Using Snagit/32 As A DDE Server

SnagIt/32 is a fully functional Windows Dynamic Data Exchange (DDE) server. You can use SnagIt/32's DDE support to incorporate SnagIt/32 functionality into custom or commercial Windows programs that support DDE. For example, you could write a Microsoft Excel macro to print a portion of the screen using SnagIt/32.

DDE Command Reference

Following is a reference for the DDE commands that a DDE client application can use to communicate with SnagIt/32.

For more information about using DDE in Windows programs and macros, refer to the DDE section in the Windows Software Developer's Kit reference, *Windows Guide to Programming*. If you want to incorporate SnagIt/32 functionality into a commercial Windows application, you can also refer to the macro language documentation for your application.

Please note that the syntax of specific DDE commands (DDE_INITIATE, DDE_EXECUTE, etc.) will vary from one application to another, depending on the implementation of DDE commands in the application's macro language. The parameters required for accessing SnagIt/32, however, will not vary.

- Initiating A DDE Session With Snagit/32
- Setting Snagit/32 Configuration Options
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Initiating A DDE Session With Snagit/32

To initiate a DDE session with SnagIt/32, you must send a DDE_INITIATE message with the *application parameter* of "SnagIt" and the *topic parameter* of "System":

    [DDE_INITIATE command] SnagIt System

Note: Because it creates the connection, the DDE_INITIATE command must be the first command issued. To release system resources when the channel is no longer required, issue a DDE_TERMINATE.

Setting Snagit/32 Configuration Options

You can set SnagIt/32 configuration options — the input, output, format and other options typically set through the SnagIt/32 menus — in one of two ways: with the DDE_EXECUTE **set** command, or with the DDE_POKE command.

- Setting Options With DDE_EXECUTE
- Setting Options With DDE_POKE

Setting Options With DDE_EXECUTE

The general syntax of the DDE_EXECUTE **set** command is:

[DDE_EXECUTE command] set("parameter_value")

With the DDE_EXECUTE **set** command, the parameter_value may be any one of the following:

Parameter Value	Result
add red_nnn, blue_nnn,green_nnn	Enable SnagIt/32's Color Boost option (equivalent to selecting the "Use Color Boost" checkbox on the Color Boost dialog), and set the RGB color hue additive values (the three Color Enhance fields on the Color Boost dialog) to red_nnn for red, blue_nnn for blue, and green_nnn for green. Separate the RGB additive values by commas, with no spaces before or after the commas.
aspect off	Do not maintain image aspect ratio when printing.
aspect on	Maintain image aspect ratio when printing.
autoname	Set the Filename parameter to CCCCC.
boost off	Disable SnagIt/32's Color Boost option (equivalent to de-selecting the "Use Color Boost" checkbox on the Color Boost dialog).
boost red_nnn, blue_nnn,green_nnn	Enable SnagIt/32's Color Boost option (equivalent to selecting the "Use Color Boost" checkbox on the Color Boost dialog), and set the RGB color saturation multipliers (the three slider bars on the Color Boost dialog) to red_nnn for red, blue_nnn for blue, and green_nnn for green. Separate the RGB multiplier values by commas, with no spaces before or after the commas.
Chain	Toggle the Clipboard Chain parameter.
colorsub[Or,Og,Ob,Sr,Sg,Sb,A]	Set the Color Substitution parameters where ; Or,Og,Ob = original color's RGB components Sr,Sg,Sb = substitute color's RGB components. A = color accuracy value Values should be delimited by commas with no spaces, e.g.; set(colorsub 10,150,210,100,150,50,75) Note: This option is not available in the "esnag" DDE command.
device [printer_name], [driver_name], [port]	Direct output to the specified printer, using specified driver and port.
dtstmp [ON/OFF]	Enables or disables the datetime stamp on the output image.
frequency [nn,mm]	Set the timer-activated capture clock frequency. nn = time value, mm=interval type where [HR/MIN/SEC] are the valid parameters. (e.g. "FREQUENCY 10,SEC")
format color[,n]	Set the Format parameter to Color. Set Color Reduction to n colors, where n is 0, 16, or 256 (0 specifies no color reduction). If n is not specified, the current color reduction setting is used.
format gray	Set the Format parameter to Grayscale.
format mono[,n]	Set the Format parameter to Monochrome, and the Monochrome intensity threshold to the value specified as n. The "mono,n" portion of the string cannot contain spaces. If you do not specify a numeric value, SnagIt/32 will use the current intensity threshold value as the default.
hidekey nnnn	Set hide/unhide hotkey combination to nnnn. The high byte specifies Control keys: 0x01 CTRL key 0x02 ALT key 0x04 SHIFT key 0x08 function key, F1-F12

