

Snagit 10

COM Server Document
By TechSmith Corporation

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Snagit COM Server Introduction

Using Snagit's COM Server, you can easily incorporate Snagit's screen capture functionality into your organization's proprietary applications. The COM Server lets you customize capture instructions for Snagit, automate the capture process, and programmatically control Snagit's entire array of image and text capture features from within your own application.

Snagit's add-ins for Microsoft and Adobe products – which allow you to launch Snagit from the toolbar within these applications – are great examples of the power and convenience of Snagit's COM Server.

You can access Snagit's capture functionality from any programming language that supports COM including the following:

- ▶ Visual Basic
- ▶ VBScript
- ▶ Visual C/C++
- ▶ Visual Studio.Net
- ▶ Delphi
- ▶ C++Builder

This Snagit COM Server User Guide assumes you are familiar with COM programming. If you need more information about COM, please consult your development environment's documentation.

Installation

The Snagit COM Server is built right into Snagit. [Download and install Snagit](#). This automatically registers the Snagit COM Server and makes it available to other applications.

There are two additional items available for download. One contains this document, and the other contains example programs.

The Snagit COM Server is implemented as an out-of-process COM Server. The Snagit setup program registers the Snagit COM Server after you install Snagit. If you need to manually register the COM Server, use a command prompt and type the following from the Snagit program folder:

```
Snagit32.exe /register
```

Evaluation Version Information

If you are using the Snagit evaluation version, the COM Server is fully functional during the 30-day evaluation period. Once the 30-day period has expired, invoking the capture method fails, and the COM Server gives a [serrSnagitExpired](#) error, and `LastError` is set to [serrSnagitExpired](#). All programs using the Snagit COM Server should check the `LastError` property or subscribe to the events from the capture interfaces, so that this error case is handled correctly.

Application Deployment and Licensing

Each desktop using the Snagit COM Server must have Snagit installed. Any commercially distributed software application using the Snagit COM Server must comply with the restrictions found in the *Snagit Software License Agreement* found in the *license.txt* file in the Snagit application folder.

System Requirements

An application using the Snagit COM Server must meet the following system requirements:

- ▶ Microsoft® Windows® 95, 98, Me, NT 4.0, 2000, XP, or Vista
- ▶ Internet Explorer version 4.0 or later
- ▶ 90 MHz processor (400 MHz recommended)
- ▶ 16 MB RAM (64 MB recommended)
- ▶ 16 MB RAM (64 MB recommended)

What's New

Version 10.0.0

As of Snagit version 10.0.0, the following features have been added:

- ▶ New Image Input setting, `siiCapture`, for All-in-One capture.
- ▶ `ITextCapture2` and `ITextFile2` interfaces added for RTF text capture support.

Version 8.1.0

As of Snagit version 8.1.0, the following features have been added:

- ▶ [IImageCapture2](#) interface- holds everything from `IImageCapture` plus:
- ▶ `HotspotType` property – captures links and more
- ▶ `OutputImageFile2` property – returns new interface `IImageFile2`
- ▶ `CaptureResults` property – see bounding rectangle of the capture
- ▶ [IImageFile2](#) interface
- ▶ Adds functions for setting GIF transparency
- ▶ [IImageCaptureResults](#)
- ▶ Get the selected area the user chose during capture
- ▶ Get the file name of the last file saved

- ▶ In the [ITextLayout](#) interface, fixed the misspelling of the *CollapseBlankColumns* property ('m' and 'n' were reversed) for scripting users
- ▶ In the [ImageWatermark](#) interface, added the *ScaleSize* property for VB6 users who couldn't use *Scale* property, as it is a reserved keyword
- ▶ 21 new supported formats and the COM server now matches the formats supported in Snagit's main user interface (see [snagImageFileType](#))
- ▶ You can add annotations (captions) outside the image instead of just on top of it (see [snagPlacement](#))
- ▶ Added new output type, *sioNone*, which is the default in Version 8.x's main interface for profiles (no chosen output, user chooses in the Capture Preview window), see [snagImageOutput](#).


You can continue to use the COM Server, without recompiling your program, and it still works with Version 8.1.0. If you want to take advantage of the new features offered, use the *ImageCapture2* interface.

 Remember, if your users have a version of Snagit earlier than 8.1.0, your program will not work.

Users who access the COM Server using an Automation, OLE, or scripting language (like VBScript or Ruby) can just access the new methods. Compiled languages (VB6, VB.Net, C#, C++) use the *ImageCapture2* interface. See the code examples in [Appendix A – Language Specific Samples](#) for more information.

Getting Started

The Snagit COM Server should be accessible from any language that supports COM. Only basic data types are used, see [Appendix B – Data Type Information](#) for more information.

 The Snagit COM Server is not an automation server. None of the changes made through the COM Server are saved in the Snagit application or the registry. You can use the COM Server from multiple clients, so check return values on calls to methods in case a conflict has occurred.

How It Works

All the interfaces, properties, and methods described in this user guide are accessible from any COM enabled language.

Interfaces	These define the properties, methods, events, and sub-interfaces for a given COM object.
Properties	Values stored in an interface that may be set or retrieved. Some properties are read only, all interfaces are read only.
Methods	Functions in interfaces that interact with the COM server.
Events	Events may be sent from the COM server to the client program. The client program must "subscribe" to the event interface to receive the events. This is a language dependent option, and not all programming languages can receive events. For more information, see Events .
Enumerations	There are many enumerations used in the Snagit COM server. These are described later. For more information, see Enumerations .

To access the COM object's functionality, you must first create an instance of the object in your client program. See the [Tutorial](#) for an example using Visual Basic 6.

► **C++ MFC and ATL Users**

The easiest way to make use of the COM server is using the Microsoft Visual C++ #import statement on the **Snagit.tlb** file present in the Snagit install directory. This creates smart-pointer wrapper classes for the COM server.

► **Visual Basic 6 Users**

A reference to the **SNAGIT 1.0 Type Lib** should be added in the References dialog accessed from the **Project>References** menu item.

► **VB.NET and C# Users**

Choose **Project > Add Reference** to add a reference to the **SNAGIT 1.0 Type Lib**. Note that the entry is on the COM tab page.

Image Capture Code Tutorial

This section gives you step-by-step instructions on the basic methods and properties you need to create an image capture. The source code fragments are given using Microsoft's Visual Basic programming language.

See the section on [VB](#) in [Appendix A – Language Specific Samples](#) for the complete source code showing how to use the COM object. View additional samples in the following programming languages:

- [C++/ATL](#)
- [C#](#)
- [VB.NET](#)
- [VBScript](#)

Visit the [Developer Tools download page](#) to download example programs.

The steps to this tutorial are as follows:

- [Step 1 – Creating the Capture Object](#)
- [Step 2 – Setting the Capture Properties](#)
- [Step 3 – Starting the Capture](#)
- [Step 4 – Getting Capture Information](#)

Step 1 – Creating the Capture Object

Create the capture object.

```
Dim ImageCapture1 As SNAGITLib.ImageCapture
Set ImageCapture1 = CreateObject("Snagit.ImageCapture.1")
```

Step 2 – Setting the Capture Properties

Configure various capture object properties. All object properties use default values if the property is not specified. Configure different properties based on what you want to do with the capture object.

```
// Configure to capture the a window and save to the clipboard
ImageCapture1.Input = siiWindow
```

```
ImageCapture1.Output = sioClipboard
```

If you do not know the current capture setting, you can retrieve these values.

```
Dim bUsePreview  
bUsePreview = ImageCapture1.EnablePreviewWindow  
  
Dim CaptureCursor  
CaptureCursor = ImageCapture1.IncludeCursor
```

Step 3 – Starting the Capture

Once the capture object is configured correctly, start the capture session.

```
ImageCapture1.Capture
```



The Capture call is asynchronous. The capture object may still be completing the operation after the function returns.

Step 4 – Getting Capture Information

During or after a capture, you may want to monitor the state of the capture.

```
Dim capState As snagCaptureState  
capState = ImageCapture1.CaptureState  
  
Dim capDone  
capDone = ImageCapture1.IsCaptureDone
```

The capture state information resets when a new capture is started.



Specific interfaces send event callbacks to which a client can subscribe. This allows the client program to update without polling.

Programming Reference: Interfaces

This section contains the programming reference information on the following:

- ▶ **Capture**
- ▶ **Input: General**
- ▶ **Input: Image**
- ▶ **Input: Text**
- ▶ **Output: General**
- ▶ **Output: Image**
- ▶ **Output: Text**

- ▶ [Filters: Image](#)
- ▶ [Filters: Text](#)
- ▶ [General](#)
- ▶ [Events](#)

Capture


The following section describes the controls for the basic functionality of the capture process.

- ▶ [IImageCapture](#)
- ▶ [IImageCapture2](#)
- ▶ [IImageCaptureResults](#)
- ▶ [ITextCapture](#)

IImageCapture



The **IImageCapture** interface is the base capture interface for image captures. All the image capture actions and settings are contained within it. To be safe, always call **LoadImageDefaults** method of the **OutputImageFile** child interface after changing the **FileType** property of the **OutputImageFile**.

IImageCapture Methods

Name		Description
Capture	Action:	Invokes an image capture.
	Remarks:	<p>Moves the Snagit COM server into a busy state while the capture is performed. If an expired evaluation version of Snagit is used, the capture fails. For more information, see Evaluation Version Information.</p> <p> This is always non-blocking except when the output mode is set to sioFile with the Capture Preview window disabled, so in order to know when a capture finishes, either subscribe to the <code>_ICaptureEvents</code> or poll the <code>IsCaptureDone</code> property.</p>

IImageCapture Properties

Name	Description	
Input (snagImageInput)	Default:	siiWindow
	Remarks:	Changes the input mode for the next capture performed. The input mode determines where the Snagit COM server will get the captured bitmap from.
Output (snagImageOutput)	Default:	sioFile
	Remarks:	Changes the output mode for the next capture performed. The output mode determines what the Snagit COM server does with the resulting bitmap from the capture.
IncludeCursor (Boolean)	Default:	True
	Remarks:	Enables or disables the inclusion of the mouse cursor for the next capture performed.


CaptureMultipleAreas (Boolean)	Default:	False
	Remarks:	Enables or disables multiple areas for the next capture performed. Multiple area capture allows you to select more than one area of an intended input and capture them all at the same time. The image includes only those areas you have selected, with other areas of the screen blanked out.
BackgroundColor (Long)	Default:	RGB(255, 255, 255)
	Valid:	Any RGB value (For more information, see Colors.)
	Remarks:	Sets the background color to use outside the capture area for the next capture performed.
NotificationType (snagNotificationType)	Default:	sntNone
	Remarks:	Sets what messages the Snagit COM server displays. For more information on the types of notifications see the description of the snagNotificationType enumeration.
EnablePreviewWindow (Boolean)	Default:	False
	Remarks:	Enables the use of the Capture Preview window for the next capture. If set to True, the user can see the images they capture before finishing output. The user can change Input and Output options if necessary and avoids creating files that must be deleted or overwritten.
ForegroundPreview (Boolean)	Default:	True
	Remarks:	When enabled, this forces the Capture Preview window into the foreground (with focus) after making a capture.  Only valid if EnablePreviewWindow is set to True.
UseMagnifierWindow (Boolean)	Default:	True
	Remarks:	When enabled, a zoom magnifier window in the area around the cursor when defining precise region captures.  Only valid for Region (siiRegion) input mode.

ImageCapture Contained Interfaces

Name
AutoScrollOptions (IAutoScrollOptions)
ClipboardOptions (IClipboardOptions)
InputTWAINOptions (ITWAINOptions)
InputMenuOptions (IMenuOptions)
InputExtendedWindowOptions (IExtendedWindowOptions)
InputRegionOptions (IRegionOptions)
OutputPrinterOptions (IPrinterOptions)
OutputPrinterPageLayoutOptions (IPrinterPageLayoutOptions)
OutputFTPOptions (IFTPOptions)
OutputMailOptions (IMailOptions)
OutputImageFile (IImageFile)

Filters (IImageFilters)
DelayOptions (IDelayOptions)
InputWindowOptions (IWindowOptions)

ImageCapture Read-Only Properties


Name	Description	
LastError (snagError)	Default:	serrNone
	Remarks:	Holds the last error set in the Snagit COM server. If an application subscribes to the OnStateChange event of ICaptureEvents interface, this property can be read to see what the error was on a scsCaptureFailed state change. This property is reset to serrNone when a new call to the Capture method is made.
IsCaptureDone (Boolean)	Default:	False
	Remarks:	After a call to the Capture method has been made, this tests for when the capture has been completed, whether it failed or succeeded.  This call basically just blocks and performs a polling to see when the capture state goes back to scsIdle.
LastFileWritten (String)	Default:	"" (empty string)
	Remarks:	If the last capture used sioFile as the output mode, obtains the whole path for the resultant image file of the last capture.
CaptureState (snagCaptureState)	Default:	scsIdle
	Remarks:	Returns the current capture state set by the Snagit COM server. Instead of subscribing to the event interface, poll this property to know what state of the Snagit COM server.
LastCaptureSucceeded (Boolean)	Default:	True
	Remarks:	Returns True if the last capture attempt was successful. Returns False if the last capture attempt was not successful.

