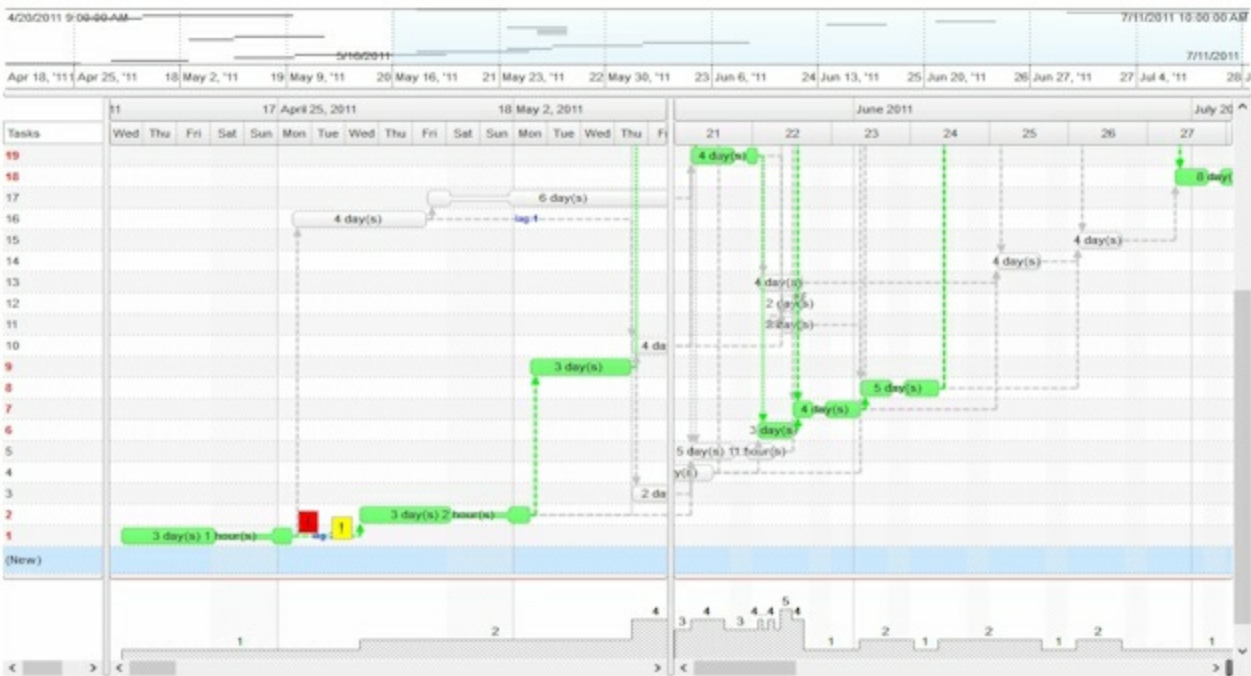


The ExG2Host is an extension of the ExG2antt ( Exontrol's Grid-Gantt component ) with full database support ( ADO, DAO, XML). In other words, the ExG2Host loads and saves automatically the host's data (including the hierarchy) to one or more databases. You can map a data field from the data-source, to a property of one object in the host/gantt control, and the control automatically updates the field when it is required. In the same manner, you can automatically save the control's layout, so next time the control is running it automatically get displayed the same way as it was closed. By default, the ExG2Host component let you add/remove/edit items, child-items, tasks, links and so on without having to code anything. The ExG2Host component provides all features of the ExG2antt component, it can be used as isolated, so no need for registration of any of the DLLs.

Features of eXG2Host include:

- Extends features of ExG2antt component
- ADO/DAO/XML full support
- AddNew, Delete and Update support
- Error support ( ability to highlight the items with errors )
- Ability to map a field of the data-source with a property of an object



## How to get support?

To keep your business applications running, you need support you can count on.

Here are few hints what to do when you're stuck on your programming:

- Check out the samples - they are here to provide some quick info on how things should be done
- Check out the how-to questions using the [eXHelper](#) tool
- Check out the help - includes documentation for each method, property or event
- Check out if you have the latest version, and if you don't have it send an update request [here](#).
- Submit your problem(question) [here](#).

Don't forget that you can contact our development team if you have ideas or requests for new components, by sending us an e-mail at [support@exontrol.com](mailto:support@exontrol.com) ( please include the name of the product in the subject, ex: exgrid ) . We're sure our team of developers will try to find a way to make you happy - and us too, since we helped.

Regards,  
Exontrol Development Team

<https://www.exontrol.com>

## constants AppearanceEnum

The AppearanceEnum enumeration is used to specify the appearance of the control's border.

Name	Value	Description
None2	0	No border
Flat	1	Flat border
Sunken	2	Sunken border
Raised	3	Raised border
Etched	4	Etched border
Bump	5	Bump border

## constants ContextHitTestInfoEnum

The ContextHitTestInfoEnum type defines areas of the host. The [HitTest](#) property determines the host' objects that can be accessed at current cursor location. For instance, if the [HitTest](#) property includes the exHTValidColumn flag, it indicates that the cursor hovers a column, and the [Column](#) property gives the index of the column from the cursor. The ContextHitTestInfoEnum type defines the following flags:

Name	Value	Description
exHTUnknown	0	The position of the cursor can not be determined as being one of the following.
exHTItemsArea	256	The cursor hovers the items/columns section of the control ( left-panel ).
exHTChartArea	512	The cursor hovers the chart/tasks section of the control ( right-panel ).
exHTEmptySpace	4096	The cursor hovers an empty part of the control ( no item at the cursor position ). This flag can be combined with exHTItemsArea or exHTChartArea, which indicates that the item hovers an empty area within the items/columns section of control, or hovers the empty area of the chart/tasks section of the control. If present, the exHTEmptySpace flag indicates that the <a href="#">EmptySpace</a> property is valid ( Returns the number of rows, between current cursor position and the the last fully-visible item of the control )
exHTValidMask	255	Specifies the mask for valid values.
exHTValidItem	1	If present, the exHTValidItem flag indicates that the <a href="#">Item</a> property is valid ( Returns the handle of the item from the current cursor location )
exHTValidColumn	2	If present, the exHTValidColumn flag indicates that the <a href="#">Column</a> property is valid ( Returns the index of the column from the current cursor location )
exHTValidDate	4	If present, the exHTValidDate flag indicates that the <a href="#">Date</a> property is valid ( Specifies the date-time from the current cursor location )
exHTValidBar	8	If present, the exHTValidBar flag indicates that the <a href="#">Bar</a> property is valid ( Returns the key of the bar from the current cursor location )

exHTValidLink

16

If present, the exHTValidLink flag indicates that the [Link](#) property is valid ( Returns the key of the link from the current cursor location )

## constants DefHostPropertyEnum

The DefHostPropertyEnum type defines properties whose default value can be changed. The [HostDef](#) property defines the default value for specified property. The DefHostPropertyEnum type supports the following values:

Name	Value	Description
exNew	1	<p>By default, the exNew is "(New)". Retrieves or sets the caption to be displayed on the AddNew item. The HostDef(exNewColumn) property retrieves or sets the index of the column, where the (New) is being displayed. The (New) may not be displayed on formatted columns or on columns with drop down list editors.</p> <p><i>(String expression)</i></p>
exNewColumn	2	<p>By default, the exNewColumn is 0. Retrieves or sets the index of the column, where the (New) is being displayed. The HostDef(exNew) property retrieves or sets the caption to be displayed on the AddNew item. The (New) may not be displayed on formatted columns or on columns with drop down list editors.</p> <p><i>(Long expression)</i></p>
exTaskName	3	<p>By default, the exTaskName is "Task". Retrieves or sets the name of the task to be created / loaded. For instance, you can change the HostDef(exTaskName) property to "Progress" and so any new created bar will be of "Progress" type.</p> <p><i>(String expression)</i></p>
		<p>By default, the exNewTaskID is empty, if no data-source has been loaded. If the data-source has been specified it indicates the identifier of the next task that will be created. If data-source is assigned to the control, the HostDef( exNewTaskID) property defines the value of the next identifier that will be created once the user creates a new task. This property is automatically updated once the user</p>

exNewTaskID 4 creates a new task, into a control with a data-source assigned. If no data-source is assigned, the user is responsible with changing this value. The HostDef(exNewTaskID) property defines the value of Key parameter of the [AddBar](#) method of the Items collection.

*(Long expression or Variant expression)*

exErrorForeColor 5 By default, the exErrorForeColor property is RGB(255,0,0). Retrieves or sets the foreground-color to highlight items with errors. This property has effect only if the control is bounded to ADO / DAO source. It is important, that [DataField\(exItemsID\)](#) property to be set, so items with errors are being highlighted. If the HostDef(exErrorForeColor ) property is -1, no foreground color is applied to any item with errors.

*(Long/Color expression)*

exErrorBackColor 6 By default, the exErrorBackColor property is -1. Retrieves or sets the background-color to highlight items with errors. This property has effect only if the control is bounded to ADO / DAO source. It is important, that [DataField\(exItemsID\)](#) property to be set, so items with errors are being highlighted. If the HostDef(exErrorBackColor) property is -1, no background color is applied to any item with errors.

*(Long/Color expression)*

exErrorClearOnChange 7 By default, the exErrorClearOnChange property is True, which indicates that no error will be highlighted once the user updates the control. Specifies whether the control keeps highlighting the errors once the changes occur. This property has effect only if the control is bounded to ADO / DAO source. It is important, that [DataField\(exItemsID\)](#) property to be set, so items with errors are being highlighted.

*(Boolean expression)*

exNewLinkID

8

By default, the exNewLinkID is empty, if no data-source has been loaded. If the data-source has been specified it indicates the identifier of the next link that will be created. If data-source is assigned to the control, the HostDef(exNewLinkID) property defines the value of the next identifier that will be created once the user creates a new link. This property is automatically updated once the user creates a new link, into a control with a data-source assigned. If no data-source is assigned, the user is responsible with changing this value. The HostDef(exNewLinkID) property defines the value of LinkKey parameter of the [AddLink](#) method of the Items collection.

*(Long expression or Variant expression)*

exNewNoteID

9

By default, the exNewNoteID is empty, if no data-source has been loaded. If the data-source has been specified it indicates the identifier of the next note that will be created. If data-source is assigned to the control, the HostDef(exNewNoteID) property defines the value of the next identifier that will be created once the user creates a new note. This property is NOT automatically updated once the user creates a new note, so the user is responsible with changing this value, once a new note has been added to the chart. The HostDef(exNewNoteID) property defines the value of ID parameter of the [Add](#) method of the Notes collection.

*(Long expression or Variant expression)*

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## constants HostEventEnum

The HostEventEnum type holds identifiers of events being fired by the host. The [HostEvent](#) event notifies the application once the host fires an event. The [HostEventParam](#)(-2) gives a general information of the event. The HostEventEnum type supports the following values:

Name	Value	Description
exHostKeyDown	-602	<p>Occurs when the user presses a key while an object has the focus.</p> <ul style="list-style-type: none"><li>• The <a href="#">HostEventParam</a>(-1) returns 2</li><li>• The <a href="#">HostEventParam</a>(0) set/gets the value of the KeyCode parameter</li><li>• The <a href="#">HostEventParam</a>(1) gets the value of the Shift parameter</li></ul> <p>This identifier handles the <a href="#">KeyDown</a> event of the host.</p>
exHostKeyUp	-604	<p>Occurs when the user releases a key while an object has the focus.</p> <ul style="list-style-type: none"><li>• The <a href="#">HostEventParam</a>(-1) returns 2</li><li>• The <a href="#">HostEventParam</a>(0) set/gets the value of the KeyCode parameter</li><li>• The <a href="#">HostEventParam</a>(1) gets the value of the Shift parameter</li></ul> <p>This identifier handles the <a href="#">KeyUp</a> event of the host.</p>
exHostKeyPress	-603	<p>Occurs when the user presses and releases an ANSI key.</p> <ul style="list-style-type: none"><li>• The <a href="#">HostEventParam</a>(-1) returns 1</li><li>• The <a href="#">HostEventParam</a>(0) set/gets the value of the KeyAscii parameter</li></ul> <p>This identifier handles the <a href="#">KeyPress</a> event of the host.</p>
exHostClick	-600	<p>Occurs when the user presses and then releases the left mouse button over the control.</p>

- The [HostEventParam](#)(-1) returns 0

This identifier handles the [Click](#) event of the host.

Occurs when the user moves the mouse.

exHostMouseMove

-606

- The [HostEventParam](#)(-1) returns 4
- The [HostEventParam](#)(0) gets the value of the Button parameter
- The [HostEventParam](#)(1) gets the value of the Shift parameter
- The [HostEventParam](#)(2) gets the value of the X parameter
- The [HostEventParam](#)(3) gets the value of the Y parameter

This identifier handles the [MouseMove](#) event of the host.

Occurs when the user presses a mouse button.

exHostMouseDown

-605

- The [HostEventParam](#)(-1) returns 4
- The [HostEventParam](#)(0) gets the value of the Button parameter
- The [HostEventParam](#)(1) gets the value of the Shift parameter
- The [HostEventParam](#)(2) gets the value of the X parameter
- The [HostEventParam](#)(3) gets the value of the Y parameter

This identifier handles the [MouseDown](#) event of the host.

Occurs when the user releases a mouse button.

exHostMouseUp

-607

- The [HostEventParam](#)(-1) returns 4
- The [HostEventParam](#)(0) gets the value of the Button parameter
- The [HostEventParam](#)(1) gets the value of the Shift parameter
- The [HostEventParam](#)(2) gets the value of the X parameter

- The [HostEventParam\(3\)](#) gets the value of the Y parameter

This identifier handles the [MouseUp](#) event of the host.

Occurs when the user dblclk the left mouse button over an object.

exHostDbClick

-601

- The [HostEventParam\(-1\)](#) returns 3
- The [HostEventParam\(0\)](#) gets the value of the Shift parameter
- The [HostEventParam\(1\)](#) gets the value of the X parameter
- The [HostEventParam\(2\)](#) gets the value of the Y parameter

This identifier handles the [DbClick](#) event of the host.

Occurs after a new Item has been inserted to Items collection

exHostAddItem

1

- The [HostEventParam\(-1\)](#) returns 1
- The [HostEventParam\(0\)](#) gets the value of the Item parameter

This identifier handles the [AddItem](#) event of the host.

Occurs before removing an Item.

exHostRemoveItem

2

- The [HostEventParam\(-1\)](#) returns 1
- The [HostEventParam\(0\)](#) gets the value of the Item parameter

This identifier handles the [RemoveItem](#) event of the host.

Fired after the user clicks on column's header.

exHostColumnClick

3

- The [HostEventParam\(-1\)](#) returns 1
- The [HostEventParam\(0\)](#) gets the value of the Column parameter

This identifier handles the [ColumnClick](#) event of the host.

Occurs when the user clicks the cell's icon.

exHostCellImageClick

4

- The [HostEventParam](#)(-1) returns 2
- The [HostEventParam](#)(0) gets the value of the Item parameter
- The [HostEventParam](#)(1) gets the value of the ColIndex parameter

This identifier handles the [CellImageClick](#) event of the host.

Fired after cell's state has been changed.

exHostCellStateChanged

5

- The [HostEventParam](#)(-1) returns 2
- The [HostEventParam](#)(0) gets the value of the Item parameter
- The [HostEventParam](#)(1) gets the value of the ColIndex parameter

This identifier handles the [CellStateChanged](#) event of the host.

Fired after a new item has been selected.

exHostSelectionChanged

6

- The [HostEventParam](#)(-1) returns 0

This identifier handles the [SelectionChanged](#) event of the host.

Fired after a new column has been added.

exHostAddColumn

7

- The [HostEventParam](#)(-1) returns 1
- The [HostEventParam](#)(0) gets the value of the Column parameter

This identifier handles the [AddColumn](#) event of the host.