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	Low byte specifies the key pressed:
	0x41-0x5 hotkey's ASCII value
	0x01-0x0c function key F1-F12,
	if 0x08 bit is set in high byte
inalert n	Enables (n=1) or disables (n=0) the Input Alert.
input client	Set the Input parameter to Window Client Area.
input clipboard	Set the Input parameter to Clipboard.
input dosscrn	Set the Input parameter to Full Screen DOS, i.e.; set Input to Clipboard and enable the Clipboard Chain option. Note: This change is only valid for the current user interface settings.
input file	Set the Input parameter to BMP File.
input last	Set the Input parameter to Last Active Window.
input region	Set the Input parameter to Region.
input screen	Set the Input parameter to Screen.
input window	Set the Input parameter to Entire Window.
Mailsubject text	Set the Mail Output subject to "text".
mailtext text	Include "text" in the message body for Mail Output.
mailname name	Set the Mail Output recipient name. If the "mailaddress" parameter is not set, "name" must be a valid Mail phonebook name. If the "mailaddress" parameter is set, "*name*" may contain the display name for the mail recipient.
Mailaddress address	Set a provider specific Mail Output recipient address. This parameter is optional if "mailname" specifies a valid Mail phonebook name.
options nnnn	Set options. The nnnn byte specifies the following Options:
	0x01 captures mouse cursor
	0x02 turns on Automatic File Naming
	0x10 turns on Auto Scroll
	0x20 turns on Dithered Color Reduction
options scale,nn	Set the scale value for non-printer output, where nn is a real number scale multiplier (e.g., 0.73 or 1.28) applied to the image. The value of nn must be greater than 0.
outalert n	Enables (n=1) or disables (n=0) the Output Alert.
output bmp	Set the Output parameter to BMP File.
output cbmp	Set the Output parameter to Compressed BMP File.
output clipboard	Set the Output parameter to Clipboard.
output file	Set the Output parameter to BMP File.
output gif	Set the Output parameter to GIF File.
output jpeg[,nn]	Set the Output parameter to JPEG File, where n is the desired image quality from 1-99%. If n is not specified, the current JPEG image quality is used.
output mail [,DEF]	Set the Output parameter to Send Mail. The current file output configuration is used for the type of attached mail file. If the "DEF" parameter is included and the mail recipient name or address is specified by the "mailname" and/or "mailaddress" parameters, the user will not be prompted for information before the mail message is sent. Otherwise the user will always be prompted for the mailname and mailaddress information.
output pcx	Set the Output parameter to PCX File.
output printer	Set the Output parameter to Printer.
output tiff	Set the Output parameter to TIFF Mono File.

preview [1/0]	A value of 1 enables the Preview Window mode. A value of 0 disables it.
profile active	Use the active SnagIt/32 configuration profile for this DDE session. This is the same configuration profile used by the SnagIt/32 menus. This is the profile used for a DDE session if the "profile" parameter is not used.
profile default	Use the SnagIt/32 default configuration profile for this DDE session. Changes only effect this DDE session and do not effect the active SnagIt/32 configuration. The "snagkey", "hidekey", and "chain" parameters are disabled for this profile setting.
profile saved	Use the SnagIt/32 configuration profile saved in the system registry for this DDE session. Configuration changes only effect this DDE session and do not affect the active SnagIt/32 configuration. The "snagkey", "hidekey", and "chain" parameters are disabled for this profile setting.
repeatkey nnnn	Set the repeat capture activation hotkey combination to nnnn. The high byte specifies Control keys: 0x01 CTRL key 0x02 ALT key 0x04 SHIFT key 0x08 function key, F1-F12 Low byte specifies the key pressed: 0x00 if 0x10 bit is set in high byte 0x41-0x5 specifies hotkey's ASCII value 0x01-0x0c specifies function key F1-F12, if 0x08 bit is set in high byte
scale auto	Set the Printer Scale option to Auto Scale.
scale max	Set the Printer Scale option to maximize the image on the printed page.
scale n	Set the Printer Scale value to n, where n is a percentage of the Proportional scale size (e.g., 50, 200 (50% - half size, 200% - double size)). The value of n must be greater than or equal to 1.
scale page	Set the Printer Scale option to Fit on Page.
scale pro	Set the Printer Scale option to Proportional scale.
Snagdir	Set the File Output Directory parameter to a valid path.
snagkey nnnn	Set activation hotkey combination to nnnn. The high byte specifies Control keys: 0x01 CTRL key 0x02 ALT key 0x04 SHIFT key 0x08 function key, F1-F12 0x10 PRINT SCREEN key Low byte specifies the key pressed: 0x00 if 0x10 bit is set in high byte 0x41-0x5 specifies hotkey's ASCII value 0x01-0x0c specifies function key F1-F12, if 0x08 bit is set in high byte
snag(repeat)	Repeats a capture of the last Snagit/32 Input Area.
timer [ON/OFF]	Enables or disables timer-activated captures.
window hide	Hides the SnagIt/32 window or icon.
window show	Displays the SnagIt/32 window or icon.