ImageCapture2

The **ImageCapture2** interface is the base capture interface for image captures, and replaces **ImageCapture**. If your users have v8.1.0 or later of Snagit, you can use **ImageCapture2** for all of your captures.



ImageCapture2 Methods

Name		Description
Capture	Action:	Invokes an image capture.

	Remarks:	<p>Moves the Snagit COM server into a busy state while the capture is being performed. If an expired evaluation version of Snagit is used, the capture fails. For more information, see Evaluation Version Information.</p> <p> This is always non-blocking except when the output mode is set to sioFile with the Capture Preview window disabled, so in order to know when a capture finishes, either subscribe to the _ICaptureEvents or poll the IsCaptureDone property.</p>
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ImageCapture2 Properties

Name	Description	
Input (snagImageInput)	Default:	siiWindow
	Remarks:	Changes the input mode for the next capture performed. The input mode determines where the Snagit COM server gets the captured bitmap from.
Output (snagImageOutput)	Default:	sioFile
	Remarks:	Changes the output mode for the next capture performed. The output mode determines what the Snagit COM server does with the resulting bitmap from the capture.
IncludeCursor (Boolean)	Default:	True
	Remarks:	Enables or disables the inclusion of the mouse cursor for the next capture performed.
HotspotType (snagHotspotType)	Default:	shtNone
	Remarks:	Changes the types of hotspots captured. Works with most capture types.
CaptureMultipleAreas (Boolean)	Default:	False
	Remarks:	Enables or disables multiple areas for the next capture performed. Multiple area capture allows you to select more than one area of an intended input and capture them all at the same time. The image includes only those areas you have selected, with other areas of the screen blanked out.
BackgroundColor (Long)	Default:	RGB(255, 255, 255)
	Valid:	Any RGB value (For more information, see Colors .)
	Remarks:	Sets the background color to use outside the capture area for the next capture performed.
NotificationType (snagNotificationType)	Default:	sntNone
	Remarks:	Sets what messages the Snagit COM server displays. For more information on the types of notifications see the description of the snagNotificationType enumeration.
EnablePreviewWindow (Boolean)	Default:	False
	Remarks:	Enables the use of the Capture Preview window for the next capture. If set to True, the user can see the images they capture before finishing output. This allows them to change Input and Output options if necessary and avoids creating files that must be deleted or overwritten.


ForegroundPreview (Boolean)	Default:	True
	Remarks:	When enabled, this forces the Capture Preview window into the foreground (with focus) after making a capture.  Only valid if EnablePreviewWindow is set to True.
UseMagnifierWindow (Boolean)	Default:	True
	Remarks:	When enabled, a zoom magnifier window appears in the area around the cursor when defining precise region captures.  Only valid for Region (siiRegion) input mode.

ImageCapture2 Contained Interfaces

Name
AutoScrollOptions (IAutoScrollOptions)
ClipboardOptions (IClipboardOptions)
InputTWAINOptions (ITWAINOptions)
InputMenuOptions (IMenuOptions)
InputExtendedWindowOptions (IExtendedWindowOptions)
InputRegionOptions (IRegionOptions)
CaptureResults (IImageCaptureResults)
OutputPrinterOptions (IPrinterOptions)
OutputPrinterPageLayoutOptions (IPrinterPageLayoutOptions)
OutputFTPOptions (IFTPOptions)
OutputMailOptions (IMailOptions)
OutputImageFile2 (IImageFile2)
Filters (IImageFilters)
DelayOptions (IDelayOptions)
InputWindowOptions (IWindowOptions)

ImageCapture2 Read-Only Properties

Name	Description	
LastError (snagError)	Default:	serrNone
	Remarks:	Holds the last error set in the Snagit COM server. If an application subscribes to the OnStateChange event of ICaptureEvents interface, this property can be read to see what the error was on a scsCaptureFailed state change. This property is reset to serrNone when a new call to the Capture method is made.
IsCaptureDone	Default:	False

(Boolean)	Remarks:	After a call to the Capture method has been made, this tests for when the capture has been completed, and whether it failed or succeeded.  This call basically just blocks and performs a polling to see when the capture state goes back to scsIdle.
LastFileWritten (String)	Default:	"" (empty string)
	Remarks:	If the last capture used sioFile as the output mode, obtains the whole path for the resultant image file of the last capture.
CaptureState (snagCaptureState)	Default:	scsIdle
	Remarks:	Returns the current capture state set by the Snagit COM server. Instead of subscribing to the event interface, use in a polling fashion to know what is going on with the Snagit COM server.
LastCaptureSucceeded (Boolean)	Default:	True
	Remarks:	Returns True if the last capture attempt was successful. Returns False if the last capture attempt was not successful.

ImageCaptureResults

The **ImageCaptureResults** interface allows you to see some information about what happened during capture.

ImageCaptureResults Read-Only Properties

Name	Description	
LastFileWritten (String)	Default:	"" (empty string)
	Remarks:	If the last capture used sioFile as the output mode, then the whole path for the resultant image file of the last capture.


ImageCaptureResults Contained Interfaces

Name
SelectedArea (ISelectedArea)



ITextCapture

The **ITextCapture** interface is the base capture interface for text captures. All the text capture actions and settings are contained within it except for RTF support.

ITextCapture Methods

Name	Description	
Capture	Action:	Invokes a text capture.
	Remarks:	<p>Moves the Snagit COM server into a busy state while the capture is being performed. If an expired evaluation version of Snagit is used, the capture fails. For more information, see Evaluation Version Information.</p> <p> This is always non-blocking except when the output mode is set to stoFile with the Capture Preview window disabled, so in order to know when a capture finishes either subscribe to the _ICaptureEvents or poll the IsCaptureDone property.</p>


ITextCapture Properties

Name	Description	
Input (snagTextInput)	Default:	stiWindow
	Remarks:	Changes the input mode for the next capture performed. The input mode determines where the Snagit COM server gets the captured text from.
Output (snagTextOutput)	Default:	stoFile
	Remarks:	Changes the output mode for the next capture performed. The output mode determines what the Snagit COM server does with the resulting text from the capture.
NotificationType (snagNotificationType)	Default:	sntNone
	Remarks:	Sets what messages the Snagit COM server displays. For more information on the types of notifications see the description of the snagNotificationType enumeration.
EnablePreviewWindow (Boolean)	Default:	False
	Remarks:	Enables the use of the Capture Preview window for the next capture. If set to True, this allows the user to see the images they capture before finishing output. This allows them to change Input and Output options if necessary and avoids creating files that must be deleted or overwritten.
ForegroundPreview (Boolean)	Default:	True
	Remarks:	<p>When enabled, this forces the Capture Preview window into the foreground (with focus) after making a capture.</p> <p> Only valid if EnablePreviewWindow is set to True.</p>
UseMagnifierWindow (Boolean)	Default:	True
	Remarks:	<p>When enabled, a zoom magnifier window appears in the area around the cursor when defining precise region captures.</p> <p> Only valid for Region (siiRegion) input mode.</p>

ITextCapture Contained Interfaces

Name
OutputMailOptions (IMailOptions)
OutputFTPOptions (IFTPOptions)
InputRegionOptions (IRegionOptions)
Filters (IImageFilters)
OutputPrinterOptions (IPrinterOptions)
InputObjectTextOptions (IObjectTextOptions)
TextFileOptions (ITextFile)
AutoScrollOptions (IAutoScrollOptions)
DelayOptions (IDelayOptions)
InputWindowOptions (IWindowOptions)


ITextCapture Read-Only Properties

Name	Description	
LastError (snagError)	Default:	serrNone
	Remarks :	Holds the last error set in the Snagit COM server. If an application subscribes to the OnStateChange event of ICaptureEvents interface, this property can be read to see what the error was on a scsCaptureFailed state change. Resets to serrNone when a new call to the Capture method is made.
IsCaptureDone (Boolean)	Default:	False
	Remarks :	After a call to the Capture method has been made, tests when the capture has been completed, whether it failed or succeeded.  This call blocks and performs a polling to see when the capture state goes back to scsIdle.
LastFileWritten (String)	Default:	"" (empty string)
	Remarks :	If the last capture used stoFile as the output mode, then obtains the whole path for the resultant image file of the last capture.
CaptureState (snagCaptureState)	Default:	scsIdle
	Remarks :	Returns the current capture state set by the Snagit COM server. Instead of subscribing to the event interface, use to poll what is going on with the Snagit server.
LastCaptureSucceeded (Boolean)	Default:	True
	Remarks :	Returns True if the last capture attempt was successful. Returns False if the last capture attempt was not successful.

ITextCapture2



The **ITextCapture2** interface is the base capture interface for text captures with added support for RTF capture. All the text capture actions and settings are contained within it.

ITextCapture2 Methods

Name	Description	
Capture	Action:	Invokes a text capture.
	Remarks:	<p>Moves the Snagit COM server into a busy state while the capture is being performed. If an expired evaluation version of Snagit is used, the capture fails. For more information, see Evaluation Version Information.</p> <p> This is always non-blocking except when the output mode is set to stoFile with the Capture Preview window disabled, so in order to know when a capture finishes either subscribe to the _ICaptureEvents or poll the IsCaptureDone property.</p>

ITextCapture2 Properties


Name	Description	
Input (snagTextInput)	Default:	stiWindow
	Remarks:	Changes the input mode for the next capture performed. The input mode determines where the Snagit COM server gets the captured text from.
Output (snagTextOutput)	Default:	stoFile
	Remarks:	Changes the output mode for the next capture performed. The output mode determines what the Snagit COM server does with the resulting text from the capture.
NotificationType (snagNotificationType)	Default:	sntNone
	Remarks:	Sets what messages the Snagit COM server displays. For more information on the types of notifications see the description of the snagNotificationType enumeration.
EnablePreviewWindow (Boolean)	Default:	False
	Remarks:	Enables the use of the Capture Preview window for the next capture. If set to True, this allows the user to see the images they capture before finishing output. This allows them to change Input and Output options if necessary and avoids creating files that must be deleted or overwritten.
ForegroundPreview	Default:	True

(Boolean)	Remarks:	When enabled, this forces the Capture Preview window into the foreground (with focus) after making a capture.  Only valid if EnablePreviewWindow is set to True.
UseMagnifierWindow (Boolean)	Default:	True
	Remarks:	When enabled, a zoom magnifier window appears in the area around the cursor when defining precise region captures.  Only valid for Region (siiRegion) input mode.

ITextCapture2 Contained Interfaces

Name
OutputMailOptions (IMailOptions)
OutputFTPOptions (IFTPOptions)
InputRegionOptions (IRegionOptions)
Filters (IImageFilters)
OutputPrinterOptions (IPrinterOptions)
InputObjectTextOptions (IObjectTextOptions)
TextFileOptions2 (ITextFile2)
AutoScrollOptions (IAutoScrollOptions)
DelayOptions (IDelayOptions)
InputWindowOptions (IWindowOptions)

ITextCapture2 Read-Only Properties

Name	Description	
LastError (snagError)	Default:	serrNone
	Remarks:	Holds the last error set in the Snagit COM server. If an application subscribes to the OnStateChange event of ICaptureEvents interface, this property can be read to see what the error was on a scsCaptureFailed state change. Resets to serrNone when a new call to the Capture method is made.
IsCaptureDone (Boolean)	Default:	False
	Remarks:	After a call to the Capture method has been made, tests when the capture has been completed, whether it failed or succeeded.  This call blocks and performs a polling to see when the capture state goes back to scsIdle.
LastFileWritten (String)	Default:	"" (empty string)

	Remarks :	If the last capture used stoFile as the output mode, then obtains the whole path for the resultant image file of the last capture.
CaptureState (snagCaptureState)	Default:	scsIdle
	Remarks :	Returns the current capture state set by the Snagit COM server. Instead of subscribing to the event interface, use to poll what is going on with the Snagit server.
LastCaptureSucceeded (Boolean)	Default:	True
	Remarks :	Returns True if the last capture attempt was successful. Returns False if the last capture attempt was not successful.