Fired before deleting a column.

exHostRemoveColumn	8	<ul style="list-style-type: none"><li>• The <a href="#">HostEventParam</a>(-1) returns 1</li><li>• The <a href="#">HostEventParam</a>(0) gets the value of the Column parameter</li></ul> <p>This identifier handles the <a href="#">RemoveColumn</a> event of the host.</p>
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exHostOversizeChanged	9	<p>Occurs when the right range of the scroll has been changed.</p> <ul style="list-style-type: none"><li>• The <a href="#">HostEventParam</a>(-1) returns 2</li><li>• The <a href="#">HostEventParam</a>(0) gets the value of the Horizontal parameter</li><li>• The <a href="#">HostEventParam</a>(1) gets the value of the NewVal parameter</li></ul> <p>This identifier handles the <a href="#">OversizeChanged</a> event of the host.</p>
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exHostOffsetChanged	10	<p>Occurs when the scroll position has been changed.</p> <ul style="list-style-type: none"><li>• The <a href="#">HostEventParam</a>(-1) returns 2</li><li>• The <a href="#">HostEventParam</a>(0) gets the value of the Horizontal parameter</li><li>• The <a href="#">HostEventParam</a>(1) gets the value of the NewVal parameter</li></ul> <p>This identifier handles the <a href="#">OffsetChanged</a> event of the host.</p>
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exHostRClick	11	<p>Fired when right mouse button is clicked.</p> <ul style="list-style-type: none"><li>• The <a href="#">HostEventParam</a>(-1) returns 0</li></ul> <p>This identifier handles the <a href="#">RClick</a> event of the host. The control fires the <a href="#">Context</a> event, once the user right clicks the host.</p>
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		<p>Fired when a cell requires to format its caption.</p> <ul style="list-style-type: none"><li>• The <a href="#">HostEventParam</a>(-1) returns 3</li><li>• The <a href="#">HostEventParam</a>(0) gets the value of the Item parameter</li></ul>
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exHostFormatColumn 15

- The [HostEventParam\(1\)](#) gets the value of the ColIndex parameter
- The [HostEventParam\(2\)](#) sets / gets the value of the Value parameter

This identifier handles the [FormatColumn](#) event of the host.

exHostBeforeExpandItem 16

Fired before an item is about to be expanded (collapsed).

- The [HostEventParam\(-1\)](#) returns 2
- The [HostEventParam\(0\)](#) gets the value of the Item parameter
- The [HostEventParam\(1\)](#) sets / gets the value of the Cancel parameter

This identifier handles the [BeforeExpandItem](#) event of the host.

exHostAfterExpandItem 17

Fired after an item is expanded (collapsed).

- The [HostEventParam\(-1\)](#) returns 1
- The [HostEventParam\(0\)](#) gets the value of the Item parameter

This identifier handles the [AfterExpandItem](#) event of the host.

exHostItemOleEvent 18

Fired when an ActiveX control hosted by an item has fired an event.

- The [HostEventParam\(-1\)](#) returns 2
- The [HostEventParam\(0\)](#) gets the value of the Item parameter
- The [HostEventParam\(1\)](#) gets the value of the Ev parameter

This identifier handles the [ItemOleEvent](#) event of the host.

Occurs when column's position or column's size is changed.

exHostLayoutChanged

19

- The [HostEventParam](#)(-1) returns 0

This identifier handles the [LayoutChanged](#) event of the host.

exHostHyperLinkClick

20

Occurs when the user clicks on a hyperlink cell.

- The [HostEventParam](#)(-1) returns 2
- The [HostEventParam](#)(0) gets the value of the Item parameter
- The [HostEventParam](#)(1) gets the value of the CollIndex parameter

This identifier handles the [HyperLinkClick](#) event of the host.

exHostFilterChange

21

Occurs when filter was changed.

- The [HostEventParam](#)(-1) returns 0

This identifier handles the [FilterChange](#) event of the host.

exHostTooltip

22

Fired when the control prepares the object's tooltip.

- The [HostEventParam](#)(-1) returns 7
- The [HostEventParam](#)(0) gets the value of the Item parameter
- The [HostEventParam](#)(1) gets the value of the CollIndex parameter
- The [HostEventParam](#)(2) sets / gets the value of the Visible parameter
- The [HostEventParam](#)(3) sets / gets the value of the X parameter
- The [HostEventParam](#)(4) sets / gets the value of the Y parameter
- The [HostEventParam](#)(5) gets the value of the CX parameter
- The [HostEventParam](#)(6) gets the value of the CY parameter

This identifier handles the [ToolTip](#) event of the host.

exHostFilterChanging	24	<p>Notifies your application that the filter is about to change.</p> <ul style="list-style-type: none"> <li>The <a href="#">HostEventParam</a>(-1) returns 0</li> </ul> <p>This identifier handles the <a href="#">FilterChanging</a> event of the host.</p>
exHostAddGroupItem	31	<p>Occurs after a new Group Item has been inserted to Items collection.</p> <ul style="list-style-type: none"> <li>The <a href="#">HostEventParam</a>(-1) returns 1</li> <li>The <a href="#">HostEventParam</a>(0) gets the value of the Item parameter</li> </ul> <p>This identifier handles the <a href="#">AddGroupItem</a> event of the host.</p>
exHostCellStateChanging	32	<p>Fired before cell's state is about to be changed.</p> <ul style="list-style-type: none"> <li>The <a href="#">HostEventParam</a>(-1) returns 3</li> <li>The <a href="#">HostEventParam</a>(0) gets the value of the Item parameter</li> <li>The <a href="#">HostEventParam</a>(1) gets the value of the ColIndex parameter</li> <li>The <a href="#">HostEventParam</a>(2) sets / gets the value of the NewState parameter</li> </ul> <p>This identifier handles the <a href="#">CellStateChanging</a> event of the host.</p>
exHostDateChange	50	<p>Occurs when the first visible date is changed.</p> <ul style="list-style-type: none"> <li>The <a href="#">HostEventParam</a>(-1) returns 0</li> </ul> <p>This identifier handles the <a href="#">DateChange</a> event of the host.</p>
exHostChartStartChanging	51	<p>Occurs when the chart is about to be changed.</p> <ul style="list-style-type: none"> <li>The <a href="#">HostEventParam</a>(-1) returns 1</li> <li>The <a href="#">HostEventParam</a>(0) gets the value of the Operation parameter</li> </ul>



This identifier handles the [ChartStartChanging](#) event of the host.

Occurs when the chart is about to be changed.

exHostChartEndChanging 52

- The [HostEventParam](#)(-1) returns 1
- The [HostEventParam](#)(0) gets the value of the Operation parameter

This identifier handles the [ChartEndChanging](#) event of the host.

Notifies your application that a date is about to be magnified.

exHostInsideZoom 53

- The [HostEventParam](#)(-1) returns 1
- The [HostEventParam](#)(0) gets the value of the DateTime parameter

This identifier handles the [InsideZoom](#) event of the host.

Occurs just before drawing a part of the control.

exHostBeforeDrawPart 54

- The [HostEventParam](#)(-1) returns 7
- The [HostEventParam](#)(0) gets the value of the Part parameter
- The [HostEventParam](#)(1) gets the value of the hDC parameter
- The [HostEventParam](#)(2) gets the value of the X parameter
- The [HostEventParam](#)(3) gets the value of the Y parameter
- The [HostEventParam](#)(4) gets the value of the Width parameter
- The [HostEventParam](#)(5) gets the value of the Height parameter
- The [HostEventParam](#)(6) gets the value of the Cancel parameter

This identifier handles the [BeforeDrawPart](#) event of the host.

Occurs right after drawing the part of the control.

exHostAfterDrawPart

55

- The [HostEventParam\(-1\)](#) returns 6
- The [HostEventParam\(0\)](#) gets the value of the Part parameter
- The [HostEventParam\(1\)](#) gets the value of the hDC parameter
- The [HostEventParam\(2\)](#) gets the value of the X parameter
- The [HostEventParam\(3\)](#) gets the value of the Y parameter
- The [HostEventParam\(4\)](#) gets the value of the Width parameter
- The [HostEventParam\(5\)](#) gets the value of the Height parameter

This identifier handles the [AfterDrawPart](#) event of the host.

Occurs when the control sorts a column.

exHostSort

100

- The [HostEventParam\(-1\)](#) returns 0

This identifier handles the [Sort](#) event of the host.

Occurs just before editing the focused cell.

exHostEdit

101

- The [HostEventParam\(-1\)](#) returns 3
- The [HostEventParam\(0\)](#) gets the value of the Item parameter
- The [HostEventParam\(1\)](#) gets the value of the ColIndex parameter
- The [HostEventParam\(2\)](#) sets / gets the value of the Cancel parameter

This identifier handles the [Edit](#) event of the host.

Occurs when user clicks on the cell's button.

- The [HostEventParam\(-1\)](#) returns 3
- The [HostEventParam\(0\)](#) gets the value of the Item parameter
- The [HostEventParam\(1\)](#) gets the value of the

exHostButtonClick

102

ColIndex parameter

- The [HostEventParam\(2\)](#) gets the value of the Key parameter

This identifier handles the [ButtonClick](#) event of the host.

exHostChange

103

Occurs when the user changes the cell's content.

- The [HostEventParam\(-1\)](#) returns 3
- The [HostEventParam\(0\)](#) gets the value of the Item parameter
- The [HostEventParam\(1\)](#) gets the value of the ColIndex parameter
- The [HostEventParam\(2\)](#) sets / gets the value of the NewValue parameter

This identifier handles the [Change](#) event of the host.

exHostError

104

Fired when an internal error occurs.

- The [HostEventParam\(-1\)](#) returns 2
- The [HostEventParam\(0\)](#) gets the value of the Error parameter
- The [HostEventParam\(1\)](#) gets the value of the Description parameter

This identifier handles the [Error](#) event of the host.

exHostValidateValue

105

Occurs before user changes the cell's value.

- The [HostEventParam\(-1\)](#) returns 4
- The [HostEventParam\(0\)](#) gets the value of the Item parameter
- The [HostEventParam\(1\)](#) gets the value of the ColIndex parameter
- The [HostEventParam\(2\)](#) gets the value of the NewValue parameter
- The [HostEventParam\(3\)](#) sets / gets the value of the Cancel parameter

This identifier handles the [ValidateValue](#) event of the host.

Occurs when an user editor is about to be opened.

exHostUserEditorOpen 106

- The [HostEventParam](#)(-1) returns 3
- The [HostEventParam](#)(0) gets the value of the Object parameter
- The [HostEventParam](#)(1) gets the value of the Item parameter
- The [HostEventParam](#)(2) gets the value of the CollIndex parameter

This identifier handles the [UserEditorOpen](#) event of the host.

Occurs when an user editor is about to be closed.

exHostUserEditorClose 107

- The [HostEventParam](#)(-1) returns 3
- The [HostEventParam](#)(0) gets the value of the Object parameter
- The [HostEventParam](#)(1) gets the value of the Item parameter
- The [HostEventParam](#)(2) gets the value of the CollIndex parameter

This identifier handles the [UserEditorClose](#) event of the host.

Occurs when an user editor fires an event.

exHostUserEditorOleEvent 108

- The [HostEventParam](#)(-1) returns 5
- The [HostEventParam](#)(0) gets the value of the Object parameter
- The [HostEventParam](#)(1) gets the value of the Ev parameter
- The [HostEventParam](#)(2) gets the value of the CloseEditor parameter
- The [HostEventParam](#)(3) gets the value of the Item parameter
- The [HostEventParam](#)(4) gets the value of the CollIndex parameter

This identifier handles the [UserEditorOleEvent](#) event of the host.

Occurs when a new cell is focused.

- The [HostEventParam](#)(-1) returns 0

exHostFocusChanged 109 This identifier handles the [FocusChanged](#) event of the host.

Occurs when the edit operation starts.

- The [HostEventParam](#)(-1) returns 0

exHostEditOpen 110 This identifier handles the [EditOpen](#) event of the host.

Occurs when the edit operation ends.

- The [HostEventParam](#)(-1) returns 0

exHostEditClose 111 This identifier handles the [EditClose](#) event of the host.

Occurs when the bar is moved or resized.

- The [HostEventParam](#)(-1) returns 2
- The [HostEventParam](#)(0) gets the value of the Item parameter
- The [HostEventParam](#)(1) gets the value of the Key parameter

exHostBarResize 120 This identifier handles the [BarResize](#) event of the host.

Fired when the user creates a new bar.

- The [HostEventParam](#)(-1) returns 3
- The [HostEventParam](#)(0) gets the value of the Item parameter
- The [HostEventParam](#)(1) gets the value of the DateStart parameter
- The [HostEventParam](#)(2) gets the value of the DateEnd parameter

exHostCreateBar 121 This identifier handles the [CreateBar](#) event of the

host.

Occurs when the user links two bars using the mouse.

exHostAddLink

122

- The [HostEventParam\(-1\)](#) returns 1
- The [HostEventParam\(0\)](#) gets the value of the LinkKey parameter

This identifier handles the [AddLink](#) event of the host.

Occurs when the user selects objects in the chart area.

exHostChartSelectionChanged123

- The [HostEventParam\(-1\)](#) returns 0

This identifier handles the [ChartSelectionChanged](#) event of the host.

Notifies your application that the current time is changed.

exHostDateTimeChanged

124

- The [HostEventParam\(-1\)](#) returns 1
- The [HostEventParam\(0\)](#) gets the value of the DateTime parameter

This identifier handles the [DateTimeChanged](#) event of the host.

Occurs just before moving a bar from current item to another item.

exHostBarParentChange

125

- The [HostEventParam\(-1\)](#) returns 4
- The [HostEventParam\(0\)](#) gets the value of the Item parameter
- The [HostEventParam\(1\)](#) gets the value of the Key parameter
- The [HostEventParam\(2\)](#) gets the value of theNewItem parameter
- The [HostEventParam\(3\)](#) sets / gets the value of the Cancel parameter

This identifier handles the [BarParentChange](#) event

of the host.

Occurs once the user selects a new time scale unit in the overview zoom area.

exHostOverviewZoom

126

- The [HostEventParam](#)(-1) returns 0

This identifier handles the [OverviewZoom](#) event of the host.

Occurs when the location and the size of the histogram is changed.

exHostHistogramBoundsChange

127

- The [HostEventParam](#)(-1) returns 4
- The [HostEventParam](#)(0) gets the value of the X parameter
- The [HostEventParam](#)(1) gets the value of the Y parameter
- The [HostEventParam](#)(2) gets the value of the Width parameter
- The [HostEventParam](#)(3) gets the value of the Height parameter

This identifier handles the [HistogramBoundsChanged](#) event of the host.

Notifies at runtime when a link between two bars is possible.

exHostAllowLink

128

- The [HostEventParam](#)(-1) returns 6
- The [HostEventParam](#)(0) gets the value of the StartItem parameter
- The [HostEventParam](#)(1) gets the value of the StartBarKey parameter
- The [HostEventParam](#)(2) gets the value of the EndItem parameter
- The [HostEventParam](#)(3) gets the value of the EndBarKey parameter
- The [HostEventParam](#)(4) gets the value of the LinkKey parameter
- The [HostEventParam](#)(5) sets / gets the value of the Cancel parameter

This identifier handles the [AllowLink](#) event of the host.

Occurs when a bar is moving or resizing.

exHostBarResizing

129

- The [HostEventParam](#)(-1) returns 2
- The [HostEventParam](#)(0) gets the value of the Item parameter
- The [HostEventParam](#)(1) gets the value of the Key parameter

This identifier handles the [BarResizing](#) event of the host.

Occurs when the user drags the item between InsertA and InsertB as child of NewParent

exHostAllowAutoDrag

130

- The [HostEventParam](#)(-1) returns 6
- The [HostEventParam](#)(0) gets the value of the Item parameter
- The [HostEventParam](#)(1) gets the value of the NewParent parameter
- The [HostEventParam](#)(2) gets the value of the InsertA parameter
- The [HostEventParam](#)(3) gets the value of the InsertB parameter
- The [HostEventParam](#)(4) sets / gets the value of the Cancel parameter

This identifier handles the [AllowAutoDrag](#) event of the host.

Occurs when the user clicks a button in the scrollbar.

exHostScrollBarClick

200

- The [HostEventParam](#)(-1) returns 2
- The [HostEventParam](#)(0) gets the value of the ScrollBar parameter
- The [HostEventParam](#)(1) gets the value of the ScrollPart parameter

This identifier handles the [ScrollBarClick](#) event of the host.



---

Occurs when an anchor element is clicked.

exHostAnchorClick

450

- The [HostEventParam](#)(-1) returns 2
- The [HostEventParam](#)(0) gets the value of the AnchorID parameter
- The [HostEventParam](#)(1) gets the value of the Options parameter

This identifier handles the [AnchorClick](#) event of the host.

