

## Basics

WinSight gives you debugging information about window classes, windows, and messages. Using WinSight, you can study how any application creates classes and windows and monitor how windows send and receive messages.

WinSight uses three views to study applications:

- [Window Tree view](#)
- [Class List view](#)
- [Message Trace view](#)

WinSight is a passive observer: it intercepts and displays information about messages but does not prevent messages from getting to applications.

To watch windows sending and receiving messages, you can use WinSight to do the following:

- [Find](#) the window(s) you want to watch
- [Trace](#) the messages that get sent

### **What you need to know to begin using WinSight**

Choose one of these topics for more information:

[Getting Started](#)

[Messages WinSight Tracks](#)

[WinSight Views](#)

## Tasks

Choose one of these topics for information about using WinSight:

[Tracing Messages](#)

[Using the Find Window Mode](#)

[Using the Keyboard with WinSight](#)

[Using the Messages Menu to Trace Messages](#)

[Using the Mouse with WinSight](#)

[Using the Spy Menu to Display Window Details](#)

[Using the Start! and Stop! Menu](#)

[Using the Tree Menu to Display the Window Tree View](#)

[Using the View Menu to Display WinSight Views](#)

## Getting Started

[See Also](#)

To start WinSight, double-click the WinSight icon.

The first time you start WinSight, it displays the Window Tree view.

When you exit, WinSight saves your configuration. If you open all three views and exit WinSight, the next time you start it, all three views will be displayed.



## Using the Mouse with WinSight

Here is a list of actions with mouse and menu equivalents.

<b>Action</b>	<b>With the mouse</b>	<b>With menus</b>
Select an item	Click	
Select multiple items	Ctrl+click	
Toggle highlighted item		Shift+click
Show details of item	Double-click	Spy  <u>Open Detail</u>
Expand one level	Click on <+>	Tree  <u>Expand One Level</u>
Expand branch	Right-click on <+>	Tree  <u>Expand Branch</u>
Collapse branch	Click on <->	Tree  <u>CollapseBranch</u>

You can also use the mouse to resize the WinSight window or the panes.

## Using the keyboard with WinSight

Here is a list of actions with keyboard and menu equivalents.

<b>Action</b>	<b>With the keyboard</b>	<b>With menus</b>
Select an item	Up or Down arrow	
Select multiple items	Ctrl+Shift Up or Down arrow	
Move selection bar	Ctrl+Up or Down arrow	
Toggle highlighted item		Spacebar
Expand one level	+	Tree Expand One Level ExpandOneLevel
Expand branch	*	Tree Expand Branch ExpandBranch
Expand tree completely		Ctrl+* Tree Expand All ExpandAll
Collapse branch	-	Tree  <u>Collapse Branch</u>

The right and left arrows scroll horizontally.

Use Tab or F6 to move the focus between panes. Use Shift+Tab or Shift+F6 to switch the focus in the opposite direction.



## Using WinSight

[See also](#)

WinSight gives you debugging information about window classes, windows, and messages. You can study how any application creates classes and windows, and monitor how windows send and receive messages.

WinSight uses three views to study applications:

- Window Tree view
- Class List view
- Message Trace view

WinSight is a passive observer: it intercepts and displays information about messages but does not prevent messages from getting to applications.

To watch Windows sending and receiving messages, you can use WinSight to

- Find the window(s) you want to watch
- Trace the messages that get sent.

**Note:** WinSight 16 (WINSIGHT.EXE) supports 16-bit Windows systems and WinSight 32 (WS32.EXE) supports 32-bit Windows systems.



## Find Window Mode

[See also](#)

Find Window mode allows you to monitor how specific windows send and receive messages. To enter Find Window mode choose Spy|[Find Window](#).

**Note:** All other applications are suspended while you are in Find Window mode.

### Selecting Windows

In Find Window mode, you can select windows in one of two ways:

- Move the mouse into the boundaries of a window object. A thick border appears around that window object, and the corresponding window name is highlighted in the [Window Tree view](#).
- Use the cursor keys to select windows from the Window Tree view. When you highlight a window name, WinSight puts a thick border around the corresponding window object.

To leave Find Window mode, click the mouse button, or press Escape. This removes the border from the screen but leaves the current window selected in the Window Tree view.

If you press Enter or double-click the highlighted window in the Window Tree view, you will see the [Detail window](#).