Examples:

Use DDE_EXECUTE to set the input parameter to clipboard:

[DDE_EXECUTE command] set("input clipboard")

Use DDE_EXECUTE to direct SnagIt/32 output to Microsoft Fax:

[DDE_EXECUTE command] set("device Microsoft Fax, MSFAX, LPT1:")

Use DDE_EXECUTE to set the format parameter to Monochrome and the intensity threshold to 85 percent:

[DDE_EXECUTE command] set("format mono,85")

Use DDE_EXECUTE to enable Color Boost's color saturation multipliers and set the RGB values:

[DDE_EXECUTE command] set("boost 200,250,200")

Use DDE_EXECUTE to use the application default configuration profile to obtain a known configuration and not effect the active application configuration:

[DDE_EXECUTE command] set("profile default")

Use DDE_EXECUTE to send SnagIt/32 output as a compressed BMP file mail attachment:

[DDE_EXECUTE command] set("output cbmp")

[DDE_EXECUTE command] set("output mail")

Use DDE_EXECUTE to send SnagIt/32 output as a mail attachment with the specified Subject and Text. The user will be prompted for the mail destination.

[DDE_EXECUTE command] set("output mail")

[DDE_EXECUTE command] set("mailsubject Backup failed!")

[DDE_EXECUTE command] set("mailtext   Why is this happening?")

Use DDE_EXECUTE to send SnagIt/32 output as a mail attachment with the specified Subject to the specified recipient. The user will not be prompted for any information.

[DDE_EXECUTE command] set("output mail")

[DDE_EXECUTE command] set("mailsubject Process monitor 1:03AM")

[DDE_EXECUTE command] set("mailname Operations Staff")

Setting Options With DDE_POKE

The general syntax of the DDE_POKE command is:

[DDE_POKE command] "parameter", "value"

With the DDE_POKE command, the parameter and value strings may be one of the following combinations:

Parameter	*Values*	*Result*
add	red_nnn, blue_nnn, green_nnn	Enable SnagIt/32's Color Boost option (equivalent to selecting the "Use Color Boost" checkbox on the Color Boost dialog), and set the RGB color hue additive values (the three Color Enhance fields on the Color Boost dialog) to red_nnn for red, blue_nnn for blue, and green_nnn for green.

		Separate the RGB additive values by commas, with no spaces before or after the commas.
aspect	on	Maintain image aspect ratio when printing.
	off	Do not maintain image aspect ratio when printing.
autoname	ccccc	Set the Filename parameters.
Boost	red_nnn, blue_nnn, green_nnn	Enable SnagIt/32's Color Boost option (equivalent to selecting the "Use Color Boost" checkbox on the Color Boost dialog), and set the RGB color saturation multipliers (the three slider bars on the Color Boost dialog) to red_nnn for red, blue_nnn for blue, and green_nnn for green.
		Separate the RGB multiplier values by commas, with no spaces before or after the commas.
	off	Disable SnagIt/32's Color Boost option (equivalent to de-selecting the "Use Color Boost" checkbox on the Color Boost dialog).
chain		Toggle the Clipboard Chain parameter.
colorsub	[Or,Og,Ob, Sr,Sg,Sb,A]	Set the Color Substitution parameters where ; Or,Og,Ob = original color's RGB components Sr,Sg,Sb = substitute color's RGB components. A = color accuracy value Values should be delimited by commas with no spaces, e.g.; set(colorsub 10,150,210,100,150,50,75) Note: This option is not available in the "esnag" DDE command.
dstmp	ON	Enables datetime stamp on output image.
	OFF	Disables datetime stamp on output image
format	color[,n]	Set the Format parameter to Color. Set Color Reduction to n colors, where n is 0, 16 or 256 (0 specifies no color reduction). If n is not specified, the current color reduction value is used
	gray	Set the Format parameter to Grayscale.
	mono[,n]	Set the Format parameter to Monochrome, and the Monochrome intensity threshold to the value specified as n.
		The "mono," portion of the string cannot contain spaces. If you do not specify a numeric value, SnagIt/32 will use the current intensity threshold value as the default.
frequency	[nn,mm]	Set the timer-activated capture clock frequency. nn = time value, mm=interval type where [HR/MIN/SEC] are the valid parameters. (e.g. "FREQUENCY 10,SEC")
hidekey	nnnn	Set hide/unhide hotkey combination to nnnn. The high byte specifies Control keys: 0x01 CTRL key 0x02 ALT key 0x04 SHIFT key 0x08 function key, F1-F12 Low byte specifies the key pressed: 0x41-0x5 hotkey's ASCII value 0x01-0x0c function key F1-F12, if 0x08 bit is set in high byte
inalert	n	Enables (n=1) or disables (n=0) the Input Alert.
input	client	Set the Input parameter to Window Client Area.
	clipboard	Set the Input parameter to Clipboard.
	dosscrn	Set the Input parameter to Full Screen DOS, i.e.; set Input to Clipboard and enable the Clipboard Chain option. Note: This