Input: General

The following section describes the settings common to multiple input modes.

- ▶ [IAutoScrollOptions](#)
- ▶ [IDelayOptions](#)
- ▶ [IWindowOptions](#)
- ▶ [IRegionOptions](#)

IAutoScrollOptions

The **IAutoScrollOptions** interface contains the settings for a scrolling capture. The IAutoScrollOptions settings are only valid when the input mode of the capture object is set to siiWindow or siiRegion on an image capture object and stoWindow or stoRegion on a text capture object.

IAutoScrollOptions Properties

Name	Description	
AutoScrollMethod (snagAutoScrollMethod)	Default:	sasmNone
	Remarks:	Sets the type of auto-scrolling to perform on the next capture. See (snagAutoScrollMethod) for more information on the possible options.
ForegroundScrollingWindow (Boolean)	Default:	True
	Remarks:	The next capture performed brings the scrolling window selected for the capture to the foreground and displays the window while scrolling.
Delay (Long)	Default:	0
	Valid:	0 - 30000
	Remarks:	The time in seconds to wait between foregrounding the scrolling window and capturing.
StartingPosition (snagAutoScrollStartingPosition)	Default:	sasspTopLeft
	Remarks:	The position the scrolling should start from. For more information, see snagAutoScrollStartingPosition .

IDelayOptions

The **IDelayOptions** interface allows for a capture to be called after a specified number of seconds.

IDelay Options Properties

Name	Description	
EnableDelayedCapture (Boolean)	Default:	False
	Remarks:	If set to True, the Snagit COM server waits for the period of time specified in the DelaySeconds property before actually performing the capture. This can be useful if you want to capture the contents of a program or context menu. Otherwise, a call to the Capture method of the capture object performs the capture immediately.
DelaySeconds (Long)	Default:	10
	Remarks:	Specifies the number of seconds to delay before performing a capture. This property is ignored if EnableDelayedCapture is set to False.
EnableCountdownWindow (Boolean)	Default:	True
	Remarks:	If set to True a window displays with a countdown of the number of seconds left before the capture takes place. This property is ignored if EnableDelayedCapture is set to False.

IWindowOptions

The **IWindowOptions** interface contains the settings for use when capturing a window. These options are only valid when using siiWindow or stiWindow as the input type.



IWindowOptions Properties

Name	Description	
SelectionMethod (snagWindowSelectionMethod)	Default:	swsmInteractive allows the user to choose a window during capture
	Remarks:	Specifies the method used to select the window for capture.
Handle (String)	Default:	0 (Long)
	Remarks:	Specifies the window handle of the window to capture.
XPos (String)	Default:	0 (Long)
	Remarks:	Specifies the X coordinate of a point on the screen. Used with the Y coordinate to capture the window under the point.
YPos (String)	Default:	0 (Long)
	Remarks:	Specifies the Y coordinate of a point on the screen. Used with the X coordinate to capture the window under the point.

IRegionOptions

The **IRegionOptions** interface contains all the settings for a Region capture (input mode set to `siiRegion` or `stiRegion`). These options are only valid when using `siiRegion` or `stiRegion` as the input type.

IRegionOptions Properties

Name	Description	
SelectionMethod (snagRegionSelectionMethod)	Default:	<code>srsmlInteractive</code> – interactively drag out a region
	Remarks:	Sets the type of region capture to perform.
Height (Long)	Default:	240
	Valid:	Positive integer
	Remarks:	Sets the height for the rectangular region to capture.
StartX (Long)	Default:	0
	Valid:	Positive integer
	Remarks:	Sets the starting X coordinate in pixels (starting from the left side of the screen) of the rectangular region to capture.  This property is ignored if <code>UseStartPosition</code> is set to <code>False</code> .
StartY (Long)	Default:	0
	Valid:	Positive integer
	Remarks:	Sets the starting Y coordinate in pixels (starting from the top of the screen) of the rectangular region to capture.  This property is ignored if <code>UseStartPosition</code> is set to <code>False</code> .
UseStartPosition (Boolean)	Default:	<code>False</code>
	Remarks:	When set to <code>True</code> the capture is performed with no user interactivity. When the Capture method is called on the capture object, the rectangle defined by the Width, Height, StartX, and StartY positions are captured. If this is set to <code>False</code> , then the user interacts with a red rectangle of the dimensions defined by the Width and Height properties that they can place over the area of the screen they wish to capture.
Width (Long)	Default:	320
	Valid:	Positive integer
	Remarks:	Sets the width of the rectangular region to capture.

Input: Image

The following section describes the options that allow access to the input settings when performing an image capture.

- ▶ [IClipboardOptions](#)
- ▶ [IExtendedWindowOptions](#)
- ▶ [IMenuOptions](#)

► [ITWAINOptions](#)

IClipboardOptions

Use the **IClipboardOptions** interface to set options related to full-screen DOS and Clipboard capturing inputs.

IClipboardOptions Properties

Name	Description	
WidthInPixels (Long)	Default:	640
	Remarks:	Controls the width (in pixels) of Full-Screen DOS or Clipboard captured images. Setting this value to zero tells Snagit to use the Windows desktop width and height for the image dimensions.

IExtendedWindowOptions

The **IExtendedWindowOptions** interface contains all the settings for an extended window capture. Extended window capture allows you to resize a window to any width/height before capturing (potentially bigger than the screen). The window is restored to its original width/height after capture is completed. You can also use this option to capture a window partially off the screen.

 **These options are only valid under Windows XP and Vista** with an image capture object using `siiExtendedWindow` as the input mode of an image capture object.

IExtendedWindowOptions Properties

Name	Description	
UseSpecifiedCaptureSize (Boolean)	Default:	True
	Remarks:	<ul style="list-style-type: none"> ► When <code>UseSpecifiedCaptureSize</code> is False, the Capture Preview window always appears to the user. ► When <code>UseSpecifiedCaptureSize</code> is True and <ul style="list-style-type: none"> ■ <code>EnablePreview</code> is False, the window captured is sized to the width and height parameters below. ■ <code>EnablePreview</code> is True, the extended window Capture Preview window appears with the initial values set to the width and height parameters below instead of the original width and height of the window (the user can change the values).
Width (Long)	Default:	800
	Valid:	Positive integer
	Remarks:	The width to force the window to before making the capture.
Height (Long)	Default:	600
	Valid:	Positive integer
	Remarks:	The height to force the window to before making the capture.
EnablePreview (Boolean)	Default:	True

	Remarks:	The user can interact with and dynamically set the width and height for the extended window capture. This property has no effect if UseSpecifiedCaptureSize is false; the Capture Preview window is <i>always</i> shown in this case.
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IMenuOptions

The **IMenuOptions** interface contains all the settings for a Menu capture (input mode set to siiMenu). These options are only valid when using siiMenu as the input mode for an image capture object.

IMenuOptions Properties

Properties	Description	
CaptureCascaded (Boolean)	Default:	False
	Remarks:	When set to True the current menu and all its parent menus are included in the capture. When set to False only the current menu is included in the capture.
IncludeBar (Boolean)	Default:	False
	Remarks:	<ul style="list-style-type: none"> ▶ When set to True the menu bar above the drop-down menu is included in the capture. ▶ When set to False the menu bar is not included in the capture.

ITWAINOptions

The **ITWAINOptions** interface contains all the settings for a TWAIN capture (input mode set to siiTwain). These options are only effective when using siiTwain as the input mode for an image capture object. Otherwise they are ignored.

ITWAINOptions Methods

Name	Description	
ShowSelectionDialog (Long IParentHandle, Boolean dialogAccepted)	Action:	Immediately displays a TWAIN device selection dialog to the user. If the user clicks OK in the dialog, the TWAIN device selected in the dialog becomes the selected TWAIN device for the Snagit capture object.
	Parameters :	[in] IParentHandle (Long): Handle to windows (hwnd) in 32-bit integer format. If handle is not available set value to 0. [out] dialogAccepted (Boolean): True if the user clicked OK to select a TWAIN device and False if the user clicked Cancel .
	Remarks:	If this dialog is shown to the user and a TWAIN device is selected, it has no affect unless the Input of the image capture object is set to siiTwain.

ITWAINOptions Properties

Name	Description	
Source (String)	Default:	"" (empty string)
	Remarks:	Specifies the TWAIN source to use by name.

Input: Text

The following section describes the [IObjectTextOptions](#) that allow access to the input settings when performing a text capture.

IObjectTextOptions

The **IObjectTextOptions** interface contains all the settings for Text Object captures (when stoObject is set as the input mode). These options are only valid when using stoObject as the input mode for a text capture object.

IObjectTextOptions Properties

Name	Description	
CaptureDescription (Boolean)	Default:	True
	Remarks :	<ul style="list-style-type: none"> ▶ When set to True the Windows Object Description is included in the text capture. ▶ When set to False it is excluded. 📌 This property is ignored if IncludePropertyNames is set to False.
CaptureName (Boolean)	Default:	True
	Remarks :	<ul style="list-style-type: none"> ▶ When set to True the Windows Object Name is included in the text capture. ▶ When set to False it is excluded. 📌 This property is ignored if IncludePropertyNames is set to False.
CaptureValue (Boolean)	Default:	True
	Remarks :	<ul style="list-style-type: none"> ▶ When set to True the value associated with the object is included in the text capture. ▶ When set to False it is excluded. 📌 This property is ignored if IncludePropertyNames is set to False.
IncludePropertyNames	Default:	True

(Boolean)	Remarks :	<ul style="list-style-type: none"> ▶ When set to True the capture tries to include any of the properties CaptureDescription, CaptureName, or CaptureValue set to True. ▶ When set to False, none of the properties are included and the values have no effect on the capture.
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Output: General

The following section describes the settings shared between multiple output types.

- ▶ [IFTPOptions](#)
- ▶ [IMailOptions](#)
- ▶ [IPrinterOptions](#)

IFTPOptions

The **IFTPOptions** interface is used when the output is set to sioFTP or stoFTP. The capture image or text is sent to an FTP server. At a minimum, the server and filename must be set in order to use FTP output.

IFTPOptions Properties

Name	Description	
Server (String)	Default:	"" (empty string)
	Remarks:	FTP server to send the file to. This does not need the "ftp://" prefix.
Port (Long)	Default:	21
	Remarks:	The port on the FTP server to connect to.
RemotePath (String)	Default:	"" (empty string)
	Remarks:	Path to a directory on the remote server to put the output file. Can be either relative or absolute (but must exist.)
UsePassiveFTP (Boolean)	Default:	False
	Remarks:	Passive FTP can help with transfers through firewalls.
EnableProgressDialog (Boolean)	Default:	False
	Remarks:	Displays a dialog detailing the status of the transfer (connecting to server, authenticating, etc.)
UseAutomaticFileNaming (Boolean)	Default:	False
	Remarks:	File is named automatically to prevent overwriting other files. Numbers are appended to the end of the Filename, starting with 1. Files of different types (extensions) have separate numbering.
SequenceLimit (Long)	Default:	0
	Remarks:	Limits the number of auto-named files stored on the FTP server (oldest file will be deleted). Use 0 for no limit.
Filename (String)	Default:	"" (empty string)
	Remarks:	File name to use if UseAutomaticFileNaming is false, or the <i>prefix</i> of the file name if UseAutomaticFileNaming is true.

UseTempFileReplace (Boolean)	Default:	True
	Remarks:	If True, the file is uploaded under a temporary name then renamed to the appropriate output file name (instead of uploading under the output file name directly).
ServerRequiresAuthentication (Boolean)	Default:	False
	Remarks:	Use with UserName and Password.
UserName (String)	Default:	"" (empty string)
	Remarks:	Username on the FTP server (if it requires authentication). Use with ServerRequiresAuthentication.
Password (String)	Default:	"" (empty string)
	Remarks:	Password on the FTP server (if it requires authentication). Use with ServerRequiresAuthentication.
UseProxyServer (Boolean)	Default:	False
	Remarks:	Use this if you must route your FTP transfers through a proxy server.
ProxyServer (String)	Default:	"" (empty string)
	Remarks:	Specifies both the proxy server name and the port. The format is "server:port". Make sure to set UseProxyServer.

