqlDataSource1_DefaultView")
    selectedCells = e.RowIsland.Behaviors.Selection.SelectedCells;
// Selecting a column in the CHILD band
if (e.RowIsland.DataMember == "SqlDataSource2 DefaultView"
    && e.RowIsland.ParentRow ==
this.WebHierarchicalDataGrid1.GridView.Rows[0])
    selectedCells = e.RowIsland.Behaviors.Selection.SelectedCells:
Select a Cell
Infragistics.Web.UI.GridControls.Selection selection;
// Selecting a column in the PARENT band
if (e.RowIsland.DataMember == "SqlDataSource1 DefaultView")
    selection = e.RowIsland.Behaviors.Selection;
    selection.SelectedCells.Add(e.RowIsland.Rows[0].Items[0]);
// Selecting a column in the CHILD band
if (e.RowIsland.DataMember == "SqlDataSource2 DefaultView"
    && e.RowIsland.ParentRow ==
this.WebHierarchicalDataGrid1.GridView.Rows[0])
    selection = e.RowIsland.Behaviors.Selection;
    selection.SelectedCells.Add(e.RowIsland.Rows[0].Items[0]);
```



```
get selectedCells().
                                                           On the Client
remove(cell);
                                                           Get Selected Cells
                                                           var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
                                                           var parentGrid = grid.get gridView();
                                                           var childGrid = grid.get gridView().
                                                                                     get rows().
                                                                                     get row(0).
                                                                                     get rowIslands(0)[0];
                                                           var selectedCells;
                                                           // PARENT cell selection
                                                           if (parentGrid != null) {
                                                                    selectedCells = parentGrid.get behaviors().
                                                                                              get selection().
                                                                                              get selectedCells();
                                                           // CHILD cell selection
                                                           if (childGrid != null) {
                                                                    selectedCells = childGrid.get behaviors().
                                                                                              get selection().
                                                                                              get selectedCells();
                                                           Select a Cell
                                                           var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
                                                           var parentGrid = grid.get gridView();
                                                           var childGrid = grid.get gridView().
                                                                                     get rows().
                                                                                     get row(0).
                                                                                     get rowIslands(0)[0];
                                                           // PARENT cell selection
                                                           var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
                                                           var parentGrid = grid.get gridView();
                                                           if (parentGrid != null) {
                                                                    var cell = parentGrid.get rows().
                                                                                     get row(0).
                                                                                     get cell(0);
                                                                    parentGrid.get behaviors().
                                                                             get selection().
```



Selection: Columns

WebDataGrid	WebHierarchicalDataGrid
1. Enable the Selection Behavior 1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Selection	1. Enable the Selection Behavior 1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Selection
Once selection is enabled on the grid then you may select columns on the server or client.	Once selection is enabled on the grid then you may select columns on the server or client.
On the Server	On the Server
<pre>Get Selected Columns SelectedColumnCollection selectedColumns = this.WebDataGrid1.</pre>	In order to have access to the columns for selection, the following snippets must be placed in the RowislandDataBound event.
Behaviors. Selection. SelectedColumns;	<pre>Get Selected Columns Infragistics.Web.UI.GridControls.SelectedColumnCollection selectedCols;</pre>
<pre>Select a Column selectedColumns.Add(this.WebDataGrid1.Columns[0]);</pre>	<pre>// Selecting a column in the PARENT band if (e.RowIsland.DataMember == "SqlDataSource1_DefaultView") { selectedCols = e.RowIsland.Behaviors.Selection.SelectedColumns;</pre>
<pre>Deselect a Column selectedColumns.RemoveAt(0);</pre>	<pre>} // Selecting a column in the CHILD band</pre>



```
On the Client
Get Selected Columns
var grid = $find('<%= WebDataGrid1.ClientID %>');
var columns = grid.
                get behaviors().
                get selection().
                get selectedColumns();
Select a Column
var grid = $find('<%= WebDataGrid1.ClientID %>');
var column = grid.get columns().get column(0);
grid.get behaviors().
        get selection().
        get selectedColumns().
        add(column);
Deselect a Column
var grid = $find('<%= WebDataGrid1.ClientID %>');
var column = grid.
                get behaviors().
                get selection().
                get selectedColumns().
                getItem(0);
grid.get behaviors().
        get selection().
        get selectedColumns().
        remove (column);
```

