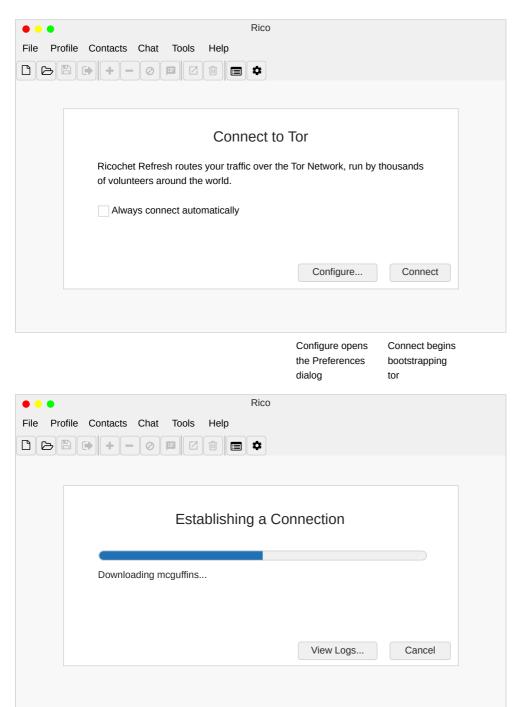
### Rico - Connect

Users first reach this screen on application launch. At this point, the application is not yet connected to the Tor Network. This screen will allow the user to connect and/or configure the application preferences (including connection settings).



Open the Tor

Logs dialog

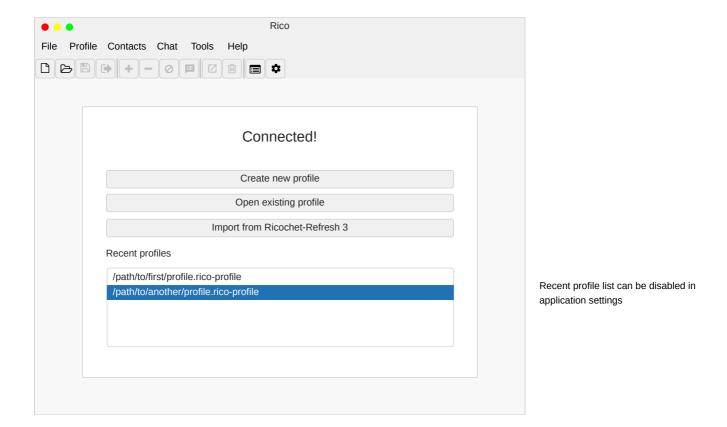
Cancel current

bootstrap attempt

We will try to follow a desktop'ified version of Tor Browser's about:torconnect page here

### Rico - Connected

User reaches this page after succesfully connecting to the Tor Network

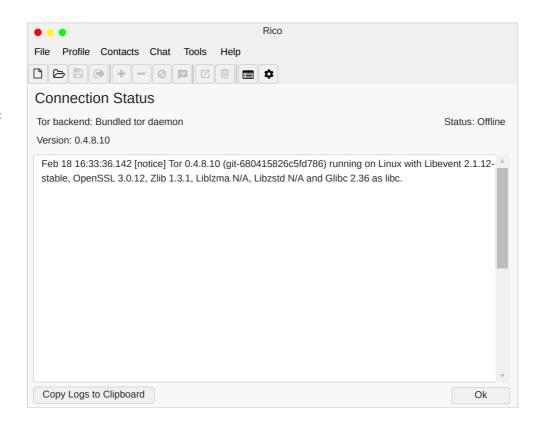


### Rico - Connection Status

Provide logs from the underlying Tor Provider. Some Tor Providers will not have logs to display (eg System Tor Daemon)

Other possible backends:

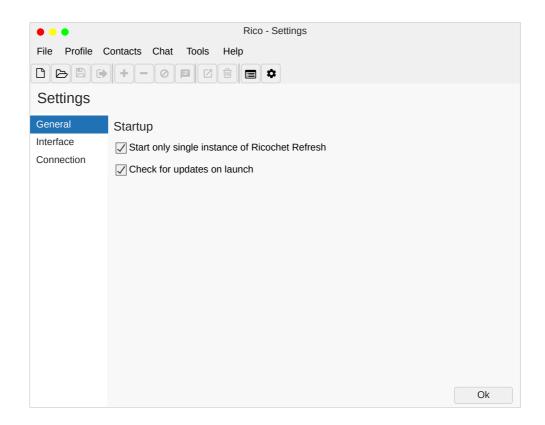
- system tor daemon
- in-proc arti-client
- bundled arti daemon
- system tor daemon Statuses:
- Offline
- Connecting
- Connected



