Subject: DBus integration -- need help Posted by jlfranks on Thu, 20 Jul 2017 15:30:07 GMT View Forum Message <> Reply to Message

We are trying to add a DBus server to existing large U++ application that runs only on Linux. I've converted from X11 to GTK for Upp project config to be compatible with GIO dbus library.

I've created a separate thread for the DBus server and ran into problems with event loop. I've gutted my DBus server code of everything except what is causing an issue. DBus GIO examples use GMainLoop in order for DBus to service asynchronous events.

Everything compiles and runs except the main UI is not longer visible. There must be a GTK main loop already running and I've stepped on it with this code. Is there a way for me to obtain a pointer to the UI main loop and use it with my DBus server?

How/where can I do that?

Code snipped example as follows:

```
Subject: Re: DBus integration -- need help
Posted by Klugier on Thu, 20 Jul 2017 22:30:17 GMT
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```

Hello,

You could try use following methods of Ctrl to obtain gtk & gdk handlers:

```
GdkWindow *gdk() const { return top ? top->window->window : NULL; } GtkWindow *gtk() const { return top ? (GtkWindow *)top->window : NULL; }
```

Probably with these two variables you could try to integrate D-BUS. Sometimes ago I plan that innovation for U++, but it will require time to develop that we don't have it too much now. D-Bus could be usefull for develop such features as notification and global menu and probably more.

You could also see our GTK backend code easily. Just go to CtrlLib and analyze the files under "Gtk" separator. Probably there you will find the handling of event loop.

If you guys create something that could be used as library. It would be nice to keep it as open source.

Sincerely and good luck with implementation, Klugier

Subject: Re: DBus integration -- need help

Posted by ilfranks on Fri, 21 Jul 2017 11:30:19 GMT

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Thank you for responding so quickly.

I will look into using those suggestions, but we have no time scheduled for this kind of integration.

If I can get something to work, I'll let you know.

-- Jeff

Subject: Re: DBus integration -- need help

Posted by jlfranks on Fri, 21 Jul 2017 13:01:09 GMT

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Klugier,

I've examined the code you suggested and in fact found many elements related to GtK.

What I have not been able to find if the GtK main event loop. Is there another U++ event loop that is used as the Gtk main event loop?

I've just not been able to identify that component in order to integrate GDbus into the main loop.

-- Jeff

Subject: Re: DBus integration -- need help Posted by mirek on Fri, 25 Aug 2017 07:05:53 GMT

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U++ is not directly using GTK main loop. Further problem is that in U++, only main thread is allowed to run event loop - this is limitation inherited from Win32 (more or less).

You can call Ctrl::ProcessEvents at any time to fetch and process any GUI related pending events (but just from the main thread).

I suggest to post existing code, I can look into it about alternatives...