		change is only valid for the current user interface settings.
	file	Set the Input parameter to BMP File.
	last	Set the Input parameter to Last Active Window.
	region	Set the Input parameter to Region.
	screen	Set the Input parameter to Screen.
	window	Set the Input parameter to Entire Window.
mailsubject	text	Set the Mail Output subject to "text".
mailtext	text	Include "text" in the message body for Mail Output.
mailname	name	Set the Mail Output recipient name. If the "mailaddress" parameter is not set, "name" must be a valid Mail phonebook name. If the "mailaddress" parameter is set, "name" may contain the display name for the mail recipient.
mailaddress	address	Set a provider specific Mail Output recipient address. This parameter is optional if "mailname" specifies a valid Mail phonebook name.
options	nnnn	Set options. The nnnn byte specifies the following Options: 0x01 captures mouse cursor 0x02 turns on Automatic File Naming 0x10 turns on Auto Scroll 0x20 turns on Dithered Color Reduction
	scale,nn	Set the scale value for non-printer output, where n is a real number scale multiplier (e.g., 0.73 or 1.28) applied to the image. The value of n must be greater than 0.
outalert	n	Enables (n=1) or disables (n=0) the Output Alert.
output	bmp	Set the Output parameter to BMP File.
	cbmp	Set the Output parameter to compressed BMP File.
	clipboard	Set the Output parameter to Clipboard.
	file	Set the Output parameter to BMP File.
	gif	Set the Output parameter to GIF File.
	jpeg[,nn]	Set the Output parameter to JPEG File, where n is the desired image quality from 1-99%. If n is not specified, the current JPEG image quality is used.
	Mail [,DEF]	Set the Output parameter to Send Mail. The current file output configuration is used for the type of attached mail file. If the "DEF" parameter is included and the mail recipient name or address is specified by the "mailname" and/or "mailaddress" parameters, the user will not be prompted for information before the mail message is sent. Otherwise the user will always be prompted for the "mailname" and "mailaddress" information.
	pcx	Set the Output parameter to PCX File.
	printer	Set the Output parameter to Printer.
	tiff	Set the Output parameter to TIFF Mono File.
preview	1	Enable the Preview Window mode.
	0	Disable the Preview Window mode.
profile	active	Use the active SnagIt/32 configuration profile for this DDE session. This is the same configuration profile used by the SnagIt/32 menus. This is the profile used for a DDE session if the "profile" parameter is not used.
	default	Use the SnagIt/32 default configuration profile for this DDE session. Changes only effect this DDE session and do not effect