```
if (e.RowIsland.DataMember == "SqlDataSource2 DefaultView"
    && e.RowIsland.ParentRow ==
this.WebHierarchicalDataGrid1.GridView.Rows[0])
    selectedCols = e.RowIsland.Behaviors.Selection.SelectedColumns;
Select a Column
Infragistics.Web.UI.GridControls.Selection selection;
// Selecting a column in the PARENT band
if (e.RowIsland.DataMember == "SqlDataSource1 DefaultView")
    selection = e.RowIsland.Behaviors.Selection;
    selection.SelectedColumns.Add(e.RowIsland.Columns[2]);
// Selecting a column in the CHILD band
if (e.RowIsland.DataMember == "SqlDataSource2 DefaultView"
    && e.RowIsland.ParentRow ==
this.WebHierarchicalDataGrid1.GridView.Rows[0])
    selection = e.RowIsland.Behaviors.Selection;
    selection.SelectedColumns.Add(e.RowIsland.Columns[2]);
Deselect a Column
Infragistics.Web.UI.GridControls.Selection selection;
// Deselecting a column in the PARENT band
if (e.RowIsland.DataMember == "SqlDataSource1 DefaultView")
    selection = e.RowIsland.Behaviors.Selection;
    selection.SelectedColumns.Remove(e.RowIsland.Columns[2]);
// Deselecting a column in the CHILD band
if (e.RowIsland.DataMember == "SqlDataSource2_DefaultView"
    && e.RowIsland.ParentRow ==
this.WebHierarchicalDataGrid1.GridView.Rows[0])
    selection = e.RowIsland.Behaviors.Selection;
    selection.SelectedColumns.Remove(e.RowIsland.Columns[2]);
```



```
On the Client
Get Selected Columns
var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
var parentGrid = grid.get gridView();
var childGrid = grid.get_gridView().
                            get rows().
                            get_row(3).
                            get_rowIslands(0)[0];
var selectedColumns;
// PARENT column selection
if (parentGrid!= null) {
         selectedColumns = parentGrid.
                            get behaviors().
                            get selection().
                            get selectedColumns();
// CHILD column selection
if (childGrid != null) {
         selectedColumns = childGrid.get behaviors().
                  get selection().
                  get selectedColumns();
Select a Column
var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
var parentGrid = grid.get_gridView();
var childGrid = grid.get gridView().
                            get rows().
                            get_row(3).
                            get_rowIslands(0)[0];
var column;
// PARENT column selection
if (parentGrid!= null){
         column = parentGrid.get columns().get column(0);
         parentGrid.
                   get behaviors().
                  get selection().
                   get selectedColumns().
                   add(column);
}
```



Selection: Rows	
WebDataGrid	WebHierarchicalDataGrid
1. Enable the Selection Behavior 1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Selection	1. Enable the Selection Behavior 1.1. Open the Smart Tag 1.2. Select Edit Behaviors 1.3. Check Selection
Once selection is enabled on the grid then you may select rows on the server or client.	Once selection is enabled on the grid then you may select rows on the server or client.
<pre>On the Server Get Selected Rows SelectedRowCollection selectedRows =</pre>	<pre>On the Server In order to have access to the columns for selection, the following snippets must be placed in the RowIslandDataBound event. Get Selected Rows Infragistics.Web.UI.GridControls.SelectedRowCollection selectedRows; // Selecting a column in the PARENT band if (e.RowIsland.DataMember == "SqlDataSource1_DefaultView") { selectedRows = e.RowIsland.Behaviors.Selection.SelectedRows; }</pre>
<pre>selectedRows.RemoveAt(0); On the Client Get Selected Rows var grid = \$find('<%= WebDataGrid1.ClientID %>'); var selectedRows = grid.get_behaviors().</pre>	<pre>// Selecting a column in the CHILD band if (e.RowIsland.DataMember == "SqlDataSource2_DefaultView" && e.RowIsland.ParentRow == this.WebHierarchicalDataGrid1.GridView.Rows[0]) { selectedRows = e.RowIsland.Behaviors.Selection.SelectedRows; }</pre>



```
get selectedRows();
Select a Row
var grid = $find('<%= WebDataGrid1.ClientID %>');
var row = grid.get rows().get row(0);
grid.get behaviors().
        get selection().
        get selectedRows().
        add(row);
Deselect a Row
var grid = $find('<%= WebDataGrid1.ClientID %>');
var row = grid.
                get behaviors().
                get selection().
                get selectedRows().
                getItem(0);
grid.get behaviors().
        get selection().
        get selectedRows().
        remove (row);
```