# Rico - Settings (General)

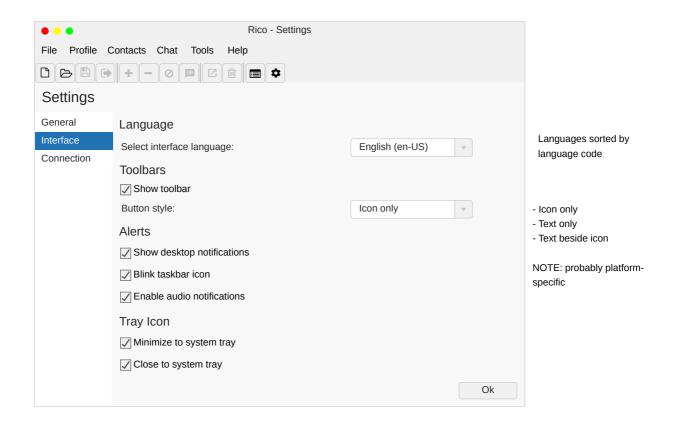
The General section of the Preferences pane. Should enable configuring general application behaviour that are not specific to the other sections.

All options in this dialog must be safe to store unencrypted in the application config; no privacy or security related settings belong here! Those must be saved in the profile itself.



# Rico - Settings (Interface)

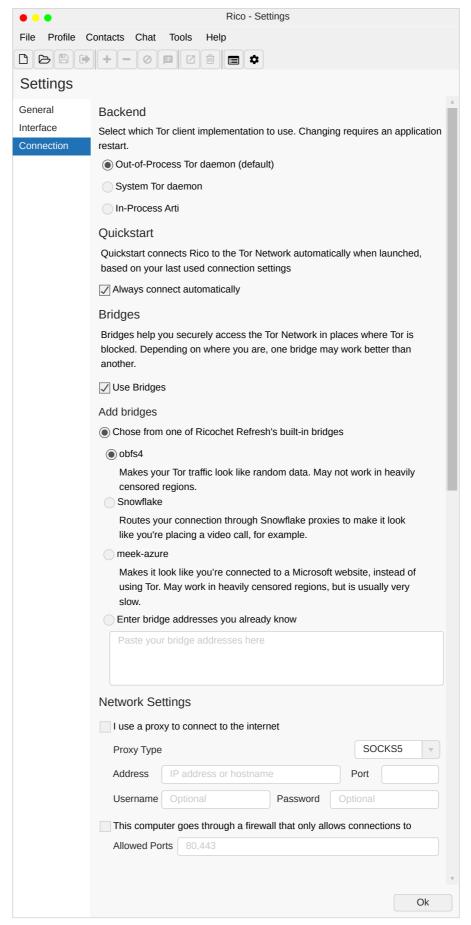
The Interface section provides users with UI customisation options



## Rico - Settings (Connection)

The Connection section provides users with Tor Provider related options. This page may vary a lot depending on which Tor Provider is selected. For instance, a System Tor Daemon Tor Provider (eg on Tails) would have this section almost entirely empty. For now let's have this mostly mirror about:preferences#connection in Tor Browser.

This entire section will be disabled if the user is already connected to the Tor Network



Add bridges region collapses if Use bridges is not ticked

### Rico - Unlock Profile

Users reach this window after connecting to the Tor Network and opening a profile. A password is required to decrypt a Rico profile. Obviously we draw a lot of inspiration here from KeyPassXC and friends.

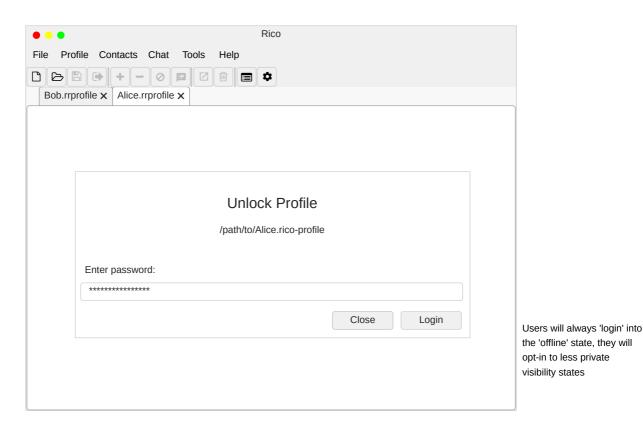
#### Menus

File: Profile: Contacts: Chat: Tools: Help: - Licenses menu option - New Profile - Set Visibility - Add Contact... - Export Logs... - Downloads... - Manual should open a folder - Open Profile... - Online - Delete Contact - Delete Logs... - Tor logs... - Licenses... containing relevant licenses - Close Profile - Restricted - Connect/Disconnect - Preferences... - Changelog menu option - Save Profile As... - Hidden Contact - Check for Updates... opens CHANGELOG.txt in - Copy Ricochet Id - Ban/Unban Contact - Changelog... system default text editor - Edit Profile... - About - Logout - Logout All Profiles