		the active SnagIt/32 configuration. The "snagkey", "hidekey", and "chain" parameters are disabled for this profile setting.
	saved	Use the SnagIt/32 configuration profile saved in the system registry for this DDE session. Configuration changes only effect this DDE session and do not effect the active SnagIt/32 configuration. The "snagkey", "hidekey", and "chain" parameters are disabled for this profile setting.
repeatkey	nnnn	Set repeat capture activation hotkey combination to nnnn. The high byte specifies Control keys: 0x01 CTRL key 0x02 ALT key 0x04 SHIFT key 0x08 function key, F1-F12 Low byte specifies the key pressed: 0x00 if 0x10 bit is set in high byte 0x41-0x5 hotkey's ASCII value 0x01-0x0c function key F1-F12, if 0x08 bit is set in high byte
scale	auto	Set the Printer Scaling to Auto Scale.
	max	Set the Printer Scale to Maximize Image on a Single Page.
	n	Set the Printer Scale value to n, where n is a percentage of the Proportional scale size (e.g., 50, 200 (50% - half size, 200% - double size)). The value of n must be greater than or equal to 1.
	page	Set the Printer Scale option to Fit on Page.
	pro	Set the Printer Scale option to Proportional scale.
snagdir	ddddd	Set File Output Directory parameter.
snagkey	nnnn	Set activation hotkey combination to nnnn. The high byte specifies Control keys: 0x01 CTRL key 0x02 ALT key 0x04 SHIFT key 0x08 function key, F1-F12 0x10 PRINT SCREEN key Low byte specifies the key pressed: 0x00 if 0x10 bit is set in high byte 0x41-0x5 hotkey's ASCII value 0x01-0x0c function key F1-F12, if 0x08 bit is set in high byte
timer	ON	Enables timer-activated capture mode
	OFF	Disables timer-activated capture mode
window	hide	Hides the SnagIt/32 window or icon.
	show	Displays the SnagIt/32 window or icon.

Examples:

Use DDE_POKE to set the input parameter to clipboard:

　　[DDE_POKE command] "input", "clipboard"

Use DDE_POKE to set the format parameter to Monochrome and the intensity threshold to 85 percent:

　　[DDE_POKE command] "format", "mono,85"

Use DDE_POKE to enable Color Boost's color saturation multipliers and set the RGB values:

[DDE_POKE command] "boost", "200 250 200"

Use DDE_POKE to use the saved application configuration profile to obtain user tailored settings and not effect the active application configuration:

[DDE_POKE command] set("profile saved")

Use DDE_POKE to send SnagIt/32 output as a JPEG file mail attachment:

[DDE_POKE command] set("output jpeg")

[DDE_POKE command] set("output mail")

Use DDE_POKE to send SnagIt/32 output as a mail attachment with the specified Subject and to a provider specific mail address.

[DDE_POKE command] set("output mail")

[DDE_POKE command] set("mailsubject Win95 crashed again")

[DDE_POKE command] set("mailaddress SMTP:billg@microsoft.com")

MICROSOFT WINDOWS SDK PROGRAMMER'S TIP:
Note that the data format for DDE_POKE commands must be the valid clipboard format
CF_TEXT.

Invoking SnagIt/32

SnagIt/32's capture process is invoked with the DDE_EXECUTE **snag** command.

The general syntax of the DDE_EXECUTE **snag** command is:

[DDE_EXECUTE command] snag([input_parameter])

With the DDE_EXECUTE **snag** command, you can specify an input parameter value. If you do, this input parameter will override SnagIt/32's current input setting. Note that some of the input parameters available at capture time are not available as pre-set options, either via the SnagIt/32 menus or with DDE commands.

The input_parameter used with the DDE_EXECUTE **snag** command may be any one of the following:

Input Parameter	*Result*
empty or null	Capture image using current input and other parameters (equivalent to pressing your hotkey sequence).
Clipboard	Capture image in the Clipboard.
Screen	Capture the image on the Screen.
[file_name]	Capture the image in the specified BMP File.
Last	Capture the Last Active Window.
x_nnn y_nnn	Capture the Entire Window containing the point at the x and y coordinates, specified as x_nnn and y_nnn (equivalent to using the finger pointer to specify the window to capture).
	(Note that the x,y screen coordinate 0,0 is the point in the

	upper left corner of the screen, and that the x coordinate represents the point on the horizontal axis, and the y coordinate represents the point on the vertical axis. The value of the x,y screen coordinate in the bottom right corner of the screen depends on your screen resolution.)
client x_nnn y_nnn	Capture the Window Client Area containing the point at the x and y coordinates, specified as x_nnn and y_nnn.
handle [window_ handle]	Capture the Entire Window of the window specified by window_handle(Windows establishes the window_handle. It is ascertained by a source other than SnagIt/32.)
client handle [window_ handle]	Capture the Window Client Area of the window specified by window_handle.
x1_nnn y1_nnn x2_nnn y2_nnn	Capture the rectangular area bounded by the first set of xy coordinates (specified as x1_nnn and y1_nnn) and the second set of xy coordinates (specified as x2_nnn and y2_nnn). The result is the same as capturing a Region with SnagIt/32.
Repeat	Repeat the last capture using the same parameters.
Killtimer	If SnagIt/32 is in timer mode, this will terminated timer-activated captures.
exit	Terminate SnagIt/32.