**Note:** In WinSight 32 (WS32.EXE), you must use the up and down arrow keys to highlight a window when you are in Find Window mode. Select a window in the Window Tree view, then use the arrow keys to move through the Window Tree. The windows you select in the Window Tree will be outlined as you move through the tree.

## Tracing Messages

[See also](#)

When you monitor how windows or classes send and receive messages, you are tracing the patterns of these messages.

By default WinSight traces all messages and displays them in the Message Trace view.

You can trace messages in one of three ways:

- Choose Messages|Selected Classes or Messages|Selected Windows, then shift-click to select the classes (in the Class List view) or windows (in the Window Tree view) you want to trace.
- Choose Messages|All Windows to select all the messages sent to windows.
- Choose Messages|Options, then select any or all of the ten groups of messages.

Choose Stop! or Messages|Trace Off to control when WinSight stops tracing messages. The Message Trace view remains visible.

To resume tracing, choose one of the following menu commands:

- Start!
- Messages|Selected Classes
- Messages|Selected Windows
- Messages|All Windows



## WinSight menu commands

Here is a list of the menus and menu commands in WinSight. The menus are listed in the order they appear.

### Spy Menu

Open Detail

Find Window

Follow Focus (WS32.EXE only)

Switch To (WS32.EXE only)

Exit

### View Menu

Class List

Window Tree

Message Trace

Split Horizontal

Split Vertical

### Tree Menu

Expand One Level

Expand Branch

Expand All

Collapse Branch

### Messages Menu

Trace Off

Selected Classes

Selected Windows

All Windows

Clear

Options...

Processes... (WS32.EXE only)

### Stop! and Start!

### Help Menu

Index

Finding Windows

Tracing Messages

Menu Commands

Keyboard

Mouse

Using Help

About WinSight



## Spy Menu

Use the Spy menu to display more details for a window, locate the window for which you want to trace messages, or exit WinSight.

The Spy menu commands are:

Open Detail

Find Window

Follow Focus (WS32.EXE only)

Switch To (WS32.EXE only)

Exit

## Spy | Open Detail

Choose Spy|Open Detail to display more detail about the selected class or window.

Use this command to open the Detail window. The information in the window depends on the current active view, indicated by the dotted rectangle.

## Spy | Find Window

Choose Spy|Find Window to locate the window for which you want to trace messages. Use this command to enter Find Window mode.

**Note:** In WinSight 32 (WS32.EXE), you must use the up and down arrow keys to highlight a window when you are in Find Window mode. Select a window in the Window Tree view, then use the arrow keys to move through the Window Tree. The windows you select in the Window Tree will be outlined as you move through the tree.



## Spy | Follow Focus

You use the Follow Focus command to easily select the window you want to monitor in the Window Tree view. Follow Focus is available only in WinSight 32 (WS32.EXE).

To use Follow Focus:

1. Choose Follow Focus from the Spy menu.
2. Click on the window you want to monitor; WinSight highlights that window in the Window Tree view.

When you click on a window, that window gains focus. If the window you click on covers the WinSight display, click on the title bar of WinSight to view the Window Tree view.

Follow Focus stays active until you toggle it off via the Spy menu.

## **Spy | Switch To**

The Switch To command gives focus to the window that you select in the Window Tree view. Switch To is available only in WinSight 32 (WS32.EXE).

To use Switch To:

1. Select (highlight) the window you want to give focus to in the Window Tree view of WinSight.
2. Choose Switch To from the Spy menu.

## Spy | Exit

Choose Spy|Exit to exit WinSight.

## View Menu

Choose the View menu to select a view and how WinSight displays it, either horizontally or vertically.

The View commands are:

Class List

Window Tree

Message Trace

Split Horizontal

Split Vertical

## WinSight Views

[See also](#)

WinSight can display three views within its main window:

- [Class List](#)
- [Window Tree](#)
- [Message Trace](#)

The Window Tree view is the initial default view, but you can use the [View menu](#) to open or close any of these views.

When you exit WinSight, WinSight saves your current desktop configuration.

WinSight automatically tiles the views within the main window, however, you can resize them.

## View | Class List

Choose the View|Class List command to display the Class List view.

If the Class List view is displayed, choosing this command hides the view.

**Note:** The term "class" refers to the class name with which the window class was registered with Windows via the RegisterClass API function. It does not refer to C++ classes.

## Class List View

[See also](#)

The Class List view displays all the currently registered window classes.