```
Select a Row
Infragistics.Web.UI.GridControls.Selection selection;
// Selecting a column in the PARENT band
if (e.RowIsland.DataMember == "SqlDataSource1 DefaultView")
    selection = e.RowIsland.Behaviors.Selection;
    selection.SelectedRows.Add(e.RowIsland.Rows[0].Items[0]);
// Selecting a column in the CHILD band
if (e.RowIsland.DataMember == "SqlDataSource2 DefaultView"
    && e.RowIsland.ParentRow ==
this.WebHierarchicalDataGrid1.GridView.Rows[0])
    selection = e.RowIsland.Behaviors.Selection;
   selection.SelectedRows.Add(e.RowIsland.Rows[0].Items[0]);
On the Client
Get Selected Rows
var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
var parentGrid = grid.get gridView();
var childGrid = grid.get gridView().
                          get rows().
                          get row(3).
                          get rowIslands(0)[0];
var selectedRows;
// PARENT row selection
if (parentGrid!= null) {
        selectedRows = parentGrid.
                          get behaviors().
                          get selection().
                          get selectedRows();
// CHILD row selection
if (childGrid != null) {
         selectedRows = childGrid.
                          get behaviors().
                          get selection().
```



```
get selectedRows();
Select a Row
var grid = $find('<%= WebHierarchicalDataGrid1.ClientID %>');
var parentGrid = grid.get gridView();
var childGrid = grid.get gridView().
                       get rows().
                       get row(3).
                       get rowIslands(0)[0];
var row;
// PARENT row selection
if (parentGrid!= null) {
       row = parentGrid.get rows().get row(0);
        parentGrid.
               get behaviors().
               get selection().
               get selectedRows().
                add(row);
// CHILD row selection
if (childGrid != null) {
        row = childGrid.get rows().get row(0);
        childGrid.
               get behaviors().
               get selection().
               get selectedRows().
                add(row);
```

Templating: Column Template

WebDataGrid	WebHierarchicalDataGrid
Column templates are possible via TemplateDataField columns or by assigning a template defined in the grids Templates collection to a particular column.	← Same
Using the TemplateDataField 1. Create a TemplateDataField using the designer	



1.1. Open the SmartTag 1.2. Select Edit Columns 1.3. From the Available Fields pane, select TemplateField 1.4. Click Add 1.5. Set the Key to a unique value 1.6. Click **OK** 2. Switch to Code View to configure the template field <Columns> <ig:TemplateDataField Key="Template1"> <ItemTemplate> <asp:Button id="btnSelect" Text="Select" runat="server" /> <%# DataBinder.Eval(</pre> ((Infragistics.Web.UI.TemplateContainer)Container). DataItem, "ProductName") %> </ItemTemplate> </ig:TemplateDataField> </Columns> **Using Templates Collection** 1. Create a new grid Template 1.1. Open the SmartTag 1.2. Select **Edit Template Collection** 1.3. Click Add New Item 1.4. Set the TemplateID to a unique value 1.5. Click **OK** 2. Switch to Code View and configure the template <ig:ItemTemplate ID="WebDataGrid1Template1" runat="server"</pre> TemplateID="formattedName"> <Template> <div class="productName"> <%# DataBinder.Eval(</pre> ((Infragistics.Web.UI.TemplateContainer)Container). DataItem, "ProductName") %> </div> </Template> </ig:ItemTemplate>



3. Apply the Template in the InitializeRow event private int NAME_COLUMN_INDEX = 0; protected void WebDataGrid1_InitializeRow(object sender, Infragistics.Web.UI.GridControls.RowEventArgs e) { e.Row.Items[NAME_COLUMN_INDEX].TemplateId = "formattedName"; } Note: Use either the TemplateDataField or a template from Templates collection on a single column as the TemplateDataField always takes precedence.

Templating: Empty Rows

WebDataGrid	WebHierarchicalDataGrid
 Create the Empty Rows Template using the designer Open the Smart Tag Select Edit Templates Select Empty Rows Template from the Display drop down Configure the template in Design or Source view Note: When you are finished configuring the template in Design view click End Template Editing on the Smart Tag to return to the default Designer view of the grid.	← Same
WebDataGrid Tasks Template Editing Mode Display: Empty Rows Template End Template Editing Create the Empty Rows Template in code:	