Examples:

Capture an image using the current SnagIt/32 input, output, format and other parameters:

    [DDE_EXECUTE command] snag()

Capture the bitmapped image stored in the file CAR.BMP, using the current SnagIt/32 output, format and other parameters:

    [DDE_EXECUTE command] snag("c:\windows\car.bmp")

Capture the rectangular screen area bounded by the xy coordinates at 0,0 and 350,500:

    [DDE_EXECUTE command] snag("0 0 350 500")

Capture the window client area for the window with handle "0x43B":

    [DDE_EXECUTE command] snag("client handle 0x43B")

Note: You can use numbers in either decimal or hexadecimal format in SnagIt/32 DDE commands. Hex values must begin with "0x".

Invoking Enhanced SnagIt/32

SnagIt/32's capture process can be invoked and configured in a single command string. The settings specified in an Esnag command string only apply to one capture.

The general syntax of the DDE_EXECUTE **Esnag** command is:

    [DDE_EXECUTE command] Esnag([input_parameter], [output_parameter],
    [format_parameter], [scale_parameter], [options_parameter])

With the DDE_EXECUTE **Esnag** command, you can specify input, output, format, scale and option parameters for a single capture. All parameters will return to saved/default settings after the capture is performed.

Input Parameter	Result
Input Parameter	*Result*
DEF	Captures the default input .
CLP	Captures the Clipboard.
SCR	Captures the Screen.
LST	Captures the Last Active Window.
BMP	Captures a BMP file, where [filename] is an existing Windows BMP file.
WIN x y	Captures the entire window containing the point x y.
CLI x y	Captures the Window Client Area containing the point x y.
WHD h	Captures the Entire Window specified by the window handle h.
CHD h	Captures the Window Client Area specified by the window handle h.
REG xl yl x2 y2	Captures the rectangular area specified by the points x1 y1 and x2 y2.
REP	Repeats the last capture using the same parameters.

Output Parameter	*Result*
DEF	Output to default.
CBMP [file_name]	Output to a compressed Windows BMP File. (Providing [file_name] is optional.)
GIF [file_name]	Output to a GIF File (providing file_name is optional).
JPG [file_name]	Output to JPEG File using the current configured image quality (providing file_name is optional). Use "set output jpeg,n" to set a particular image quality level.
MAIL	Send output as a mail attachment. The current file output configuration is used for the type of attached mail file. The user will not be prompted if mailname and mailaddress fields are available.
MAILP	Send output as a mail attachment. The current file output configuration is used for the type of attached mail file. The user will always be prompted for mailname and mailaddress information.
PRN	Output to the Printer.
CLP	Output to the Clipboard.
BMP [file_name]	Output to a Windows BMP file. (Providing [file_name] is optional.)
PCX [file_name]	Output to a PCX file. (Providing [file_name] is optional.)
TIF	Output to a TIF file. (Providing [file_name] is optional.)

Format Parameter	*Result*
DEF	Implements default format.
COL [n]	Implements Color format, setting Color Reduction to n colors, where n is 0, 16 or 256 (0 specifies no color reduction). If n is not specified, the current color reduction value is used.
MON t	Implements Monochrome format with Intensity Threshold for White specified by value t.
GRY	Implements Grayscale format.

Scale Parameter	*Result*
DEF	Implements default printer scale method.
VAL s	Scales printer output to s percent of Proportional size. The value of s must be greater than or equal to 1.
AUT	Set printer output to Auto Scale.
MAX	Set printer output to Maximize Image on a Single Page.
PAGE	Set printer output to Fit on Page.
PRO	Set printer output to Proportional Scale.

Option Parameter	*Result*
DEF	Implements default options.
b	Implements options specified by b where b is a bitmask for the following options:
	0 x 01 Include Mouse Cursor
	0 x 02 Automatic File Naming
	0 x 04 Correct for Aspect Ratio
	0 x 08 Invert Image Colors
	0 x 10 Enable Auto Scroll
	0 x 20 Enable Dithered Color Reduction

Examples:

Capture using default settings for all Esnag parameters. The **Esnag** command, executed without specified parameters, will behave like the **snag** command executed without specified parameters.