IMailOptions

The **IMailOptions** interface is for setting email output related items. Either all information must be specified and the email is sent immediately, or the user is prompted for all information.

IMailOptions Properties

Name	Description	
PromptForSettings (Boolean)	Default:	False
	Remarks:	If False, name, address, subject, and text must be specified by the programmer. If True, the user's email client is shown and the information is filled in by the user. Setting other values has no effect when this is True.
Name (String)	Default:	"" (empty string)
	Remarks:	The sender's name for the e-mail.
Address (String)	Default:	"" (empty string)
	Remarks:	Send the attached file to this email address.
Subject (String)	Default:	"" (empty string)
	Remarks:	The subject of the email.
MessageText (String)	Default:	"" (empty string)
	Remarks:	The body of the email message.

IPrinterOptions

The **IPrinterOptions** interface is used with printer output. If UseDefault:Printer is set to True then any other values set programmatically by SetData or by the user with ShowSelectionDialog are ignored.


IPrinterOptions Methods

Name	Description	
GetData (String PrinterName, String DriverName, String Port)	Action:	Retrieves data about the currently selected printer.
	Parameters:	<ul style="list-style-type: none"> ▶ [out] PrinterName (String): the name of the selected printer. ▶ [out] DriverName (String): the name of the driver installed for the printer. ▶ [out] Port (String): the port the selected printer resides on.
SetData (String PrinterName, String DriverName, String Port)	Action:	Sets the printer for the Snagit capture object to use.
	Parameters:	<ul style="list-style-type: none"> ▶ [in] PrinterName (String): the name of the printer to use. ▶ [in] DriverName (String): the name of the printer driver to use. ▶ [in] Port (String): the port the printer resides on.
	Remarks:	If UseDefault:Printer is set to True, a Data set with this call is overridden.
ShowSelectionDialog (Long IParentHandle, Boolean dialogAccepted)	Action:	Immediately displays a printer selection dialog to the user. If the user clicks OK in the dialog, the printer selected in the dialog becomes the selected printer for the Snagit capture object. The dialog also allows the user to configure the printer properties for special settings, such as print quality.
	Parameters:	<ul style="list-style-type: none"> ▶ [in] IParentHandle (Long): Handle to windows (hwnd) in 32-bit integer format. If handle is not available set value to 0. ▶ [out] dialogAccepted (Boolean): True if the user clicked Ok to select a new printer and False if the user clicked Cancel.
	Remarks:	If the user clicks OK on the printer selection dialog, any data set by a call to SetData is overwritten. If UseDefault:Printer is set to True, any selection made by the user is ignored.

IPrinterOptions Properties

The following table contains information about the IPrinterOptions Properties.

Name	Description	
UseDefault:Printer	Default:	True

(Boolean)	Remarks:	If set to True, the capture prints to the system default printer.  This property, when set to True, overrides any other printer settings.
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Output: Image

The following section describes the settings for outputting images.

- ▶ [IImageFile](#)
- ▶ [IImageFile2](#)
- ▶ [IPrinterPageLayoutOptions](#)

IImageFile


The **IImageFile** interface allows for the configuration of an output image file. To be safe, you should always just call **LoadImageDefaults** after changing the **FileType** property.




IImageFile Methods

Name	Description	
LoadImageDefaults (snagImageFileType newFileType)	Action:	Sets the file type and loads the default attributes for that type (subtype, quality, etc)
	Parameters: :	[in] newFileType (snagImageFileType): The file type to load the default settings for.
ShowFileSettingDialog (Long IParentHandle, snagImageFileType newFileType, Boolean dialogAccepted)	Action:	Shows the dialog for a given file type and sets the file type if the user accepts the dialog.
	Parameters: :	<ul style="list-style-type: none"> ▶ [in] IParentHandle (Long): Handle to windows (hwnd) in 32-bit integer format. If handle is not available, set value to 0. ▶ [out] dialogAccepted (Boolean): <ul style="list-style-type: none"> ○ True if the user clicked OK to set the new file type settings. ○ False if the user clicked Cancel.

IImageFile Properties

The following table contains information about the IImageFile Properties.

Name	Description	
FileType (snagImageFileType)	Default:	siftBMP – Windows Bitmap
	Remarks:	The file format of the output file (BMP, JPEG, etc).  Use LoadImageDefaults() or set all other appropriate parameters to avoid unexpected results.
ColorDepth	Default:	sicdAuto

(snagImageColorDepth)	Remarks:	Number of bits used for color encoding. See snagImageColorDepth for more information.
FileNamingMethod (snagOutputFileNamingMethod)	Default:	sofnmPrompt – Prompt user for filename
	Remarks:	Method for naming the output file. See snagOutputFileNamingMethod for more information.
Filename (String)	Default:	“SNAGIT”
	Remarks:	Specifies the output filename to use.  This property is only used if FileNamingMethod is set to sofnmFixed.
Directory (String)	Default:	"" (empty string)
	Remarks:	Sets the directory for the output file.  If FileNamingMethod is not set to sofnmPrompt, the Snagit COM server fails if this property is not set.
AutoFilePrefix (String)	Default:	“SNAG-“
	Remarks:	When FileNamingMethod is set to sofnmAuto, this string is the prefix of the automatically named files generated by image captures.
AutoNumPrefixDigits (Long)	Default:	4
	Remarks:	When FileNamingMethod is set to sofnmAuto, this property specifies the number of digits to include in the auto named output file names generated by image captures.
FileSubType (snagImageFileSubType)	Default:	-indeterminate-
	Remarks:	Further specifies the type of image file to save. Do not assume a default subtype. Choose a compatible subtype, call LoadImageDefaults, or use the ShowFileSettingDialog() function.
Quality (Long)	Default:	25
	Valid:	1 - 100
	Remarks:	Sets the quality of the compression on the image file. A higher quality setting means larger file sizes but better image quality.  This property is only valid if the FileType property is set to siftJPEG.
ProgressiveOption (Long)	Default:	0 – 12
	Remarks:	Sets the number of scans for a progressively encoded image. A value of 0 means not progressive. This property is only valid if the FileType property is set to siftJPEG.



ImageFile2




The **ImageFile2** interface allows for the configuration of an output image file. To be safe, you should always just call **LoadImageDefaults** after changing the **FileType** property.

ImageFile2 Methods

Name	Description	
LoadImageDefaults (snagImageFileType newFileType)	Action:	Sets the file type and loads the Default: attributes for that type (subtype, quality, etc)
	Parameters:	[in] newFileType (snagImageFileType): The file type to load the default settings for.
ShowFileSettingDialog (Long IParentHandle, snagImageFileType newFileType, Boolean dialogAccepted)	Action:	Shows the dialog for a given file type and sets it if the user accepts the dialog.
	Parameters:	<ul style="list-style-type: none"> ▶ [in] IParentHandle (Long): Handle to windows (hwnd) in 32-bit integer format. If handle is not available, set value to 0. ▶ [out] dialogAccepted (Boolean): <ul style="list-style-type: none"> ○ True if the user clicked OK to set the new file type settings. ○ False if the user clicked Cancel.

ImageFile2 Properties

Name	Description	
FileType (snagImageFileType)	Default:	siftBMP – Windows Bitmap
	Remarks:	<p>The file format of the output file (BMP, JPEG, etc).</p> <p> Use LoadImageDefaults() or set all other appropriate parameters to avoid unexpected results.</p>
TransparentColorForGIF (Long)	Default:	RGB(255,255,255)
	Valid:	Any RGB value. See Colors in Appendix B for more information.
	Remarks:	This is the color set as the transparent color in the GIF file. For use only when saving GIF files with UseGIFTransparency set to True.
ColorDepth (snagImageColorDepth)	Default:	sicdAuto
	Remarks:	Number of bits used for color encoding. See snagImageColorDepth for more information.
FileNamingMethod (snagOutputFileNamingMethod)	Default:	sofnmPrompt – Prompt user for filename
	Remarks:	Method for naming the output file. See snagOutputFileNamingMethod for more information.
Filename (String)	Default:	“SNAGIT”
	Remarks:	<p>Specifies the output filename to use.</p> <p> This property is only used if FileNamingMethod is set to sofnmFixed.</p>
Directory (String)	Default:	“” (empty string)

	Remarks:	Sets the directory where the output file will be created.  If FileNamingMethod is not set to sofnmPrompt, the Snagit COM server fails if this property is not set.
AutoFilePrefix (String)	Default:	"" (empty string)
	Remarks:	Sets the directory for the output file.  If FileNamingMethod is not set to sofnmPrompt, the Snagit COM server fails if this property is not set.
AutoNumPrefixDigits (Long)	Default:	"SNAG-"
	Remarks:	When FileNamingMethod is set to sofnmAuto, this string is the prefix of the automatically named files generated by image captures.
FileSubType (snagImageFileSubType)	Default:	-indeterminate-
	Remarks:	Further specifies the type of image file to save. Do not assume a default subtype. Choose a compatible subtype, call LoadImageDefaults, or use the ShowFileSettingDialog() function.
Quality (Long)	Default:	25
	Valid:	1 - 100
	Remarks:	Sets the quality of the compression on the image file. A higher quality setting means larger file sizes but better image quality.  This property is only valid if the FileType property is set to siftJPEG.
ProgressiveOption (Long)	Default:	0 – 12
	Remarks:	Sets the number of scans for a progressively encoded image. A value of 0 means not progressive. This property is only valid if the FileType property is set to siftJPEG.
UseGIFTransparency (Boolean)	Default:	False
	Remarks:	Whether to save a GIF file with a transparent color. The transparent color is set with TransparentColorForGIF.

IPrinterPageLayoutOptions

The **IPrinterPageLayoutOptions** interface is used to specify how to format the output going to the printer. These options are only used when either sioPrinter or stoPrinter is selected as the output mode for the capture object.

IPrinterPageLayoutOptions Properties

Name	Description	
Height (Long)	Default:	4000
	Remarks:	The height, in thousandths of an inch, of the capture as it will appear on the printed page.

LayoutPosition (snagPlacement)	Default:	spLeftTop
	Remarks:	Sets the placement of the capture as it appears on the printed page. See snagPlacement for the possible options.
MarginBottom (Long)	Default:	0
	Remarks:	Sets the minimum distance, in thousandths of an inch, placed between the bottom edge of the printed page and the bottom of the capture.
MarginLeft (Long)	Default:	0
	Remarks:	Sets the minimum distance, in thousandths of an inch, placed between the left edge of the printed page and the left side of the capture.
MarginRight (Long)	Default:	0
	Remarks:	Sets the minimum distance, in thousandths of an inch, placed between the right edge of the printed page and the right side of the capture.
MarginTop (Long)	Default:	0
	Remarks:	Sets the minimum distance, in thousandths of an inch, placed between the top edge of the printed page and the top of the capture.
Scale (Long)	Default:	100
	Remarks:	Sets the amount, as a percentage, to scale the capture on the printed page.
ScalingType (snagPrintScale)	Default:	spsFixedSize
	Remarks:	Sets the type of scaling to perform. See snagPrintScale for the possible options.
Width (Long)	Default:	4000
	Remarks:	The width, in thousandths of an inch, of the capture as it appears on the printed page.

Output: Text

The following section describes settings for outputting text.

ITextFile

The **ITextFile** interface contains all the settings for output text file (stoFile). The file, regardless of which file naming method is used, has a .txt extension. These options are only used when using stoFile as the output mode for a text capture object.

ITextFile Properties

Name	Description	
AddInteractiveAnnotation (Boolean)	Default:	False
	Remarks:	Provides the user with a dialog to set the annotation text after the capture has finished.
AnnotationPrefix (String)	Default:	">>>" (empty string)
	Remarks:	The string to add before the annotation. This string differentiates the captured text from the annotation text.
AppendToFile (Boolean)	Default:	False




	Remarks:	<ul style="list-style-type: none"> ▶ If set to True, the captured text is appended to the output file if it already exists. If it does not exist, then it is created and the captured text added to it. ▶ If set to False, the Snagit COM server overwrites the existing file with the new capture data or creates a new file with the captured text added to it. 📌 If FileNamingMethod is set to sofnmAuto then this property is ignored.
AutoFilePrefix (String)	Default:	"SNAG-"
	Remarks:	When FileNamingMethod is set to sofnmAuto, this string is the prefix of the automatically named files generated by text captures.
AutoNumPrefixDigits (Long)	Default:	4
	Remarks:	When FileNamingMethod is set to sofnmAuto, this string is the prefix of the automatically named files generated by text captures.
Directory (String)	Default:	"" (empty string)
	Valid:	An existing directory on the system or "" (empty string)
	Remarks:	Sets the directory where the output file will be created. 📌 If FileNamingMethod is not set to sofnmPrompt, the Snagit COM server fails if this property is not set.
Filename (String)	Default:	"SNAGIT"
	Remarks:	Specifies the output filename to use. 📌 This property is only used if FileNamingMethod is set to sofnmFixed.
FileNamingMethod (snagOutputFileNamingMethod)	Default:	sofnmPrompt
	Remarks:	Specifies the method to use for naming the output text files. See snagOutputFileNamingMethod for the possible options.

