

# Form



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## Supported Clients

SmartClient WebClient NGClient MobileClient

## Property Summary

String	borderType	The type, color and style of border.
String	comment	
String	dataSource	The names of the database server and table that this form is linked to.
String	defaultPageFormat	The default page format for the form.
String	deprecated	Gets the deprecate info for this element
Object	designTimeProperties	Property to get and add design-time properties for a component.
Number	encapsulation	The encapsulation mode of this persist.
Number	extendsForm	The selected parent (extended element) for the element (form).
Boolean	formComponent	
String	initialSort	The default sort order only when the form loads.
String	name	The name of the form.
String	namedFoundSet	Property that tells the form to use a named foundset instead of the default foundset.
Number	navigator	The navigator (previously named "controller") that is used to control/navigate to the form.
Number	paperPrintScale	The percentage value the printed page is enlarged or reduced to; the size of the printed form is inversely proportional.
String	rowBGColorCalculation	The calculation dataprovider used to add background color and highlight selected or alternate rows.
Number	scrollbars	Scrollbar options for the vertical and horizontal scrollbars.
Number	selectionMode	Returns the value of the selectionMode property.
Boolean	showInMenu	When set, the form is displayed under the Window menu.
String	styleClass	The Cascading Style Sheet (CSS) class name applied to the form.
String	styleName	The name of the Servoy style that is being used on the form.
String	titleText	The text that displays in the title bar of the form window.
Boolean	transparent	When set, the form is transparent.
Number	view	The default form view mode.
Number	width	The width of the form in pixels.

## Command Summary

void	onDeleteAllRecords	The method that overrides the Servoy menu item Select > Delete All.
void	onDeleteRecord	The method that overrides the Servoy menu item Select > Delete Record (or keyboard shortcut).
void	onDuplicateRecord	The method that overrides the Servoy menu item Select > Duplicate Record (or keyboard shortcut).
void	onFind	The method that overrides the Servoy menu item Select > Find (or keyboard shortcut) in Data (ready) mode.
void	onInvertRecords	The method that overrides the Servoy menu item Select > Invert Records.
void	onNewRecord	The method that overrides the Servoy menu item Select > New Record (or keyboard shortcut).
void	onNextRecord	The method that overrides the Servoy menu item Select > Next Record.
void	onOmitRecord	The method that overrides the Servoy menu item Select > Omit Record.
void	onPreviousRecord	The method that overrides the Servoy menu item Select > Previous Record.
void	onPrintPreview	The method that overrides the Servoy menu item File > Print Preview.
void	onSearch	The method that overrides the Servoy menu item Select > Search (or keyboard shortcut) in Find mode.
void	onShowAllRecords	The method that overrides the Servoy menu item Select > Show All (or keyboard shortcut).
void	onShowOmittedRecords	The method that overrides the Servoy menu item Select > Show Omitted Records.
void	onSort	The method that overrides the Servoy menu item Select > Sort.

## Event Summary

Boolean	onBeforeHide(event)	This method is triggered when the form wants to hide; this will be called before onHide, and should be used to return if this form can be hidden or not.
Number	onDrag(event)	The method that is triggered when (non Design Mode) dragging occurs.
void	onDragEnd(event)	The method that is triggered when (non Design Mode) dragging end occurs.
Boolean	onDragOver(event)	The method that is triggered when (non Design Mode) dragging over a component occurs.
Boolean	onDrop(event)	The method that is triggered when (non Design Mode) dropping occurs.
Boolean	onElementDataChange(oldValue, newValue, event)	Method that is executed when the data in one of the form's component is successfully changed and the onDataChange callback from the component does not exist or exists and returned true

Boolean	<a href="#">onElementFocusGained(event)</a>	The method that is triggered when focus is gained by a component inside the form.
Boolean	<a href="#">onElementFocusLost(event)</a>	The method that gets triggered when focus is lost by a component inside the form.
void	<a href="#">onHide(event)</a>	This method is triggered when the form gets hidden.
void	<a href="#">onLoad(event)</a>	The method that is triggered when a form is loaded/reloaded from the repository; used to alter elements, set globals, hide toolbars, etc; onShow method can also be assigned.
Boolean	<a href="#">onRecordEditStart(event)</a>	The method that is triggered when a user clicks into a column on the form.
Boolean	<a href="#">onRecordEditStop(record, event)</a>	The method that is triggered when a record is being saved.
void	<a href="#">onRecordSelection(event)</a>	The method that is triggered each time a record is selected.
void	<a href="#">onRender(event)</a>	The method that is executed when the component is rendered.
void	<a href="#">onResize(event)</a>	The method that gets triggered when resize occurs.
void	<a href="#">onShow(firstShow, event)</a>	The method that is triggered EVERY TIME the form is displayed; an argument must be passed to the method if this is the first time the form is displayed.
void	<a href="#">onUnLoad(event)</a>	The method that is triggered when a form is unloaded from the repository.

