

## Event Identifiers in Spread COM

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Audience Level: Intermediate

Product(s): Spread 7

Language(s): Visual C++

Description: While most users will find event IDs in the OCX part of the product easily with integrated tools, other developers lack the tools and would like to consult a list. This article lists the event IDs for Spread.

### Introduction

Here is a summary of the event identifiers (IDs) in Spread 7.0.

Event ID	Event Name	Event Description
1	Advance	Occurs when the user presses the Tab key or down arrow in the last cell, or Shift+Tab key or up arrow in the first cell.
2	BlockSelected	Occurs when the user completes the selection of a block of cells.
3	BtnClicked	Occurs when the user clicks a button cell or check box cell.
4	Change	Occurs when the user modifies the contents of a cell and then leaves the cell.
5	Click	Occurs when the user clicks a cell using the left mouse button.
6	ColWidthChange	Occurs when the user changes the column width using the mouse.
7	CustomFunction	Occurs when a custom function is evaluated in a cell's formula.
9	DataColConfig	Occurs for each column in the spreadsheet as the spreadsheet is bound to a database.
10	DataFill	Occurs for each cell in the fpSpread control before it receives data from the database and before it writes data back out, if the DataFillEvent property is set to True for the cell.
11	DblClick	Occurs when the user double-clicks the left mouse button while the pointer is in a cell.
12	DragDropBlock	Occurs when the user drags and drops a block of cells to a new location.
13	DrawItem	Occurs when the fpSpread control displays an owner-drawn cell.
14	EditError	Occurs when the user performs an invalid input operation.

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<b>Event ID</b>	<b>Event Name</b>	<b>Event Description</b>
15	EditMode	Occurs when the user enters or leaves edit mode in a cell.
16	EnterRow	Occurs when the operation mode is set to row mode and the focus moves to a new row.
17	LeaveCell	Occurs when the user moves the active cell from one cell to another, or moves the focus outside of the spreadsheet.
18	LeaveRow	Occurs when the operation mode is set to row mode and the focus moves to a new row.
19	PrintAbort	Occurs repeatedly when the spreadsheet is printing.
20	QueryAdvance	Occurs when the user moves the focus to the next or previous control on the form.
21	QueryData	Occurs when virtual mode is on and the fpSpread control requests additional data.
22	RightClick	Occurs when the user clicks a cell with the right mouse button.
23	RowHeightChange	Occurs when the user changes the height of a row.
24	SelChange	Occurs while the user is selecting a block of cells.
25	TopLeftChange	Occurs when the displayed left column or top row changes.
26	UserFormulaEntered	Occurs when the user types a formula.
27	VirtualClearData	Occurs when the spreadsheet is in virtual mode and data in the virtual buffer needs to be discarded.
28	PrintMsgBox	Occurs before the provided print abort dialog box is displayed and after the print job is complete.
29	ComboCloseUp	Occurs when the drop-down list portion of a combo box cell closes.
30	ComboDropDown	Occurs when the drop-down list portion of the combo box cell drops down.
31	ComboSelChange	Occurs when the user changes the selection in a combo box cell.
32	TextTipFetch	Occurs when the control displays a text tip.
33	EditChange	Occurs when a cell is in edit mode and text changes in it.
34	OLECompleDrag	Occurs at the OLE drag/drop source control after a manual or automatic drag/drop has been completed or canceled.
35	OLEDragDrop	Occurs when data is dropped onto the control via an OLE drag/drop operation, and OLEDropMode is set to manual.
36	OLEDragOver	Occurs when the mouse is moved over the control during an OLE drag/drop operation, if its OLEDropMode property is set to manual.
37	OLEGiveFeedback	Occurs at the source control of an OLE drag/drop operation when the mouse cursor needs to be changed.

