Animate tray application windows as they open and close

Have you noticed that when you close the window of a tray application it often doesn't actually close the application but simply hides the window and leaves the application running in the tray: it effectively minimizes the application to the tray. There's usually no visual clue that this has happened as there would be if you minimized a normal application.

We can change this behaviour by using the *DrawAnimatedRects* Windows API function. (See *Tip #46* for an explanation of this function.)

Here is a little static class that your tray applications can use to animate the window caption, zooming to the tray when the window closes and zooming from the tray when it opens.

```
unit UTrayZoom;
interface
uses
 Windows;
type
  TTrayZoom = class(TObject)
   class function GetTrayRect: TRect;
    class procedure DoZoom(const Wnd: HWND; const Src, Dest: TRect);
    class procedure ZoomToTray(const Wnd: HWND);
    class procedure ZoomFromTray(const Wnd: HWND);
implementation
class procedure TTrayZoom.DoZoom(const Wnd: HWND; const Src, Dest: TRect);
  DrawAnimatedRects (Wnd, IDANI CAPTION, Src, Dest);
class function TTrayZoom.GetTrayRect: TRect;
 TaskbarWnd, TrayWnd: HWND;
begin
 TaskbarWnd := FindWindow('Shell_TrayWnd', nil);
 TrayWnd := FindWindowEx(TaskbarWnd, 0, 'TrayNotifyWnd', nil);
  GetWindowRect(TrayWnd, Result);
class procedure TTrayZoom.ZoomFromTray(const Wnd: HWND);
var
  WndRect: TRect;
  GetWindowRect(Wnd, WndRect);
  DoZoom(Wnd, GetTrayRect, WndRect);
class procedure TTrayZoom.ZoomToTray(const Wnd: HWND);
 WndRect: TRect;
begin
 GetWindowRect(Wnd, WndRect);
  DoZoom(Wnd, WndRect, GetTrayRect);
end;
end.
```

The *DoZoom* method simply wraps the call to *DrawAnimatedRects*. *GetTrayRect* gets the bounding rectangle of the tray area of the task bar. (See *Tip #47* for details of how to find the tray window handle.) The two public methods *ZoomToTray* and *ZoomFromTray* zoom the specified window to and from the tray respectively. The *Wnd* parameter to these methods should be the window handle of the form that you are zooming to and from the tray.

Usage

When your tray application is opening from the tray call *TTrayZoom.ZoomFromTray*. You may possibly do this in a menu item's *OnClick* event handler. When your application is closing to the tray call *TTrayZoom.ZoomToTray*. This may be done in the form's *OnClose* or *OnCloseQuery* event handlers. Exactly where and when you call *TTrayZoom*'s methods will vary from application to application.

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Added:	2007-08-14	
Last updated:	2007-08-14	

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