



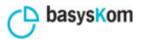
#### KDE4

#### **Decibel – You are not alone!**

http://decibel.kde.org/

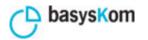
Dipl.-Technoinform. Tobias Hunger basysKom GmbH

#### What is the fuss about?





What do we want to do?



# DEISYSKOM

### Decibel will be a real time communications framework

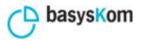
What is real time communication

- Instant Messaging
- VoIP/Video conferencing
- Computer Telephone Integration (CTI)

## Why a framework?

- communication is one of the fundamental use cases of computers
- integrated communication is a prerequisite of collaboration

#### **Technologies**





Which technologies exist?



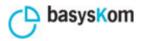


Telepathy is a RT communications infrastructure

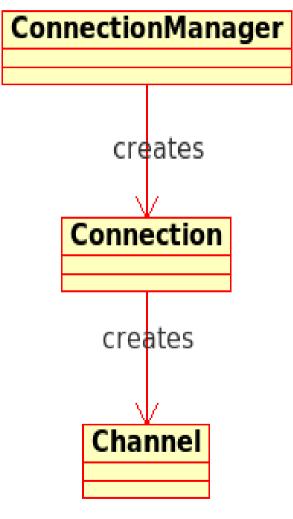
- Defines DBus interfaces to access RT communication services
  - desktop independent specification
  - low level API
- hosted at freedesktop.org
- Implementation of jabber protocol is available, used in existing products.
- Gnome seems to be heading into this direction

URL: http://telepathy.freedesktop.org/wiki/

### **Technologies: Telepathy II**



# DEISYSKOM



### **Connection Manager:**

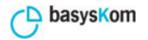
Implements protocol(s)

#### **Connection:**

 Represents one connection to one server using one of the protocols supported by the Connection Manager

### **Channel:**

• Represents one class of information transmitted over a connection



## DEISYSKOM

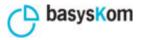
Tapioca used to be a infrastructure competing with Telepathy. Today they implement the Telepathy specification.

- Qt Bindings for Telepathy (QtTelepathy) with raw DBus bindings
- "Convenience wrapper" QtTapioca hiding some of the messier details



URL: http://tapioca-voip.sourceforge.net/wiki/index.php/Tapioca

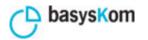




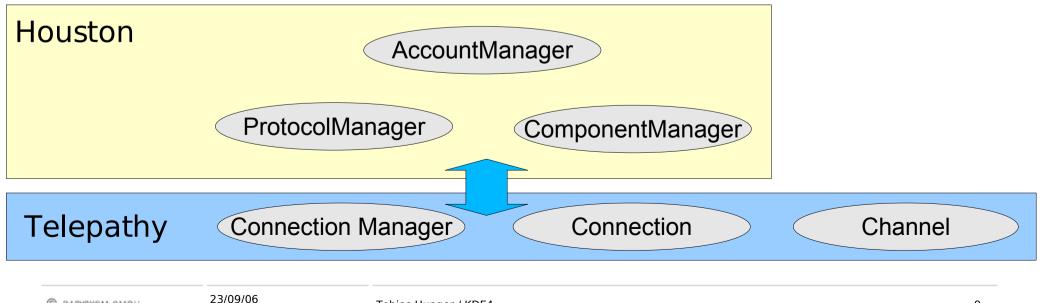


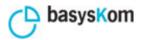
#### What will Decibel offer in addition to all that?

#### **Decibel: Houston**



- 11122401
- Provides desktop independent DBus interfaces to high level RT communication features.
- Persistently stores user data (accounts, preferences, etc.)
- Starts/stops Connection Managers as required
- Starts/stops desktop dependent components as required.

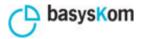






The AccountManager persistently stores the user's account data in one central place including:

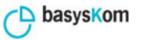
- Connectivity information (account is online/offline)
- Visibility information (hidden, free to chat, etc.)
- Privacy information (invisible to user X, etc.)
- etc.





## ProtocolManager encapsulates Telepathy's Connection Managers:

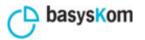
- Holds a list of Connection Managers installed with supported protocols
- Selects Connection Manager to use for a protocol
- Persistently stores preferred Connection Managers
- Uses the data stored in the AccountManager to bring up Connection Managers as requested.





#### The ComponentManager

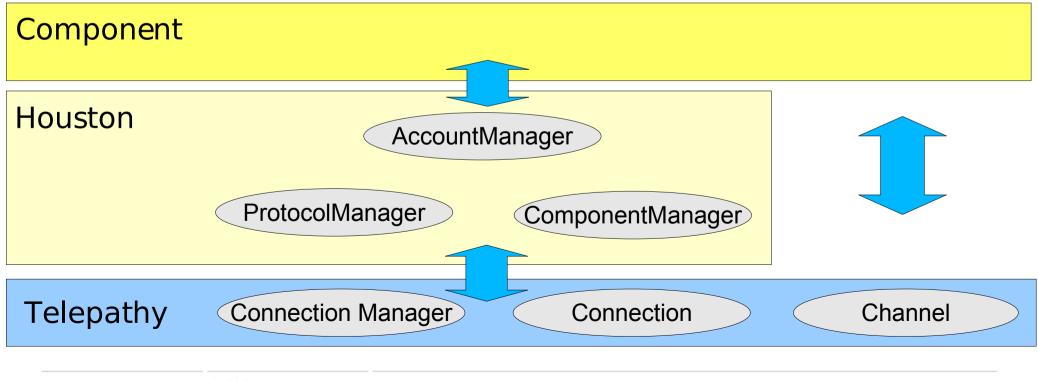
- is a registry for components.
- stores the user's preferences on which component is supposed to handle which kind of channel
- is notified on New Channel events
- decides what do do with a new channel by deciding on which component to use to handle it.

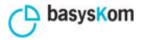




Specialized applications started by Houston

- Desktop specific!
- Handle one specific task well
- Work in concert with Houston and other componets

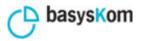






Where is the code?

#### Status





We are behind schedule :-(

• Mostly due to HR issues

But we got some things done already:

- Qt bindings to Telepathy were missing
- QtTapioca was launched to make writing applications like Houston easier
- Houston implementation
- KDE specific components

Your help is welcome!

[done]

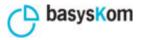
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PS:







#### Please consider participating in the BoF Session

### "Realtime Communication & Collaboration"

on

#### Tuesday, September 26th, 6pm to 7pm, LB04