---

## constants HostObjectFieldEnum

The HostObjectFieldEnum type specifies the properties you can map to a field into a data-source. The [DataField](#) property associates a data field to a property of the object of the host. The HostObjectFieldEnum type supports the following values:

Name	Value	Description
exItemsDataSource	0	Specifies the Name of the data source to load/save the rows of the host. The DataSource(Name)/DataMember(Name) defines the data source for the Items/Columns section of the host.
exItemsID	1	Specifies the name of the field from the items data source, that specifies the index/identifier of the row/item. This field should be numeric and unique. The <a href="#">CellValue</a> property specifies the cell's value.
exItemsParentID	2	Specifies the name of the field from the items data source, that specifies the index/identifier of the parent's row/item. The <a href="#">ItemParent</a> property specifies the handle of the item's parent.
exItemsPosition	3	Specifies the name of the field from the items data source, that specifies the position of the row/item. If set, this field is associated with the <a href="#">ItemPosition</a> property of the Items object.
exItemsHeight	4	Specifies the name of the field from the items data source, that specifies the height of the row/item. If set, this field is associated with the <a href="#">ItemHeight</a> property of the Items object.
exItemsBackColor	5	Specifies the name of the field from the items data source, that specifies the background color the row/item. If set, this field is associated with the <a href="#">ItemBackColor</a> property of the Items object.
exItemsForeColor	6	Specifies the name of the field from the items data source, that specifies the foreground color the row/item. If set, this field is associated with the <a href="#">ItemForeColor</a> property of the Items object.
		Specifies the Name of the data source to load/save the tasks of the host. The DataSource(Name)/DataMember(Name) defines the data source for the Tasks/Chart section of the

exTasksDataSource	7	host. If the DataField(exTasksDataSource) is DataField( exlItemsDataSource) ( items and tasks from the same table ), only one task per item / row is allowed.
exTasksItemID	8	Specifies the name of the field from the tasks data source, that specifies the index/identifier of the row/item. This field is not required if the DataField(exTasksDataSource) is DataField( exlItemsDataSource) ( items and tasks from the same table ).
exTasksStart	9	Specifies the name of the field from the tasks data source, that specifies the start date-time of the task. The <a href="#">ItemBar(.,exBarStart)</a> property specifies the date-start of the task.
exTasksEnd	10	Specifies the name of the field from the tasks data source, that specifies the end date-time of the task. The <a href="#">ItemBar(.,exBarEnd)</a> property specifies the date-end of the task.
exTasksName	11	Specifies the name of the field from the tasks data source, that specifies the name of the task. The <a href="#">ItemBar(.,exBarName)</a> property specifies the name of the task.
exTasksColor	12	Specifies the name of the field from the tasks data source, that specifies the color of the task. The <a href="#">ItemBar(.,exBarColor)</a> property specifies the color of the task.
exTasksCaption	13	Specifies the name of the field from the tasks data source, that specifies the caption of the task. The <a href="#">ItemBar(.,exBarCaption)</a> property specifies the caption of the task.
exTasksID	14	Specifies the name of the field from the tasks data source, that specifies the unique key/identifier of bar inside the row/item. The <a href="#">ItemBar(.,exBarKey)</a> property specifies the ID/Key of the task. This field should be numeric and unique.
exLinksDataSource	15	Specifies the Name of the data source to load/save the links of the host. The DataSource(Name)/DataMember(Name) defines the data source for the Links/Chart section of the

		host.
exLinksStart	16	Specifies the name of the field from the links data source, that specifies the start of the link. This could be the identifier of the item / key where the link starts.
exLinksEnd	17	Specifies the name of the field from the links data source, that specifies the end of the link. This could be the identifier of the item / key where the link ends.
exLinksColor	18	Specifies the name of the field from the links data source, that specifies the color of the link. The <a href="#">Link(,exLinkColor)</a> property specifies the color of the link.
exLinksCaption	19	Specifies the name of the field from the links data source, that specifies the caption of the link. The <a href="#">Link(,exLinkText)</a> property specifies the caption of the link.
exLinksID	20	Specifies the name of the field from the links data source, that specifies the unique key/identifier of the link. This field should be numeric and unique.
exNotesDataSource	21	Specifies the Name of the data source to load/save the notes of the host. The <code>DataSource(Name)/DataMember(Name)</code> defines the data source for the <a href="#">Notes</a> collection of the host.
exNotesID	22	Specifies the name of the field from the notes data source, that specifies the identifier of the note within the host. This value is equivalent with the ID parameter of the <a href="#">Add</a> method of the <a href="#">Notes</a> collection. The <a href="#">ID</a> property of the Note object specifies the unique identifier of the note to be shown on the chart. If the associated field is of Numeric type, the host automatically prefixes the number with a "N" character, so the notes will be serialized as "N1", "N2" and so on/. The <a href="#">HostDef</a> (exNewNoteID ) property defines the identifier of the new note to be created. This property is NOT automatically updated once the user creates a new note, so the user is responsible with changing this value, once a new note has been added to the chart.

exNotesItemID	23	Specifies the name of the field from the notes data source, that specifies the index/identifier of the row/item associated with the note. The <a href="#">Item</a> property of the Note specifies the handle of the item associated with the note.
exNotesKey	24	Specifies the name of the field from the notes data source, that specifies the object (date, bar) related to the note. The <a href="#">Key</a> property of the Note specifies the date or bar to be associated with the note. The Key parameter of the <a href="#">Add</a> method of the <a href="#">Notes</a> collection specifies the DATE or the BAR to be related with the newly added note.
exNotesStartCaption	25	Specifies the name of the field from the notes data source, that specifies the text/caption of the start part of the note. The <a href="#">PartText(exNoteStart)</a> property specifies the HTML caption being shown in the start part of the note.
exNotesEndCaption	26	Specifies the name of the field from the notes data source, that specifies the text/caption of the end part of the note. The <a href="#">PartText(exNoteEnd)</a> property specifies the HTML caption being shown in the end part of the note.
exNotesShowLink	27	Specifies the name of the field from the notes data source, that defines the link between parts of the note. The <a href="#">ShowLink</a> property retrieves or sets a value that indicates the link between parts of the note
exNotesStartCanMove	28	Specifies the name of the field from the notes data source, that indicates whether the start part of the note can move. The <a href="#">PartCanMove(exNoteStart)</a> property specifies whether the user can move the start part of the note.
exNotesEndCanMove	29	Specifies the name of the field from the notes data source, that indicates whether the end part of the note can move. The <a href="#">PartCanMove(exNoteEnd)</a> property specifies whether the user can move the end part of the note.
exNotesRelativePosition	30	Specifies the name of the field from the notes data source, that defines the position of the note relative to associated object. The <a href="#">RelativePosition</a> property

specifies the position of the note relative to associated object

exNotesStartHOffset

31

Specifies the name of the field from the notes data source, that indicates the horizontal offset to display the start part of the note. The [PartHOffset\(exNoteStart\)](#) property specifies the horizontal offset to display the start part of the note.

exNotesEndHOffset

32

Specifies the name of the field from the notes data source, that indicates the horizontal offset to display the end part of the note. The [PartHOffset\(exNoteEnd\)](#) property specifies the horizontal offset to display the end part of the note.

exNotesStartVOffset

33

Specifies the name of the field from the notes data source, that indicates the vertical offset to display the start part of the note. The [PartVOffset\(exNoteStart\)](#) property specifies the vertical offset to display the start part of the note.

exNotesEndVOffset

34

Specifies the name of the field from the notes data source, that indicates the vertical offset to display the end part of the note. The [PartVOffset\(exNoteEnd\)](#) property specifies the vertical offset to display the end part of the note.

exNotesStartBackColor

35

Specifies the name of the field from the notes data source, that defines the background color of the start part of the note. The [PartBackColor\(exNoteStart\)](#) property specifies the background color to show the start part of the note.

exNotesEndBackColor

36

Specifies the name of the field from the notes data source, that defines the background color of the end part of the note. The [PartBackColor\(exNoteEnd\)](#) property specifies the background color to show the end part of the note.

exNotesStartForeColor

37

Specifies the name of the field from the notes data source, that defines the foreground color of the start part of the note. The [PartForeColor\(exNoteStart\)](#) property specifies the foreground color to show the start part of the note.

exNotesEndForeColor

38

Specifies the name of the field from the notes data source, that defines the foreground color of the end part of the note. The [PartForeColor\(exNoteEnd\)](#)

property specifies the foreground color to show the end part of the note.

exNotesStartShadow

39

Specifies the name of the field from the notes data source, that indicates whether the start part of the note shows its shadow. The [PartShadow\(exNoteStart\)](#) property specifies whether the start part of the note shows a shadow border.

exNotesEndShadow

40

Specifies the name of the field from the notes data source, that indicates whether the end part of the note shows its shadow. The [PartShadow\(exNoteEnd\)](#) property specifies whether the end part of the note shows a shadow border.

exLinksStartPos

41

Specifies the name of the field from the links data source, that specifies where the link starts. The [Link\(exLinkStartPos\)](#) property specifies the position where the link starts in the source item.

exLinksEndPos

42

Specifies the name of the field from the links data source, that specifies where the link ends. The [Link\(exLinkEndPos\)](#) property specifies the position where the link ends in the target item.

exTasksPercent

43

Specifies the name of the field from the tasks data source, that specifies the percent of the task. The [ItemBar\(exBarPercent\)](#) property specifies the percent from the original bar where the progress bar is displayed. This float value should be between 0 and 1 ( 1 means 100% ).

exTasksShowPercentCaption

44

Specifies the name of the field from the tasks data source, that specifies whether the percent is shown on the task. The [ItemBar\(exBarShowPercentCaption\)](#) property specifies whether the percent is displayed as caption on the bar.

exTasksPercentCaptionFormat

45

Specifies the name of the field from the tasks data source, that specifies the format to displays the percent on the task. The [ItemBar\(exBarPercentCaptionFormat\)](#) property specifies the HTML format to be displayed as percent.

exTasksCanResize	46	Specifies the name of the field from the tasks data source, that specifies whether the task can be resized at runtime. The <a href="#">ItemBar(exBarCanResize)</a> property specifies whether the bar can be resized.
exTasksCanMove	47	Specifies the name of the field from the tasks data source, that specifies whether the task can be moved at runtime. The <a href="#">ItemBar(exBarCanMove)</a> property specifies whether the bar can be moved.
exTasksCanMoveToAnother	48	Specifies the name of the field from the tasks data source, that specifies whether the task can be moved to another item. The <a href="#">ItemBar(exBarCanMoveToAnother)</a> property specifies whether the bar can be moved to another item.
exTasksPattern	49	Specifies the name of the field from the tasks data source, that specifies the pattern of the task. The <a href="#">ItemBar(exBarPattern)</a> property specifies bar's individual pattern



## constants HostReadOnlyEnum

The HostReadOnlyEnum type specifies whether AddNew, Delete or Update are supported by the Host. The [HostReadOnly](#) property retrieves or sets a value that indicates whether the host is readonly. The HostReadOnlyEnum type supports the following flags:

Name	Value	Description
exHostReadOnly	0	The host is read-only.
exHostAllowAddNewItem	1	The host allows adding new items ( it displays the (New) row )
exHostAllowAddEmptyItem	2	The host allows adding new items if the user clicks the empty part of the control.
exHostAllowAddNewTask	4	The host allow creating new tasks.
exHostAllowAddNewLink	8	The host allows linking the tasks.
exHostAllowAddNew	13	The host allows adding new items, tasks or links.
exHostAllowDeleteItem	16	The host allows deleting the item. The user can delete the object at runtime, by pressing the Delete key.
exHostAllowDeleteTask	32	The host allows deleting the task. The user can delete the object at runtime, by pressing the Delete key.
exHostAllowDeleteLink	64	The host allows deleting the link. The user can delete the object at runtime, by pressing the Delete key.
exHostAllowDelete	112	The host allows deleting new items, tasks or links.
exHostAllowUpdate	128	The host allows updating.
exHostReadWrite	253	The host is read-write. The exHostReadWrite is a combination of exHostAllowAddNew, exHostAllowDelete and exHostAllowUpdate. You can use the exHostAllowAddEmptyItem to allow user create new items, once he clicks the empty part of the control.

## constants `PictureDisplayEnum`

Specifies how the picture is displayed on the control's background. Use the `PictureDisplay` property to specify how the control displays its picture.

Name	Value	Description
<code>UpperLeft</code>	0	Aligns the picture to the upper left corner.
<code>UpperCenter</code>	1	Centers the picture on the upper edge.
<code>UpperRight</code>	2	Aligns the picture to the upper right corner.
<code>MiddleLeft</code>	16	Aligns horizontally the picture on the left side, and centers the picture vertically.
<code>MiddleCenter</code>	17	Puts the picture on the center of the source.
<code>MiddleRight</code>	18	Aligns horizontally the picture on the right side, and centers the picture vertically.
<code>LowerLeft</code>	32	Aligns the picture to the lower left corner.
<code>LowerCenter</code>	33	Centers the picture on the lower edge.
<code>LowerRight</code>	34	Aligns the picture to the lower right corner.
<code>Tile</code>	48	Tiles the picture on the source.
<code>Stretch</code>	49	The picture is resized to fit the source.

# G2Host object

**Tip** The /COM object can be placed on a HTML page (with usage of the HTML object tag: <object classid="clsid:...">) using the class identifier: {DFE195F7-4F43-482A-A14B-0C97B032A5E1}. The object's program identifier is: "Exontrol.G2Host". The /COM object module is: "ExG2Host.dll"

The ExG2Host is an extension of the ExG2antt ( Exontrol's Grid-Gantt component ) with full database support ( ADO, DAO, XML). In other words, the ExG2Host loads and saves automatically the host's data (including the hierarchy) to one or more databases. You can map a data field from the data-source, to a property of one object in the host/gantt control, and the control automatically updates the field when it is required. In the same manner, you can automatically save the control's layout, so next time the control is running it automatically get displayed the same way as it was closed. By default, the ExG2Host component let you add/remove/edit items, child-items, tasks, links and so on without having to code anything. The ExG2Host component provides all features of the ExG2antt component, it can be used as isolated, so no need for registration of any of the DLLs. The G2Host object supports the following properties and methods:

Name	Description
<a href="#">AttachTemplate</a>	Attaches a script to the current object, including the events, from a string, file, a safe array of bytes.
<a href="#">AutoSave</a>	Specifies the time in ms to perform saving, once the user changes the host.
<a href="#">DataField</a>	Associates a data field to a property of the object of the host.
<a href="#">DataMember</a>	Specifies the host's data member.
<a href="#">DataSource</a>	Specifies the host's data source.
<a href="#">DataTechnology</a>	Specifies the host's data technology, like ADO or/and DAO.
<a href="#">ExecuteTemplate</a>	Executes a template and returns the result.
<a href="#">Host</a>	Specifies the reference to the host.
<a href="#">HostContext</a>	Gets the host's context at the current cursor position.
<a href="#">HostDef</a>	Defines the default value for specified property.
<a href="#">HostDirty</a>	You can use the HostDirty property to determine whether the current host has been modified since it was last saved.
<a href="#">HostEventParam</a>	Retrieves or sets a value that indicates the current's event parameter.
<a href="#">HostInitTemplate</a>	Specifies the template to init the host.
	Retrieves or sets a value that indicates whether the host is

[HostReadOnly](#)

readonly.

[hWnd](#)

Retrieves the control's window handle.

[Refresh](#)

Refreshes the host.

[Reload](#)

Reloads the entire host.

[Save](#)

Saves the host, if it was modified.

[Template](#)

Specifies the control's template.

[TemplateDef](#)

Defines inside variables for the next  
Template/ExecuteTemplate call.

[TemplatePut](#)

Defines inside variables for the next  
Template/ExecuteTemplate call.

[Version](#)

Retrieves the control's version.

## method G2Host.AttachTemplate (Template as Variant)

Attaches a script to the current object, including the events, from a string, file, a safe array of bytes.

Type	Description
Template as Variant	A string expression that specifies the Template to execute.

The AttachTemplate/x-script code is a simple way of calling control/object's properties, methods/events using strings. The AttachTemplate features allows you to attach a x-script code to the component. The AttachTemplate method executes x-script code ( including events ), from a string, file or a safe array of bytes. This feature allows you to run any x-script code for any configuration of the component /COM, /NET or /WPF. Exontrol owns the x-script implementation in its easiest form and it does not require any VB engine or whatever to get executed. The x-script code can be converted to several programming languages using the eXHelper tool.

