

How to block pasting of text from the clipboard into an enabled TEdit

QUESTION

I have a *TEdit* on a form. How do I prevent someone from pasting text from the clipboard into it? The control has to be enabled, so please don't tell me to disable it.

Try this component, which optionally blocks Cut, Copy and Paste:

```
unit MyEdit;

interface

uses
  Windows, Messages, SysUtils, Classes, Graphics, Controls, Forms, Dialogs,
  StdCtrls, Clipbrd;

type
  TPreventNotifyEvent = procedure(Sender: TObject; Text: String;
    var Accept: Boolean) of Object;

type
  TMyEdit = class(TEdit)
  private
    FPreventCut: Boolean;
    FPreventCopy: Boolean;
    FPreventPaste: Boolean;
    FPreventClear: Boolean;

    FOnCut: TPreventNotifyEvent;
    FOnCopy: TPreventNotifyEvent;
    FOnPaste: TPreventNotifyEvent;
    FOnClear: TPreventNotifyEvent;

    procedure WMCut(var Message: TMessage); message WM_CUT;
    procedure WMCopy(var Message: TMessage); message WM_COPY;
    procedure WMPaste(var Message: TMessage); message WM_PASTE;
    procedure WMClear(var Message: TMessage); message WM_CLEAR;
  published
    property PreventCut: Boolean
      read FPreventCut write FPreventCut default False;
    property PreventCopy: Boolean
      read FPreventCopy write FPreventCopy default False;
    property PreventPaste: Boolean
      read FPreventPaste write FPreventPaste default False;
    property PreventClear: Boolean
      read FPreventClear write FPreventClear default False;
    property OnCut: TPreventNotifyEvent read FOnCut write FOnCut;
    property OnCopy: TPreventNotifyEvent read FOnCopy write FOnCopy;
    property OnPaste: TPreventNotifyEvent read FOnPaste write FOnPaste;
    property OnClear: TPreventNotifyEvent read FOnClear write FOnClear;
  end;

procedure Register;

implementation

procedure TMyEdit.WMCut(var Message: TMessage);
var
  Accept: Boolean;
  Handle: THandle;
  HandlePtr: Pointer;
  CText: String;
begin
  if FPreventCut then
    Exit;
  if SellLength = 0 then
```

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    Exit;
CText := Copy(Text, SelStart + 1, SelLength);
try
    OpenClipboard(Self.Handle);
    Accept := True;
    if Assigned(FOnCut) then
        FOnCut(Self, CText, Accept);
    if not Accept then
        Exit;
    Handle := GlobalAlloc(GMEM_MOVEABLE + GMEM_DDESHARE, Length( CText ) + 1);
    if Handle = 0 then
        Exit;
    HandlePtr := GlobalLock(Handle);
    Move((PChar(CText))^, HandlePtr^, Length(CText));
    SetClipboardData(CF_TEXT, Handle);
    GlobalUnlock(Handle);
    CText := Text;
    Delete(CText, SelStart + 1, SelLength);
    Text := CText;
finally
    CloseClipboard;
end;
end;

```

```

procedure TMyEdit.WMCopy(var Message: TMessage);
var
    Accept: Boolean;
    Handle: THandle;
    HandlePtr: Pointer;
    CText: String;
begin
    if FPreventCopy then
        Exit;
    if SelLength = 0 then
        Exit;
    CText := Copy(Text, SelStart + 1, SelLength);
    try
        OpenClipboard(Self.Handle);
        Accept := True;
        if Assigned(FOnCopy) then
            FOnCopy(Self, CText, Accept);
        if not Accept then
            Exit;
        Handle := GlobalAlloc(GMEM_MOVEABLE + GMEM_DDESHARE, Length(CText) + 1);
        if Handle = 0 then
            Exit;
        HandlePtr := GlobalLock(Handle);
        Move((PChar(CText))^, HandlePtr^, Length(CText));
        SetClipboardData(CF_TEXT, Handle);
        GlobalUnlock(Handle);
    finally
        CloseClipboard;
    end;
end;

```

```

procedure TMyEdit.WMPaste(var Message: TMessage);
var
    Accept: Boolean;
    Handle: THandle;
    CText: String;
    LText: String;
    AText: String;
begin
    if FPreventPaste then
        Exit;
    if IsClipboardFormatAvailable(CF_TEXT) then
        begin
            try
                OpenClipboard(Self.Handle);
                Handle := GetClipboardData(CF_TEXT);
                if Handle = 0 then
                    Exit;
                CText := StrPas(GlobalLock(Handle));
                GlobalUnlock(Handle);

```

```

Accept := True;
if Assigned(FOnPaste) then
    FOnPaste(Self, CText, Accept);
if not Accept then
    Exit;
LText := '';
if SelStart > 0 then
    LText := Copy( Text, 1, SelStart);
LText := LText + CText;
AText := '';
if (SelStart + 1) < Length(Text) then
    AText := Copy(
        Text,
        SelStart + SelLength + 1,
        Length(Text) - SelStart + SelLength + 1)
    );
Text := LText + AText;
finally
    CloseClipboard;
end;
end;
end;

procedure TMyEdit.WMClear(var Message: TMessage);
var
    Accept: Boolean;
    CText: String;
begin
    if FPreventClear then
        Exit;
    if SelStart = 0 then
        Exit;
    CText := Copy(Text, SelStart + 1, SelLength);
    Accept := True;
    if Assigned(FOnClear) then
        FOnClear(Self, CText, Accept);
    if not Accept then
        Exit;
    CText := Text;
    Delete(CText, SelStart + 1, SelLength);
    Text := CText;
end;

procedure Register;
begin
    RegisterComponents('Samples', [TMyEdit]);
end;

end.

```

Original resource:	The Delphi Pool
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