ITextFile2

The **ITextFile2** interface contains all the settings for output text file (stoFile). The file, regardless of which file naming method is used, has a .txt extension. These options are only used when using stoFile as the output mode for a text capture object.

ITextFile2 Properties

Name	Description	
AddInteractiveAnnotation (Boolean)	Default:	False
	Remarks:	Provides the user with a dialog to set the annotation text after the capture has finished.
AnnotationPrefix (String)	Default:	">>>" (empty string)
	Remarks:	The string to add before the annotation. This string differentiates the captured text from the annotation text.

AppendToFile (Boolean)	Default:	False
	Remarks:	<p>► If set to True, the captured text is appended to the output file if it already exists. If it does not exist, then it is created and the captured text added to it.</p> <p>► If set to False, the Snagit COM server overwrites the existing file with the new capture data or creates a new file with the captured text added to it.</p> <p> If FileNamingMethod is set to sofnmAuto then this property is ignored.</p>
AutoFilePrefix (String)	Default:	"SNAG-"
	Remarks:	When FileNamingMethod is set to sofnmAuto, this string is the prefix of the automatically named files generated by text captures.
AutoNumPrefixDigits (Long)	Default:	4
	Remarks:	When FileNamingMethod is set to sofnmAuto, this string is the prefix of the automatically named files generated by text captures.
Directory (String)	Default:	"" (empty string)
	Valid:	An existing directory on the system or "" (empty string)
	Remarks:	<p>Sets the directory where the output file will be created.</p> <p> If FileNamingMethod is not set to sofnmPrompt, the Snagit COM server fails if this property is not set.</p>
Filename (String)	Default:	"SNAGIT"
	Remarks:	<p>Specifies the output filename to use.</p> <p> This property is only used if FileNamingMethod is set to sofnmFixed.</p>
FileNaeingMethod (snagOutputFileNamingMethod)	Default:	sofnmPrompt
	Remarks:	Specifies the method to use for naming the output text files. See snagOutputFileNamingMethod for the possible options.
UseFormattedText (Boolean)	Default:	False
	Remarks:	<p>Determines whether to use RTF format or plain text.</p> <p>By default all COM text captures are TXT, so existing code using the COM server is not affected by adding RTF capture.</p>

Filters: Image

The following section describes settings for image modification when capturing.

- [ImageAnnotation](#)
- [ImageBorder](#)
- [ImageCaptionOptions](#)

- ▶ [IImageColorConversion](#)
- ▶ [IImageColorEffects](#)
- ▶ [IImageColorSubstitution](#)
- ▶ [IImageFilters](#)
- ▶ [IImageResolution](#)
- ▶ [IImageScale](#)
- ▶ [IImageTrim](#)
- ▶ [IImageWatermark](#)

ImageAnnotation

The **IImageAnnotation** interface allows for overlaying user or system captions on the captured image. The length of the string is limited by width of the image or by the width of the printed page. The text is truncated if it is too long.

ImageAnnotation Properties

Name	Description	
EnableCaption (Boolean)	Default:	False
	Remarks:	This enables the text caption.
PromptForCaption (Boolean)	Default:	False
	Remarks:	Prompts the user for the text to put in the caption. This property is ignored if EnableCaption is set to False.
CaptionText (String)	Default:	"" (empty string)
	Remarks:	The text to display for the caption.
IncludeComputerName (Boolean)	Default:	False
	Remarks:	Appends the computer name to the caption.
IncludeUserName (Boolean)	Default:	False
	Remarks:	Appends the user name of the current user to the caption
IncludeTimeDate (Boolean)	Default:	False
	Remarks:	Appends the time and/or date to the system caption.
TimeDateDisplayOrder (snagTimeDateOrder)	Default:	stdoTimeThenDate
	Remarks:	This defines if, and in what order, to display the time and date.
UseWindowsTimeFormat (Boolean)	Default:	True
	Remarks:	Use the current Windows standard format for time.
UseWindowsDateFormat (Boolean)	Default:	True
	Remarks:	Use the current Windows standard format for the date.
CustomTimeFormat (String)	Default:	"" (empty string)
	Remarks:	Text representing the format of the time, such as "h:mm:ss tt".
CustomDateFormat (String)	Default:	"" (empty string)
	Remarks:	Text representing the format of the date, such as "M/d/yyyy".

PrintCaptionsAtPageBottom (Boolean)	Default:	True
	Remarks:	If set to True, the caption does not print over the image.

ImageAnnotation Contained Interfaces

Name
CaptionOptions (ImageCaptionOptions)
SystemCaptionOptions (ImageCaptionOptions)

ImageBorder

The **ImageBorder** interface is a filter that creates a border around the edge of an image. This filter may increase the size of the original captured image.

ImageBorder Properties

Name	Description	
EnableBorder (Boolean)	Default:	False
	Remarks:	Enables filter.
FrameOutsideImage (Boolean)	Default:	True
	Remarks:	Draw the border outside the bounds of the original image. If this value is set to True, the resulting image is larger than the original captured image.
Use3DEffect (Boolean)	Default:	True
	Remarks:	Use 3 colors to create a 3D effect.
TotalWidth (Long)	Default:	8
	Remarks:	The total width of the border in pixels.
ShadowWidth (Long)	Default:	2
	Valid:	0 to one-half the value of the total width.
	Remarks:	The width, in pixels, of the shadow effect.
MainColor (Long)	Default:	RGB(192, 192, 192)
	Valid:	Any RGB value. See Colors in Appendix B for more information.
	Remarks:	The default border color. This is the only color used if Use3DEffect is set to False.
HighlightColor (Long)	Default:	RGB(255, 255, 255)
	Valid:	Any RGB value. See Colors in Appendix B for more information.
	Remarks:	One of the components of the 3D effect for the border. This value is only used if Use3DEffect is set to True.
ShadowColor (Long)	Default:	RGB(128, 128, 128)
	Valid:	Any RGB value. See Colors in Appendix B for more information.

	Remarks:	One of the components of the 3D effect for the border. This value is only used if Use3DEffect is set to True.
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ImageCaptionOptions

The **ImageCaptionOptions** interface contains the settings for the text being displayed as a caption. These are options for changing the look of a caption overlaid on an image. Use [ImageAnnotation](#) to turn on captions.

ImageCaptionOptions Properties


Name	Description	
CaptionStyle (snagCaptionTextStyle)	Default:	sctsNormal
	Remarks:	Text style for caption.
UseTransparentBackground (Boolean)	Default:	False
	Remarks:	Hide the rectangle that the text is written on.
UseWordWrap (Boolean)	Default:	True
	Remarks:	If the text is too long for the image the text wraps to multiple lines.
TextColor (Long)	Default:	RGB(0, 255, 0)
	Valid:	Any RGB value. See Colors in Appendix B for more information.
	Remarks:	The color of the font.
BackgroundColor (Long)	Default:	RGB(0, 0, 0)
	Valid:	Any RGB value. See Colors in Appendix B for more information.
	Remarks:	The color of the background rectangle that the font is written on. This is not used if UseTransparentBackground is set to True.
ShadowColor (Long)	Default:	RGB(192, 192, 192)
	Valid:	Any RGB value. See Colors in Appendix B for more information.
	Remarks:	The color of the drop shadow for the font.
OutlineColor (Long)	Default:	RGB(255, 255, 255)
	Valid:	Any RGB value. See Colors in Appendix B for more information.
	Remarks:	The color that surrounds the font.
Placement (snagPlacement)	Default:	spCenterTop
	Remarks:	Where the text is placed on the captured image.

ImageCaptionOptions Contained Interfaces

Name
Font (ISelectedArea)

ImageColorConversion

The **ImageColorConversion** interface sets an image's color resolution during capture.

 When saving to a file, make sure options are compatible. For example, if you use the ColorDepth property, a GIF can not save 24 bit color.

ImageColorConversion Properties

Name	Description	
ConversionMethod (snagColorConversionMethod)	Default:	sccmNone
	Remarks:	<ul style="list-style-type: none"> ▶ By default (sccmNone), no color conversion occurs. ▶ If set to sccmCustom, the color depth and dither settings are used. ▶ If set to sccmMonochrome, the monochrome threshold is used.
MonochromeThreshold (Long)	Default:	50
	Valid:	0 – 100 (percentage)
	Remarks:	Determines the quantity of black and white that shows in the output image.
ColorDepth (snagImageColorDepth)	Default:	sicdAuto
	Remarks:	By default, Snagit matches the color depth of the image to the color depth of the current desktop.
DitherMethod (snagDitherMethod)	Default:	sdmNone
	Remarks:	Use to make the image look smoother during changes in color resolution. When changing an image to 256 colors or fewer, a number of dithering options are available.
DitherPalette (snagDitherMethod)	Default:	sdplIdentity
	Remarks:	The color set to use when changing an image to 256 colors or fewer.

ImageColorEffects

The **ImageColorEffects** interface is a collection of filters that modifies the colors of a captured image. Note that these ranges are different than those in the Snagit program.

ImageColorEffects Properties

Name	Description
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Brightness (Long)	Default:	0
	Valid:	-1000 to 1000
	Remarks:	Changes the intensity (brightness) of the selected image.
Contrast (Long)	Default:	0
	Valid:	-1000 to 1000
	Remarks:	Changes the contrast between light and dark portions of the selected image.
Hue (Long)	Default:	0
	Valid:	-360 to 360
	Remarks:	Changes the hue of colors in the selected image (similar to rotating a color wheel to select a different mixture of colors).
Saturation (Long)	Default:	0
	Valid:	-1000 to 1000
	Remarks:	Increases or decreases the saturation of colors in a selected image. Saturation is the quantity of a color in pixels, from gray at the lowest saturation to rich color in the highest.
Gamma (Long)	Default:	100
	Valid:	1 to 499
	Remarks:	Adjusts the intensity of colors in a selected graphic by changing the gamma constant used to map the intensity values. Gamma correction changes brightness using a logarithmic scale for visual perception. Gamma is a constant used to calculate the progression.

ImageColorSubstitution

The **ImageColorSubstitution** allows colors in the captured image to be replaced by other colors. You can add multiple rules for color substitution with the `AddColorSub` function. You may want to call `ClearColorSub()` between captures.

ImageColorSubstitution Properties

Name	Description	
ColorSubMethod (snagColorSubMethod)	Default:	scsmNone
	Remarks:	Use this method to substitute colors for other colors. See snagColorSubMethod for available options.

ImageColorSubstitution Methods

Name	Description	
AddColorSub (Long)	Action:	Adds a color substitution to the list.

OrigColor, Long NewColor, Long Accuracy, Boolean SwapColors)	Parameters:	<ul style="list-style-type: none"> ▶ [in] OrigColor (Long): The color to be replaced. ▶ [in] NewColor (Long): The color to replace the original color ▶ [in] Accuracy (Long): How close the colors should be to be considered the same ▶ [in] SwapColors (Boolean): should the colors be swapped
	Remarks:	The colors are RGB values. For more information, see Colors in Appendix B.
ClearColorSub ()	Action:	Clear the current list of substitutions.
ShowColorSubDialog (Long IParentHandle, Boolean dialogAccepted)	Action:	Immediately show the color substitution dialog.
	Parameters:	<ul style="list-style-type: none"> ▶ [in] IParentHandle (Long): Handle to windows (hwnd) in 32-bit integer format. If handle is not available, set value to 0. ▶ [out] dialogAccepted (Boolean): True if the user clicked OK to select a new color substitution, and False if the user clicked Cancel.

ImageFilters

The **ImageFilters** interface is the collection of interfaces for adjusting the captured image. ImageFilters has no properties itself. It is a container for all of the filter interfaces. Most filters can be used in combination, if the choices are compatible.