The following sample opens the Windows Internet Explorer once the user clicks the control ( /COM version ):

```
AttachTemplate("handle Click(){ CreateObject(`internetexplorer.application`){ Visible = True; Navigate(`https://www.exontrol.com`) } }")
```

This script is equivalent with the following VB code:

```
Private Sub G2Host1_Click()  
    With CreateObject("internetexplorer.application")  
        .Visible = True  
        .Navigate ("https://www.exontrol.com")  
    End With  
End Sub
```

The AttachTemplate/x-script syntax in BNF notation is defined like follows:

```
<x-script> := <lines>  
<lines> := <line>[<eol> <lines>] | <block>  
<block> := <call> [<eol>] { [<eol>] <lines> [<eol>] } [<eol>]  
<eol> := ";" | "\r\n"  
<line> := <dim> | <createobject> | <call> | <set> | <comment> | <handle>[<eol>][<eol>]  
<lines>[<eol>][<eol>]  
<dim> := "DIM" <variables>  
<variables> := <variable> [, <variables>]
```

```

<variable> := "ME" | <identifier>
<createobject> := "CREATEOBJECT(`"<type>`)"
<call> := <variable> | <property> | <variable>."<property> | <createobject>."<property>
<property> := [<property>"."]<identifier>["("<parameters>")"]
<set> := <call> "=" <value>
<property> := <identifier> | <identifier>("<parameters>")"
<parameters> := <value> [","<parameters>]
<value> := <boolean> | <number> | <color> | <date> | <string> | <createobject> | <call>
<boolean> := "TRUE" | "FALSE"
<number> := "0X"<hexa> | ["-"]<integer>["."<integer>]
<digit10> := 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9
<digit16> := <digit10> | A | B | C | D | E | F
<integer> := <digit10>[<integer>]
<hexa> := <digit16>[<hexa>]
<color> := "RGB("<integer>","<integer>","<integer>")"
<date> := "#<integer>"/"<integer>"/"<integer>" "[<integer>":"<integer>":"<integer>"]"#
<string> := ""<text>"" | ""<text>""
<comment> := ""<text>
<handle> := "handle " <event>
<event> := <identifier>("<eparameters>")"
<eparameters> := <eparameter> [","<eparameters>]
<parameters> := <identifier>

```

where:

<identifier> indicates an identifier of the variable, property, method or event, and should start with a letter.

<type> indicates the type the CreateObject function creates, as a progID for /COM version or the assembly-qualified name of the type to create for /NET or /WPF version

<text> any string of characters

The Template or x-script is composed by lines of instructions. Instructions are separated by "\n\r" ( newline characters ) or ";" character.

The advantage of the AttachTemplate relative to [Template](#) / [ExecuteTemplate](#) is that the AttachTemplate can add handlers to the control events.

## property G2Host.AutoSave as Long

Specifies the time in ms to perform saving, once the user changes the host.

Type	Description
Long	A long expression that defines the time in ms to perform saving, once the user changes the host.

By default, the AutoSave property is 1000 ms, which indicates that the changes are automatically saved after 1 second. If AutoSave property is 0, the control's save the data on closing. The [Save](#) method saves the control's data, while the [HostDirty](#) property is True. If no change occurs since last save, nothing will be saved.

Once the HostDirty property is set, the Save will be performed if:

- calling programmatically the Save method
- after elapsed time, if the AutoSave property is positive
- once the user closes the form/dialog

Once the Save method is performed, the [HostDirty](#) property is set on False.

## property G2Host.DataField(Field as HostObjectFieldEnum) as String

Associates a data field to a property of the object of the host.

Type	Description
Field as <a href="#">HostObjectFieldEnum</a>	A <a href="#">HostObjectFieldEnum</a> expression that defines the property to be associated
String	A String expression that defines a data-source name, or a field to be mapped.

When you are bound the control to a data-source you can automatically loads/saves the items, tasks and links of the host. The following properties are used together to provide data-source for the control:

- [DataSource](#) property, specifies the data-source for the host.
- [DataMember](#) property, specifies the query or the name of the table from the DataSource that's bounded with a specified part of the host. This property should be used if the DataSource property refers a file, else the property is ignored
- DataField property, associates a data field to a property of the object of the host.
- [DataTechnology](#) property specifies the host's data technology, like XML, ADO or/and DAO to be used.

Based on the DataTechnology and DataSource properties, the control can use any of the following technologies:

- **XML (Extensible Markup Language)**, if the DataTechnology property includes the "MSXML.DOMDocument" and the DataSource property points to a XML file, or the DataSource property refers to an object of MSXML.DOMDocument type.
- **ADO (ActiveX Data Objects)**, if the DataTechnology property includes the "ADODB.Recordset" or "ADOR.Recordset" and the DataSource property points to a ACCDB / MDB / DBF file, or the DataSource property refers to an object of ADODB.Recordset or ADOR.Recordset type.
- **DAO (Data Access Object)**, if the DataTechnology property includes the "DAO.DBEngine.120" or "DAO.DBEngine.36" and the DataSource property points to a ACCDB / MDB, or the DataSource property refers to an object of DAO.DBEngine.36 or DAO.DBEngine.120.

to bound the host to a data-source.

If using the **XML (Extensible Markup Language)** technology, only following properties are required:

- DataSource property, specifies the data-source for the host. It could be the XML file, or an object of MSXML.DOMDocument type



- DataField(exItemsDataSource) property, which specifies the name of the data-source to be bounded with the control.

The following sample bounds the control **XML (Extensible Markup Language)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.xml"
```

```
.DataField(exItemsDataSource) = "Items"
```

End With

When using the **XML (Extensible Markup Language)** technology the control uses the [Host's LoadXML](#) and [SaveXML](#) to perform savings.

When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** technology, the following properties are required ( **items/columns** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the items section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exItemsDataSource) property, which specifies the name of the data-source / data-member which bounds the items of the host to the data-source

The following sample bounds the items **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
```

```
.DataMember("Items") = "Employees"
```

```
.DataField(exItemsDataSource) = "Items"
```

End With

**A)** When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the tasks can be loaded/saved to the same data-source as items, and so only one task is possible per item, so in this case the following properties are required ( **chart/tasks** section ):

- DataField(exTasksDataSource) property must be the same as DataField(exItemsDataSource) property
- DataField(exTasksStart) property, specifies the name of the field from the tasks data source, that specifies the start date-time of the task.
- DataField(exTasksEnd) property, specifies the name of the field from the tasks data

source, that specifies the end date-time of the task.

The following sample bounds the items and tasks (same table ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

```
With G2Host1
```

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
```

```
.DataMember("Items") = "Employees"
```

```
.DataField(exItemsDataSource) = "Items"
```

```
.DataField(exTasksDataSource) = .DataField(exItemsDataSource)
```

```
.DataField(exTasksStart) = "BirthDate"
```

```
.DataField(exTasksEnd) = "HireDate"
```

```
End With
```

**B)** When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the tasks can be loaded/saved from a different data-source, the following properties are required ( **chart/tasks** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the chart/tasks section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exTasksDataSource) property, which specifies the name of the data-source / data-member which bounds the chart/tasks of the host to the data-source
- DataField(exTasksItemID) property, specifies the name of the field from the tasks data source, that specifies the index/identifier of the row/item.
- DataField(exTasksStart) property, specifies the name of the field from the tasks data source, that specifies the start date-time of the task.
- DataField(exTasksEnd) property, specifies the name of the field from the tasks data source, that specifies the end date-time of the task.

in addition for items/columns section, the following is required too:

- DataField(exItemsID) property, specifies the name of the field from the items data source, that specifies the index/identifier of the row/item.

The following sample bounds the items and tasks (different tables ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

```
With G2Host1
```

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
```

```
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"  
.DataSource("Tasks") = .DataSource("Items")  
.DataMember("Tasks") = "EmployeeDetails"  
.DataField(exTasksDataSource) = "Tasks"  
.DataField(exTasksItemID) = "EmployeeID"  
.DataField(exTasksStart) = "DateStart"  
.DataField(exTasksEnd) = "DateEnd"
```

End With

When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the links can be loaded/saved from a different data-source, so the following properties are required ( **chart/links** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the chart/links section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exLinksDataSource) property, which specifies the name of the data-source / data-member which bounds the links of the host to the data-source
- DataField(exLinksStart) property, specifies the name of the field from the links data source, that specifies the start of the link.
- DataField(exLinksEnd) property, specifies the name of the field from the links data source, that specifies the end of the link.

in addition for chart/tasks section, the following is required too:

- DataField(exTasksID) property, Specifies the name of the field from the tasks data source, that specifies the unique key/identifier of bar inside the row/item.

The following sample bounds the items, tasks and links (different tables ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"  
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"  
.DataSource("Tasks") = .DataSource("Items")
```

```
.DataMember("Tasks") = "EmployeeDetails"  
.DataField(exTasksDataSource) = "Tasks"  
.DataField(exTasksItemID) = "EmployeeID"  
.DataField(exTasksStart) = "DateStart"  
.DataField(exTasksEnd) = "DateEnd"  
.DataField(exTasksID) = "TaskID"  
.DataSource("Links") = .DataSource("Items")  
.DataMember("Links") = "EmployeeLinks"  
.DataField(exLinksDataSource) = "Links"  
.DataField(exLinksStart) = "Start"  
.DataField(exLinksEnd) = "End"
```

End With

## property G2Host.DataMember(Name as String) as String

Specifies the host's data member.

Type	Description
Name as String	A String expression that defines the name of the data-source.
String	A String expression that could be a query, a table def, while the data-source is passed as a string/file.

When you are bound the control to a data-source you can automatically loads/saves the items, tasks and links of the host. The following properties are used together to provide data-source for the control:

- [DataSource](#) property, specifies the data-source for the host.
- DataMember property, specifies the query or the name of the table from the DataSource that's bounded with a specified part of the host. This property should be used if the DataSource property refers a file, else the property is ignored
- [DataField](#) property, associates a data field to a property of the object of the host.
- [DataTechnology](#) property specifies the host's data technology, like XML, ADO or/and DAO to be used.

Based on the DataTechnology and DataSource properties, the control can use any of the following technologies:

- **XML (Extensible Markup Language)**, if the DataTechnology property includes the "MSXML.DOMDocument" and the DataSource property points to a XML file, or the DataSource property refers to an object of MSXML.DOMDocument type.
- **ADO (ActiveX Data Objects)**, if the DataTechnology property includes the "ADODB.Recordset" or "ADOR.Recordset" and the DataSource property points to a ACCDB / MDB / DBF file, or the DataSource property refers to an object of ADODB.Recordset or ADOR.Recordset type.
- **DAO (Data Access Object)**, if the DataTechnology property includes the "DAO.DBEngine.120" or "DAO.DBEngine.36" and the DataSource property points to a ACCDB / MDB, or the DataSource property refers to an object of DAO.DBEngine.36 or DAO.DBEngine.120.

to bound the host to a data-source.

If using the **XML (Extensible Markup Language)** technology, only following properties are required:

- DataSource property, specifies the data-source for the host. It could be the XML file, or an object of MSXML.DOMDocument type

- DataField(exItemsDataSource) property, which specifies the name of the data-source to be bounded with the control.

The following sample bounds the control **XML (Extensible Markup Language)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.xml"
```

```
.DataField(exItemsDataSource) = "Items"
```

End With

When using the **XML (Extensible Markup Language)** technology the control uses the [Host's LoadXML](#) and [SaveXML](#) to perform savings.

When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** technology, the following properties are required ( **items/columns** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the items section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exItemsDataSource) property, which specifies the name of the data-source / data-member which bounds the items of the host to the data-source

The following sample bounds the items **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
```

```
.DataMember("Items") = "Employees"
```

```
.DataField(exItemsDataSource) = "Items"
```

End With

**A)** When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the tasks can be loaded/saved to the same data-source as items, and so only one task is possible per item, so in this case the following properties are required ( **chart/tasks** section ):

- DataField(exTasksDataSource) property must be the same as DataField(exItemsDataSource) property
- DataField(exTasksStart) property, specifies the name of the field from the tasks data source, that specifies the start date-time of the task.
- DataField(exTasksEnd) property, specifies the name of the field from the tasks data

source, that specifies the end date-time of the task.

The following sample bounds the items and tasks (same table ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

```
With G2Host1
```

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
```

```
.DataMember("Items") = "Employees"
```

```
.DataField(exItemsDataSource) = "Items"
```

```
.DataField(exTasksDataSource) = .DataField(exItemsDataSource)
```

```
.DataField(exTasksStart) = "BirthDate"
```

```
.DataField(exTasksEnd) = "HireDate"
```

```
End With
```

**B)** When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the tasks can be loaded/saved from a different data-source, the following properties are required ( **chart/tasks** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the chart/tasks section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exTasksDataSource) property, which specifies the name of the data-source / data-member which bounds the chart/tasks of the host to the data-source
- DataField(exTasksItemID) property, specifies the name of the field from the tasks data source, that specifies the index/identifier of the row/item.
- DataField(exTasksStart) property, specifies the name of the field from the tasks data source, that specifies the start date-time of the task.
- DataField(exTasksEnd) property, specifies the name of the field from the tasks data source, that specifies the end date-time of the task.

in addition for items/columns section, the following is required too:

- DataField(exItemsID) property, specifies the name of the field from the items data source, that specifies the index/identifier of the row/item.

The following sample bounds the items and tasks (different tables ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

```
With G2Host1
```

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
```

```
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"  
.DataSource("Tasks") = .DataSource("Items")  
.DataMember("Tasks") = "EmployeeDetails"  
.DataField(exTasksDataSource) = "Tasks"  
.DataField(exTasksItemID) = "EmployeeID"  
.DataField(exTasksStart) = "DateStart"  
.DataField(exTasksEnd) = "DateEnd"
```

End With

When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the links can be loaded/saved from a different data-source, so the following properties are required ( **chart/links** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the chart/links section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exLinksDataSource) property, which specifies the name of the data-source / data-member which bounds the links of the host to the data-source
- DataField(exLinksStart) property, specifies the name of the field from the links data source, that specifies the start of the link.
- DataField(exLinksEnd) property, specifies the name of the field from the links data source, that specifies the end of the link.

in addition for chart/tasks section, the following is required too:

- DataField(exTasksID) property, Specifies the name of the field from the tasks data source, that specifies the unique key/identifier of bar inside the row/item.

The following sample bounds the items, tasks and links (different tables ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"  
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"  
.DataSource("Tasks") = .DataSource("Items")
```



```
.DataMember("Tasks") = "EmployeeDetails"  
.DataField(exTasksDataSource) = "Tasks"  
.DataField(exTasksItemID) = "EmployeeID"  
.DataField(exTasksStart) = "DateStart"  
.DataField(exTasksEnd) = "DateEnd"  
.DataField(exTasksID) = "TaskID"  
.DataSource("Links") = .DataSource("Items")  
.DataMember("Links") = "EmployeeLinks"  
.DataField(exLinksDataSource) = "Links"  
.DataField(exLinksStart) = "Start"  
.DataField(exLinksEnd) = "End"
```

End With

## property G2Host.DataSource(Name as String) as Variant

Specifies the host's data source.

Type	Description
Name as String	A String expression that defines the name of the data-source.
Variant	A String expression that could refer a file such as XML, ACCDB, MDB or DBF, or an object of XML, ADO or DAO type

When you are bound the control to a data-source you can automatically loads/saves the items, tasks and links of the host. The following properties are used together to provide data-source for the control:

- DataSource property, specifies the data-source for the host.
- [DataMember](#) property, specifies the query or the name of the table from the DataSource that's bounded with a specified part of the host. This property should be used if the DataSource property refers a file, else the property is ignored
- [DataField](#) property, associates a data field to a property of the object of the host.
- [DataTechnology](#) property specifies the host's data technology, like XML, ADO or/and DAO to be used.