```
protected override void OnInit(EventArgs e)
{
   base.OnInit(e);
   //template needs to be instantiated on every postback
   this.WebDataGrid1.EmptyRowsTemplate = new
CustomEmptyRowsTemplate();
}

private class CustomEmptyRowsTemplate : ITemplate
{
   public void InstantiateIn(Control container)
   {
      System.Web.UI.WebControls.Label label1 = new
System.Web.UI.WebControls.Label();
      label1.Text = "Empty row template";
      label1.ID = "Label1";
      container.Controls.Add(label1);
   }
}
```

Grid Events

WebDataGrid	WebHierarchicalDataGrid	Events	Args
	X	ContainerGridDataBinding	<u>DataBindingEventArgs</u>
Х		CustomDataBinding	<u>DataBindingEventArgs</u>
Х	X	DataBinding	<u>EventArgs</u>
X	X	DataBound	<u>EventArgs</u>
Х	X	Disposed	<u>EventArgs</u>
	X	GroupedColumnsChanged	<u>GroupedColumnsChangedEventArgs</u>
	X	GroupedColumnsChanging	<u>GroupedColumnsChangingEventArgs</u>
	X	GroupedRowInitialized	GroupedRowEventArgs
Х	X	HeaderCheckBoxClicked	<u>HeaderCheckBoxEventArgs</u>
X	X	Init	<u>EventArgs</u>
	X	InitializeBand	<u>BandEventArgs</u>
X	X	InitializeRow	<u>RowEventArgs</u>
X	X	ItemCommand	<u>HandleCommandEventArgs</u>
X	X	Load	<u>EventArgs</u>
X	X	PreRender	<u>EventArgs</u>
	X	RowCollapsed	ContainerRowEventArgs
	X	RowExpanded	<u>ContainerRowEventArgs</u>
	X	RowlslandsCreated	<u>RowislandEventArgs</u>
	X	RowlslandsDataBinding	RowlslandEventArgs
	X	RowIslandsDataBound	RowislandEventArgs



	X	RowlslandsPopulated	ContainerRowEventArgs
	X	RowIslandsPopulating	ContainerRowCancelEventArgs
Х	X	Unload	<u>EventArgs</u>

Events by Behavior

As the WebHierarchicalDataGrid extends the WebDataGrid, some events share event arg classes.

Behavior	Client Events (Args)	Arg Links	Server Events (Args)	Arg Links
	ActiveCellChanged (ActiveCellChangedEventArgs)	WDG WHDG	ActiveCellChanged (ActiveCellEventArgs)	<u>Same</u>
Activation	ActiveCellChanging (ActiveCellChangingEventArgs)	WDG WHDG	None	
	None		ActiveGroupedRowChanged (ActiveGroupedRowEventArgs)	<u>Same</u>
	EnteredEditMode (EditModeEventArgs)	WDG WHDG		
	EnteringEditMode (CancelEditModeEventArgs)	WDG WHDG		
Cell Editing	ExitedEditMode (EditModeEventArgs)	WDG WHDG	Uses Editing Core events	
	ExitingEditMode (CancelEditModeEventArgs)	WDG WHDG		
	Initialize	None		
Clipboard	Copied Copying Cut Cutting Initialize Pasted	None	None	



	Pasting			
	FixedStateChanged (FixedEvenArgs)	<u>Same</u>	FixedStateChanged (FixedStateChangedEventArgs)	<u>Same</u>
Column Fixing	FixedStateChanging (FixingEventArgs)	<u>Same</u>	Mana	
	Initialize	None	None	
	HeaderDragEnd (HeaderDragEndEventArgs)	<u>Same</u>		
	HeaderDragStart (HeaderDragStart)	<u>Same</u>		
Column	HeaderDropped (HeaderDroppedEventArgs)	<u>Same</u>	None	
Moving	HeaderMove (HeaderMoveEventArgs)	<u>Same</u>		
	Initialize	None		
	None		ColumnMoved (ColumnMovingEventArgs)	<u>Same</u>
	ColumnResized (ColumnResizedEventArgs)	<u>Same</u>		
Column	ColumnResizeDragging (ColumnResizeDraggingEventArgs)	<u>Same</u>	None	
Resizing	ColumnResizing (ColumnResizingEventArgs)	<u>Same</u>		
	Initialize	None	ColumnResized (ColumnResizingEventArgs)	<u>Same</u>
	RowAdded (RowAddedEventArgs)	WDG WHDG	RowAdded (RowAddedEventArgs)	WDG WHDG
	RowAdding	None	RowAdding (RowAddingEventArgs)	<u>Same</u>
	RowDeleted	None	RowDeleted (RowDeletedEventArgs)	<u>Same</u>
Editing	RowDeleting	None	RowDeleting (RowDeletingEventsArgs)	<u>Same</u>
