



# Telepathy

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Collabora 

The logo icon for Collabora consists of a large blue circle on the left, with several smaller blue circles of varying sizes connected to it by thin lines, resembling a network or a cluster of nodes.

# The Unix Way

Do one thing and do it well

Instant Messaging

# The Unix Way

two

Do ~~one~~ thing and do it well

User Interface

Protocol

# The Unix Way

six

Do ~~one~~ thing and do it well

Contact  
List

Chat

Logging

AIM

MSN

XMPP

# The Unix Way

twelve

Do ~~one~~ thing and do it well ?

Contact  
List

Chat

Logging

File  
Transfer

Voice  
Call

Avatars

AIM

MSN

XMPP

SIP

ICQ

IRC

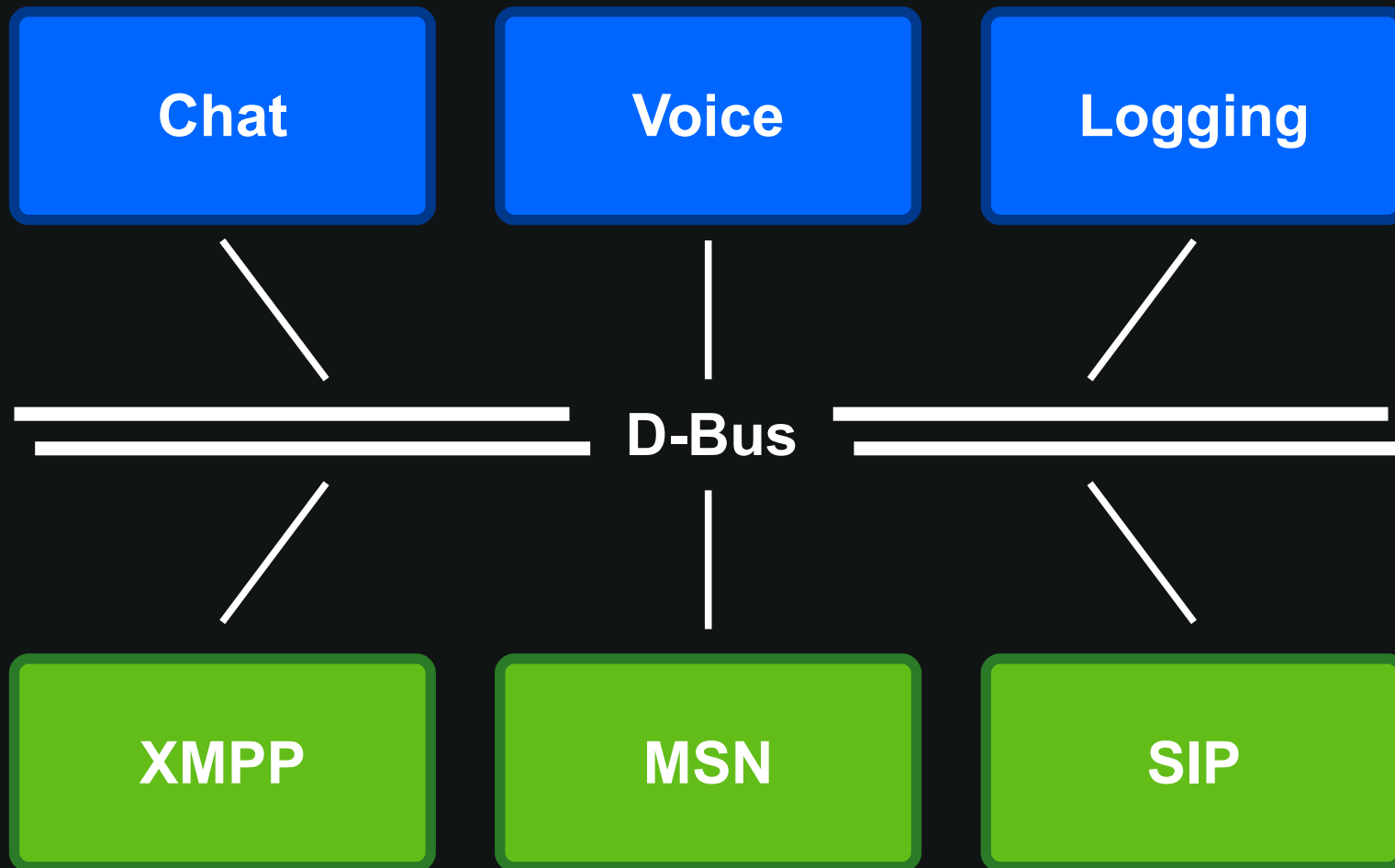


# Telepathy

# The Big Idea

- Move away from the monolithic client
- Split stuff into separate processes
- Run protocols as services on the desktop
- Create a standard API for clients to use presence, messaging, media, etc...