The format for the classes in the Class List view is:

Class (Module) Function Styles

You can see more information about a window class in the [Detail window](#) by doing one of the following:

- Double-clicking the window class in the Class List view.
- Selecting the window class and press Enter.
- Selecting the window class and choose Spy|[Open Detail](#).

## View | Window Tree

Choose View|Window Tree to display the Window Tree view.

If the Window Tree view is displayed, choosing this command hides the view.



## Window Tree View

[See also](#)

The Window Tree view displays the hierarchy of windows on the desktop.

Use this display to do the following:

- Determine what windows are actually present.
- See the status of windows, including hidden windows.
- See which windows are receiving messages.
- Select the windows you want to trace messages for.

The format for the classes in the Window Tree view is:

Tree Handle {Class} Module Position "Title"

You can see more information about a window in the [Detail window](#) by doing one of the following:

- Double-click the window item in the view.
- Select the window item and press Enter.
- Select the window item and choose [Spy|Open Detail](#).

## Detail Window

[See also](#)

The Detail window displays the class name, executable module, and other information about the selected window or class.

## View | Message Trace

Choose the View|Message Trace command to display the Message Trace view.

If the Message Trace view is displayed, choosing this command hides the view.

## Message Trace View

[See also](#)

The Message Trace view displays information about messages received by selected windows or windows classes.

SendMessage messages are shown twice, once when they are sent and again when they return.

Dispatched messages are shown only once, since their return value is meaningless. The message display is indented to show how messages are nested within other messages.

The format for the messages in the Message Trace window is:

Handle "Title"-or-{Class} Message Status ...

### Win32 Messages

Winsight checks if the task whose messages are being traced is a Win32 task. If so, it displays **[Win32]** immediately after the window handle on traced messages. These messages, however, are displayed in Win16 message format.

### WS32 response time

WS32.EXE also displays the symbols + and \* to denote the following:

- \* means that WS32.EXE was too slow to catch all the messages
- + means a time out occurred in the hook procedure

The HookTimeOut setting in the WinSight.INI file (located in your Windows directory) denotes the time out for the WinSight hook procedure in milliseconds. If you set `HookTimeOut = 1000` (the default), WinSight will time out for 1 second between messages. If you decrease the value of this setting, WinSight will respond faster, at the risk of losing messages. Increasing this setting will slow down WinSight, but will increase the chance that it will catch all messages.

## View | Split Horizontal

Choose View|Split Horizontal to stack the views on top of one another.

## View | Split Vertical

Choose View|Split Vertical to display the views side by side.

**Class**

The name of the window class.

Some predefined Windows classes have numeric names and are shown with the number and a name.

**Module**

The name of the executable module (.EXE or .DLL) that registered the class or created the window.



**Function**

The address of the class window function.

**Styles**

A list of the CS\_ styles for the class. The names are the same as the CS\_ definitions in WinTypes, except that the CS\_ is removed and the name is in mixed case.

**Tree**

The lines and diamonds on the left of the view show the window tree structure. Each window is connected to its parent, siblings, and children.

**Handle**

The window handle returned by CreateWindow.

**Position**

The window's position.

If the window is hidden, the text "(hidden)" is displayed.

If the window is visible, the window coordinates are given as (xBegin,yBegin)-(xEnd,yEnd). Top-level windows use their own screen coordinates. Child windows use coordinates within the parent window client area.

**Title**

The window title or text, returned by `GetWindowText` or a `WM_GETTEXT` message. If the title is the null string, the quotation marks are omitted.

If the title is a null string in the Message Trace window, the class name is displayed in curly braces.

**Message**

The message name defined in WINDOWS.H.

Known undocumented Windows messages are shown in lower case.

Unknown message numbers (user-defined) are shown in one of the following formats:

- WM\_USER+0xXXXX if they are greater than or equal to WM\_USER
- WM\_0xXXXX if they are less than WM\_USER.

Registered message numbers (from RegisterWindowsMessage) are shown with their registered name in single quotation marks.

**Status**

One or more of the following items may be reported:

- |                  |   |
|------------------|---|
| Dispatched       | The message was received via DispatchMessage  |
| Sent [from XXXX] | The message was received via SendMessage. If it was sent from another window, "from XXXX" gives that window's handle. If it was sent from the same window receiving it, this is shown with "from self." If it was sent from Windows itself, the "from" phrase is omitted. |
| Returns          | The message was received via SendMessage and is now returning.  |



...

Additional information specific to each message.