Property Details

borderType

The type, color and style of border.  
This property is automatically set to "DEFAULT" when a new form is created.

Returns

[String](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

comment

Returns

[String](#)

Supported Clients

SmartClient,WebClient,NGClient

Sample

dataSource

The names of the database server and table that this form is linked to.

Returns

[String](#)

Supported Clients

SmartClient,WebClient,NGClient,MobileClient

Sample

defaultPageFormat

The default page format for the form.

Returns

[String](#)

Supported Clients

SmartClient,WebClient

Sample

deprecated

Gets the deprecate info for this element

Returns

[String](#) the deprecate info for this element or null if it is not deprecated

Supported Clients

SmartClient,WebClient,NGClient,MobileClient

**Sample****designTimeProperties**

Property to get and add design-time properties for a component.

**Returns**

[Object](#) map of the design-time properties

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****encapsulation**

The encapsulation mode of this persist. The following can be used/checked:

- Public (not a separate option - if none of the below options are selected)
- Hide in scripting; Module Scope - not available in scripting from any other context except the form itself. Available in designer for the same module.
- Module Scope - available in both scripting and designer but only in the same module.
- Hide Dataproviders (checked by default)
- Hide Foundset (checked by default)
- Hide Controller (checked by default)
- Hide Elements (checked by default)

**Returns**

[Number](#) the encapsulation mode/level of the persist.

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample****extendsForm**

The selected parent (extended element) for the element (form).

**Returns**

[Number](#) the parent

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****formComponent****Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****initialSort**

The default sort order only when the form loads.

This is applied each time an internal SQL query is being executed (find, find-all, open form); and is only executed when no other manual sort has been performed on the foundset.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

**name**

The name of the form.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample****namedFoundSet**

Property that tells the form to use a named foundset instead of the default foundset.

When "separate" as special value is specified the form will always create a copy of assigned foundset and therefor become separated from other foundsets.

When "empty" it will initially load an empty foundset.

When a global relation name it will load the a related foundset.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****navigator**

The navigator (previously named "controller") that is used to control/navigate to the form. The navigator is shown at the left or at the right side of the form, depending on the page orientation.

The following options are available:

-none- - no navigator is assigned.

DEFAULT - the Servoy default navigator is assigned.

IGNORE - the navigator last assigned to a previous form.

Custom - a custom navigator based on a selected form.

**Returns**

[Number](#)

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample****paperPrintScale**

The percentage value the printed page is enlarged or reduced to; the size of the printed form is inversely proportional. For example, if the paperPrintScale is 50, the printed form will be enlarged 200%.

**Returns**

[Number](#)

**Supported Clients**

SmartClient,WebClient

**Sample****rowBGColorCalculation**

The calculation dataprovider used to add background color and highlight selected or alternate rows. The default is -none-.

NOTE: This property has been deprecated and is kept visible for legacy purposes. Use CSS Row Styling & onRender event instead.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient

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**Sample****scrollbars**

Scrollbar options for the vertical and horizontal scrollbars. Each of the vertical and horizontal scrollbars can be configured to display all the time, to display only when needed or to never display.

**Returns**

[Number](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****selectionMode**

Returns the value of the selectionMode property.

**Returns**

[Number](#) one of IForm#SELECTION\_MODE\_DEFAULT, IForm#SELECTION\_MODE\_SINGLE and IForm#SELECTION\_MODE\_MULTI.

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****showInMenu**

When set, the form is displayed under the Window menu.

If it is not set, the form will be 'hidden'.

NOTE: This is only applicable for Servoy Client. Servoy Developer always shows all forms so that developers have access to all forms within a solution during development.

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient

**Sample****styleClass**

The Cascading Style Sheet (CSS) class name applied to the form.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****styleName**

The name of the Servoy style that is being used on the form.

**Returns**

[String](#)

**Supported Clients**

SmartClient,WebClient

**Sample****titleText**

The text that displays in the title bar of the form window.

NOTE: Data tags and Servoy tags can be used as part of the title text.

**Returns**[String](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****transparent**

When set, the form is transparent.