- Quit

#### Toolbar Icons

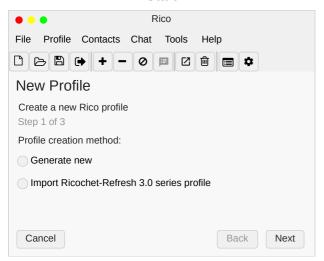
New Profile, Open Profie, Save Profile As, Logout | Add Contact, Delete Contact, Ban Contact, Connect/Disconnect Contact | Export Logs, Delete Logs | Connection Status, Preferences



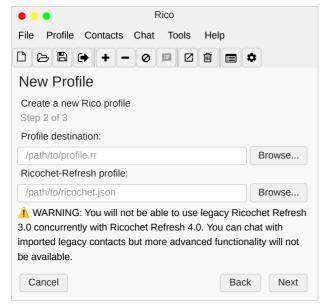
### Rico - New Profile

Accessed via New Profile button or New Profile... option in File menu. Walks the user through creating a new Rico profile.

#### Start

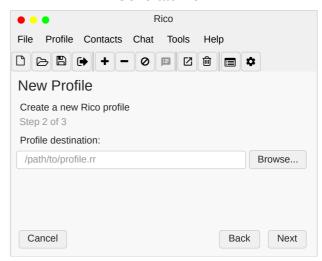


#### Import Legacy

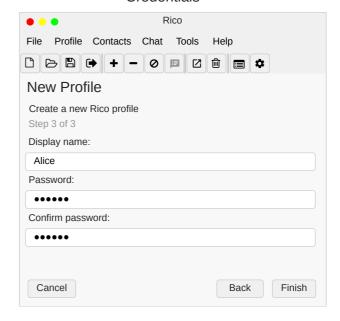


TODO: Maybe we add a 4th screen with a summary along with the rico id.

#### Generate New



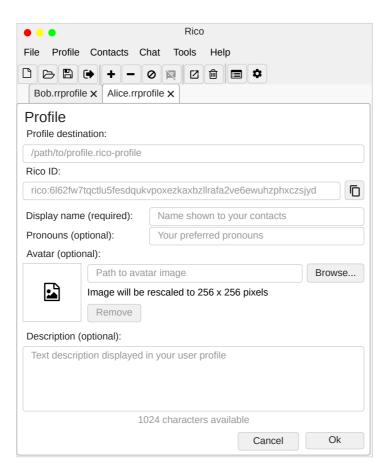
#### Credentials



Finish writes new profile to disk and focuses new profile tab in the main chat view

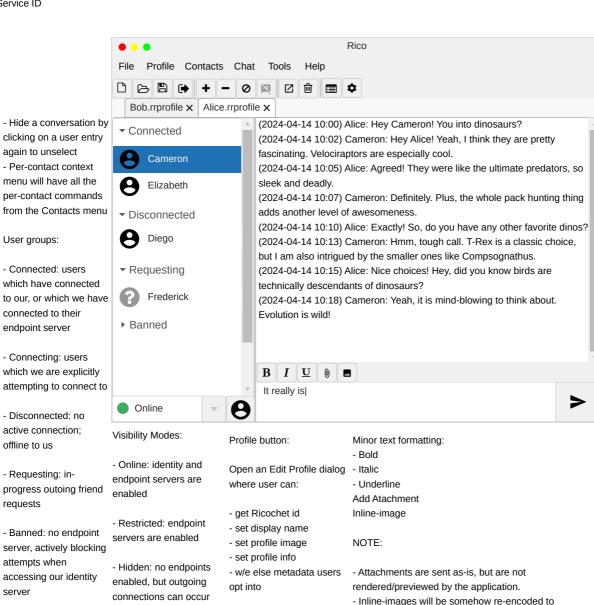
### Rico - Profile

Profile view/edit is necessarily part of a loaded profile, so it appears within a profile tab. The user can get the rico id associated with this profile here.