Based on the DataTechnology and DataSource properties, the control can use any of the following technologies:

- **XML (Extensible Markup Language)**, if the DataTechnology property includes the "MSXML.DOMDocument" and the DataSource property points to a XML file, or the DataSource property refers to an object of MSXML.DOMDocument type.
- **ADO (ActiveX Data Objects)**, if the DataTechnology property includes the "ADODB.Recordset" or "ADOR.Recordset" and the DataSource property points to a ACCDB / MDB / DBF file, or the DataSource property refers to an object of ADODB.Recordset or ADOR.Recordset type.
- **DAO (Data Access Object)**, if the DataTechnology property includes the "DAO.DBEngine.120" or "DAO.DBEngine.36" and the DataSource property points to a ACCDB / MDB, or the DataSource property refers to an object of DAO.DBEngine.36 or DAO.DBEngine.120.

to bound the host to a data-source.

If using the **XML (Extensible Markup Language)** technology, only following properties are required:

- DataSource property, specifies the data-source for the host. It could be the XML file,

or an object of MSXML.DOMDocument type

- DataField(exItemsDataSource) property, which specifies the name of the data-source to be bounded with the control.

The following sample bounds the control **XML (Extensible Markup Language)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.xml"
```

```
.DataField(exItemsDataSource) = "Items"
```

End With

When using the **XML (Extensible Markup Language)** technology the control uses the [Host's LoadXML](#) and [SaveXML](#) to perform savings.

When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** technology, the following properties are required ( **items/columns** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the items section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exItemsDataSource) property, which specifies the name of the data-source / data-member which bounds the items of the host to the data-source

The following sample bounds the items **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
```

```
.DataMember("Items") = "Employees"
```

```
.DataField(exItemsDataSource) = "Items"
```

End With

**A)** When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the tasks can be loaded/saved to the same data-source as items, and so only one task is possible per item, so in this case the following properties are required ( **chart/tasks** section ):

- DataField(exTasksDataSource) property must be the same as DataField(exItemsDataSource) property
- DataField(exTasksStart) property, specifies the name of the field from the tasks data source, that specifies the start date-time of the task.

- DataField(exTasksEnd) property, specifies the name of the field from the tasks data source, that specifies the end date-time of the task.

The following sample bounds the items and tasks (same table ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
.DataMember("Items") = "Employees"
.DataField(exItemsDataSource) = "Items"
.DataField(exTasksDataSource) = .DataField(exItemsDataSource)
.DataField(exTasksStart) = "BirthDate"
.DataField(exTasksEnd) = "HireDate"
```

End With

**B)** When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the tasks can be loaded/saved from a different data-source, the following properties are required ( **chart/tasks** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the chart/tasks section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exTasksDataSource) property, which specifies the name of the data-source / data-member which bounds the chart/tasks of the host to the data-source
- DataField(exTasksItemID) property, specifies the name of the field from the tasks data source, that specifies the index/identifier of the row/item.
- DataField(exTasksStart) property, specifies the name of the field from the tasks data source, that specifies the start date-time of the task.
- DataField(exTasksEnd) property, specifies the name of the field from the tasks data source, that specifies the end date-time of the task.

in addition for items/columns section, the following is required too:

- DataField(exItemsID) property, specifies the name of the field from the items data source, that specifies the index/identifier of the row/item.

The following sample bounds the items and tasks (different tables ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"  
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"  
.DataSource("Tasks") = .DataSource("Items")  
.DataMember("Tasks") = "EmployeeDetails"  
.DataField(exTasksDataSource) = "Tasks"  
.DataField(exTasksItemID) = "EmployeeID"  
.DataField(exTasksStart) = "DateStart"  
.DataField(exTasksEnd) = "DateEnd"
```

End With

When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the links can be loaded/saved from a different data-source, so the following properties are required ( **chart/links** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the chart/links section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exLinksDataSource) property, which specifies the name of the data-source / data-member which bounds the links of the host to the data-source
- DataField(exLinksStart) property, specifies the name of the field from the links data source, that specifies the start of the link.
- DataField(exLinksEnd) property, specifies the name of the field from the links data source, that specifies the end of the link.

in addition for chart/tasks section, the following is required too:

- DataField(exTasksID) property, Specifies the name of the field from the tasks data source, that specifies the unique key/identifier of bar inside the row/item.

The following sample bounds the items, tasks and links (different tables ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"  
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"
```

```
.DataSource("Tasks") = .DataSource("Items")  
.DataMember("Tasks") = "EmployeeDetails"  
.DataField(exTasksDataSource) = "Tasks"  
.DataField(exTasksItemID) = "EmployeeID"  
.DataField(exTasksStart) = "DateStart"  
.DataField(exTasksEnd) = "DateEnd"  
.DataField(exTasksID) = "TaskID"  
.DataSource("Links") = .DataSource("Items")  
.DataMember("Links") = "EmployeeLinks"  
.DataField(exLinksDataSource) = "Links"  
.DataField(exLinksStart) = "Start"  
.DataField(exLinksEnd) = "End"
```

End With

## property G2Host.DataTechnology(Name as String) as String

Specifies the host's data technology, like ADO or/and DAO.

Type	Description
Name as String	A String expression that defines the name of the data-source.
String	A String expression that defines the technologies available for the specified data-source separated by the ";" character.

By default, the DataTechnology property is "MSXML.DOMDocument;ADODB.Recordset;ADOR.Recordset;DAO.DBEngine.120;DAO.D". For instance, if you want to force using the DAO technology you can set the DataTechnology property on "DAO.DBEngine.120;DAO.DBEngine.36" and so on other technology will be tried. When you are bound the control to a data-source you can automatically loads/saves the items, tasks and links of the host. The following properties are used together to provide data-source for the control:

- [DataSource](#) property, specifies the data-source for the host.
- [DataMember](#) property, specifies the query or the name of the table from the DataSource that's bounded with a specified part of the host. This property should be used if the DataSource property refers a file, else the property is ignored
- [DataField](#) property, associates a data field to a property of the object of the host.
- DataTechnology property specifies the host's data technology, like XML, ADO or/and DAO to be used.

Based on the DataTechnology and DataSource properties, the control can use any of the following technologies:

- **XML (Extensible Markup Language)**, if the DataTechnology property includes the "MSXML.DOMDocument" and the DataSource property points to a XML file, or the DataSource property refers to an object of MSXML.DOMDocument type.
- **ADO (ActiveX Data Objects)**, if the DataTechnology property includes the "ADODB.Recordset" or "ADOR.Recordset" and the DataSource property points to a ACCDB / MDB / DBF file, or the DataSource property refers to an object of ADODB.Recordset or ADOR.Recordset type.
- **DAO (Data Access Object)**, if the DataTechnology property includes the "DAO.DBEngine.120" or "DAO.DBEngine.36" and the DataSource property points to a ACCDB / MDB, or the DataSource property refers to an object of DAO.DBEngine.36 or DAO.DBEngine.120.

to bound the host to a data-source.

If using the **XML (Extensible Markup Language)** technology, only following properties are required:

- DataSource property, specifies the data-source for the host. It could be the XML file, or an object of MSXML.DOMDocument type
- DataField(exItemsDataSource) property, which specifies the name of the data-source to be bounded with the control.

The following sample bounds the control **XML (Extensible Markup Language)** way:

```
With G2Host1
```

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.xml"
```

```
.DataField(exItemsDataSource) = "Items"
```

```
End With
```

When using the **XML (Extensible Markup Language)** technology the control uses the [Host's LoadXML](#) and [SaveXML](#) to perform savings.

When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** technology, the following properties are required ( **items/columns** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the items section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exItemsDataSource) property, which specifies the name of the data-source / data-member which bounds the items of the host to the data-source

The following sample bounds the items **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

```
With G2Host1
```

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
```

```
.DataMember("Items") = "Employees"
```

```
.DataField(exItemsDataSource) = "Items"
```

```
End With
```

**A)** When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the tasks can be loaded/saved to the same data-source as items, and so only one task is possible per item, so in this case the following properties are required ( **chart/tasks** section ):



- DataField(exTasksDataSource) property must be the same as DataField(exItemsDataSource) property
- DataField(exTasksStart) property, specifies the name of the field from the tasks data source, that specifies the start date-time of the task.
- DataField(exTasksEnd) property, specifies the name of the field from the tasks data source, that specifies the end date-time of the task.

The following sample bounds the items and tasks (same table ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
.DataMember("Items") = "Employees"
.DataField(exItemsDataSource) = "Items"
.DataField(exTasksDataSource) = .DataField(exItemsDataSource)
.DataField(exTasksStart) = "BirthDate"
.DataField(exTasksEnd) = "HireDate"
```

End With

**B)** When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the tasks can be loaded/saved from a different data-source, the following properties are required ( **chart/tasks** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the chart/tasks section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exTasksDataSource) property, which specifies the name of the data-source / data-member which bounds the chart/tasks of the host to the data-source
- DataField(exTasksItemID) property, specifies the name of the field from the tasks data source, that specifies the index/identifier of the row/item.
- DataField(exTasksStart) property, specifies the name of the field from the tasks data source, that specifies the start date-time of the task.
- DataField(exTasksEnd) property, specifies the name of the field from the tasks data source, that specifies the end date-time of the task.

in addition for items/columns section, the following is required too:

- DataField(exItemsID) property, specifies the name of the field from the items data source, that specifies the index/identifier of the row/item.

The following sample bounds the items and tasks (different tables ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"  
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"  
.DataSource("Tasks") = .DataSource("Items")  
.DataMember("Tasks") = "EmployeeDetails"  
.DataField(exTasksDataSource) = "Tasks"  
.DataField(exTasksItemID) = "EmployeeID"  
.DataField(exTasksStart) = "DateStart"  
.DataField(exTasksEnd) = "DateEnd"
```

End With

When using the **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)**, the links can be loaded/saved from a different data-source, so the following properties are required ( **chart/links** section ):

- DataSource property, specifies the data-source for the host. It could be the ACCDB/MDB/DBF file, or an object of ADODB.Recordset or ADOR.Recordset type
- DataMember property, specifies the query or the table definition to be bounded with the chart/links section of the host, if the DataSource property is of string type, else it is ignored.
- DataField(exLinksDataSource) property, which specifies the name of the data-source / data-member which bounds the links of the host to the data-source
- DataField(exLinksStart) property, specifies the name of the field from the links data source, that specifies the start of the link.
- DataField(exLinksEnd) property, specifies the name of the field from the links data source, that specifies the end of the link.

in addition for chart/tasks section, the following is required too:

- DataField(exTasksID) property, Specifies the name of the field from the tasks data source, that specifies the unique key/identifier of bar inside the row/item.

The following sample bounds the items, tasks and links (different tables ) **ADO (ActiveX Data Objects)** or **DAO (Data Access Object)** way:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"  
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"  
.DataSource("Tasks") = .DataSource("Items")  
.DataMember("Tasks") = "EmployeeDetails"  
.DataField(exTasksDataSource) = "Tasks"  
.DataField(exTasksItemID) = "EmployeeID"  
.DataField(exTasksStart) = "DateStart"  
.DataField(exTasksEnd) = "DateEnd"  
.DataField(exTasksID) = "TaskID"  
.DataSource("Links") = .DataSource("Items")  
.DataMember("Links") = "EmployeeLinks"  
.DataField(exLinksDataSource) = "Links"  
.DataField(exLinksStart) = "Start"  
.DataField(exLinksEnd) = "End"
```

End With

## method G2Host.ExecuteTemplate (Template as String)

Executes a template and returns the result.

Type	Description
Template as String	A Template string being executed

Return	Description
Variant	A Variant expression that indicates the result after executing the Template.

Use the ExecuteTemplate property to returns the result of executing a template file. Use the [Template](#) property to execute a template without returning any result. Use the ExecuteTemplate property to execute code by passing instructions as a string ( template string ).

For instance, the following sample retrieves the beginning date ( as string ) for the default bar in the first visible item:

```
Debug.Print G2Host1.ExecuteTemplate("Items.ItemBar(FirstVisibleItem),",1")
```

Most of our UI components provide a Template page that's accessible in design mode. No matter what programming language you are using, you can have a quick view of the component's features using the WYSWYG Template editor.

- Place the control to your form or dialog.
- Locate the Properties item, in the control's context menu, in design mode. If your environment doesn't provide a Properties item in the control's context menu, please try to locate in the Properties browser.
- Click it, and locate the Template page.
- Click the Help button. In the left side, you will see the component, in the right side, you will see a x-script code that calls methods and properties of the control.

The control's Template page helps user to initialize the control's look and feel in design mode, using the x-script language that's easy and powerful. The Template page displays the control on the left side of the page. On the right side of the Template page, a simple editor is displayed where user writes the initialization code. The control's look and feel is automatically updated as soon as the user types new instructions. The Template script is saved to the container persistence ( when Apply button is pressed ), and it is executed when the control is initialized at runtime. Any component that provides a WYSWYG Template page, provides a Template property. The Template property executes code from a string ( template string ).

The Template or x-script is composed by lines of instructions. Instructions are separated by

"\n\r" ( newline characters ) or ";" character. The ; character may be available only for newer versions of the components.

An x-script instruction/line can be one of the following:

- **Dim** list of variables *Declares the variables. Multiple variables are separated by commas. ( Sample: Dim h, h1, h2 )*
- **variable = property( list of arguments )** *Assigns the result of the property to a variable. The "variable" is the name of a declared variable. The "property" is the property name of the object in the context. The "list or arguments" may include variables or values separated by commas. ( Sample: h = InsertItem(0,"New Child") )*
- **property( list of arguments ) = value** *Changes the property. The value can be a variable, a string, a number, a boolean value or a RGB value.*
- **method( list of arguments )** *Invokes the method. The "list or arguments" may include variables or values separated by commas.*
- **{** *Beginning the object's context. The properties or methods called between { and } are related to the last object returned by the property prior to { declaration.*
- **}** *Ending the object's context*
- **object. property( list of arguments ).property( list of arguments )....** *The .(dot) character splits the object from its property. For instance, the Columns.Add("Column1").HeaderBackColor = RGB(255,0,0), adds a new column and changes the column's header back color.*

The x-script may uses constant expressions as follow:

- *boolean* expression with possible values as *True* or *False*
- *numeric* expression may starts with 0x which indicates a hexa decimal representation, else it should starts with digit, or +/- followed by a digit, and . is the decimal separator. *Sample: 13 indicates the integer 13, or 12.45 indicates the double expression 12,45*
- *date* expression is delimited by # character in the format #mm/dd/yyyy hh:mm:ss#. *Sample: #31/12/1971# indicates the December 31, 1971*
- *string* expression is delimited by " or ` characters. If using the ` character, please make sure that it is different than ' which allows adding comments inline. *Sample: "text" indicates the string text.*

Also , the template or x-script code may support general functions as follows:

- **Me** *property indicates the original object.*
- **RGB(R,G,B)** *property retrieves an RGB value, where the R, G, B are byte values that indicates the R G B values for the color being specified. For instance, the following code changes the control's background color to red: BackColor = RGB(255,0,0)*
- **LoadPicture(file)** *property loads a picture from a file or from BASE64 encoded strings, and returns a Picture object required by the picture properties.*

- **CreateObject(progID)** *property creates and retrieves a single uninitialized object of the class associated with a specified program identifier.*

# property G2Host.Host as Object

Specifies the reference to the host.

Type	Description
Object	An Object of <a href="#">ExG2antt</a> type.

By default, the control creates an instance of [ExG2antt](#) type, and the Host property returns a reference to the newly created host. Once the Host is created, the [HostInitTemplate](#) property is applied, so columns, and colors are being initialized. You can use the Host property to access the inner host. The Host property returns Nothing, if the host has not been created. The [HostReadOnly](#) property specifies whether the host is read only. Once the Host property is invoked, the control's data is loaded based on the [DataTechnology](#), [DataSource](#), [DataMember](#) and [DataField](#) properties.

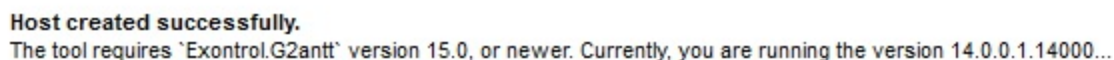
If the control is not able to create the Host, it may display:



Failed to create host.  
The 'Exontrol.G2antt' is missing, or not properly installed.

Usually, this is happen, if no [ExG2antt](#) is installed on the machine.

If the control is not able to create the Host, it may display:



Host created successfully.  
The tool requires 'Exontrol.G2antt' version 15.0, or newer. Currently, you are running the version 14.0.0.1.14000...