ImageFilters Contained Interfaces

Name
Watermark (IImageWatermark)
ColorConversion (IImageColorConversion)
Annotation (IImageAnnotation)
ColorEffects (IImageColorEffects)
ColorSubstitution (IImageColorSubstitution)
Resolution (IImageResolution)
Scale (IImageScale)
Border (IImageBorder)
Trim (IImageTrim)

ImageResolution

The **ImageResolution** interface sets the number of dots per inch (DPI) of the image. Some desktop publishing programs work better with some resolution settings. This adjustment has no effect on how the Snagit COM server displays or prints the image.

ImageResolution Properties

Name	Description	
UseAutoResolution (Boolean)	Default:	True
	Remarks:	Set to True, the Snagit COM server chooses the resolution. Set to False, the Snagit COM server uses a specified resolution (Resolution property).
Resolution (Long)	Default:	96
	Remarks:	This property sets the DPI for the capture.

ImageScale

The **ImageScale** interface resizes a captured image.

Rounded, or evenly proportioned percentage settings scale faster than irregular ones. Setting the scale value to a rounded percentage figure gives the best performance and makes the most accurate replica.

If you use a factor that is not a proportional (58 percent, for example), use the Smooth Scaling option to make the image look better on-screen.

ImageScale Properties





Name	Description	
ScaleMethod (snagImageScaleMethod)	Default:	sismNone
	Remarks:	See snagImageScaleMethod for more information.
UseSmoothScaling (Boolean)	Default:	True
	Remarks:	This makes scaled images look better by applying a small "smoothing" effect to the edges. This works with images scaled smaller than the original (50-90 percent, for example) and are used online.
ScaleBy (snagImageScaleBy)	Default:	sisbFactor
	Remarks:	See snagImageScaleBy for more information.
KeepAspectRatio (Boolean)	Default:	True
	Remarks:	Keeps the image aspect ratio fixed while changing the width or height.
FactorWidth (Long)	Default:	100
	Remarks:	Percentage of the original width.
FactorHeight (Long)	Default:	100
	Remarks:	Percentage of the original height.
Height (Long)	Default:	200
	Remarks:	Height, in pixels.
Width (Long)	Default:	320
	Remarks:	Width, in pixels.
Factor (Long)	Default:	0

	Remarks:	Percentage of the original width/height.
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ImageTrim

The **ImageTrim** interface allows edge pixels from an image to be removed. If the TrimMethod is set to stmAuto, none of the other values in this interface are used.

ImageTrim Properties




Name	Description	
TrimMethod (snagTrimMethod)	Default:	stmNone
	Remarks:	This property allows the selection of how the edge pixels are trimmed. See snagTrimMethod for available options.
Left (Long)	Default:	0
	Remarks:	The number of pixels to trim from the left of the image.  This only applies if the TrimMethod is set to stmManual.
Right (Long)	Default:	0
	Remarks:	The number of pixels to trim from the right of the image.  This only applies if the TrimMethod is set to stmManual.
Top (Long)	Default:	0
	Remarks:	The number of pixels to trim from the top of the image.  This only applies if the TrimMethod is set to stmManual.
Bottom (Long)	Default:	0
	Remarks:	The number of pixels to trim from the bottom of the image.  This only applies if the TrimMethod is set to stmManual.


ImageWatermark

The **ImageWatermark** interface allows the use of an image as a watermark in the captured image.

ImageWatermark Properties

Name	Description	
IncludeWatermark (Boolean)	Default:	False
	Remarks:	Set to True, a watermark is added in a fixed location in the graphic capture.
UseOverlay (Boolean)	Default:	False
	Remarks:	Set to True, the watermark is placed on top of the capture.
ImageFilename (String)	Default:	"" (empty string)
	Remarks:	Sets the filename of the image to use for the watermark.

Scale (Long)	Default:	15
	Valid:	1 - 100
	Remarks :	<p>Allows the watermark to be scaled down by a percentage before being added to the capture.</p> <p> In VB6, the "Scale" property is a reserved keyword, so you cannot use this property. Instead, use "ScaleSize". This can only be used with Snagit v8.1.0 or later.</p> <p> Example VB6 Code:</p> <pre>Set SnagImg = CreateObject("SNAGIT.ImageCapture") Dim watermark As SNAGITLib.IImageWatermark2 Set watermark = SnagImg.Filters.watermark watermark.ScaleSize = 60</pre>
OffsetHorizontal (Long)	Default:	10
	Valid:	0 - 100
	Remarks :	Allows the watermark to be offset horizontally by a percentage from the placement set in the Position property.
OffsetVertical (Long)	Default:	10
	Valid:	0 - 100
	Remarks :	Allows the watermark to be offset vertically by a percentage from the placement set in the Position property.
TransparentColor (Long)	Default:	RGB(128,128,128)
	Valid:	Any RGB value. For more information, see Colors in Appendix B.
	Remarks :	Any color in the watermark image matching the RGB value defined in this property will not be drawn over the capture and will therefore be transparent. This property is ignored unless UseTransparentColor is set to True.
UseTransparentColor (Boolean)	Default:	False
	Remarks :	Set to True, any colors in the watermark image that are the same as the color in the TransparentColor property become transparent in the output capture.
Position (snagPlacement)	Default:	spCenterBottom
	Remarks :	Sets the position where the watermark image shows up in the output capture. See snagPlacement for available options.
UseEmboss (Boolean)	Default:	False
	Remarks :	Set to True, the watermark image is embossed on the capture.
EmbossDirection (snagCompassDirection)	Default:	scdNorth
	Remarks :	<p>Sets the direction that light appears to come from for the 3D look of the watermark image emboss. See snagCompassDirection for available options.</p> <p> This property is ignored if UseEmboss is set to False.</p>
EmbossDepth (Long)	Default:	500

	Valid:	0 - 1000
	Remarks:	Sets the depth of the embossing. The higher the depth the more shadow in the embossing.  This property is ignored if UseEmboss is set to False.
KeepAspectRatio (Boolean)	Default:	True
	Remarks:	Set to True, any scaling performed on the watermark image retains the ratio between the width and height of the image stays the same as the original image.
UseSmoothScaling (Boolean)	Default:	True
	Remarks:	If set to True the watermark image will be smoothed using an interpolation method.

Filters: Text


The following section describes settings for Text modification when capturing.

- ▶ [ITextAnnotation](#)
- ▶ [ITextFilters](#)
- ▶ [ITextLayout](#)

ITextAnnotation

The **ITextAnnotation** interface is used to overlay a caption on an image.

ITextAnnotation Properties

Name	Description	
EnableCaption (Boolean)	Default:	False
	Remarks:	<ul style="list-style-type: none"> ▶ Set to True, some text accompanies the text capture. ▶ Set to False, all the properties contained in this interface are ignored and no annotation is added to the captured text.
PromptForCaption (Boolean)	Default:	False
	Remarks:	Prompts user for the caption text to use.
CaptionText (String)	Default:	"" (empty string)
	Remarks:	The text to use for the caption.  If PromptForCaption is set to True, the text stored in this property is ignored.
IncludeComputerName (Boolean)	Default:	False
	Remarks:	Add the name of the computer into the caption.
IncludeUserName (Boolean)	Default:	False
	Remarks:	Add the username to the caption.

IncludeTimeDate (Boolean)	Default:	False
	Remarks:	Appends the time and/or date to the system caption.
TimeDateDisplayOrder (snagTimeDateOrder)	Default:	stdoTimeThenDate
	Remarks:	This defines if, and in what order, the time and date are displayed.
UserWindowsTimeFormat (Boolean)	Default:	True
	Remarks:	Use the system's default time format.
UserWindowsDateFormat (Boolean)	Default:	False
	Remarks:	Use the system's default date format.
CustomTimeFormat (String)	Default:	"" (empty string)
	Remarks:	This text represents the format of the time, such as "h:mm:ss tt".
CustomDateFormat (String)	Default:	"" (empty string)
	Remarks:	This text represents the format of the date, such as "M/d/yyyy".

ITextFilters

The **ITextFilters** interface is a collection of filters that modify the text to output. Multiple filters may be used at the same time.


ITextFilters Contained Interfaces

Name
Annotation (ITextAnnotation)
Font (ISelectedArea)
Layout (ITextLayout)

ITextLayout

The **ITextLayout** interface changes the way the resulting text file is formatted.

ITextLayout Properties

Name	Description	
CollapseBlankColumns (Boolean)	Default:	False
	Remarks:	Removes redundant blanks between text in a line.
	:	 At one point, this property was spelled wrong- the 'n' and 'm' were reversed. As of Version 8.1.0 of Snagit, scripting languages (Automation/OLE/Dispatch languages) can use the correct spelling of CollapseBlankColumns.
Layout (snagTextLayout)	Default:	stlSpaceFormatted
	Remarks:	Defines how the text is laid out in the resulting capture. See snagTextLayout for available options.

RemoveBlankLines (Boolean)	Default:	False
	Remarks :	Set to True, removes blank lines from the captured text.
TextDelimiter (String)	Default:	“ ” ,”
	Remarks :	Puts a delimiter character (comma, tab, semicolon, etc) between columns in the captured text. Using delimiters can be helpful if the capture is destined for a spreadsheet or database file. Use with <code>stlColumnDelimited</code> .
UseWordWrap (Boolean)	Default:	False
	Remarks :	Allows you to specify Word Wrap for the Capture Preview window and for printing captured text. Word Wrap means that long text lines wrap from line to line, rather than continuing off-screen. This is helpful for formatting long text screens or text that was or exceeds screen width.

General

The following section describes general interfaces used in multiple ways throughout the COM server.

- ▶ [ISelectedArea](#)
- ▶ [ITextFont](#)

ISelectedArea

The **ISelectedArea** interface exposes the bounding box around the captured area. For a rectangular region, this is exactly the same. For an irregular region like a circle or freehand area, this is the bounding box around that (leftmost point in the area, rightmost, etc).

ISelectedArea Read-Only Properties

Name	Description	
StartX (Long)	Default:	0
	Remarks:	The X screen coordinate upper left corner of the bounding box around the captured area.
StartY (Long)	Default:	0
	Remarks:	The Y screen coordinate upper left corner of the bounding box around the captured area.
Height (Long)	Default:	0
	Remarks:	Sets the “em height” to use for the font. The system looks for the nearest match to the height specified that does not exceed it.
Weight (Long)	Default:	0
	Remarks:	Height of the bounding box around the area captured.

ITextFont

The **ITextFont** interface specifies font properties text output. Fonts also show in the Capture Preview window.



This is not useful for file or email output, because ANSI text files do not support special font types. This is good for clipboard or printer output.

ITextFont Properties

Name	Description	
Height (Long)	Default:	12
	Remarks:	Sets the “em height” to use for the font. The system looks for the nearest match to the height specified that does not exceed it.
Weight (Long)	Default:	400
	Valid:	0 - 1000
	Remarks:	Sets the weight for the font. The weight is the thickness of the font. 400 = normal text, 700 = bold text.
Italic (Long)	Default:	0
	Remarks:	Set to True, the text is written in italics.
Underline (Long)	Default:	0
	Remarks:	Set to True, the text is underlined.
PitchFamily (Long)	Default:	1
	Remarks:	For more information, see the LOGFONT struct in the Microsoft documentation.
CharacterSet (Long)	Default:	0
	Remarks:	For more information, see the LOGFONT struct in the Microsoft documentation.
FaceName (String)	Default:	“Arial”
	Remarks:	The face name such as “Courier”, “Times New Roman”, or “Sans Serif” to use.

Events

The following section describes the event interfaces that client programs may subscribe to.

_ICaptureEvents

The **_ICaptureEvents** interface is an event interface used for callbacks. A client program may choose to subscribe to events from the Snagit COM Object.

_ICaptureEvents Methods

Name	Description	
OnError	Action:	Occurs when an error occurs in the capture object.

	Parameter s:	[in] Error (snagError): The code for the error that occurred.
	DisplID:	1
OnStateChange	Action:	Occurs when a state change occurs in the capture object.
	Parameter s:	[in] State (snagCaptureState): The code for the state change that occurred.
	DisplID:	2
OnFileWritten	Action:	Occurs when a file is written to notify the client of the filename.
	Parameter s:	[in] Filename (String): The filename that was written out.
	DisplID:	3

Programming Reference: Enumerations

The following section describes pre-defined data objects used throughout the COM server.