If a "returning message", the return value, either in numeric form, or more specific information for messages such as WM\_GETTEXT.

If a "sent and dispatched message", the message parameters. WinSight interprets the parameters to give a readable display. If a message has associated data structures, those structures are included in the display.



## Tree Menu

Choose the Tree menu to display, expand, or collapse window entries in the Window Tree view.

The diamonds on the left of the Class List and Window Tree windows invert color momentarily when the window receives a message. They also show if the window class has any children:

- ◇ The window has no children.
- ◇+ The window has children, but they are hidden. To expand and see the children, click on the diamond, or select the window and press
- ◇+. To expand to show all levels of child windows, select a window and right-click.
- ◇- The window has children, and they are visible. To hide the children again, click the diamond, or select the parent window and press
- ◇-

The Tree menu commands are:

Expand One Level

Expand Branch

Expand All

Collapse Branch

## Tree | Expand One Level (+)

[See also](#)

Choose Tree|Expand One Level to expand an entry one level in the Window Tree view.

A plus sign in the diamond (⬠) next to an entry indicates that the window has children, but they are hidden.

## Tree | Expand Branch (\*)

[See also](#)

Choose Tree|Expand Branch to expand an entire branch in the Window Tree view.

A plus sign in the diamond (⊞) next to an entry indicates that the window has children, but they are hidden.

## Tree | Expand All (Ctrl+\*)

[See also](#)

Choose Tree|Expand All to expand all branches that are collapsed in the Window Tree view.

A plus sign in the diamond (⬠) next to an entry indicates that the window has children, but they are hidden.

## Tree | Collapse Branch (-)

[See also](#)

Choose Tree|Collapse Branch to collapse an entire branch in the Window Tree view.

A minus sign in the diamond (◊) next to an entry indicates that the window's children are currently hidden. Tree|Expand All

Tree|Expand Branch

Tree|Expand One Level

## Messages menu

[See also](#)

Choose the Messages menu to select the types of messages you want to trace for the selected window(s).

You can configure WinSight to trace messages by:

- Window
- Window class
- Message type
- A combination of these

The Messages menu commands are:

Trace Off

Selected Classes (16-bit WinSight only)

Selected Windows

All Windows

Clear

Options...

Processes...



## Messages | Trace off

Choose Messages|Trace Off to turn off message tracing. The Message Trace view remains visible.

Tracing resumes when you choose one of the following menu commands:

- Messages|Selected Classes
- Messages|Selected Windows
- Messages|All Windows

You can also use Stop! to turn off message tracing.

## Messages | Selected classes

Choose Messages|Selected Classes to trace messages going to a particular class.

This command is available in only WINSIGHT.EXE (the 16-bit WinSight) after you have selected a class in the Class List view.

Changing the selection in the Class List view will immediately change which windows have messages traced.

Choose Messages|Selected Classes to open the Message Trace view when it is hidden.

## Messages | Selected windows

Choose Messages|Selected Windows to trace messages going to a particular window.

This command is active only if you select a window in the Window Tree view.

Changing the selection in the Window Tree view will immediately change which windows have messages traced.

Choose Messages|Selected Windows to open the Message Trace view when it is hidden.

## Messages | All windows

Choose Messages|All Windows to trace all messages, regardless of what is selected in the Window Tree view or the Class List view.

Choose Windows|All Windows to open the Message Trace view when it is hidden.

## Messages | Clear

Choose Messages|Clear to clear all messages in the Message Trace view.

## Messages | Options...

Choose Messages|Options... to open the Message Trace Options dialog box.

Use the Messages Trace Options dialog box to choose the types of messages you want to trace.

**Tip:** For best performance, choose Stop! before you choose the Options command.

### Messages to Trace check boxes

Use the Messages to Trace check boxes and the Individual Messages List Box to specify which messages to trace.

### Interpret and Hex Values check boxes

Use the Interpret Value, Hex Value, and Show Times checkboxes to determine the message display format.

### Log File check box

Use the Log File check box to log traced messages.

## Messages | Processes...

Choose the Processes command to display the Trace Process Messages dialog box. You can use this dialog box to select the processes whose messages you want to track:

- Highlight the specific processes you want to monitor, then choose OK.
- Check All Processes if you want to monitor all running processes.
- Check New Processes if you want to monitor new processes as you start them.