## Rico - Conversations (Online)

Profile tab when the user is logged in. In 'Online' mode identity and endpoint servers are enabled, anyone can cyberstalk the user if they know the user's Identity Server Service ID



user status
(connect/disconnect)
messages will appear in
chat

TODO: Chat

- URLS will never open a

option to copy the URL to

conversations should be

standardised to avoid

leaking user's locale re

formatting options, etc -

timestamps, any potential

browser, only open a

context menu with the

clipboard - exported

TODO: Chat Thumbnail and Image UI; images should have be optionally spoiler'd and have text descriptions

TODO: Incoming
Friend Request flow

TODO: Status bar with: Onion Service status, reachability, service id

TODO: Smily selector

TODO: Invite-only connectivity to identity server using client auth

 Inline-images will be somehow re-encoded to hopefully avoid malformed image decoder bugs/exploits

- Offline: no endpoints enabled, no outgoing connections either

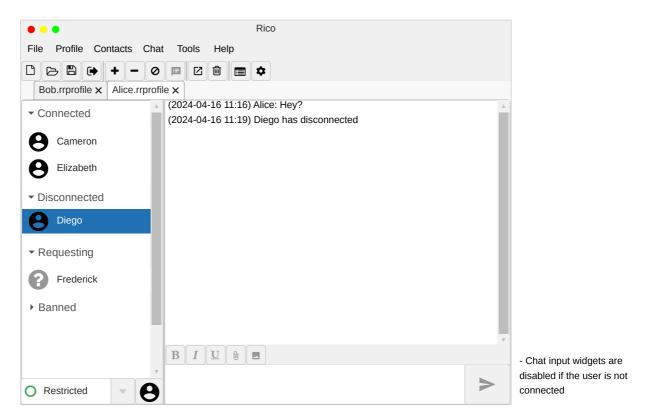
NOTE: Online should really communicate most risk, users can be cyberstalked if they always stay in Online mode

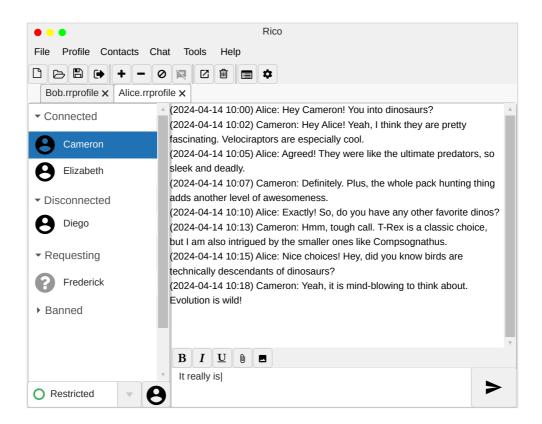
Minor text formatting:

- Bold
- Italic
- Underline
   Add Atachment
   Inline-image

## Rico - Conversations (Restricted)

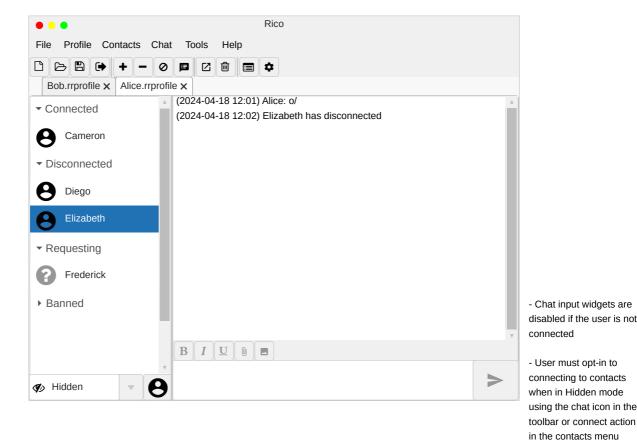
In 'Restricted' mode (identity server disabled, endpoint servers enabled) only confirmed/allowed contacts may contact us. New contacts will not be able to access the public identity server to get through the gosling handshake to get their own endpoint server. This way stranges will not be able to cyber-stalk a user based off of their (potentially) public identity server. The UX should be identical to Online mode, except the user will never receive new friend requests.