**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****view**

The default form view mode.

The view can be changed using a method at runtime. The following views are available:

- Record view
- List view
- Record view (locked)
- List view (locked)
- Table View (locked)

NOTE: Only Table View (locked) uses asynchronized related data loading.  
 This feature defers all related foundset data loading to the background - enhancing the visual display of a related foundset.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****width**

The width of the form in pixels.

**Returns**[Number](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****Command Details****onDeleteAllRecords**

The method that overrides the Servoy menu item Select > Delete All.  
 This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample****onDeleteRecord**

The method that overrides the Servoy menu item Select > Delete Record (or keyboard shortcut).  
 This property is automatically set to "DEFAULT" (no override) when the form is created.

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**Supported Clients**

SmartClient

**Sample****onDuplicateRecord**

The method that overrides the Servoy menu item Select > Duplicate Record (or keyboard shortcut).  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample****onFind**

The method that overrides the Servoy menu item Select > Find (or keyboard shortcut) in Data (ready) mode.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample****onInvertRecords**

The method that overrides the Servoy menu item Select > Invert Records.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample****onNewRecord**

The method that overrides the Servoy menu item Select > New Record (or keyboard shortcut).  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample****onNextRecord**

The method that overrides the Servoy menu item Select > Next Record.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample****onOmitRecord**

The method that overrides the Servoy menu item Select > Omit Record.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample****onPreviousRecord**

The method that overrides the Servoy menu item Select > Previous Record.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample**

**onPrintPreview**

The method that overrides the Servoy menu item File > Print Preview.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient,WebClient

**Sample**

**onSearch**

The method that overrides the Servoy menu item Select > Search (or keyboard shortcut) in Find mode.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample**

**onShowAllRecords**

The method that overrides the Servoy menu item Select > Show All (or keyboard shortcut).  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample**

**onShowOmittedRecords**

The method that overrides the Servoy menu item Select > Show Omitted Records.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient

**Sample**

**onSort**

The method that overrides the Servoy menu item Select > Sort.  
This property is automatically set to "DEFAULT" (no override) when the form is created.

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample**

**Event Details**

**onBeforeHide(event)**



This method is triggered when the form wants to hide; this will be called before onHide, and should be used to return if this form can be hidden or not. Before the form is really going to hide, this form and all the forms that this form is also showing in its ui hierarchy must allow the hide (return true in onBeforeHide - if present). For example, when using onBeforeHide with showFormInDialog, the form will not close by clicking the dialog close box (X) if the main form in the dialog or any of the other visible forms in tabpanels/containers are nested in the main are returning false.

If the hide operation is allowed for all the forms that are in the affected visible hierarchy, then the onHide handler/method will get called on them as well afterwards.

So this handler (on each form) can be used to validate input in the main form and/or any nested visible forms - that are getting ready to hide.

#### Parameters

[JSEvent](#) event the event that triggered the action

#### Returns

[Boolean](#)

#### Supported Clients

NGClient

#### Sample

### onDrag(event)

The method that is triggered when (non Design Mode) dragging occurs.

#### Parameters

[JSDNDEvent](#) event the event that triggered the action

#### Returns

[Number](#)

#### Supported Clients

SmartClient,WebClient

#### Sample

### onDragEnd(event)

The method that is triggered when (non Design Mode) dragging end occurs.

#### Parameters

[JSDNDEvent](#) event the event that triggered the action

#### Supported Clients

SmartClient,WebClient

#### Sample

### onDragOver(event)

The method that is triggered when (non Design Mode) dragging over a component occurs.

#### Parameters

[JSDNDEvent](#) event the event that triggered the action

#### Returns

[Boolean](#)

#### Supported Clients

SmartClient,WebClient

#### Sample

### onDrop(event)

The method that is triggered when (non Design Mode) dropping occurs.

#### Parameters

[JSDNDEvent](#) event the event that triggered the action

**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient

**Sample****onElementDataChange(oldValue, newValue, event)**

Method that is executed when the data in one of the form's component is successfully changed and the onDataChange callback from the component does not exist or exists and returned true

**Parameters**[Object](#) oldValue old value[Object](#) newValue new value[JSEvent](#) event the event that triggered the action**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onElementFocusGained(event)**

The method that is triggered when focus is gained by a component inside the form.

**Parameters**[JSEvent](#) event the event that triggered the action**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onElementFocusLost(event)**

The method that gets triggered when focus is lost by a component inside the form.