**Tip:** For best performance, choose Stop! before you choose the Processes command.

**Note:** The Processes command is available only in WinSight 32 (WS32.EXE).

## Messages to Trace checkboxes

[See also](#)

Use the Messages to Trace check boxes on the Message Trace Options dialog box to choose the types of messages to trace.

You can configure WinSight to trace any of the following:

- All messages
- Subgroups of messages
- Individual messages
- A combination of groups and individual messages

### All Messages

The All Messages checkbox allows you to select or deselect all ten subgroups of messages.

When All Messages is selected, all messages in the Individual Messages Display Box are highlighted. The All Messages checkbox is dimmed when the list box is used to either select or deselect an individual message.

### Message Subgroups

To select specific types of messages, uncheck All Messages and check individual message groups. Checking the All Messages checkbox also turns on these checkboxes. Unchecking the All Messages checkbox turns off previously selected subgroup checkboxes.

When a subgroup is selected, the messages in that subgroup are highlighted in the Individual Messages Display Box. The subgroup checkbox is dimmed when the list box is used to either select or deselect an individual message in that group.

### "Other" checkbox

The "Other" checkbox allows tracing of all messages that WinSight does not know about, such as unknown WM\_USER+xxxx and registered messages. This checkbox must be on for these messages to be traced. Checking the All Messages checkbox also turns on this checkbox.

### Individual Messages list box

The Individual Messages List Box displays all of the messages that WinSight knows about. It is here that individual messages are selected or deselected. The All Messages checkbox and corresponding subgroup checkboxes are dimmed to indicate when individual messages are selected or deselected.



## Messages WinSight tracks

[See also](#)

The messages that WinSight tracks are listed under the following group headings.

Click a group to see the corresponding list of messages tracked by WinSight.

[Mouse](#)

[Window](#)

[Input](#)

[System](#)

[Pen](#)

[Initialization](#)

[Clipboard](#)

[DDE](#)

[Non Client](#)

[Control](#)

[MultiMedia](#)

[Common controls](#) (WS32.EXE only)

[Other](#)

## Interpret Value, Hex Value, and Show Times checkboxes

[See also](#)

The Interpret and Hex Values check boxes determine the format of the Message Trace view display.

Check the Interpret Values checkbox to interpret message parameters and return values in a readable format.

Check the Hex Values checkbox to display message parameters as Hex Values of wParam and lParam, and also return Values as Hex.

Check the Show Times (WS32.EXE only) to display a timestamp with each message.

## Log File checkbox

[See also](#)

Check Log File to log trace messages to a file.

Enter a file name in the input box below the check box. If the file already exists, messages are appended to the end of the file.

To stop logging messages to the file, turn off the Log File check box.

## Mouse messages

[See also](#)

Check Mouse on the Message Trace Options dialog box to trace mouse messages.

The mouse messages that WinSight traces are:

WM\_HSCROLL

WM\_LBUTTONDOWNBLCLK

WM\_LBUTTONDOWN

WM\_LBUTTONUP

WM\_MBUTTONDOWNBLCLK

WM\_MBUTTONDOWN

WM\_MBUTTONUP

WM\_MOUSEACTIVATE

WM\_MOUSEMOVE

WM\_RBUTTONDOWNBLCLK

WM\_RBUTTONDOWN

WM\_RBUTTONUP

WM\_SETCURSOR

WM\_VSCROLL

## Window messages

[See also](#)

Check Window on the Message Trace Options dialog box to trace window messages.

The window messages that WinSight traces are (those messages in lowercase are undocumented Windows messages):

WM\_ACTIVATE  
WM\_ACTIVATEAPP  
WM\_CANCELMODE  
WM\_CHILDACTIVATE  
WM\_CLOSE  
WM\_CREATE  
WM\_CTLCOLOR  
WM\_DESTROY  
WM\_ENABLE  
WM\_ENDSESSION  
WM\_ERASEBKGND  
WM\_GETDLGCODE  
WM\_GETMINMAXINFO  
WM\_GETTEXT  
WM\_GETTEXTLENGTH  
WM\_ICONERASEBKGND  
WM\_KILLFOCUS  
WM\_MOVE  
WM\_PAINT  
wm\_painticon  
WM\_QUERYDRAGICON  
WM\_QUERYENDSESSION  
WM\_QUERYNEWPALETTE  
WM\_QUERYOPEN  
WM\_QUIT  
WM\_SETFOCUS  
WM\_SETFONT  
WM\_SETREDRAW  
WM\_SETTEXT  
WM\_SHOWWINDOW  
WM\_SIZE  
WM\_WINDOWPOSCHANGED  
WM\_WINDOWPOSCHANGING

## Input messages

[See also](#)

Check Input on the Message Trace Options dialog box to trace input messages.

