

## ExtSelectClipRgn

The **ExtSelectClipRgn** function combines the specified region with the current clipping region by using the specified mode.

```
int ExtSelectClipRgn(  
    HDC hdc,           // handle of device context  
    HRGN hrgn,         // handle of region  
    int fnMode         // region-selection mode  
);
```

### Parameters

*hdc*

Identifies the device context.

*hrgn*

Identifies the region to be selected. This handle can only be NULL when the RGN\_COPY mode is specified.

*fnMode*

Specifies the operation to be performed. It must be one of the following values:

Value	Meaning
RGN_AND	The new clipping region combines the overlapping areas of the current clipping region and the region identified by <i>hrgn</i> .
RGN_COPY	The new clipping region is a copy of the region identified by <i>hrgn</i> . This is identical to <a href="#">SelectClipRgn</a> . If the region identified by <i>hrgn</i> is NULL, the new clipping region is the default clipping region (the default clipping region is a null region).
RGN_DIFF	The new clipping region combines the areas of the current clipping region with those areas excluded from the region identified by <i>hrgn</i> .
RGN_OR	The new clipping region combines the current clipping region and the region identified by <i>hrgn</i> .
RGN_XOR	The new clipping region combines the current clipping region and the region identified by <i>hrgn</i> but excludes any overlapping areas.

### Return Value

If the function succeeds, the return value specifies the new clipping region's complexity and can be any one of the following values:

Value	Meaning
NULLREGION	Region is empty.
SIMPLEREGION	Region is a single rectangle.
COMPLEXREGION	Region is more than one rectangle.
ERROR	An error occurred.

### Remarks

If an error occurs when this function is called, the previous clipping region for the given device context is not affected.

The **ExtSelectClipRgn** function assumes that the coordinates for the given region are specified in device units.

Only a copy of the region identified by the *hrgn* parameter is used. The region itself can be reused after this call or it can be deleted.