

Telepathy Meeting FOSEM 2006

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Outline

- Current State (Presentation Robert)
- About Us, Our Motivation
- What is Missing (my view)
- Free Discussion

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About Us

Our Motivation

basysKom GmbH

- GmbH since 2004
- Strong open source roots
 - Eva is president of KDE e.V.
 - Involved in various opensource projects
- Providing services and products based on Qt/Qtopia

Vision: Freedom of Choice

- What does the user care for?
 - Workflow
 - Usability specialized for the task
 - Access to data
 - Communication
 - Interoperable protocols, codecs, etc..
 - Availability

The user should be able to use

- **the best application for his workflow**
- **without caring for technology!**

Our Motivation:

Linux needs a standard infrastructure for realtime communication

Current solutions are not satisfying the needs of users

DBUS is a great chance to work together (KDE, GNOME, ...) and remove useless architectural differences

There already exist great applications, advanced protocol and codec implementations.

We want them to work together!

basysKom Project (Codename OpenCDI)

- Donated by Stichting NLnet
- Start in March 2006
- Aim:
 - Integrate CTI functionality into Linux
 - Support PSTN hardware (1st party control)
 - Support Softphones (1st party control)
 - Support PBX systems (3rd party control)
 - Establish a service architecture for multimedia based communication
 - Desktop and platform independent!
 - Reliable and robust implementation
 - Create or strengthen an open source community process
 - „Get the right people for the work“

What is Missing

Mission Control

- Launches connection managers and desktop apps/services
- Provides information about
 - presence of remote users
 - connection states, active connection managers, ...
- Handles my presence
- Informs desktop handlers about changes
 - Created/removed channels
 - Presence of remote users
 - Remote connection requests
- Reacts on connection requests and activate/choose of the appropriate connection manager
- ...

What we have to discuss:

- Common service manager vs. desktop service
- Overview of common services between KDE, Gnome and ...
 - What do desktop applications and services expect/need?
 - What do connection managers need?
- Thinking of some kind of intelligence:
 - Handling conflict situations
 - Allocating most satisfying configuration automatically
 - Automatic allocation of low level resources (audio/video)
 - Automatic stream format conversion
- D-BUS Spec.
- Example implementation

Connection Managers

- Support PBX-Systems
 - Asterisk
 - other telephony hardware (Gigaset Series, ...)
- Audio Codecs
 - G.711a
 - Speex
- Video-Codecs
 - ...

Anything real important missing?

D-BUS/Telepathy Binding

- Interface description exists as XML (libtelepathy).
- IDL Compiler?
 - CIDL by David A. Wheeler: Just a test. Generates XML file from Corba IDL description.
 - gengobj.phy: Generates C-Skeleton from XML file
 - Hard to manage/regenerate.
 - Other languages? C++, Java, ...
- „moc“ like solutions
 - Qt + KDE 2,3: dcopidl, dcopidl2cpp
 - Qt 4 + KDE 4: D-BUS will be integrated directly into moc

Just easy integration will attract developers!

Misc.: Documentation, Community

- Sequence charts or similar descriptions of the protocol behavior
- Community resources:
 - Web presentation for
 - users
 - How to install and use
 - developers
 - How it works, tools, protocol descriptions, backend interface, ...
 - Everything at one place
 - SVN
 - Bugtracker

Free Discussion

Agenda

- Missing components
 - Mission Control
 - Protocol spec.
 - Commonly needed services
 - Ressource handling
 - Conflict management
 - Connection managers
 - Which are essential and missing?
- Bindings
 - Automatic code generation (wrappers, etc.)
 - Supported languages?
- Community process
- ...

Btw.:
We are hiring!