

# Social network plugin for telepathy framework

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Connecting People



9<sup>th</sup> FRUCT conference, April 26–29, Petrozavodsk, Russia

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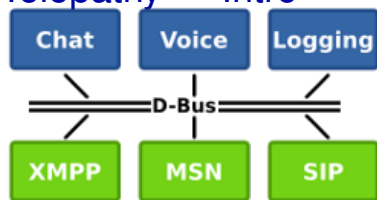
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# Telepathy — Intro



**Telepathy** — is modular messaging framework, that provides functions for instant messaging applications.

- **Modularity** — each protocol is represented by one module.
- **Separate processes** — each module is represented by one process.
- **Language bindings**
  - ▶ GObject
  - ▶ C++ (Qt)
  - ▶ Python
  - ▶ Any language that support D-Bus



# Telepathy — Clients

There are several applications, that supports Telepathy Framework.

- **Empathy** — Default messaging program for GNOME desktop environment.
- **Maemo IM Client** — Default messaging program for Maemo OS
- **MeeGo Client** — Default client for Handset version of MeeGo operation system. MeeGo Netbook uses Empathy.
- **Decibel** — Obsoleted messaging framework for KDE



# Project idea

- MySocials project that aims to provide set of applications to access to social networks
  - ▶ VKontakte
  - ▶ Facebook
  - ▶ Flickr
  - ▶ Mail.ru
- Common MySocials API.
  - ▶ Messages
  - ▶ Friends
  - ▶ Photos



# Library access approach

## Advantages:

- Universality. Not all social networks supports proactive API.
- Information can be retrieved from different sources.
  - ▶ Private messages
  - ▶ Public messages
  - ▶ Photo
- Only required information
- No unnecessary information is transmitting
- Minimal traffic



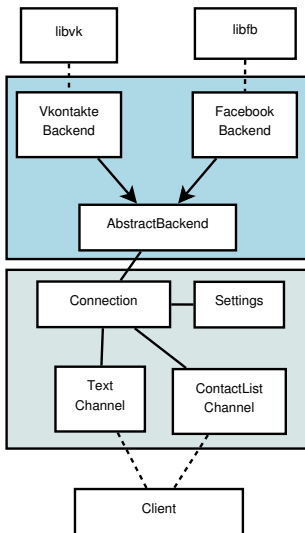
# Jabber access

## Jabber

- Jabber access available only if it is supported by service
- Jabber updates information faster because of proactive approach.



# Architecture



- **Backends** responsible for communication with social networks through MySocials API
- **Channels** responsible for communication with client
- **Settings object** encapsulates storing/loading logic and can has different backends (e.g. ini-files, sqlite3)
- **Connection** is main DBus, that allows client to create channels managers, channels, receive avatars, presence informations.





# Plugin features

## ■ Roster

- ▶ Periodic update of information
- ▶ Period of update is set by user

## ■ Messages

- ▶ Periodic update
- ▶ Request for new messages
- ▶ Plugin not downloads old messages

## ■ Avatars



# Implementation

## Metrics:

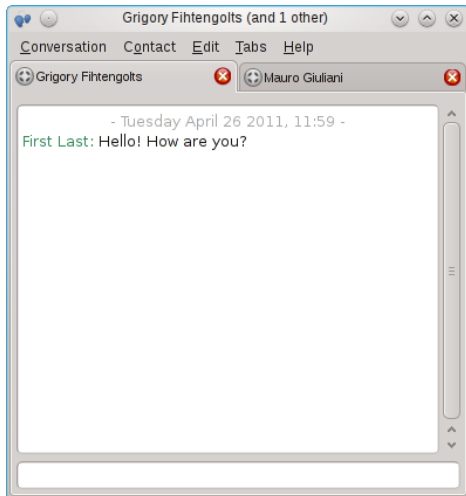
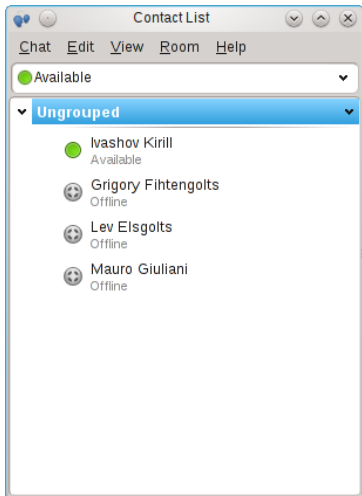
- 14 GObject classes
- 6700 Lines of code

## External tools:

- **GLib** — C Library containing a lot of useful tools. (Hash tables, Arrays, RegEx parsers are used in project)
- **Telepathy-GLib** — Wrapper around Telepathy DBus API
- **GObject** — OOP library for C
- **MySocials** — Libraries for access to social networks.



# Screenshots



# Links

- Wiki: <http://oss.fruct.org/wiki/VkTelepathy>
- Repository: <https://gitorious.org/vktelepathy>
- MeeGo Repository:  
<https://build.pub.meego.com/package/show?package=vktelepathy&project=home:kulakov>
- OBS Repository: <https://build.opensuse.org/package/show?package=vktelepathy&project=home:mysocials>
- Email: [maemo-mysocials@cs.karelia.ru](mailto:maemo-mysocials@cs.karelia.ru)



# Future plans

- Integration with MeeGo Accounts Framework
  - ▶ Make settings interface for plugin
  - ▶ Modify RPM spec files to support MeeGo Handset
- Support for different social networks (not only vkontakte)



**Thanks you for you attention!**