Usually, this is happen, if the version of the [ExG2antt](#) on the machine, is lower than 15.0. The eXG2Host tool requires version 15.0 of [ExG2antt](#) or upper.

If the host is created successfully, it may display:



		23	June 11, 2017					24
	Tasks	S	S	M	T	W	T	F
1	(New)							

In case you want to have some intelisense for VB6, all you need is to add reference to exg2antt control, Project\References\ExG2antt 1.0 Control Library and add a code such as:

```
Dim g As EXG2ANTTLib.G2antt
```

```
Set g = G2Host1.Host
```

```
With g
```

```
' Now g is the inner control of EXG2Host, which is actually a ExG2antt control.
```

```
End With
```

For instance, the following sample adds Start and End columns:

```
With G2Host1
```

```
  .HostReadOnly = HostReadOnlyEnum.exHostReadWrite Or  
HostReadOnlyEnum.exHostAllowAddEmptyItem
```

```
  Dim g As EXG2ANTTLib.G2antt
```

```
  Set g = G2Host1.Host
```

```
  With g
```

```
    .SingleSel = False
```

```
    .OnResizeControl = 1
```

```
    .ScrollBars = &H800 Or ScrollBarsEnum.exDisableNoVertical
```

```
    With .Columns.Add("Start")
```

```
      .AllowSizing = False
```

```
      .Def(18) = 1
```

```
      .Editor.EditType = 7
```

```
    End With
```

```
    With .Columns.Add("End")
```

```
      .AllowSizing = False
```

```
      .Def(18) = 2
```

```
      .Editor.EditType = 7
```

```
    End With
```

```
    .Items.AllowCellValueToItemBar = True
```

```
    With .Chart
```

```
      .AllowCreateBar = 1
```

```
      .PaneWidth(False) = 256
```

```
      .Bars.Item("Task").OverlaidType =
```

```
OverlaidBarTypeEnum.exOverlaidBarsStackAutoArrange Or
```

```
OverlaidBarTypeEnum.exOverlaidBarsStack
```

```
    End With
```

```
  End With
```

```
End With
```





## property G2Host.HostContext as HostContext

Gets the host's context at the current cursor position.

Type	Description
<a href="#">HostContext</a>	A <a href="#">HostContext</a> object that holds information about item, task and link from the current cursor position

The HostContext property holds information about item, task and link from the current cursor position. The [HitTest](#) property determines the host' objects that can be accessed at current cursor location. For instance, if the [HitTest](#) property includes the exHTValidColumn flag, it indicates that the cursor hovers a column, and the [Column](#) property gives the index of the column from the cursor. The [Context](#) event notifies your application once the user right clicks the control. The HostContext property can be used on any event.

The following VB sample displays information about the current context, when user right clicks the control:

```
Private Sub G2Host1_Context()  
    With G2Host1  
        Debug.Print( .HostContext.ToString )  
    End With  
End Sub
```

# Property G2Host.HostDef(Property as DefHostPropertyEnum) as Variant

Defines the default value for specified property.

Type	Description
Property as <a href="#">DefHostPropertyEnum</a>	A <a href="#">DefHostPropertyEnum</a> property that specify the property to be accessed.
Variant	A Variant expression that defines the default value for giving property.

The HostDef property defines the default value for specified property. For instance, the HostDef(exNew) property defines the "(New)" caption to be displayed on the AddNew row.



The [Refresh](#) method refreshes the control including the inner host. The Refresh method may be required for changing some properties of the HostDef property.

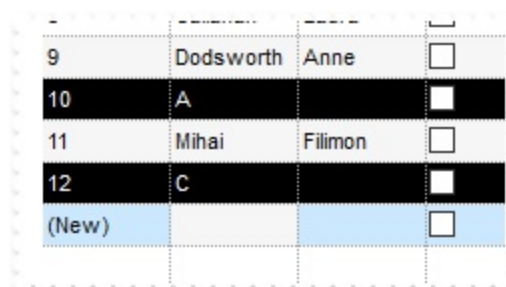
The following VB sample changes the colors to highlight the errors:

With G2Host1

```
.DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"  
.DataMember("Items") = "Employees"  
.DataField(exItemsDataSource) = "Items"  
.DataField(exItemsID) = "EmployeeID"  
.HostDef(exErrorBackColor) = 0  
.HostDef(exErrorForeColor) = 16777215
```

End With

The following picture shows how errors shows up:





## property G2Host.HostDirty as Boolean

You can use the HostDirty property to determine whether the current host has been modified since it was last saved.

Type	Description
Boolean	A Boolean expression that specifies whether the current host has been modified since it was last saved.

By default, the HostDirty property is False. Once a change occurs, the HostDirty property is set on True. Generally, any UI interaction of the control may produce a change, and if the change occurs the HostDirty property on True. For instance, the user resizes one or more task bars, a change occurs, and so the HostDirty property is set on True. The [Save](#) method saves the control's data, while the HostDirty property is True. If no change occurs since last save, nothing will be saved. The Save method may not be allowed based on the data-source provided. Before calling programmatically the Save method or performing changes in the control ( like changing a property of a task bar ) you should call the HostDirty property on True. The [Reload](#) method reloads the control's data for original sources. The [Refresh](#) method refreshes the control including the inner host.

Once the HostDirty property is set, the Save will be performed if:

- calling programmatically the Save method
- after elapsed time, if the AutoSave property is positive
- once the user closes the form/dialog

Once the [Save](#) method is performed, the HostDirty property is set on False.

The [Error](#) event notifies your application once any error occurs.

For instance, the following error:

- 0 The data-source provides no support for AddNew method[...]
- 0 The data-source provides no support for Delete method[...]
- 0 The data-source provides no support for Update method[...]

Indicates that no AddNew, Delete or Update is allowed, and so no Save will be performed.

## property G2Host.HostEventParam(Parameter as Long) as Variant

Retrieves or sets a value that indicates the current's event parameter.

Type	Description
Parameter as Long	A long expression that specifies the index of the parameter to be accessed. The HostEventParam(-1) property returns the count of parameters for current event.
Variant	A Variant value that indicates the value of the event's parameter.

The HostEventParam property retrieves or sets a value that indicates the current's event parameter. The [HostEvent](#) is fired each time the host fires a event. In other words, the HostEvent event forwards any event that the host may fire. Each event has different number of parameters, which is indicated by the HostEventParam(-1) property. Each parameter of the event can be accessed through the HostEventParam property. The HostEventParam(-2) gives a general information of the event.

The following VB sample displays information about the host's events:

```
Private Sub G2Host1_HostEvent(ByVal EventID As EXG2HOSTLibCtl.HostEventEnum)
    Debug.Print G2Host1.HostEventParam(-2)
End Sub
```

The following VB sample displays a message box, before pressing the Delete key, and cancel the operation if user selects No or Cancel:

```
Private Sub G2Host1_HostEvent(ByVal EventID As EXG2HOSTLibCtl.HostEventEnum)
    If (EventID = exHostKeyDown) Then
        If (vbKeyDelete = CInt(G2Host1.HostEventParam(0))) Then
            If Not (MsgBox("Do you want to delete?", vbYesNoCancel) = vbYes) Then
                G2Host1.HostEventParam(0) = 0
            End If
        End If
    End If
End Sub
```

You can disable completely deletion by removing the exHostAllowDelete flag from the [HostReadOnly](#) property.

## property G2Host.HostInitTemplate as String

Specifies the template to init the host.

Type	Description
String	A String expression that defines the initial template to be applied when the control creates the host.

By default, the HostInitTemplate property defines the template to be applied on the [Host](#), when it is created. In other words, it's the initialization code of the host, which include adding columns, colors, and so on. Use the [ExecuteTemplate](#) property to returns the result of executing a template file. Use the [Template](#) property to execute a template without returning any result. Use the ExecuteTemplate property to execute code by passing instructions as a string ( template string ).

At creation time, the following code is applied to the host:

```
With .Host
  .BeginUpdate
  With .Columns
    .Clear
    .Add("Tasks").Editor.EditType = EditType
  With .Add("")
    .AllowSort = False
    .AllowSizing = False
    .FormatColumn = "1 pos ``"
    .Position = 0
    .Width = 32
    .Alignment = RightAlignment
    .Def(exCellPaddingLeft) = 2
    .Def(exCellPaddingRight) = 2
  End With
End With
.AntiAliasing = True
.ColumnAutoResize = True
.ScrollBySingleLine = True
.HeaderHeight = 24
.DefaultItemHeight = 20
.ContinueColumnScroll = False
.Appearance = None2
```

```
.HeaderAppearance = Etched
.SelForeColor = RGB(0,0,0)
.SelBackColor = RGB(204,232,255)
.BackColor = RGB(255,255,255)
.ForeColor = RGB(0,0,0)
.BackColorAlternate = RGB(246,246,246)
.BackColorHeader = .BackColor
.BackColorLevelHeader = .BackColor
.Background(exCursorHoverColumn) = -1
.DrawGridLines = exAllLines
```

With .Chart

```
.SelBackColor = G2antt1.SelBackColor
.BackColor = RGB(255,255,255)
.NonworkingDaysPattern = exPatternBDiagonal
.LevelCount = 2
.OverviewVisible = exOverviewShowAll
.AllowResizeChart = ResizeChartEnum.exAllowChangeUnitScale Or
```

ResizeChartEnum.exAllowResizeChartMiddle Or

ResizeChartEnum.exAllowResizeChartHeader

```
.DrawGridLines = exAllLines
.FirstWeekDay = .LocFirstWeekDay
.MonthNames = .LocMonthNames
.WeekDays = .LocWeekDays
.AMPM = .LocAMPM
.UnitScale = exDay
```

End With

```
.EndUpdate
```

End With



## property G2Host.HostReadOnly as HostReadOnlyEnum

Retrieves or sets a value that indicates whether the host is readonly.

Type	Description
<a href="#">HostReadOnlyEnum</a>	A <a href="#">HostReadOnlyEnum</a> expression that defines the operation being allowed

By default, the HostReadOnly property is exHostReadWrite, which indicates that all operations are allowed. Even so, if the control's data-source does not allow changes, certain operations may be not allowed.

The HostReadOnly property changes the following properties of the [Host](#):

- [ReadOnly](#) property, Retrieves or sets a value that indicates whether the control is read only
- [AutoDrag](#) property, Gets or sets a value that indicates the way the component supports the AutoDrag feature
- [Chart.AllowCreateBar](#) property, Allows creating new bars using the mouse.
- [Chart.BarsAllowSizing](#) property, Specifies whether bars can be resized at run-time.
- [Chart.AllowLinkBars](#) property, Specifies whether the user can link the bars using the mouse.

The [Error](#) event notifies your application once any error occurs.

For instance, the following error:

- 0 The data-source provides no support for AddNew method[...]
- 0 The data-source provides no support for Delete method[...]
- 0 The data-source provides no support for Update method[...]

Indicates that no AddNew, Delete or Update is allowed, and so no [Save](#) will be performed.

For instance, the the HostReadOnly on exHostReadOnly, makes the control read-only, so no changes are allowed. Even so, you can still change the Host's properties like ReadOnly, AllowCreateBar, to make the control works the way as you desire.

## property G2Host.hWnd as Long

Retrieves the control's window handle.

Type	Description
Long	A long expression that indicates the control's window handle.

The Microsoft Windows operating environment identifies each form and control in an application by assigning it a handle, or hWnd. The hWnd property is used with Windows API calls. Many Windows operating environment functions require the hWnd of the active window as an argument. The hWnd property of the [Host](#) object defines the hWnd of the inside host.

## method `G2Host.Refresh ()`

Refreshes the host.

Type	Description
------	-------------

The Refresh method refreshes the control including the inner host. The Refresh method may be required for changing some properties of the [HostDef](#) property. The [Reload](#) method reloads the control's data for original sources.

## method **G2Host.Reload ()**

Reloads the entire host.

Type	Description
------	-------------

## method G2Host.Save ()

Saves the host, if it was modified.

Type	Description
------	-------------

The Save method saves the control's data, while the [HostDirty](#) property is True. If no change occurs since last save, nothing will be saved. The Save method may not be allowed based on the data-source provided. Before calling programmatically the Save method or performing changes in the control ( like changing a property of a task bar ) you should call the [HostDirty](#) property on True. Generally, any UI interaction of the control may produce a change, and if the change occurs the HostDirty property on True. For instance, the user resizes one or more task bars, a change occurs, and so the HostDirty property is set on True. The [Reload](#) method reloads the control's data for original sources. The [Refresh](#) method refreshes the control including the inner host.

Once the [HostDirty](#) property is set, the Save will be performed if:

- calling programmatically the Save method
- after elapsed time, if the AutoSave property is positive
- once the user closes the form/dialog

Once the Save method is performed, the [HostDirty](#) property is set on False.

The [Error](#) event notifies your application once any error occurs.

For instance, the following error:

- 0 The data-source provides no support for AddNew method[...]
- 0 The data-source provides no support for Delete method[...]
- 0 The data-source provides no support for Update method[...]

Indicates that no AddNew, Delete or Update is allowed, and so no Save will be performed.

# property G2Host.Template as String

Specifies the control's template.

Type	Description
String	A string expression that indicates the control's template.

The control's template uses the X-Script language to initialize the control's content. Use the Template property page of the control to update the control's Template property. Use the Template property to execute code by passing instructions as a string ( template string ). Use the [ExecuteTemplate](#) property to execute a template script and gets the result.

Most of our UI components provide a Template page that's accessible in design mode. No matter what programming language you are using, you can have a quick view of the component's features using the WYSWYG Template editor.

- Place the control to your form or dialog.
- Locate the Properties item, in the control's context menu, in design mode. If your environment doesn't provide a Properties item in the control's context menu, please try to locate in the Properties browser.
- Click it, and locate the Template page.
- Click the Help button. In the left side, you will see the component, in the right side, you will see a x-script code that calls methods and properties of the control.

The control's Template page helps user to initialize the control's look and feel in design mode, using the x-script language that's easy and powerful. The Template page displays the control on the left side of the page. On the right side of the Template page, a simple editor is displayed where user writes the initialization code. The control's look and feel is automatically updated as soon as the user types new instructions. The Template script is saved to the container persistence ( when Apply button is pressed ), and it is executed when the control is initialized at runtime. Any component that provides a WYSWYG Template page, provides a Template property. The Template property executes code from a string ( template string ).

The Template or x-script is composed by lines of instructions. Instructions are separated by "\n\r" ( newline characters ) or ";" character. The ; character may be available only for newer versions of the components.

An x-script instruction/line can be one of the following:

- **Dim** list of variables *Declares the variables. Multiple variables are separated by commas. ( Sample: Dim h, h1, h2 )*
- variable = property( list of arguments ) *Assigns the result of the property to a variable. The "variable" is the name of a declared variable. The "property" is the property name*

*of the object in the context. The "list or arguments" may include variables or values separated by commas. ( Sample: `h = InsertItem(0,"New Child")` )*

- *property( list of arguments ) = value Changes the property. The value can be a variable, a string, a number, a boolean value or a RGB value.*
- *method( list of arguments ) Invokes the method. The "list or arguments" may include variables or values separated by commas.*
- *{ Beginning the object's context. The properties or methods called between { and } are related to the last object returned by the property prior to { declaration.*
- *} Ending the object's context*
- *object.property( list of arguments ).property( list of arguments ).... The .(dot) character splits the object from its property. For instance, the `Columns.Add("Column1").HeaderBackColor = RGB(255,0,0)`, adds a new column and changes the column's header back color.*

The x-script may uses constant expressions as follow:

- *boolean* expression with possible values as *True* or *False*
- *numeric* expression may starts with 0x which indicates a hexa decimal representation, else it should starts with digit, or +/- followed by a digit, and . is the decimal separator. *Sample: 13 indicates the integer 13, or 12.45 indicates the double expression 12,45*
- *date* expression is delimited by # character in the format #mm/dd/yyyy hh:mm:ss#. *Sample: #31/12/1971# indicates the December 31, 1971*
- *string* expression is delimited by " or ` characters. If using the ` character, please make sure that it is different than ' which allows adding comments inline. *Sample: "text" indicates the string text.*

Also , the template or x-script code may support general functions as follows:

- **Me** *property indicates the original object.*
- **RGB(R,G,B)** *property retrieves an RGB value, where the R, G, B are byte values that indicates the R G B values for the color being specified. For instance, the following code changes the control's background color to red: `BackColor = RGB(255,0,0)`*
- **LoadPicture(file)** *property loads a picture from a file or from BASE64 encoded strings, and returns a Picture object required by the picture properties.*
- **CreateObject(progID)** *property creates and retrieves a single uninitialized object of the class associated with a specified program identifier.*

## property G2Host.TemplateDef as Variant

Defines inside variables for the next Template/ExecuteTemplate call.