- ▶ [snagAutoScrollMethod](#)
- ▶ [snagAutoScrollStartingPosition](#)
- ▶ [snagCaptionTextStyle](#)
- ▶ [snagCaptureState](#)
- ▶ [snagColorConversionMethod](#)
- ▶ [snagColorSubMethod](#)
- ▶ [snagCompassDirection](#)
- ▶ [snagDitherMethod](#)
- ▶ [snagDitherPalette](#)
- ▶ [snagError](#)
- ▶ [snagHotspotType](#)
- ▶ [snagImageColorDepth](#)
- ▶ [snagImageFileSubType](#)
- ▶ [snagImageFileType](#)
- ▶ [snagImageInput](#)
- ▶ [snagImageOutput](#)
- ▶ [snagImageScaleBy](#)
- ▶ [snagImageScaleMethod](#)
- ▶ [snagNotificationType](#)
- ▶ [snagOutputFileNamingMethod](#)
- ▶ [snagPlacement](#)
- ▶ [snagPrintScale](#)
- ▶ [snagRegionSelectionMethod](#)
- ▶ [snagTextInput](#)
- ▶ [snagTextLayout](#)
- ▶ [snagTextOutput](#)
- ▶ [snagTimeDateOrder](#)
- ▶ [snagTrimMethod](#)
- ▶ [snagWindowSelectionMethod](#)

snagAutoScrollMethod

Use to scrolling windows or regions automatically.

Name	Value	Description
sasmNone	0	Do not scroll a window/region automatically
sasmVertical	1	Scroll the captured window/region down vertically
sasmHorizontal	2	Scroll the captured window/region to the right horizontally
sasmBoth	3	Scroll the captured window/region both down and right

snagAutoScrollStartingPosition

Use to set the location to start scrolling in a window.

Name	Value	Description
sasspCurrent	0	Begin scrolling from the current position
sasspTop	1	Scroll to the top of the window before starting the auto scroll
sasspLeft	2	Scroll to the left of the window before starting the auto scroll
sasspTopLeft	3	Scroll both to the top and to the left before starting the auto scroll

snagCaptionTextStyle

Use to set the text style in captions placed in images.

Name	Value	Description
sctsNormal	0	Text captions on an image do not have a special effect
sctsDropShadow	1	Put a drop shadow on the caption in an image
sctsOutlinedShadow	2	Use an outlined shadow on the caption in the image

snagCaptureState

Use to set the state of the COM server during capture.

Name	Value	Description
scsIdle	0	The COM server is not currently taking a capture.
scsCaptureSucceeded	10	The capture completed successfully. This includes "Accept" if the Capture Preview window used.
scsCaptureFailed	11	The capture failed or was canceled.
scsBusy	12	The COM server is in the middle of the capture process, including waiting for user input for save dialogs, etc.

snagColorConversionMethod

Use to change image colors.

Name	Value	Description
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sccmNone	0	Do not use color conversion
sccmMonochrome	1	Change the captured image to monochrome (black and white)
sccmHalftone	2	The captured image is changed to a dithered monochrome (black and white) image
sccmGrayscale	3	Convert to grayscale
sccmCustom	4	Use the custom conversion method specified by the user (snagImageColorDepth)

snagColorSubMethod

Use to set how colors are replaced in an image.

Name	Value	Description
sccmNone	0	Leave the same colors in the image
sccmInvert	1	Invert the color values (255 – x for each of Red, Blue, Green)
sccmCustom	2	Use the values specified by the user

snagCompassDirection

Use to set direction specifications.

Name	Value	Description
scdNorth	0	Up
scdNorthEast	1	Up and right
scdEast	2	Right
scdSouthEast	3	Down and right
scdSouth	4	Down
scdSouthWest	5	Down and left
scdWest	6	Left
scdNorthWest	7	Up and left

snagDitherMethod

Use this method for dithering an image (when reducing the color depth). Because the results are very image dependent, the best way to find the optimal method is trial and error.

Name	Value	Description
sdmNone	0x00000000	Do not dither image
sdmFloydSteinberg	0x00010000	Floyd Steinberg method
sdmStucki	0x00020000	Stucki method
sdbBurkes	0x00030000	Burkes method
sdmSierra	0x00040000	Sierra method
sdmStevensonArce	0x00050000	Stevenson Arce method
sdmJarvis	0x00060000	Jarvis method
sdmOrdered	0x00070000	Ordered method

snagDitherPalette

Use to set the palette used to save an image with 256 colors or less.

Name	Value	Description
sdpFixed	0x0001	Use a fixed palette
sdpOptimized	0x0002	Use a palette optimized for this image
sdplIdentity	0x0008	Use the Windows System palette

snagError

Use to set the type of error reported by the COM server.

Name	Value	Description
serrUnknown	-1	An unknown error occurred
serrNone	0	No error
serrSnagitExpired	1	Snagit is an evaluation version and is expired
serrInvalidInput	2	An invalid input was specified for the capture object
serrInvalidOutput	3	An invalid output was specified for the capture object
serrEngineBusy	4	The capture engine is currently busy
serrInvalidScrollDelay	5	The scroll delay specified for the AutoScroll parameter was invalid
serrInvalidDelay	6	Delay capture has an invalid delay time set
serrInvalidColorEffectValue	7	One of the values set for the color effects is invalid
serrInvalidFileProgressiveValue	8	The progressive value setting in ImageFile is not valid
serrInvalidFileQualityValue	9	The file quality setting in ImageFile is not valid
serrInvalidFileDirectory	10	A valid directory is not specified for ImageFile output
serrInvalidColorConversionValue	11	An invalid color conversion value was specified in the ImageColorConversion settings
serrInvalidImageResolution	12	An invalid image resolution value was specified in the ImageResolution settings

snagHotspotType

Use to set the types of controls to capture and create as hotspots.

Name	Value	Description
shtUnknown	-1	The hotspot type is unknown
shtNone	0	Do not capture hotspots
shtLinksOnly	1	Turn links found on web pages into hotspots on the image
shtLinksAndControls	2	Turn links, buttons, tabs, and other controls into hotspots on the image

snagImageColorDepth

Use to set the number of bits used to represent a color in an image.

Name	Value	Description
sicdAuto	0	Automatically choose the color depth for the image
sicd1Bit	1	Use 1 bit to specify the color (monochrome)
sicd2Bit	2	Use 2 bits to specify the color
sicd3Bit	3	Use 3 bits to specify the color
sicd4Bit	4	Use 4 bits to specify the color
sicd5Bit	5	Use 5 bits to specify the color
sicd6Bit	6	Use 6 bits to specify the color
sicd7Bit	7	Use 7 bits to specify the color
sicd8Bit	8	Use 8 bits to specify the color
sicd16Bit	16	Use 16 bits to specify the color
sicd24Bit	24	Use 24 bits to specify the color (truecolor)
sicd32Bit	32	Use 32 bits to specify the color

snagImageFileSubType

Use to set the subtypes for image formats.

Name	Value	Description
sifstUnknown	-1	Unknown format
sifstBMP_Uncompressed	0x0000001	Uncompressed windows bitmap
sifstBMP_RLE	0x0000002	Windows bitmap with Run-Length Encoding
sifstGIF_NonInterlaced	0x0000004	Non-interlaced GIF
sifstGIF_Interlaced	0x0000008	Interlaced GIF
sifstJFIF_444	0x0000010	JPEG non-progressive 4:4:4
sifstJFIF_422	0x0000020	JPEG non-progressive 4:2:2
sifstJFIF_411	0x0000040	JPEG non-progressive 4:1:1
sifstJFIF_444_Progressive	0x0000080	JPEG progressive 4:4:4
sifstJFIF_422_Progressive	0x0000100	JPEG progressive 4:2:2
sifstJFIF_411_Progressive	0x0000200	JPEG progressive 4:1:1
sifstJFIF_Gray	0x0000400	JPEG non-progressive grayscale
sifstJFIF_Gray_Progressive	0x0000800	JPEG progressive grayscale
sifstCCITT	0x0001000	TIFF subtype for FAX
sifstCCITT_Group3_1Dimension	0x0002000	TIFF subtype for FAX
sifstCCITT_Group3_2Dimension	0x0004000	TIFF subtype for FAX
sifstCCITT_Group4	0x0008000	TIFF subtype for FAX
sifstTIF_Uncompressed	0x0010000	Uncompressed TIFF
sifstTIF_PackBits	0x0020000	PackBits compressed TIFF
sifstTIF_LZW	0x0040000	LZW compressed TIFF
sifstJTIF_Gray	0x0080000	JPEG compressed grayscale TIFF
sifstTIF_CMYK	0x0100000	Uncompressed TIFF using CMYK colorspace
sifstTIF_YCC	0x0200000	Uncompressed TIFF using YCC colorspace
sifstTIF_PACK_CMYK	0x0400000	PackBits compressed TIFF using CMYK colorspace
sifstTIF_PACK_YCC	0x0800000	PackBits compressed TIFF using YCC colorspace

sifstTIF_LZW_CMYK	0x1000000	LZW compressed TIFF using CMYK colorspace
sifstTIF_LZW_YCC	0x2000000	LZW compressed TIFF using YCC colorspace
sifstJTIF_444	0x4000000	JPEG compressed TIFF 4:4:4
sifstJTIF_422	0x8000000	JPEG compressed TIFF 4:2:2
sifstJTIF_411	0x10000000	JPEG compressed TIFF 4:1:1

snagImageFileType

Use to set the format of an image file.



Formats with values from 7 to 27 are only available for Versions 8.1 and higher.

Name	Value	Description
siftUnknown	-1	Unknown format
siftBMP	0	Windows bitmap format
siftPCX	1	PC Paintbrush format
siftTIFF	2	Tagged Image File format
siftJPEG	3	JPEG format
siftGIF	4	CompuServe GIF format
siftPNG	5	Portable Networks Graphic format
siftTGA	6	Truevision Targa format
siftRAS	7	SUN Raster format
siftMSP	8	Microsoft Paint format
siftWMF	9	Windows Metafile format
siftCAL	10	CALS format
siftEPS	11	Encapsulated Postscript format
siftGEM	12	GEM Image format
siftIOCAR	13	IBM IOCA Raw format
siftIOCAW	14	IBM IOCA Wrapped format
siftPICT	15	Macintosh Picture format
siftLEAD	16	LEAD format
siftOS2	17	OS/2 Bitmap format
siftWFX	18	WinFax format
siftEMF	19	Windows Enhanced Metafile format
siftWPG	20	WordPerfect format
siftPSD	21	Adobe PhotoShop 3.0
siftICO	22	Windows Icon format
siftCUR	23	Windows cursor format
siftPDF	24	Adobe PDF format
siftSNAG	25	Snagit Capture File format
siftSWF	26	Adobe Flash format
siftMHT	27	Web Page with Image (MHTML) format

snagImageInput

Use to set the type of capture.

Name	Value	Description
siiDesktop	0	Capture the full screen area.
siiWindow	1	Capture one window.
siiRegion	4	Capture a region on the screen.
siiGraphicFile	6	Capture an existing graphic file on the hard drive.
siiClipboard	7	Capture the contents of the clipboard.
siiDOSScreen	8	Capture the contents of a full-screen DOS window.
siiMenu	9	Capture a menu.
siiObject	10	Capture an object (user interactive). An object can sometimes be a window, an image on the screen, a control, etc. More general than the siiWindow input.
siiProgramFile	11	Capture an icon, bitmap, or cursor from an executable or DLL file.
siiFreehand	12	User draws the capture region freehand.
siiEllipse	13	Ellipse-shaped capture region (user interactive).
siiRoundedRect	14	Capture a rectangle with rounded corners (user interactive).
siiTriangle	15	Capture a triangularly shaped region (user interactive).
siiPolygon	16	Capture a polygon (straight-edged freehand, user interactive).
siiWallpaper	17	Capture the desktop wallpaper image.
siiCustomScroll	18	User draws a region, and then clicks the scroll button. Capture continues until the window has scrolled to the bottom.
siiTWAIN	19	Capture from a TWAIN source (scanners, some digital cameras, etc).
siiDirectX	20	Capture a DirectX window.
siiExtendedWindow	23	Resize a window before capture – the size of the window (possibly larger than the screen resolution) is specified either by the user or in advance.
siiCapture	25	Use the All-in-One capture input, allowing window, region or scrolling window.

snagImageOutput

Use to set the output of a captured image.