The input messages that WinSight traces are (those messages in lowercase are undocumented Windows messages):

WM\_CHAR  
WM\_CHARTOITEM  
WM\_COMMAND  
WM\_DEADCHAR  
WM\_KEYDOWN  
WM\_KEYUP  
WM\_KEYLAST  
WM\_MENUSELECT  
WM\_MENUCHAR  
WM\_PARENTNOTIFY  
WM\_SYSCHAR  
WM\_SYSKEYDOWN  
WM\_SYSKEYUP  
WM\_SYSDEADCHAR  
WM\_TIMER  
WM\_VKEYTOITEM  
sm\_yomichar

### Notification Control Messages

BN\_CLICKED  
BN\_DOUBLECLICKED  
BN\_CLOSEUP  
BN\_DBLCLK  
BN\_DROPDOWN  
BN\_EDITCHANGE  
CBN\_CLOSEUP  
CBN\_DBLCLK  
CBN\_DROPDOWN  
CBN\_EDITCHANGE  
CBN\_EDITUPDATE  
CBN\_ERRSPACE  
CBN\_KILLFOCUS  
CBN\_SELCHANGE  
CBN\_SELENDCANCEL  
CBN\_SELENDOK  
CBN\_SETFOCUS  
EN\_CHANGE  
EN\_ERRSPACE  
EN\_HSCROLL  
EN\_KILLFOCUS  
EN\_MAXTEXT

EN\_SETFOCUS  
EN\_UPDATE  
EN\_VSCROLL  
LBN\_DBLCLK  
LBN\_ERRSPACE  
LBN\_KILLFOCUS  
LBN\_SELCANCEL  
LBN\_SELCHANGE  
LBN\_SETFOCUS

## System messages

[See also](#)

Check System on the Message Trace Options dialog box to trace system messages.

The system messages that WinSight traces are:

WM\_COMPACTING

WM\_DEVMODECHANGE

WM\_ENTERIDLE

WM\_FONTCHANGE

WM\_NULL

WM\_PALETTECHANGED

WM\_PALETTEISCHANGING

WM\_POWER

WM\_QUEUESYNC

WM\_SPOOLERSTATUS

WM\_SYSCOLORCHANGE

WM\_SYSCOMMAND

WM\_TIMECHANGE

WM\_WININICHANGE



## Pen messages

[See also](#)

Check Pen on the Message Trace Options dialog box to trace pen messages.

The pen messages that WinSight traces are:

WM\_RCRESULT

WM\_HOOKRCRESULT

WM\_GLOBALRCCHANGE

WM\_SKB

WM\_HEDITCTL

## Initialization messages

[See also](#)

Check Initialization on the Message Trace Options dialog box to trace initialization messages.

The initialization messages that WinSight traces are:

WM\_INITDIALOG

WM\_INITMENU

WM\_INITMENUPOPUP

## Clipboard messages

[See also](#)

Check Clipboard on the Message Trace Options dialog box to trace initialization messages.

The clipboard messages that WinSight traces are:

WM\_ASKCBFORMATNAME

WM\_CHANGECHAIN

WM\_CLEAR

WM\_COPY

WM\_CUT

WM\_DESTROYCLIPBOARD

WM\_DRAWCLIPBOARD

WM\_HSCROLLCLIPBOARD

WM\_PAINTCLIPBOARD

WM\_PASTE

WM\_RENDERALLFORMATS

WM\_RENDERFORMAT

WM\_SIZECLIPBOARD

WM\_UNDO

WM\_VSCROLLCLIPBOARD

## DDE messages

[See also](#)

Check DDE on the Message Trace Options dialog box to trace dynamic data exchange messages.

The DDE messages that WinSight traces are:

WM\_DDE\_ACK

WM\_DDE\_ADVISE

WM\_DDE\_DATA

WM\_DDE\_EXECUTE

WM\_DDE\_INITIATE

WM\_DDE\_POKE

WM\_DDE\_REQUEST

WM\_DDE\_TERMINATE

WM\_DDE\_UNADVISE

## Non Client messages

[See also](#)

Check Non Client on the Message Trace Options dialog box to trace non-client messages.