Type	Description
Variant	A string expression that indicates the Dim declaration, or any Object expression to be assigned to previously declared variables.

The TemplateDef property / [TemplatePut](#) method has been added to allow programming languages such as dBASE Plus to set control's properties with multiple parameters. It is known that programming languages such as **dBASE Plus** or **XBasic from AlphaFive**, does not support setting a property with multiple parameters. In other words, these programming languages does not support something like *Property(Parameters) = Value*, so our controls provide an alternative using the TemplateDef method. The first call of the TemplateDef should be a declaration such as "Dim a,b" which means the next 2 calls of the TemplateDef defines the variables a and b. The next call should be [Template](#) or [ExecuteTemplate](#) property which can use the variable a and b being defined previously.

So, calling the TemplateDef property should be as follows:

```
with (Control)
  TemplateDef = [Dim var_Column]
  TemplateDef = var_Column
  Template = [var_Column.Def(4) = 255]
endwith
```

This sample allocates a variable var\_Column, assigns the value to the variable ( the second call of the TemplateDef ), and the Template call uses the var\_Column variable ( as an object ), to call its Def property with the parameter 4.

Let's say we need to define the background color for a specified column, so we need to call the Def(exCellBackColor) property of the column, to define the color for all cells in the column.

The following **VB6** sample shows setting the Def property such as:

```
With Control
  .Columns.Add("Column 1").Def(exCellBackColor) = 255
  .Columns.Add "Column 2"
  .Items.AddItem 0
  .Items.AddItem 1
```



.Items.AddItem 2

End With

In **dBASE Plus**, calling the Def(4) has no effect, instead using the TemplateDef helps you to use properly the Def property as follows:

```
local Control,var_Column
```

```
Control = form.ActiveX1.nativeObject
```

```
// Control.Columns.Add("Column 1").Def(4) = 255
```

```
var_Column = Control.Columns.Add("Column 1")
```

```
with (Control)
```

```
    TemplateDef = [Dim var_Column]
```

```
    TemplateDef = var_Column
```

```
    Template = [var_Column.Def(4) = 255]
```

```
endwith
```

```
Control.Columns.Add("Column 2")
```

```
Control.Items.AddItem(0)
```

```
Control.Items.AddItem(1)
```

```
Control.Items.AddItem(2)
```

The equivalent sample for **XBasic in A5**, is as follows:

```
Dim Control as P
```

```
Dim var_Column as P
```

```
Control = topparent:CONTROL_ACTIVEX1.activex
```

```
' Control.Columns.Add("Column 1").Def(4) = 255
```

```
var_Column = Control.Columns.Add("Column 1")
```

```
Control.TemplateDef = "Dim var_Column"
```

```
Control.TemplateDef = var_Column
```

```
Control.Template = "var_Column.Def(4) = 255"
```

```
Control.Columns.Add("Column 2")
```

```
Control.Items.AddItem(0)
```

```
Control.Items.AddItem(1)
```

```
Control.Items.AddItem(2)
```

The samples just call the `Column.Def(4) = Value`, using the `TemplateDef`. The first call of `TemplateDef` property is `"Dim var_Column"`, which indicates that the next call of the `TemplateDef` will defines the value of the variable `var_Column`, in other words, it defines the object `var_Column`. The last call of the `Template` property uses the `var_Column` member to use the x-script and so to set the `Def` property so a new color is being assigned to the column.

The `TemplateDef`, [Template](#) and [ExecuteTemplate](#) support x-script language ( `Template` script of the `Exontrols` ), like explained bellow:

The `Template` or x-script is composed by lines of instructions. Instructions are separated by `"\n\r"` ( newline characters ) or `";"` character. The `;` character may be available only for newer versions of the components.

An x-script instruction/line can be one of the following:

- **Dim** list of variables *Declares the variables. Multiple variables are separated by commas. ( Sample: `Dim h, h1, h2` )*
- `variable = property( list of arguments )` *Assigns the result of the property to a variable. The "variable" is the name of a declared variable. The "property" is the property name of the object in the context. The "list or arguments" may include variables or values separated by commas. ( Sample: `h = InsertItem(0,"New Child")` )*
- `property( list of arguments ) = value` *Changes the property. The value can be a variable, a string, a number, a boolean value or a RGB value.*
- `method( list of arguments )` *Invokes the method. The "list or arguments" may include variables or values separated by commas.*
- `{` *Beginning the object's context. The properties or methods called between `{` and `}` are related to the last object returned by the property prior to `{` declaration.*
- `}` *Ending the object's context*
- `object.property( list of arguments ).property( list of arguments )....` *The `.` (dot) character splits the object from its property. For instance, the `Columns.Add("Column1").HeaderBackColor = RGB(255,0,0)`, adds a new column and changes the column's header back color.*

The x-script may uses constant expressions as follow:

- *boolean* expression with possible values as `True` or `False`
- *numeric* expression may starts with `0x` which indicates a hexa decimal representation, else it should starts with digit, or `+/-` followed by a digit, and `.` is the decimal separator. *Sample: `13` indicates the integer 13, or `12.45` indicates the double expression 12,45*
- *date* expression is delimited by `#` character in the format `#mm/dd/yyyy hh:mm:ss#`. *Sample: `#31/12/1971#` indicates the December 31, 1971*
- *string* expression is delimited by `"` or ``` characters. If using the ``` character, please

make sure that it is different than ' which allows adding comments inline. *Sample: "text" indicates the string text.*

Also , the template or x-script code may support general functions as follows:

- **Me** *property indicates the original object.*
- **RGB(R,G,B)** *property retrieves an RGB value, where the R, G, B are byte values that indicates the R G B values for the color being specified. For instance, the following code changes the control's background color to red: BackColor = RGB(255,0,0)*
- **LoadPicture(file)** *property loads a picture from a file or from BASE64 encoded strings, and returns a Picture object required by the picture properties.*
- **CreateObject(progID)** *property creates and retrieves a single uninitialized object of the class associated with a specified program identifier.*

## method G2Host.TemplatePut (newVal as Variant)

Defines inside variables for the next Template/ExecuteTemplate call.

Type	Description
newVal as Variant	A string expression that indicates the Dim declaration, or any Object expression to be assigned to previously declared variables.

The [TemplateDef](#) property / TemplatePut method has been added to allow programming languages such as dBASE Plus to set control's properties with multiple parameters. It is known that programming languages such as **dBASE Plus** or **XBasic from AlphaFive**, does not support setting a property with multiple parameters. In other words, these programming languages does not support something like *Property(Parameters) = Value*, so our controls provide an alternative using the TemplateDef method. The first call of the TemplateDef should be a declaration such as "Dim a,b" which means the next 2 calls of the TemplateDef defines the variables a and b. The next call should be [Template](#) or [ExecuteTemplate](#) property which can use the variable a and b being defined previously.

So, calling the TemplateDef property should be as follows:

```
with (Control)
  TemplateDef = [Dim var_Column]
  TemplateDef = var_Column
  Template = [var_Column.Def(4) = 255]
endwith
```

This sample allocates a variable var\_Column, assigns the value to the variable ( the second call of the TemplateDef ), and the Template call uses the var\_Column variable ( as an object ), to call its Def property with the parameter 4.

Let's say we need to define the background color for a specified column, so we need to call the Def(exCellBackColor) property of the column, to define the color for all cells in the column.

The following **VB6** sample shows setting the Def property such as:

```
With Control
  .Columns.Add("Column 1").Def(exCellBackColor) = 255
  .Columns.Add "Column 2"
  .Items.AddItem 0
  .Items.AddItem 1
```

.Items.AddItem 2

End With

In **dBASE Plus**, calling the Def(4) has no effect, instead using the TemplateDef helps you to use properly the Def property as follows:

```
local Control,var_Column
```

```
Control = form.ActiveX1.nativeObject
```

```
// Control.Columns.Add("Column 1").Def(4) = 255
```

```
var_Column = Control.Columns.Add("Column 1")
```

```
with (Control)
```

```
    TemplateDef = [Dim var_Column]
```

```
    TemplateDef = var_Column
```

```
    Template = [var_Column.Def(4) = 255]
```

```
endwith
```

```
Control.Columns.Add("Column 2")
```

```
Control.Items.AddItem(0)
```

```
Control.Items.AddItem(1)
```

```
Control.Items.AddItem(2)
```

The equivalent sample for **XBasic in A5**, is as follows:

```
Dim Control as P
```

```
Dim var_Column as P
```

```
Control = topparent:CONTROL_ACTIVEX1.activex
```

```
' Control.Columns.Add("Column 1").Def(4) = 255
```

```
var_Column = Control.Columns.Add("Column 1")
```

```
Control.TemplateDef = "Dim var_Column"
```

```
Control.TemplateDef = var_Column
```

```
Control.Template = "var_Column.Def(4) = 255"
```

```
Control.Columns.Add("Column 2")
```

```
Control.Items.AddItem(0)
```

```
Control.Items.AddItem(1)
```

```
Control.Items.AddItem(2)
```

The samples just call the `Column.Def(4) = Value`, using the `TemplateDef`. The first call of `TemplateDef` property is "Dim var\_Column", which indicates that the next call of the `TemplateDef` will defines the value of the variable `var_Column`, in other words, it defines the object `var_Column`. The last call of the `Template` property uses the `var_Column` member to use the x-script and so to set the `Def` property so a new color is being assigned to the column.

The `TemplateDef`, [Template](#) and [ExecuteTemplate](#) support x-script language ( `Template` script of the `Exontrols` ), like explained below:

The `Template` or x-script is composed by lines of instructions. Instructions are separated by "\n\r" ( newline characters ) or ";" character. The ; character may be available only for newer versions of the components.

An x-script instruction/line can be one of the following:

- **Dim** list of variables *Declares the variables. Multiple variables are separated by commas. ( Sample: Dim h, h1, h2 )*
- `variable = property( list of arguments )` *Assigns the result of the property to a variable. The "variable" is the name of a declared variable. The "property" is the property name of the object in the context. The "list or arguments" may include variables or values separated by commas. ( Sample: h = InsertItem(0,"New Child") )*
- `property( list of arguments ) = value` *Changes the property. The value can be a variable, a string, a number, a boolean value or a RGB value.*
- `method( list of arguments )` *Invokes the method. The "list or arguments" may include variables or values separated by commas.*
- { *Beginning the object's context. The properties or methods called between { and } are related to the last object returned by the property prior to { declaration.*
- } *Ending the object's context*
- `object.property( list of arguments ).property( list of arguments )....` *The .(dot) character splits the object from its property. For instance, the `Columns.Add("Column1").HeaderBackColor = RGB(255,0,0)`, adds a new column and changes the column's header back color.*

The x-script may uses constant expressions as follow:

- *boolean* expression with possible values as *True* or *False*
- *numeric* expression may starts with 0x which indicates a hexa decimal representation, else it should starts with digit, or +/- followed by a digit, and . is the decimal separator. *Sample: 13 indicates the integer 13, or 12.45 indicates the double expression 12,45*
- *date* expression is delimited by # character in the format #mm/dd/yyyy hh:mm:ss#. *Sample: #31/12/1971# indicates the December 31, 1971*
- *string* expression is delimited by " or ` characters. If using the ` character, please

make sure that it is different than ' which allows adding comments inline. *Sample: "text" indicates the string text.*

Also , the template or x-script code may support general functions as follows:

- **Me** *property indicates the original object.*
- **RGB(R,G,B)** *property retrieves an RGB value, where the R, G, B are byte values that indicates the R G B values for the color being specified. For instance, the following code changes the control's background color to red: BackColor = RGB(255,0,0)*
- **LoadPicture(file)** *property loads a picture from a file or from BASE64 encoded strings, and returns a Picture object required by the picture properties.*
- **CreateObject(progID)** *property creates and retrieves a single uninitialized object of the class associated with a specified program identifier.*

## property G2Host.Version as String

Retrieves the control's version.

Type	Description
String	A String expression that determines the version of the running control, including the version of the host. For instance, "10.0.0.1.100000.DEBUG/15.0.0.1.150000.DEMO"

The Version property specifies the control's version. The Version property of the [Host](#) object defines the version of the inside host.



## HostContext object

The HostContext object holds information about item, column, task, links, ... from the current cursor position. The [HostContext](#) property gets the host's context at the current cursor position. The HostContext property supports the following properties and methods:

Name	Description
<a href="#">Bar</a>	Returns the key of the bar from the current cursor location.
<a href="#">Column</a>	Returns the index of the column from the current cursor location.
<a href="#">Date</a>	Specifies the date-time from the current cursor location.
<a href="#">EmptySpace</a>	Returns the number of rows, between current cursor position and the the last fully-visible item of the control.
<a href="#">HitTest</a>	Determines the host' objects that can be accessed at current cursor location
<a href="#">Item</a>	Returns the handle of the item from the current cursor location.
<a href="#">Link</a>	Returns the key of the link from the current cursor location.
<a href="#">ToString</a>	Gets a string representation of the object.

## property HostContext.Bar as Variant

Returns the key of the bar from the current cursor location.

Type	Description
Variant	A Variant expression that specifies the key/identifier of the task from the current cursor location.

The Bar property returns a valid value, while the [HitTest](#) property includes the exHTValidBar. As each task is assigned to an item, if the exHTValidItem is automatically set on the [HitTest](#) property, if the exHTValidBar is present. The [ItemBar](#) property of the Items object, specifies a property of the task, like colors, start and end margins, and so on. The [Item](#) property returns the handle of the item from the current cursor location. The exHTValidBar may occur while the cursor hovers the chart/tasks section of the control.

The following sample changes the color of the task's frame, when the user right clicks the control:

```
Private Sub G2Host1_Context()  
    With G2Host1  
        If (.HostContext.HitTest And exHTValidBar) Then  
            .Host.Items.ItemBar(.HostContext.Item, .HostContext.Bar,  
EXG2ANTTLibCtl.ItemBarPropertyEnum.exBarFrameColor) = RGB(255, 0, 0)  
        End If  
    End With  
End Sub
```

## property HostContext.Column as Long

Returns the index of the column from the current cursor location.

Type	Description
Long	A Long expression that specifies the index of the column from the current cursor location.

The Column property returns a valid value, while the [HitTest](#) property includes the `exHTValidColumn`. The Column property returns the index of the column from the current cursor location. For instance, the [CellBold](#) property of the Items object bolds or un-bolds the cell giving its handle and the index of the column. The Column value can be used on any property of the Items object that has a `ColIndex` parameter.

The following sample toggles the cell's bold attribute when the user right clicks the control:

```
Private Sub G2Host1_Context()  
    With G2Host1  
        If (.HostContext.HitTest And exHTValidItem) Then  
            If (.HostContext.HitTest And exHTValidColumn) Then  
                .Host.Items.CellBold(.HostContext.Item, .HostContext.Column) = Not  
.Host.Items.CellBold(.HostContext.Item, .HostContext.Column)  
            End If  
        End If  
    End With  
End Sub
```

## property HostContext.Date as Date

Specifies the date-time from the current cursor location.

Type	Description
Date	A Date expression that determines the date-time from the current cursor location.

The Date property returns a valid value, while the [HitTest](#) property includes the exHTValidDate. The exHTValidDate may occur while the cursor hovers the chart/tasks section of the control.

The following sample displays a message box with the date being clicked, once the user right-clicks the control:

```
Private Sub G2Host1_Context()  
    With G2Host1  
        If (.HostContext.HitTest And exHTValidDate) Then  
            MsgBox .HostContext.Date  
        End If  
    End With  
End Sub
```

The message box occurs only if clicking the chart section of the control.

## property HostContext.EmptySpace as Long

Returns the number of rows, between current cursor position and the the last fully-visible item of the control.

Type	Description
Long	A Long expression that defines the number of rows, between current cursor position and the the last fully-visible item of the control.