Name	Value	Description
sioNone	0	No output is set.
sioPrinter	1	Send the captured image directly to the printer.
sioFile	2	Save the image to a file. The filename can be prompted for, specified, or automatic.
sioClipboard	4	Place the captured image in the system clipboard.
sioMail	8	Send the image as an attachment to an email. This starts the email client or immediately sends, depending on settings in IMailOptions .
sioFTP	32	Upload as an image file to an FTP server. See IFTPOptions .

snagImageScaleBy

Use to set the scaling dimensions of the image.

Name	Value	Description
sisbFactor	0	Scale the image by a multiplicative factor
sisbWidthAndHeight	1	Scale to match a given width and height
sisbWidth	2	Scale width to match a specified value
sisbHeight	3	Scale height to match a specified value

snagImageScaleMethod

Use this method to change the size of a captured image.

Name	Value	Description
sismCustom	0	Use custom scaling options. See IImageScale for more information.
sismPercentage	1	Scale by percentage.
sismNone	2	Leave the image at its original size.

snagNotificationType

Use to set the types of messages Snagit displays on its own and are not related to event handling.

Name	Value	Description
sntNone	0	Snagit does not display notifications of any type on its own
sntInformation	1	The Snagit COM server displays informational dialogs
sntErrors	2	The Snagit COM server displays error messages itself
sntAll	3	Both error and informational dialogs displays by the Snagit COM server

snagOutputFileNamingMethod

Use to set how to name files during file output.

Name	Value	Description
sofnmPrompt	0	The user is prompted for the name and location in which to save the file. Use with sioFile and stoFile .
sofnmFixed	1	The output uses a fixed file name specified by the program. This is specified in IImageFile or IImageFile2 .
sofnmAuto	2	File names are automatically generated in increasing numeric order.

snagPlacement

Use to set the general placement of objects.

Name	Value	Description
spUnknown	-1	Placement unknown
spLeftTop	0	Place in upper-left

spRightTop	1	Place in upper-right
spLeftBottom	2	Place in lower-left
spRightBottom	3	Place in lower-right
spCenterMiddle	4	Place in exact center
spCenterTop	5	Place in the center of the top
spLeftMiddle	6	Place in the middle of the left
spRightMiddle	7	Place in the middle of the right
spCenterBottom	8	Place in the center of the bottom
spOutsideTop	9	Place on the outside top of the capture
spOutsideLeft	10	Place on the outside left of the capture
spOutsideBottom	11	Place on the outside bottom of the capture
spOutsideRight	12	Place on the outside right of the capture

snagPrintScale

Use to set how to fit an image on a page when doing printer output.

Name	Value	Description
spsSinglePage	0	The image, regardless of length, is scaled in proportion to fit on one page. <i>Example:</i> An Auto Scroll capture three pages long is scaled equally in length and width to print on one page. The printed image is one page long and one third of its full size width.
spsPercentScale	1	The user can apply a scaling percentage to the image to decrease or increase its size on the printed page. An image printed at 100 percent is the same as one printed with the Proportional setting. <i>Example:</i> An image printed at 200 percent makes the height and width two times the printed image.
spsProportionalToScreen	2	The size relationship between the width of the area being captured and the width of the screen is used to calculate the width of the printed image in relationship to the width of the printed page. <i>Example:</i> An image half the width of your screen is scaled to print at half the width of the printed page.
spsFixedSize	3	The width and height are set in the boxes. The printed image matches the dimensions, scaling or distorting the image if necessary.
spsSinglePageMaximize	4	The image is made as large as possible to fit on one page, while preserving the correct aspect ratio of the original.
spsAutoScale	5	The width of the captured image is scaled to the width of the page. The length is scaled in proportion and can be more than one page. <i>Example:</i> An image 2 inches by 6 inches is scaled by an approximate factor of 4 to fit the printed page width. The length is also scaled by the same factor, making a printed image 2 1/2 (24 inch) pages in length.

snagRegionSelectionMethod

Use to specify what method to use when capturing a region.

Name	Value	Description
srsInteractive	0	Interactively drag out a region to be captured.

srmFixed	1	Use the values provided to capture a fixed size region. This may still act interactive if a starting X,Y position is not given.
----------	---	---------------------------------------------------------------------------------------------------------------------------------

snagTextInput

Use to set the type of input for text captures.

Name	Value	Description
stiDesktop	0	Capture text from the entire screen.
stiWindow	1	Capture text in one window.
stiRegion	4	Capture text within a specific region.
stiClipboard	7	Capture the text from the clipboard.
stiDOSScreen	8	Capture text from a full-screen DOS window.
stiObject	10	Capture text in an object. This could be a window, a control, a text-box, static text in a dialog, etc. More general than the stiWindow capture.
stiCustomScroll	18	User draws a region, and then clicks the scroll button. Capture continues until the window has scrolled to the bottom.

snagTextLayout

Use to filter text output.

Name	Value	Description
stiSpaceFormatted	0	Implies that the captured text is separated into groups by spaces
stiColumnDelimited	1	Implies that the captured text is aligned in columns

snagTextOutput

Use to set the location to send captured text.

Name	Value	Description
sioPrinter	1	Send the text directly to the printer
sioFile	2	Save the text in a .txt file
sioClipboard	4	Put the text in the clipboard
sioMail	8	Attach the text in a .txt file and send it as an email (either launches the default client or sends immediately – configurable)
sioFTP	32	Upload a .txt file to an FTP server

snagTimeDateOrder

Use to set the order of time and date for timestamps

Name	Value	Description
stdoTimeThenDate	0	Show time then date
stdoTimeOnly	1	Show only the time, not the date
stdoDateThenTime	2	Show the date then the time
stdoDateOnly	3	Show only the date, not the time

snagTrimMethod

Use to cut the outside borders of capture images.

Name	Value	Description
stmNone	0	No trimming is performed.
stmManual	1	Edge of image is trimmed by the number of pixels specified. For more information, see IImageTrim .
stmAuto	2	Automatically trim blank areas from the edges of captured images. A blank area on an image is one that has no change in the color.

snagWindowSelectionMethod

Use to specify how to make a window selection.

Name	Value	Description
swsmInteractive	0	Select the window by the user moving the mouse and highlighting the window
swsmActive	1	Capture the currently active window
swsmHandle	2	Capture the window with the given window handle (as a Long value) specified
swsmPoint	3	Capture the window under the point specified with X,Y coordinates

Appendix A – Language Specific Samples

This appendix contains samples for the following languages:

- ▶ [C++/ATL](#)
- ▶ [C#](#)
- ▶ [VB](#)
- ▶ [VB.NET](#)
- ▶ [VBScript](#)

C++/ATL

Import the table implementation file (Snagit.tlb)

```
#import "Path\To\Snagit.tlb" rename_namespace("Snagit")
```

Declare an object

- ▶ Snagit Version 6.2 and later

```
Snagit::IImageCapturePtr pImageCapture; // v6.2 and later
```

- ▶ Snagit Version 8.1 and later

```
Snagit::IImageCapture2Ptr pImageCapture; // v8.1 and later
```

Create an object

```
pImageCapture.CreateInstance( __uuidof( Snagit::ImageCapture ) );
```

Handle objects

To handle objects takes several steps. Capturing error events is illustrated here.

1. At the top of your class declaration file create an external reference to an _ATL_FUNC_INFO object.

```
extern _ATL_FUNC_INFO SnagitErrorInfo;
```

2. Next have your class inherit from the IDispEventSimpleImpl templated class.

```
class CMyClass : IDispEventSimpleImpl<1, CMyClass,  
&__uuidof(Snagit::_ICaptureEvents)>
```

3. Next create a typedef inside your class declaration to talk about the events more easily.

```
typedef IDispEventSimpleImpl<1, CMyClass,  
&__uuidof(Snagit::_ICaptureEvents)> SnagitErrorEvents;
```

4. Now create a sink map inside your class declaration to setup the message handling

```
BEGIN_SINK_MAP(CMyClass)  
    SINK_ENTRY_INFO(1, __uuidof( Snagit::_ICaptureEvents ), 0x01,  
    OnSnagitError, SnagitErrorInfo )  
END_SINK_MAP()
```

5. Declare the message handler function inside your class declaration

```
void __stdcall OnSnagitError( Snagit::snagError nErrorCode );
```

6. Now in your class implementation file, define the SnagitErrorInfo _ATL_FUNC_INFO object

```
_ATL_FUNC_INFO SnagitErrorInfo = { CC_STDCALL, VT_EMPTY, 1, { VT_I4 } };
```

7. Before you start getting events, you must advise the object that you are listening for events somewhere in the implementation file

```
SnagitErrorEvents::DispEventAdvise( pImageCapture );
```

8. Lastly, implement the handler function

```
void __stdcall CMyClass::OnSnagitError( Snagit::snagError nErrorCode )  
{  
    /* implementation */
```

```
}
```

C#

Declare an object

- ▶ Snagit Version 6.2 and later

```
private SNAGITLib.ImageCapture ImageCap; // v6.2 and later
```

- ▶ Snagit Version 8.1 and later

```
private SNAGITLib.IImageCapture2 ImageCap; // v8.1 and later
```

Create an object

```
ImageCap = new SNAGITLib.ImageCaptureClass();
```

Handle callbacks

To handle callbacks, create a function that handles the callback and attach it to the object using the correct delegate.

```
ImageCap.OnError += new SNAGITLib._ICaptureEvents_OnErrorEventHandler(  
this.OnError );
```

VB

Declare an object

- ▶ Snagit Version 6.2 and later

```
Dim ImageCapture As SNAGITLib.ImageCapture ' v6.2 and later
```

- ▶ Snagit Version 8.1 and later

```
Dim ImageCapture As SNAGITLib.IImageCapture2 ' v8.1 and later
```

Declare an object able to receive events

```
Dim WithEvents ImageCapture As SNAGITLib.ImageCapture
```

Create an object

```
Set ImageCapture = CreateObject("Snagit.ImageCapture")
```

If an object is created with the ability to receive events

```
' This function handles the OnStateChange event fired by the ImageCapture
interface
' Event handling is done simply by putting the event after an _ after the
object that
' fires the event. That is, Object_Event
Private Sub ImageCapture_OnStateChange(ByVal capState As
SNAGITLib.snagCaptureState)
```

VB.NET

Declare an object

- ▶ Snagit Version 6.2 and later

```
Public ImageCapture1 As SNAGITLib.ImageCapture ' v6.2 and later
```

- ▶ Snagit Version 8.1 and later

```
Public ImageCapture1 As SNAGITLib.IImageCapture2 ' v8.1 and later
```

Declare an object able to receive events

```
Public WithEvents ImageCapture1 As SNAGITLib.ImageCapture
```

Create an object

```
ImageCapture1 = New SNAGITLib.ImageCaptureClass()
```

If an object is created with the ability to receive events

```
'This function handles the OnStateChange event from the ImageCapture object
Private Sub CapState(ByVal capState As SNAGITLib.snagCaptureState) Handles
ImageCapture1.OnStateChange
...
...
End Sub
```

VBScript

Create an object

```
'Create and image capture object  
set ImageCap = CreateObject("SNAGIT.ImageCapture")
```

If the script is allowed to exit before the capture has completed, the capture object will go out of scope and will exit. To keep the script running while the capture finishes a sleeping loop can be used.

```
Do Until ImageCap.IsCaptureDone  
    WScript.Sleep 10  
Loop
```

Appendix B – Data Type Information


Only simple data types are used in the Snagit COM Server. This allows it be used from many different programming languages.

- ▶ [Data Types](#)
- ▶ [Specific Uses](#)

Data Types

Boolean

True (-1) or False (0)

 Many languages have defines for true and false values, these may or may not be translated to the correct `VARIANT_BOOL` values. For example C++/ATL programs should use the `VARIANT_TRUE` and `VARIANT_FALSE`, whereas VB, VB.NET, VBScript and C# correctly translate the default `true` and `false` values.

Long

32-Bit signed integer

String

Variable length string.

- ▶ C++/ATL – `BSTR` or `CCoBSTR`
- ▶ VB, VB.NET, VBScript, and C# - `string`

Interface

All interfaces are derived from `IDispatch` to use in scripting languages such as VBScript.

Specific Uses

Colors

Colors are represented as Long values where the format is:

`0x00bbggrr`

Languages such as MFC and VB define the macro `RGB(r,g,b)` that correctly create this value from the three component values.