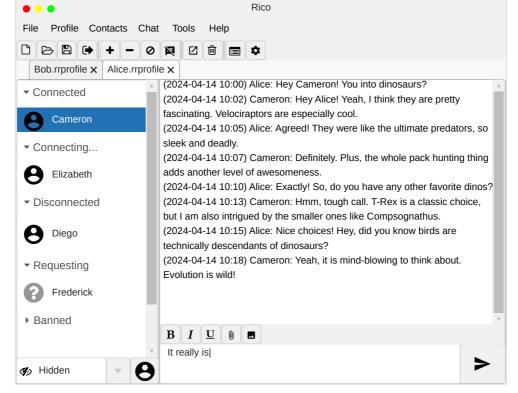


## Rico - Conversations (Hidden)

In 'Hidden' mode we do not enable any of our endpoint servers or identity servers, so even contacts do not gain our online/offline metadata. Connections are outgoing only and must be explicitly initiated by the user. This does imply that two users which are both in 'Hidden' mode will not be able to ever connect to each other!



- Contact goes into Connecting... group when connect is initiated
- Once a user reaches Connected, then chat can happen



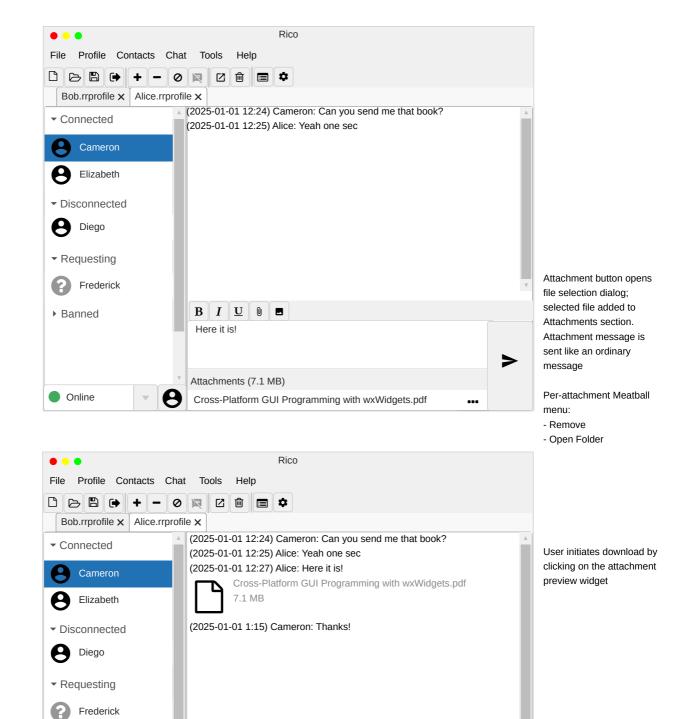
### Rico - Attachments

Attachments in general appear in-line with chat messages.

▶ Banned

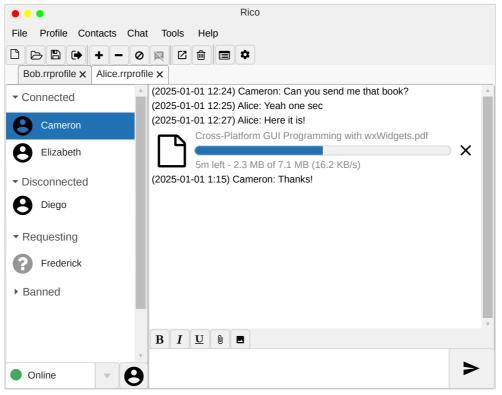
Online

 $\mathbf{B} \mid I \mid \mathbf{U} \mid \mathbf{0} \mid \mathbf{\Xi}$ 



## Rico - Attachments (continued)

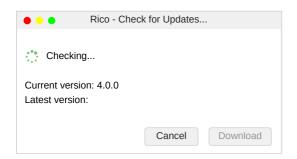
Attachments in general appear in-line with chat messages.



User initiates download by clicking on the attachment preview widget; on cancel widgets goes back to original ready to download state

## **Updates Dialog**

Accessed via the Help > Check for Updates... menu item. This will open a dialog which pings an onion service for update jsons, which will tell this dialog which install media/package to download.



- Check happens over Tor to Onion Service endpoint
- Will need some to maintain some update jsons



- Ricochet Refresh is up to date so we good



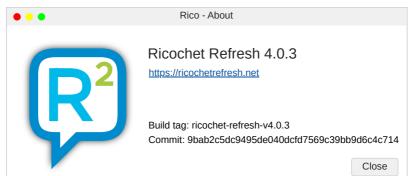
- Download the correct package based on the current insalled version (eg a deb, appimage, dmg, windows installer, etc
- Download button will open Downloads dialog

# **About Dialog**

Accessed via the  $\operatorname{Help}$  > About menu item. Dialog should show simple version and build info

Like in chats, the URL will open a context menu allowing the user to copy the link to the clipboard

### Stable Channel



Ensure tag and commit labels are copy-able

#### Alpha Channel