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<b>Event ID</b>	<b>Event Name</b>	<b>Event Description</b>
38	OLESetData	Occurs at the OLE drag/drop source control when the drop target requests data that was not provided to the DataObject during the OLEDragStart event.
39	OLEStartDrag	Occurs when an OLE drag/drop operation is initiated either manually or automatically.
40	BeforeUserSort	Occurs before an AutoSort occurs when a sortable column header is clicked.
41	AfterUserSort	Occurs after an AutoSort occurs when a sortable column header is clicked.
45	OLECompleteDrag	Occurs at the OLE drag/drop source control after a manual or automatic drag/drop has been completed or canceled.
46	OLEDragDrop	Occurs when data is dropped onto the control via an OLE drag/drop operation, and OLEDropMode is set to manual.
47	OLEDragOver	Occurs when the mouse is moved over the control during an OLE drag/drop operation, if its OLEDropMode property is set to manual.
48	OLEGiveFeedback	Occurs at the source control of an OLE drag/drop operation when the mouse cursor needs to be changed.
49	OLESetData	Occurs at the OLE drag/drop source control when the drop target requests data that was not provided to the DataObject during the OLEDragStart event.
50	OLEStartDrag	Occurs when an OLE drag/drop operation is initiated either manually or automatically.
101	ScriptCustomFunction	Occurs when a custom function is evaluated in a cell's formula.
102	ScriptDataFill	Occurs for each cell in the fpSpread control before it receives data from the database and before it writes data, if the DataFillEvent property is set to True for the cell.
103	ScriptDragDropBlock	Occurs when the user drags and drops a block of cells to a new location.
104	ScriptLeaveCell	Occurs when the user moves the active cell from one cell to another, or moves the focus outside of the spreadsheet.
105	ScriptLeaveRow	Occurs when the operation mode is set to row mode and the focus moves to a new row.
106	ScriptPrintAbort	Occurs repeatedly when the spreadsheet is printing.
107	ScriptQueryAdvance	Occurs when the user moves the focus to the next or previous control on the form.
108	ScriptQueryData	Occurs when virtual mode is on and the fpSpread control requests additional data.
109	ScriptPrintMsgBox	Occurs before the provided print abort dialog box is displayed and after the print job is complete.

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<b>Event ID</b>	<b>Event Name</b>	<b>Event Description</b>
110	ScriptTextTipFetch	Occurs when the control displays a text tip.
111	ScriptOLECompleteDrag	Occurs at the OLE drag/drop source control after a manual or automatic drag/drop has been completed or canceled.
112	ScriptOLEDragDrop	Occurs when data is dropped onto the control via an OLE drag/drop operation, and OLEDropMode is set to manual.
113	ScriptOLEDragOver	Occurs when the mouse is moved over the control during an OLE drag/drop operation, if its OLEDropMode property is set to manual.
114	ScriptOLEGiveFeedback	Occurs at the source control of an OLE drag/drop operation when the mouse cursor needs to be changed
115	ScriptOLEStartDrag	Occurs when an OLE drag/drop operation is initiated either manually or automatically.
117	ScriptBeforeUserSort	Occurs before an AutoSort occurs when a sortable column header is clicked.
118	ScriptKeyDown	Occurs when the user presses a key down while the spread control has focus.
119	ScriptKeyPress	Occurs when the user presses and releases a key while the spread control has focus.
120	ScriptKeyUp	Occurs when the user releases a key while the spread control has focus.
121	SheetChanging	Occurs before the sheet changes when the user clicks a sheet tab.
122	SheetChanged	Occurs when the user changes sheets by clicking a sheet tab.
123	TabScrolling	Occurs before the user scrolls through sheet tabs in the tab strip.
124	TabScrolled	Occurs after the user scrolls through sheet tabs in the tab strip.
125	BeforeEditMode	Occurs before edit mode begins.
126	DataLoaded	Occurs after data in a bound control has been loaded.
127	BeforeScrollTip	Occurs before the scroll tip is displayed.
128	BeforeColMove	Occurs before the user moves a column.
129	BeforeRowMove	Occurs before the user moves a row.

<b>Event ID</b>	<b>Event Name</b>	<b>Event Description</b>
DISPID_KEYDOWN	KeyDown	Occurs when the user presses a key down while the spread control has focus.
DISPID_KEYPRESS	KeyPress	Occurs when the user presses and releases a key while the spread control has focus.
DISPID_KEYUP	KeyUp	Occurs when the user releases a key while the spread control has focus.
DISPID_MOUSEDOWN	MouseDown	Occurs when the user presses a mouse button down while the spread control has focus.
DISPID_MOUSEMOVE	MouseMove	Occurs while the mouse is moving over the spread control.
DISPID_MOUSEUP	MouseUp	Occurs when user releases mouse button over spread control.

## Simple Procedures

Microsoft Visual Studio 6.0 comes with an OLE View tool. You can use this tool to find detailed information (such as IDs) for any property, method, or event in any control. Assuming a default installation of Visual Studio, you will have a menu item to select "Microsoft Visual Studio 6.0 | Microsoft Visual Studio 6.0 Tools | OLE View" for running the tool.

If FarPoint Spread is already installed on your system then you can:

- Run the OLE View tool
- Expand "Object Classes" (if not already expanded)
- Expand "Grouped by Component Category" (if not already expanded)
- Expand "Control" (if not already expanded)
- Right click on FarPoint Spread entry
- Select "View Type Information" from popup menu

If FarPoint Spread is not installed on your system but you have access to the Spread OCX file (for example, spr32x70.ocx) then you can:

- Run the OLE View tool
- Select "File | View TypLib..." menu
- Open the Spread OCX file

In either case, an "ITypeLib Viewer" window will be displayed, from which you can:

- Expand "dispinterface \_DSpreadEvents"
- Expand "Methods"
- Select an event (for example, ADVANCE)
- See the detailed information (including ID) displayed

We hope that helps.