    [DDE_EXECUTE command] Esnag (DEF, DEF, DEF, DEF, DEF)

Capture the Last Active Window. Here , only the input parameter is specified; all other parameters use default settings. Therefore, the **Esnag** command, executed with an input parameter, behaves like the **snag** command executed with a specified parameter. (Remember, the **snag** command can only use input parameters.)

    [DDE_EXECUTE command] Esnag (LST, DEF, DEF, DEF, DEF)

Capture the Screen to a TIF file named SCREEN1.TIF. Now, both the input and output parameters are specified in the Esnag command line; all other parameters use default settings.

    [DDE_EXECUTE command] Esnag (SCR, TIF SCREEN1.TIF, DEF, DEF, DEF)

Capture the Screen to a TIF file name SCREEN1.TIF, this time specifying the format parameter. In the **Esnag** command line, the format parameter is set to color is set to Auto Scale, while the scale and options parameters remain set at their defaults.

    [DDE_EXECUTE] Esnag (SCR, TIF SCREEN1.TIF, COL, DEF, DEF)

Capture the screen to a TIF file named SCREEN1.TIF , set the format to Color, set scale to default, and enable all four options -- Include Cursor, Automatic File Naming, Correct for Aspect Ratio and Invert Image Colors.

    [DDE_EXECUTE] Esnag (SCR, TIF SCREEN1.TIF, COL, DEF, 15)

Note: The Auto File Naming option is overridden by the output setting when it specifies a filename.

Capture the Entire Screen to a TIF file named SCRSHOT1.TIF , set the format to Color , set scale to default, and invert the image colors:

> [DDE_EXECUTE command] Esnag (SCR, TIF SCRSHOT1.TIF, COL, DEF, 9)

Capture the entire screen to a JPEG file, set the format to Color, set scale to default, and include the mouse cursor:

> [DDE_EXECUTE command] Esnag (SCR, JPG, COL, DEF, 0x01)

Capture the entire screen and send it as a compressed BMP file mail attachment, set the format to Color, set the scale factor to default, and include the mouse cursor:

> [DDE_EXECUTE command] Set("output cbmp")

> [DDE_EXECUTE command] Esnag (SCR, MAIL, COL, DEF, 1)

Capture the default input to a BMP file , set the format to Monochrome with an Intensity Threshold of 40 and enable the Include Cursor and Automatic File Naming options:

> [DDE_EXECUTE command] Esnag (DEF, BMP, MON 40, DEF, 3)

Capture the window with handle 0x00010062 to the clipboard, set format to reduce to 256 colors, default printer scaling (does not apply), and default options. The "Set" command scales the image down to one half its original size.

> [DDE_EXECUTE command] Set("options scale,0.5")

> [DDE_EXECUTE command] Esnag (WHD 0x00010062, CLP, COL 256, DEF, DEF)

Capture the window at point 100,200 to the printer, set format to color with no color reduction, scale the output to fit on a single printer page, set the Auto Scroll option to capture the entire document in the window.

> [DDE_EXECUTE command] Esnag (WIN 100 200, PRN, COL 0, PAGE, 0x10)

Note: The maximum length of any DDE command is 80 characters.

Determining Snagit/32's Status

You can query SnagIt/32 about its availability to process another command with the DDE_REQUEST **status** command. The general syntax of the DDE_REQUEST **status** command is:

> [DDE_REQUEST command] status

SnagIt/32 will return either "Ready" or "Busy":

- **Ready** means SnagIt/32 is available to process another command.
- **Busy** means SnagIt/32 is currently processing a command.

The ability to query SnagIt/32's status is particularly useful if more than one application is accessing SnagIt/32.

Installing The Snagit/32 Word For Windows Macro

The Microsoft Word for Windows macro included on the SnagIt/32 diskette will give you access to SnagIt/32 from a MS Word menu. You can use this option to capture screens from other

Windows applications, and insert those screen captures into your MS Word document.

This macro also illustrates how you can access SnagIt/32 from a commercial application using DDE calls in a macro.

- Word For Windows 2.0
- Word For Windows 95 And Word For Windows 6.0
- Activating Snagit/32 From Word For Windows

Word For Windows 2.0

Follow these steps to install the SnagIt/32 macro in Word for Windows 2.0:

1. Start SnagIt/32, and then start MS Word.
2. Insert the SnagIt/32 distribution diskette in the floppy drive.
3. Choose **File**, **Open** from the MS Word menu. In the **File Name** field, type:

   a:\snagww.doc

   (If necessary, substitute the appropriate diskette drive letter for your system.)