The non-client messages that WinSight traces are:

WM\_NCACTIVE

WM\_NCCALCSIZE

WM\_NCCREATE

WM\_NCDESTROY

WM\_NCHITTEST

WM\_NCLBUTTONDBLCLK

WM\_NCLBUTTONDOWN

WM\_NCLBUTTONUP

WM\_NCMBUTTONDBLCLK

WM\_NCMBUTTONDOWN

WM\_NCMBUTTONUP

WM\_NCMOUSEMOVE

WM\_NCPAINT

WM\_NCRBUTTONDBLCLK

WM\_NCRBUTTONDOWN

WM\_NCRBUTTONUP

## Controls messages

[See also](#)

Check Controls on the Message Trace Options dialog box to trace control messages.

The control messages that WinSight traces are:

BM\_GETCHECK  
BM\_GETSTATE  
BM\_SETCHECK  
BM\_SETSTATE  
BM\_SETSTYLE  
CB\_ADDSTRING  
CB\_DELETESTRING  
CB\_DIR  
CB\_FINDSTRING  
CB\_FINDSTRINGEXACT  
CB\_GETCOUNT  
CB\_GETCURSEL  
CB\_GETDROPPEDCONTROLRECT  
CB\_GETDROPPEDSTATE  
CB\_GETEDITSEL  
CB\_GETEXTENDEDUI  
CB\_GETITEMDATA  
CB\_GETITEMHEIGHT  
CB\_GETLBTEXT  
CB\_GETLBTEXTLEN  
CB\_INSERTSTRING  
CB\_LIMITTEXT  
CB\_RESETCONTENT  
CB\_SELECTSTRING  
CB\_SETCURSEL  
CB\_SETEDITSEL  
CB\_SETEXTENDEDUI  
CB\_SETITEMDATA  
CB\_SETITEMHEIGHT  
CB\_SHOWDROPDOWN  
DM\_GETDEFID  
DM\_SETDEFID  
EM\_CANUNDO  
EM\_EMPTYUNDOBUFFER  
EM\_FMTLINES  
EM\_GETFIRSTVISIBLELINE  
EM\_GETHANDLE  
EM\_GETLINE  
EM\_GETLINECOUNT  
EM\_GETMODIFY  
EM\_GETPASSWORDCHAR

EM\_GETRECT  
EM\_GETSEL  
EM\_GETWORDBREAKPROC  
EM\_LIMITTEXT  
EM\_LINEFROMCHAR  
EM\_LINEINDEX  
EM\_LINELENGTH  
EM\_LINESCROLL  
EM\_REPLACESEL  
EM\_SETHANDLE  
EM\_SETMODIFY  
EM\_SETPASSWORDCHAR  
EM\_SETREADONLY  
EM\_SETRECT  
EM\_SETSEL  
EM\_SETRECTNP  
EM\_SETTABSTOPS  
EM\_SETWORDBREAK  
EM\_SETWORDBREAKPROC  
EM\_UNDO  
LB\_ADDSTRING  
LB\_DELETESTRING  
LB\_DIR  
LB\_FINDSTRING  
LB\_FINDSTRINGEXACT  
LB\_GETCARETINDEX  
LB\_GETCOUNT  
LB\_GETCURSEL  
LB\_GETHORIZONTALEXTENT  
LB\_GETITEMDATA  
LB\_GETITEMHEIGHT  
LB\_GETITEMRECT  
LB\_GETSEL  
LB\_GETSELCOUNT  
LB\_GETSELITEMS  
LB\_GETTEXT  
LB\_GETTEXTLEN  
LB\_GETTOPINDEX  
LB\_INSERTSTRING  
LB\_RESETCONTENT  
LB\_SELECTSTRING  
LB\_SELITEMRANGE  
LB\_SETCARETINDEX  
LB\_SETCOLUMNWIDTH  
LB\_SETCURSEL

LB\_SETHORizontALEXTENT  
LB\_SETITEMDATA  
LB\_SETITEMHEIGHT  
LB\_SETSEL  
LB\_SETTABSTOPS  
LB\_SETTOPINDEX  
STM\_GETICON  
STM\_SETICON



## Multimedia messages

[See also](#)

Check Multimedia on the Message Trace Options dialog box to trace multimedia messages.