Core	RowUpdated (RowUpdatedEventArgs)	WDG WHDG	RowUpdated (RowUpdatedEventArgs)	<u>Same</u>
	RowUpdating	None	RowUpdating (RowUpdatingEventsArgs)	WDG WHDG
	CellValueChanged (CellValueChangedEventArgs)	WDG WHDG	None	



	CellValueChanging (CancelCellValueChangingEventArgs)	WDG WHDG		
	Initialize	None		
	DataFiltered (DataFilteredArgs)	<u>Same</u>	DataFiltered (FilteredEventArgs)	<u>Same</u>
	DataFiltering (CancelApplyFiltersEventArgs)	<u>Same</u>	DataFiltering (FilteringEventArgs)	<u>Same</u>
	ColumnFilterAdded (ColumnFilterAddedArgs)	<u>Same</u>		
	EnteredEditMode (EditModeEventArgs)	WDG WHDG		
Filtering	EnteringEditMode (CancelEditModeEventArgs)	WDG WHDG		
riitering	ExitedEditMode (EditModeEventArgs)	WDG WHDG	None	
	ExitingEditMode (CancelEditModeEventArgs)	WDG WHDG		
	FilterDropdownDisplayed FilterDropdownDisplaying FilterDropDownHidden FilterDropDownHiding Initialize	None		
	Initialize	None		
Paging	PageIndexChanging (PagerEventArgs)	WDG WHDG	None	
	PageIndexChanged	None	PageIndexChanged (PagingEventArgs)	<u>Same</u>
	EnteredEditMode (EditModeEventArgs)	WDG WHDG		
Row Adding	EnteringEditMode (CancelEditModeEventArgs)	WDG WHDG	None	
	ExitedEditMode (EditModeEventArgs)	WDG WHDG		



	ExitingEditMode (CancelEditModeEventArgs)	WDG WHDG		
	Initialize	None	Uses Editing Core events	
Row Deleting	None		Uses Editing Core events	
	Initialize	None		
	TemplateClosed (EditRowEventArgs)	WDG WHDG		
Row Editing	TemplateClosing (CancelEditRowEventArgs)	WDG WHDG	None	
Template	TemplateOpened (EditRowEventArgs)	WDG WHDG		
	TemplateOpening (CancelEditRowEventArgs)	WDG WHDG	Uses Editing Core events	
	FooterRowSelectorClicked (MarginRowSelectorClickedEventArgs)	<u>Same</u>		
	HeaderRowSelectorClicked (MarginRowSelectorClickedEventArgs)	<u>Same</u>		
Row Selectors	Initialize	None	None	
	RowSelectorClicked (RowSelectorClickedEventArgs)	<u>Same</u>		
	RowSelectorClicking (RowSelectorClickingEventArgs)	<u>Same</u>		
	CellSelectionChanging (CellSelectionChangingEventArgs)	WDG WHDG		
	ColumnSelectionChanging (ColumnSelectionChangingEventArgs)	WDG WHDG	None	
Selection	Initialize	None		
	RowSelectionChanging (RowSelectionChangingEventArgs)	WDG WHDG		
	CellSelectionChanged (CellSelectionChangedEventArgs)	WDG WHDG	CellSelectionChanged (SelectedCellEventArgs)	<u>Same</u>



	ColumnSelectionChanged (ColumnSelectionChangedEventArgs)	WDG WHDG	ColumnSelectionChanged (SelectedColumnEventArgs)	<u>Same</u>
	RowSelectionChanged (RowSelectionChangedEventArgs)	WDG WHDG	RowSelectionChanged (SelectedRowEventArgs)	<u>Same</u>
	ColumnSorting (SortingEventArgs)	WDG WHDG	None	
Sorting	Initialize	None		
	ColumnSorted (SortedEventArgs)	WDG WHDG	ColumnSorted (SortingEventArgs)	WDG WHDG
Summary Row	Initialize SummaryCalculated SummaryDropDownDisplayed SummaryDropDownDisplaying SummaryDropDownHidden SummaryDropDownHiding	None	CalculateSummary (CustomSummaryEventArgs) SummaryRowCalculated (SummaryEventArgs)	<u>Same</u>
	CalculateCustomSummary		CalculateCustomSummary (CustomSummaryEventArgs)	Same
	FormatToolTip (VirtualScrollingFormatToolTipEventArgs)	<u>Same</u>		
Virtual	Initialize	None	None	
Scrolling	MoreRowsReceived (MoreRowsRecievedEventArgs)	<u>Same</u>	None	
	MoreRowsRequesting (CancelMoreRowsRequestingEventArgs)	<u>Same</u>		

Revision History

- 07/08/2011:
 - o Added snippet sections:
 - Ajax: Load on Demand (Manual)
 - Editing: Adding Rows
 - Column: Summaries
 - Added tables:
 - Grid Events
 - Events by Behavior