

Escape

The **Escape** function allows applications to access capabilities of a particular device not directly available through GDI. Escape calls made by an application are translated and sent to the driver.

```
int Escape(  
    HDC hdc,                // handle of device context  
    int nEscape,            // escape function  
    int cbInput,            // number of bytes in input structure  
    LPCSTR lpvInData,       // address of input structure  
    LPVOID lpvOutData       // address of output structure  
);
```

Parameters

hdc

Identifies the device context.

nEscape

Specifies the escape function to be performed. This parameter must be one of the predefined escape values. Use the [ExtEscape](#) function if your application defines a private escape value.

cbInput

Specifies the number of bytes of data pointed to by the *lpvInData* parameter.

lpvInData

Points to the input structure required for the specified escape.

lpvOutData

Points to the structure that receives output from this escape. This parameter should be NULL if no data is returned.

Return Value

If the function succeeds, the return value is greater than zero, except with the QUERYESCSUPPORT printer escape, which checks for implementation only. If the escape is not implemented, the return value is zero.

If the function fails, the return value is an error. To get extended error information, call [GetLastError](#).

Errors

If the function fails, the return value is one of the following values.

Value	Meaning
SP_ERROR	General error. If SP_ERROR is returned, Escape may set the last error value to: ERROR_INVALID_PARAMETER ERROR_DISK_FULL ERROR_NOT_ENOUGH_MEMORY ERROR_PRINT_CANCELLED
SP_OUTOFDISK	Not enough disk space is currently available for spooling, and no more space will become available.
SP_OUTOFMEMORY	Not enough memory is available for spooling.
SP_USERABORT	The user terminated the job through Windows Print Manager.

Remarks

The Win32 API provides six new functions that supersede some printer escapes:

Function	Description
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<u>AbortDoc</u>	Terminates a print job. Supersedes the ABORTDOC escape.
<u>EndDoc</u>	Ends a print job. Supersedes the ENDDOC escape.
<u>EndPage</u>	Ends a page. Supersedes the NEWFRAME escape. Unlike NEWFRAME, this function is always called after printing a page.
<u>SetAbortProc</u>	Sets the abort function for a print job. Supersedes the SETABORTPROC escape.
<u>StartDoc</u>	Starts a print job. Supersedes the STARTDOC escape.
<u>StartPage</u>	Prepares printer driver to receive data.

The Win32 API provides six new indexes for the **GetDeviceCaps** function that supersede some printer escapes:

Index	Description
PHYSICALWIDTH	Width, in pixels, of the physical page. (Supersedes the GETPHYSPAGE SIZE escape.)
PHYSICALHEIGHT	Height, in pixels, of the physical page. (Supersedes the GETPHYSPAGE SIZE escape.)
PHYSICALOFFSETX	Offset in the x direction, in pixels, from the upper-left corner of the physical page where the actual printing or drawing begins. (Supersedes the GETPRINTINGOFFSET escape.)
PHYSICALOFFSETY	Offset in the y direction, in pixels, from the upper-left corner of the physical page where the actual printing or drawing begins. (Supersedes the GETPRINTINGOFFSET escape.)
SCALINGFACTORX	Scaling factor for the x-axis of a printer. (Supersedes the GETSCALINGFACTOR escape.)
SCALINGFACTORY	Scaling factor for the y-axis of a printer. (Supersedes the GETSCALINGFACTOR escape.)

Of the original printer escapes, only the following can be used by Win32-based application:

Escape	Description
QUERYYESCSUPPORT	Determines whether a particular escape is implemented by the device driver.

Following is a list of the obsolete printer escapes that are supported only for compatibility with 16-bit versions of Windows:

Escape	Description
ABORTDOC	Stops the current print job and erases everything the application has written to the device since the last ENDDOC escape.
ENDDOC	Ends a print job started by the STARTDOC escape.
GETPHYSPAGE SIZE	Retrieves the physical page size and copies it to the specified location.
GETPRINTINGOFFSET	Retrieves the offset from the upper-left corner of the physical page where the actual printing or drawing begins.
GETSCALINGFACTOR	Retrieves the scaling factors for the x-axis and the y-axis of a printer.
NEWFRAME	Informs the printer that the application has finished writing to a page.
NEXTBAND	Informs the printer that the application has

NEXTBAND	Notifies the printer that the application has finished writing to a band.
PASSTHROUGH	Allows the application to send data directly to a printer.
SETABORTPROC	Sets the Abort function for a print job.
STARTDOC	Notifies a printer driver that a new print job is starting.