## Subject: tray icon & balloon notification Posted by hojtsy on Wed, 01 Feb 2006 15:32:07 GMT

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I would like to to put an icon into the tray (notification area) on Windows. I also would like to display notification balloons even when my application is not in focus. Is this supported by U++?

Subject: Re: tray icon & balloon notification Posted by mirek on Wed, 01 Feb 2006 17:01:28 GMT

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Define "supported"

This is how I use it:

Yes, you can do it with U++ app. Anyway, there is no direct cross-platform support, you will have to use Win32 API.

Mirek

Subject: Re: tray icon & balloon notification
Posted by unodgs on Thu, 02 Feb 2006 07:51:13 GMT

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I have modified a TaskbarButton class posted by Tom to work with my Ultimate Player (it was not compatybile with newest upp). It is not finished, but you can use it

```
struct MyApp: TopWindow
{
    TaskbarButton tray;
}

main...

MyApp app;

app.Open()
app.tray.lcon(Mylcon()).Label("MyApp");
app.tray.lnit(app.GetHWND());
app.Run();
```

Use WhenDouble and WhenBar callbacks to add action for double click and popup menu.

Here it is the question to Mirek. As you can see I have to open appilication first to get the HWND for tray. It isn't the upp way . I saw that Tom was using (overloading) CrateInit(HWND hwnd)

method wich is not supported now and which was called when hwnd was known (I suppose so). This was very useful and made code much clener. Is it possible to get this method back?

## File Attachments

1) TaskbarButton.zip, downloaded 1510 times

Subject: Re: tray icon & balloon notification Posted by mirek on Thu, 02 Feb 2006 19:38:34 GMT

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What about something like

app.tray.Open(app)?

Mirek

Subject: Re: tray icon & balloon notification

Posted by unodgs on Thu, 02 Feb 2006 20:32:19 GMT

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Hmm, what you mean by that?

Are you suggesting adding Open mathod to the TaskbarButton class like this one...

```
TaskbarButton::Open(TopWindow &wnd)
{
   wnd.Open()
}
```

.. to reduce main initialize code?

Frankly I would like to have a better solution. I had the same problem with other 3rd party libraries which required to pass to them hwnd value. What about adding WhenShow callback in TopWindow class which should be called when hwnd is accessible?

Subject: Re: tray icon & balloon notification Posted by mirek on Thu, 02 Feb 2006 22:00:59 GMT

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How about overriding Ctrl::State and catching "OPEN"/"CLOSE" ?

Mirek

Subject: Re: tray icon & balloon notification Posted by unodgs on Fri, 03 Feb 2006 07:45:57 GMT

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Yes, I know, but to make the condition reason == OPEN true I need call Add in main application constructor:

```
App()
{
   Add(tray);
}
```

I don't want to do that, because tray control is not a layout control and the final result is a red box (in debug mode) displayed in the left-upper corner (it is ok as I did not set position and tray dosn't have a Paint method).

Could you add another value for reason - WINDOW? In this state GetHWND() should return a proper handle.

Subject: Re: tray icon & balloon notification Posted by mirek on Fri, 03 Feb 2006 10:42:27 GMT View Forum Message <> Reply to Message

Well, I guess the confusion here is that HWND used for tray icon is quite unrelated to TopWindow. You would need to override TopWindow::WindowProc to handle it correctly.

I have tried different solution- tray icon with separate HWND and it seems to work fine - per popular demand, Traylcon is now the part of U++.

## Example:

```
struct App : Traylcon {
  void Info() {
    PromptOK("Traylcon launched this prompt!");
  }

void Menu(Bar& bar) {
  bar.Add("Info..", THISBACK(Info));
  bar.Separator();
  bar.Add("Exit", THISBACK(Break));
  }

typedef App CLASSNAME;

App() {
  WhenBar = THISBACK(Menu);
}
```

```
WhenLeftDouble = THISBACK(Info);
Icon(CtrlImg::File());
Tip("This is U++ tray icon");
};

GUI_APP_MAIN
{
App().Run();
}
```

Subject: Re: tray icon & balloon notification

Posted by hojtsy on Fri, 03 Feb 2006 11:45:29 GMT

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Can the icon of a Traylcon be changed after construction?

Is there some wrapper function which can be used to hide the taskbar button of an application, so that the application can "minimize to the tray", or do I have to use Win32 for that?