The multimedia messages that WinSight traces are:

MM\_JOY1MOVE

MM\_JOY1BUTTONDOWN

MM\_JOY1BUTTONUP

MM\_JOY1ZMOVE

MM\_JOY2MOVE

MM\_JOY2BUTTONDOWN

MM\_JOY2BUTTONUP

MM\_JOY2ZMOVE

MM\_MCMINOTIFY

MM\_MIM\_CLOSE

MM\_MIM\_DATA

MM\_MIM\_ERROR

MM\_MIM\_LONGDATA

MM\_MIM\_LONGERROR

MM\_MIM\_OPEN

MM\_MOM\_CLOSE

MM\_MOM\_DONE

MM\_MOM\_OPEN

MM\_WIM\_CLOSE

MM\_WIM\_DATA

MM\_WIM\_OPEN

MM\_WOM\_CLOSE

MM\_WOM\_DONE

MM\_WOM\_OPEN

## Common controls messages

[See also](#)

Check Common Controls (WS32.EXE only) to trace the following types of messages:

All ACM\_ messages

All HDM\_ messages

All HKM\_ messages

All LVM\_ messages

All PBM\_ messages

All SB\_ messages

All TB\_ messages

All TBM\_ messages

All TCM\_ messages

Att TTM\_ messages

All TVM\_ messages

All UDM\_ messages

## Other Messages

[See also](#)

Check Other on the Message Trace Options dialog box to trace other types of messages.

The other messages that WinSight traces are (those messages in lowercase are undocumented Windows messages):

wm\_alttabactive  
wm\_begindrag  
WM\_COMMNOTIFY  
WM\_COMPAREITEM  
wm\_convertrequest  
wm\_convertresult  
WM\_DELETEITEM  
wm\_dragloop  
wm\_dragmove  
wm\_dragselect  
WM\_DRAWITEM  
WM\_DROPFILES  
wm\_dropobject  
wm\_entermenuloop  
wm\_entersizemove  
wm\_exitmenuloop  
wm\_exitsizemove  
wm\_filesyschange  
WM\_GETFONT  
wm\_gethotkey  
wm\_isactiveicon  
wm\_lbtrackpoint  
WM\_MDIACTIVATE  
WM\_MDICASCADE  
WM\_MDICREATE  
WM\_MDIDESTROY  
WM\_MDIGETACTIVE  
WM\_MDIICONARRANGE  
WM\_MDIMAXIMIZE  
WM\_MDINEXT  
WM\_MDIRESTORE  
WM\_MDISETMENU  
WM\_MDITILE  
WM\_MEASUREITEM  
WM\_NEXTDLGCTL  
wm\_nextmenu  
wm\_querydropobject  
wm\_queryparkicon  
wm\_setvisible  
wm\_sethotkey

wm\_sizewait  
wm\_syncpaint  
wm\_synctask  
WM\_SYSTEMERROR  
wm\_systimer  
wm\_testing



## Stop! and Start! Menu

[See also](#)

Use the Stop! and Start! menu to turn off or on real-time updating in WinSight.

All views are kept current as classes are registered, windows are created and destroyed, and messages are received.

This command is a toggle. When you choose Stop! to suspend activity, the command changes to Start!. When you choose Start! to resume activity, the command changes to Stop!.

Using Stop! allows you to study a particular situation. It also removes the overhead of having WinSight update itself constantly.

You can also use Messages|Trace Off to stop message tracing.



## Help menu

The Help menu provides access to online Help, which comes up in a special Help window. One-line menu hints also appear on the status line at the bottom of the screen whenever you select a menu command.

The Help menu commands are:

Index

Finding Windows

Tracing Messages

Menu Commands

Keyboard

Mouse

Using Help

About WinSight



## Help | Index (F1)

The WinSight online Help has a contents screen that summarizes the organization and contents of the Help system.

To access the Help system from the index, choose one of the highlighted words or pictures on the contents: click it or Tab to it and then press Enter.

For more information on how to use a Help system under Windows, choose the Help|Using Help menu command.

## Help | Finding Windows

The Help|Finding Windows command displays help on locating windows.

## Help | Tracing Messages

The Help|Tracing Messages command displays help on [tracing messages](#).

## Help | Menu Commands

Help|Menu Commands displays help on WinSight menus.

## Help | Keyboard

The Help|Keyboard command displays help on the keyboard.

## Help | Mouse

The Help|Mouse command displays help on the mouse.

## Help | Using Help

The Help|Using Help command displays information on how to use the WinSight Help system (or any other Help system under Windows).

## **Help | About**

The About command displays a dialog box that shows copyright and version information. Click OK or Enter to close the About dialog box.