**Parameters**[JSEvent](#) event the event that triggered the action**Returns**[Boolean](#)**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onHide(event)**

This method is triggered when the form gets hidden.

Return value is DEPRECATED: false return value should no longer be used. In the past, if the onHide method returned false, the form hide could be prevented from happening in some cases (for example, when using onHide with showFormInDialog, the form will not close by clicking the dialog close box (X)). But that lead to unexpected situations when the form being hidden had visible nested children it it (tab panels, splits etc.) because only the current form would decide if hide could be denied, and all other forms, even if they returned false in their on-hide, would not be able to block the hide if this form allowed it. So those nested forms might think that they are still visible even though they are not.

Please use the new onBeforeHide method/handler instead if you want to prevent forms from hiding.

**Parameters**

[JSEvent](#) event the event that triggered the action

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample****onLoad(event)**

The method that is triggered when a form is loaded/reloaded from the repository; used to alter elements, set globals, hide toolbars, etc; onShow method can also be assigned.

NOTE: onShow should be used to access current foundset dataproviders; onLoad cannot be used because the foundset data is not loaded until after the form is loaded.

Also calls to loadRecords() should be done in the onShow method and not in the onLoad method

If you call loadRecords() in the onShow method, you may want to set the namedFoundSet property of the form to 'empty' to prevent the first default form query.

NOTE: the onLoad event bubbles down, meaning that the onLoad is first fired on the parent then on a tab in a tabpanel (and in tab of that tab panels if you are 3 deep)

**Parameters**

[JSEvent](#) event the event that triggered the action

**Supported Clients**

SmartClient,WebClient,NGClient,MobileClient

**Sample****onRecordEditStart(event)**

The method that is triggered when a user clicks into a column on the form.

NOTE: There is a small "e" displayed in the lower left side of the Servoy Client screen in the status area at the bottom of the window when the record is being edited.

**Parameters**

[JSEvent](#) event the event that triggered the action

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onRecordEditStop(record, event)**

The method that is triggered when a record is being saved.

A record is saved when a user clicks out of it (for example on an empty part of the layout or to another form).

When the method returns false (for example as part of a validation), the user cannot leave the record, for example in

a table view a user cannot move to another record when the callback returns false.

**Parameters**

[JSRecord](#) record record being saved

[JSEvent](#) event the event that triggered the action

**Returns**

[Boolean](#)

**Supported Clients**

SmartClient,WebClient,NGClient

**Sample****onRecordSelection(event)**

The method that is triggered each time a record is selected.

If a form is in List view or Special table view - when the user clicks on it.

In Record view - after the user navigates to another record using the slider or clicks up or down for next /previous record.

NOTE: Data and Servoy tag values are returned when the onRecordSelection method is executed.

NOTE: this will also fire if the selection goes to -1 because the foundset is cleared. So foundset.

getSelectedRecord() can return null.

#### Parameters

[JSEvent](#) event the event that triggered the action

#### Supported Clients

SmartClient,WebClient,NGClient,MobileClient

#### Sample

### onRender(event)

The method that is executed when the component is rendered.

#### Parameters

[JSRenderEvent](#) event the render event

#### Supported Clients

SmartClient,WebClient

#### Sample

### onResize(event)

The method that gets triggered when resize occurs.

#### Parameters

[JSEvent](#) event the event that triggered the action

#### Supported Clients

SmartClient,WebClient,NGClient

#### Sample

### onShow(firstShow, event)

The method that is triggered EVERY TIME the form is displayed; an argument must be passed to the method if this is the first time the form is displayed.

NOTE: onShow can be used to access current foundset dataproviders; onLoad cannot be used because the foundset data is not loaded until after the form is loaded.

NOTE: the onShow event bubbles down, meaning that the onShow event of a form displayed in a tabPanel is fired after the onShow event of the parent.

#### Parameters

[Boolean](#) firstShow form is shown first time after load

[JSEvent](#) event the event that triggered the action

#### Supported Clients

SmartClient,WebClient,NGClient,MobileClient

#### Sample

### onUnLoad(event)

The method that is triggered when a form is unloaded from the repository.

NOTE: Forms can be prevented from being removed from memory by referencing the form object in a global variable or inside an array inside a global variable. Do take care using this technique.

Forms take up memory and if too many forms are in memory and cannot be unloaded, there is a possibility of running out of memory.

#### Parameters

[JSEvent](#) event the event that triggered the action

#### Supported Clients

SmartClient,WebClient,NGClient

Sample

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