The EmptySpace property returns a valid value, while the [HitTest](#) property includes the exHTEmptySpace. The EmptySpace property returns the number of rows, between current cursor position and the the last fully-visible item of the control..

## property HostContext.HitTest as ContextHitTestInfoEnum

Determines the host' objects that can be accessed at current cursor location

Type	Description
<a href="#">ContextHitTestInfoEnum</a>	A <a href="#">ContextHitTestInfoEnum</a> expression that specifies the valid properties that can be accessed at current cursor location.

The HitTest property determines the host' objects that can be accessed at current cursor location. For instance, if the HitTest property includes the exHTValidColumn flag, it indicates that the cursor hovers a column, and the [Column](#) property gives the index of the column from the cursor. The [Context](#) event notifies your application once the user right clicks the control. The [HostContext](#) property can be used on any event.

The following sample changes the color of the task's frame, when the user right clicks the control:

```
Private Sub G2Host1_Context()  
    With G2Host1  
        If (.HostContext.HitTest And exHTValidBar) Then  
            .Host.Items.ItemBar(.HostContext.Item, .HostContext.Bar,  
EXG2ANTTLibCtl.ItemBarPropertyEnum.exBarFrameColor) = RGB(255, 0, 0)  
        End If  
    End With  
End Sub
```

## property HostContext.Item as Long

Returns the handle of the item from the current cursor location.

Type	Description
Long	A Long expression that specifies the handle of the item from the current cursor location.

The Item property returns a valid value, while the [HitTest](#) property includes the exHTValidItem. The Item property returns the handle of the item from the current cursor location. For instance, the [ItemBold](#) property of the Items object bolds or un-bolds the item giving its handle. The Item value can be used on any property of the Items object that has a Item parameter.

The following sample toggles the item's bold attribute when the user right clicks the control:

```
Private Sub G2Host1_Context()  
    With G2Host1  
        If (.HostContext.HitTest And exHTValidItem) Then  
            .Host.Items.ItemBold(.HostContext.Item) = Not  
.Host.Items.ItemBold(.HostContext.Item)  
        End If  
    End With  
End Sub
```

## property HostContext.Link as Variant

Returns the key of the link from the current cursor location.

Type	Description
Variant	A Variant expression that specifies the key / identifier of the link from current cursor location.

The Link property returns a valid value, while the [HitTest](#) property includes the exHTValidLink. The exHTValidLink may occur while the cursor hovers the chart/tasks section of the control. The [Link](#) property of the Items object defines properties of the link based on its identifier / key.

The following sample displays a message box with the key of the link being clicked, once the user right-clicks the control:

```
Private Sub G2Host1_Context()  
    With G2Host1  
        If (.HostContext.HitTest And exHTValidLink) Then  
            MsgBox .HostContext.Link  
        End If  
    End With  
End Sub
```



## property HostContext.ToString as String

Gets a string representation of the object.

Type	Description
String	Gets a string representation of the object such as: exHTItemsArea,exHTEmptySpace,exHTValidColumn

The ToString property Gets a string representation of the object. The [HitTest](#) property determines the host' objects that can be accessed at current cursor location. For instance, if the [HitTest](#) property includes the exHTValidColumn flag, it indicates that the cursor hovers a column, and the [Column](#) property gives the index of the column from the cursor. The [Context](#) event notifies your application once the user right clicks the control.

The following sample displays brief information about the object from the current cursor position:

```
' HostEvent event - Notifies the application once the host fires an event.
Private Sub G2Host1_HostEvent(ByVal EventID As EXG2HOSTLibCtl.HostEventEnum)
    With G2Host1
        Debug.Print( .HostContext.ToString )
    End With
End Sub

With G2Host1
    .DataSource("Items") = "C:\Program Files\Exontrol\ExG2Host\Sample\sample.accdb"
    .DataMember("Items") = "Employees"
    .DataField(exItemsDataSource) = "Items"
    .HostReadOnly = HostReadOnlyEnum.exHostAllowUpdate Or
HostReadOnlyEnum.exHostAllowAddNew
End With
```

## ExG2Host events

The ExG2Host component supports the following events:

Name	Description
<a href="#">Context</a>	Indicates the the user right-clicks the host on an object.
<a href="#">Error</a>	Fired when an internal error occurs.
<a href="#">HostEvent</a>	Notifies the application once the host fires an event.

## event Context ()

Indicates the the user right-clicks the host on an object.

Type	Description
------	-------------

The Context event notifies your application once the user right clicks the control. The [HostContext](#) property returns information about the object from the current cursor position. The Context event occurs right after [HostEvent\(exHostRClick\)](#) event.

The following VB sample displays information about the current context, when user right clicks the control:

```
Private Sub G2Host1_Context()  
    With G2Host1  
        Debug.Print( .HostContext.ToString )  
    End With  
End Sub
```

Syntax for Context event, **/NET** version, on:

```
C# private void Context(object sender)  
{  
}
```

```
VB Private Sub Context(ByVal sender As System.Object) Handles Context  
End Sub
```

Syntax for Context event, **/COM** version, on:

```
C# private void Context(object sender, EventArgs e)  
{  
}
```

```
C++ void OnContext()  
{  
}
```

```
C++  
Builder void __fastcall Context(TObject *Sender)  
{  
}
```

```
Delphi procedure Context(ASender: TObject; );  
begin  
end;
```

```
Delphi 8 (.NET only) procedure Context(sender: System.Object; e: System.EventArgs);  
begin  
end;
```

```
PowerBuilder begin event Context()  
  
end event Context
```

```
VB.NET Private Sub Context(ByVal sender As System.Object, ByVal e As System.EventArgs)  
Handles Context  
End Sub
```

```
VB6 Private Sub Context()  
End Sub
```

```
VBA Private Sub Context()  
End Sub
```

```
VFP LPARAMETERS nop
```

```
Xbase... PROCEDURE OnContext(oG2Host)  
  
RETURN
```

Syntax for Context event, **ICOM** version (others), on:

```
Java... <SCRIPT EVENT="Context()" LANGUAGE="JScript">  
</SCRIPT>
```

```
VBSc... <SCRIPT LANGUAGE="VBScript">  
Function Context()  
End Function  
</SCRIPT>
```

Visual  
Data...

```
Procedure OnComContext  
    Forward Send OnComContext  
End_Procedure
```

Visual  
Objects

```
METHOD OCX_Context() CLASS MainDialog  
RETURN NIL
```

X++

```
void onEvent_Context()  
{  
}
```

XBasic

```
function Context as v ()  
end function
```

dBASE

```
function nativeObject_Context()  
return
```

## event Error (Error as Long, Description as String)

Fired when an internal error occurs.

Type	Description
Error as Long	A Long expression that specifies the code of the error. If 0, the error indicates a warning or an information.
Description as String	A String expression that defines the error.

The Error event notifies your application once an error occurs. For instance, if the user lets a required field un-filled, the control fires the Event "You must enter a value in the '...' field. [...]". For instance, If the [DataField\(exItemsID\)](#) property is set, the control highlights in red, the items with errors. The [HostDef\(exErrorBackColor\)](#) and [HostDef\(exErrorForeColor\)](#) specify the colors to highlight the item with errors. If an error occurs during saving, the change won't be updated to the data-source, until the error is corrected. The [HostDef\(exErrorClearOnChange\)](#) specifies whether the items with errors are highlighted or un-highlighted once a change occurs.

The following indicates warnings/information:

0 Use(ADODB.Recordset)[...]

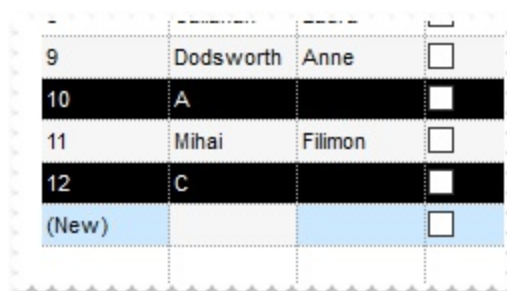
0 The DateField(exTasksDataSource) is empty or refers to a missing data source

The following indicates errors:

-2147217887 You must enter a value in the '...' field.[...]

-2147217887 Field '...' cannot be a zero-length string.[...]

The following screen shot shows items with errors ( white on black ) :



9	Dodsworth	Anne	<input type="checkbox"/>
10	A		<input type="checkbox"/>
11	Mihai	Filimon	<input type="checkbox"/>
12	C		<input type="checkbox"/>
(New)			<input type="checkbox"/>

The following screen shot shows items with errors ( red ) :

ID	Call name	Label	Checkbox
9	Dodsworth	Anne	<input type="checkbox"/>
13	A		<input type="checkbox"/>
14	Mihai	Filimon	<input type="checkbox"/>
15	C		<input type="checkbox"/>
(New)			<input type="checkbox"/>

Syntax for Error event, **/NET** version, on:

**C#**

```
private void Error(object sender,int Err,string Description)
{
}
```

**VB**

```
Private Sub Error(ByVal sender As System.Object,ByVal Err As Integer,ByVal
Description As String) Handles Error
End Sub
```

Syntax for Error event, **/COM** version, on:

**C#**

```
private void Error(object sender, AxEXG2HOSTLib._IG2HostEvents_ErrorEvent e)
{
}
```

**C++**

```
void OnError(long Error,LPCTSTR Description)
{
}
```

**C++  
Builder**

```
void __fastcall Error(TObject *Sender,long Error,BSTR Description)
{
}
```

**Delphi**

```
procedure Error(ASender: TObject; Error : Integer;Description : WideString);
begin
end;
```

**Delphi 8  
(.NET  
only)**

```
procedure Error(sender: System.Object; e:
AxEXG2HOSTLib._IG2HostEvents_ErrorEvent);
begin
end;
```

Powe... begin event Error(long Error,string Description)

end event Error

VB.NET Private Sub Error(ByVal sender As System.Object, ByVal e As AxEXG2HOSTLib.\_IG2HostEvents\_ErrorEvent) Handles Error  
End Sub

VB6 Private Sub Error(ByVal Error As Long,ByVal Description As String)  
End Sub

VBA Private Sub Error(ByVal Error As Long,ByVal Description As String)  
End Sub

VFP LPARAMETERS Error,Description

Xbas... PROCEDURE OnError(oG2Host,Error,Description)  
  
RETURN

Syntax for Error event, **ICOM** version (others), on:

Java... <SCRIPT EVENT="Error(Error,Description)" LANGUAGE="JScript">  
</SCRIPT>

VBSc... <SCRIPT LANGUAGE="VBScript">  
Function Error(Error,Description)  
End Function  
</SCRIPT>

Visual Data... Procedure OnComError Integer IError String IIDescription  
Forward Send OnComError IError IIDescription  
End\_Procedure

Visual Objects METHOD OCX\_Error(Error,Description) CLASS MainDialog  
RETURN NIL



X++

```
void onEvent_Error(int _Error,str _Description)
{
}
```

XBasic

```
function Error as v (Error as N,Description as C)
end function
```

dBASE

```
function nativeObject_Error(Error,Description)
return
```

## event HostEvent (EventID as HostEventEnum)

Notifies the application once the host fires an event.

Type	Description
	A Long expression that defines the identifier of the event that occurs.
	The EventID parameter can be:
EventID as <a href="#">HostEventEnum</a>	<ul style="list-style-type: none"><li>• positive, to indicate that the control did not handle yet the event (before)</li><li>• negative, to indicate that the control handled the event (after)</li></ul>

The HostEvent(**EventID**) event occurs once the host-control (exg2antt) fires an event and before the control itself to handle the event. The HostEvent(**-EventID**) event (negative event) occurs once the host-control (exg2antt) fires an event and after the control itself handles the event (starting from version 19.0). Each event has different number of parameters, which is indicated by the [HostEventParam](#)(-1) property. Each parameter of the event can be accessed through the [HostEventParam](#) property. The [HostEventParam](#)(-2) gives a general information of the event.

The HostEvent event occurs once the host-control (exg2antt) fires an event. The HostEvent(**EventID**) event (positive-event) is fired before the control itself to handle the event, while HostEvent(**-EventID**) event (negative-event) is fired after the control itself handles the event. For instance, HostEvent(**exHostCreateBar**) event notifies your application that a new bar is about to be created by drag and drop (the bar is not yet created), while HostEvent(**-exHostCreateBar**) event occurs once the control created the newly bar. During the HostEvent(-exHostCreateBar) event you can access the newly created bar using the HostEventParam(0) that returns the handle of the item that hosts the item-bar, and [HostDef\(exNewTaskID\)](#) gets the key of the newly created bar.

The following VB sample displays information about the host's events:

```
Private Sub G2Host1_HostEvent(ByVal EventID As EXG2HOSTLibCtl.HostEventEnum)
    Debug.Print G2Host1.HostEventParam(-2)
End Sub
```

The following VB sample changes the color for the newly created bar:

```
Private Sub G2Host1_HostEvent(ByVal EventID As EXG2HOSTLibCtl.HostEventEnum)
```

```

If (EventID = -exHostCreateBar) Then
    G2Host1.Host.Items.ItemBar(G2Host1.HostEventParam(0),
G2Host1.HostDef(exNewTaskID), 33) = RGB(255, 0, 0)
End If
End Sub

```

The following VB sample displays a message box, before pressing the Delete key, and cancel the operation if user selects No or Cancel:

```

Private Sub G2Host1_HostEvent(ByVal EventID As EXG2HOSTLibCtl.HostEventEnum)
    If (EventID = exHostKeyDown) Then
        If (vbKeyDelete = CInt(G2Host1.HostEventParam(0))) Then
            If Not (MsgBox("Do you want to delete?", vbYesNoCancel) = vbYes) Then
                G2Host1.HostEventParam(0) = 0
            End If
        End If
    End If
End Sub

```

You can disable completely deletion by removing the exHostAllowDelete flag from the [HostReadOnly](#) property.

Syntax for HostEvent event, **/NET** version, on:

```

C# private void HostEvent(object sender,exontrol.EXG2HOSTLib.HostEventEnum
EventID)
{
}

```

```

VB Private Sub HostEvent(ByVal sender As System.Object,ByVal EventID As
exontrol.EXG2HOSTLib.HostEventEnum) Handles HostEvent
End Sub

```

Syntax for HostEvent event, **/COM** version, on:

```

C# private void HostEvent(object sender,
AxEXG2HOSTLib._IG2HostEvents_HostEventEvent e)
{
}

```

```
C++ void OnHostEvent(long EventID)
{
}
```

```
C++ Builder void __fastcall HostEvent(TObject *Sender,Exg2hostlib_tlb::HostEventEnum
EventID)
{
}
```

```
Delphi procedure HostEvent(ASender: TObject; EventID : HostEventEnum);
begin
end;
```

```
Delphi 8 (.NET only) procedure HostEvent(sender: System.Object; e:
AxEXG2HOSTLib._IG2HostEvents_HostEventEvent);
begin
end;
```

```
Powe... begin event HostEvent(long EventID)
end event HostEvent
```

```
VB.NET Private Sub HostEvent(ByVal sender As System.Object, ByVal e As
AxEXG2HOSTLib._IG2HostEvents_HostEventEvent) Handles HostEvent
End Sub
```

```
VB6 Private Sub HostEvent(ByVal EventID As EXG2HOSTLibCtl.HostEventEnum)
End Sub
```

```
VBA Private Sub HostEvent(ByVal EventID As Long)
End Sub
```

```
VFP LPARAMETERS EventID
```

```
Xbas... PROCEDURE OnHostEvent(oG2Host,EventID)
RETURN
```

Syntax for HostEvent event, **ICOM** version (others), on:

```
Java... <SCRIPT EVENT="HostEvent(EventID)" LANGUAGE="JScript">  
</SCRIPT>
```

```
VBS... <SCRIPT LANGUAGE="VBScript">  
Function HostEvent(EventID)  
End Function  
</SCRIPT>
```

```
Visual  
Data... Procedure OnComHostEvent OLEHostEventEnum IEventID  
Forward Send OnComHostEvent IEventID  
End_Procedure
```

```
Visual  
Objects METHOD OCX_HostEvent(EventID) CLASS MainDialog  
RETURN NIL
```

```
X++ void onEvent_HostEvent(int _EventID)  
{  
}
```

```
XBasic function HostEvent as v (EventID as OLE::Exontrol.G2Host.1::HostEventEnum)  
end function
```

```
dBASE function nativeObject_HostEvent(EventID)  
return
```