   This will open the file SNAGWW.DOC in Word.
4. Select the entire document by choosing **Edit**, **Select All** from the menu. Then choose **Edit**, **Copy** from the menu to copy the document to the clipboard.
5. Choose **Tools**, **Macro** from the menu.
6. In the **Macro** dialog box, type "ScreenCapture" in the **Macro Name** field (with no spaces between the words), and "Activates SnagIt/32" in the **Description** field.
7. Press the **Edit** button to open the macro.
8. Choose **Edit**, **Paste** from the menu to paste in the body of the SnagIt/32 macro.
9. To assign the SnagIt/32 macro to a MS Word menu item, choose **Tools**, **Options** from the menu. This will bring up the **Options** dialog box.

   In the **Options** dialog box, do the following:
   - Choose the **Menus** option from the **Category** list.
   - In the **Menu** field, select "&Insert" from the list.
   - In the **Macros** field, select "ScreenCapture" from the list.
   - Verify that the text in the **Menu Text** field reads "&Screen Capture".
   - Press the **Add** button, and then the **Close** button.
10. Choose **File**, **Close** from the menus. Word will prompt you to confirm that you want to keep your changes. Select the **Yes** button.
11. Choose **File**, **Save All** from the menus. Word will prompt you to confirm that you want to save the global glossary and command changes. Select the **Yes** button.

Word For Windows 95 And Word For Windows 6.0

Follow these steps to install the SnagIt/32 macro in Word for Windows (MS Word) 6.0:

1. Start SnagIt/32, and then start MS Word.
2. Insert the SnagIt/32 distribution diskette in a floppy drive.
3. Choose **File**, **Open** from the MS Word menu. In the **File Name** field, type:

   a:\snagww.doc

   (Where "a:\" is the appropriate diskette drive letter for your system.)

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This will open the file SNAGWW.DOC in Word.

4. Select the entire document by choosing **Edit**, **Select All** from the menu. Then choose **Edit**, **Copy** from the menu to copy the document to the clipboard.

5. Choose **Tools**, **Macro** from the menu.

6. In the **Macro** dialog box, type "ScreenCapture" in the **Macro Name** field (with no spaces between the words), and "Activates SnagIt/32" in the **Description** field.

7. Press the **Create** button to open the macro.

8. Choose **Edit**, **Paste** from the menu to paste in the body of the SnagIt/32 macro.

9. To assign the SnagIt/32 macro to a MS Word menu item, choose **Tools**, **Customize** from the menu. This will bring up the **Customize** dialog box.

   In the **Customize** dialog box, do the following:

   - Select the **Menus** folder at the top of the dialog box.
   - Choose "Macros**"** from the **Categories** list box.
   - Select "ScreenCapture" from the **Macros** list box.
   - Select "&Insert" from the **Change What Menu** drop-down list box.
   - Select "(At Bottom)" from the **Position on Menu** drop-down list box.
   - Verify that the text in the **Name on Menu** field reads "&Screen Capture".

10. Select the **Add** button, and then the **Close** button.

11. Choose **File**, **Close** from the menus. Word will prompt you to confirm that you want to keep your changes. Select the **Yes** button.

12. Choose **File**, **Save All** from the menu. When Word prompts you to confirm that you want to save the global glossary and command changes, select the **Yes** button.

Activating Snagit/32 From Word For Windows

Once you have installed the SnagIt/32 MS Word macro, follow these steps to activate SnagIt/32 from MS Word:

1. Start SnagIt/32, if you have not already done so. You must start SnagIt/32 before you can use the MS Word screen capture menu option.

2. Set up the Windows application that has the screen you want to capture. (For testing purposes, the Windows desktop will work fine.)

3. Return to MS Word, and position the cursor in your MS Word document at the point where you want to insert the screen capture.

4. Select **Insert**, **Screen Capture** from the MS Word menus. The resulting dialog box will allow you to select the area to be captured.

5. Choose the part of the screen you want SnagIt/32 to capture.

6. Select the **OK** button. SnagIt/32 will minimize MS Word, allow you to specify which window or region you want to capture (unless you specified the entire screen, in which case you will not need to select a window or region), and then capture the specified area. When SnagIt/32 is done with the screen capture, it will maximize MS Word and insert the captured screen at the insertion point.

   Once Word has inserted the screen capture into your document, you can move, format, or delete it, as you would any other graphic object in MS Word.