I would like to monitor a web server from an u++ app and dislpay an auto-hiding balloon notification if the server fails. Also the status could be displayed in a tooltip when the mouse is hovered over the tray icon. Are there methods for the notification and tooltip in the Traylcon?

Subject: Re: tray icon & balloon notification Posted by mirek on Fri, 03 Feb 2006 12:38:42 GMT

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Icon/Tip can be changed whenever you want.

To "minimize to tray", my guess is that simple minimize+close would work quite well.

"balloon" is, AFAIK, not related to tray icon (but I might be wrong).

Mirek

Subject: Re: tray icon & balloon notification

Posted by hojtsy on Fri, 03 Feb 2006 14:54:17 GMT

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luzr wrote on Fri, 03 February 2006 07:38To "minimize to tray", my guess is that simple minimize+close would work quite well. I think I will rather hide it with WndShow(false). I would like

to keep the internal state of the window unchanged when "minimized" to the tray.

Other question: Could you add a TopWindow method to set the window topmost, which calls SetWindowPos(hWnd, HWND\_TOPMOST, ...)?

Subject: Re: tray icon & balloon notification Posted by mirek on Fri, 03 Feb 2006 16:04:36 GMT

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Well, there is no WndShow in U++, but Hide calls it for TopWindow... And you are right, hiding is good as well.

OTOH, U++ is designed that it mostly does not matter. Only "internal state" that really exists is focus - and that one is stored as "active focus" in TopWindow anyway.

Other anwser:

Well, I can adding TopMost modifier, but for now please use:

TopWindow& ExStyle(dword \_exstyle); dword GetExStyle() const;

(like ExStyle(GetExStyle() | WS\_EX\_TOPMOST)

(note that it works the U++ way - does not matter whether TopWindow is open or not).

Mirek

Subject: Re: tray icon & balloon notification

Posted by hojtsy on Fri, 03 Feb 2006 16:19:41 GMT

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luzr wrote on Fri, 03 February 2006 11:04Well, there is no WndShow in U++It is a method of Ctrl. But I noticed now that it is private.

ExStyle(GetExStyle() | WS\_EX\_TOPMOST) is OK, no need for another method.

Subject: Re: tray icon & balloon notification

Posted by hojtsy on Mon, 06 Feb 2006 12:38:18 GMT

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Hi I am having a problem with making a window topmost (floating above windows of other applications). With this function I can make a window topmost:

::SetWindowPos(GetHWND(), HWND\_TOPMOST, 0,0,0,0, (UINT)(SWP\_NOMOVE | SWP\_NOSIZE));

But this other one you suggested does not work:

ExStyle(GetExStyle() | WS\_EX\_TOPMOST);

Additionally on linux the GetExStyle is undefined. It would be better to have a dummy function returning default values.

Subject: Re: tray icon & balloon notification

Posted by mirek on Mon, 06 Feb 2006 13:11:11 GMT

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OK, I hope ExStyle is fixed now.

As for empty implementations in Linux, I do not agree - I do not like the idea of silently ignored problems.

Use #ifdef PLATFORM\_WIN32 conditional compilation instead.

Mirek

Subject: Re: tray icon & balloon notification

Posted by hojtsy on Tue, 07 Feb 2006 12:09:36 GMT

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ExStyle(GetExStyle() | WS\_EX\_TOPMOST); Still not OK in 602 beta. It results in some kind of freezing of the window. It can no longer be resized, only moved, controls in the window no longer react to mouse clicks, and right click on the title bar opens up an incorrectly aligned menu, which contains the only way to close the application (not counting killing from Task Manager).

Subject: Re: tray icon & balloon notification Posted by mirek on Tue, 07 Feb 2006 21:40:48 GMT

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Well, I hope I have fixed it, however, later I have found that it cannot work for WS\_EX\_TOPMOST:

http://msdn.microsoft.com/archive/default.asp?url=/archive/e n-us/win9x/verdiff 2awj.asp

so SetWindowPos is now the best option...

Mirek

Subject: Re: tray icon & balloon notification Posted by hojtsy on Fri, 10 Feb 2006 09:26:53 GMT

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It is typical for popup menus created by tray icons to have a menu entry with bold font. Can this be accomplised with U++?

Subject: Re: tray icon & balloon notification Posted by mirek on Fri, 10 Feb 2006 09:45:05 GMT

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Yes, but just accidentally and not very nice way:

Typecast result of bar.Add... to MenuItemBase and use SetFont.

Putting to todo.... (but I do not see any nice way now..)

Mirek