# Architecture





# Benefits

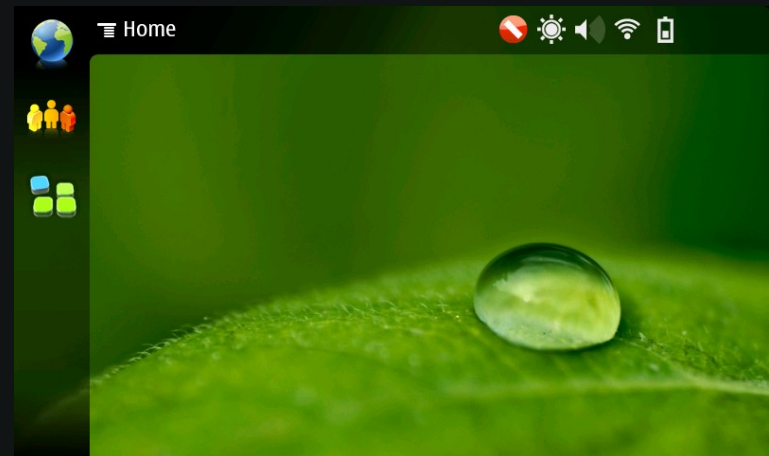
- Do one thing and do it well
- Re-usable components
- Interchangeable user interfaces
- Share connections between UI programs
- Language (and license) independence

# Mission Control

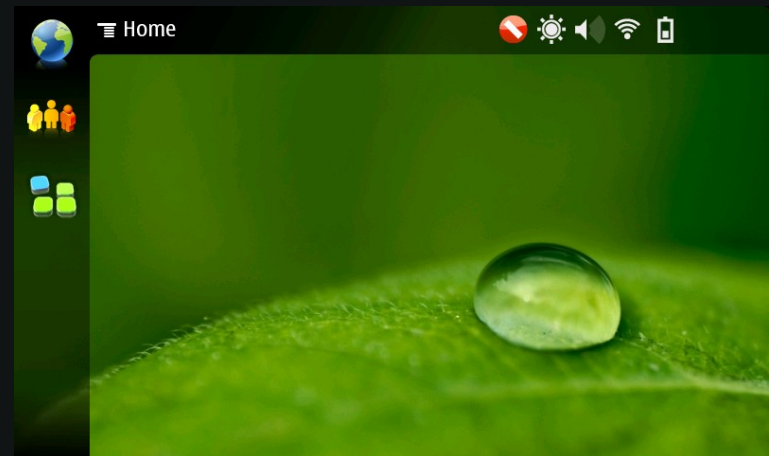
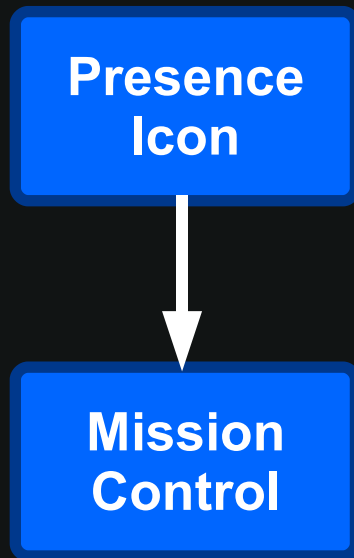
- User accounts management
- Synchronising presence and connection status across accounts
- Requesting telepathy channels
- Activating the channel handlers

# Component interaction

Presence  
Icon



# Component interaction



# Component interaction

Presence  
Icon

Mission  
Control

Connection  
Manager

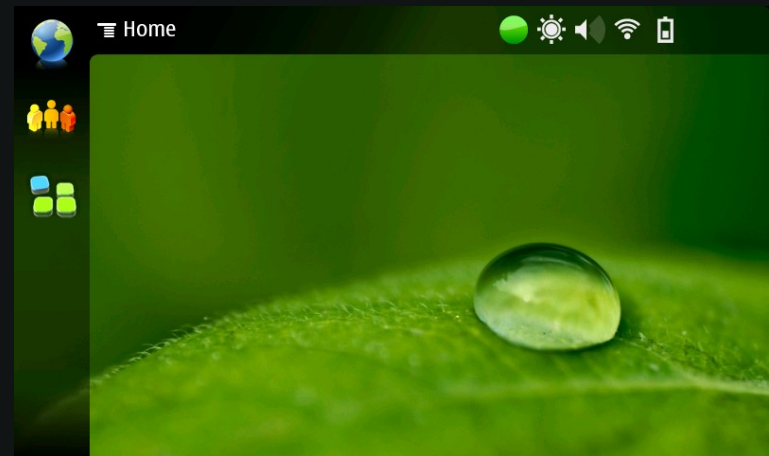


# Component interaction

Presence  
Icon

Mission  
Control

Connection  
Manager



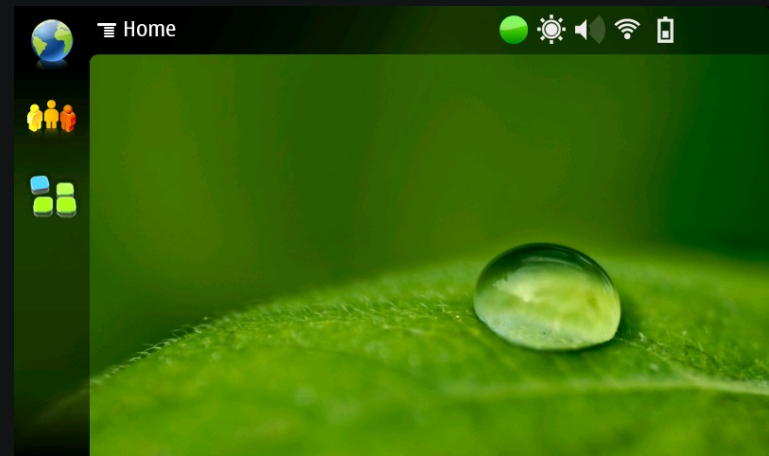
# Component interaction

Presence  
Icon

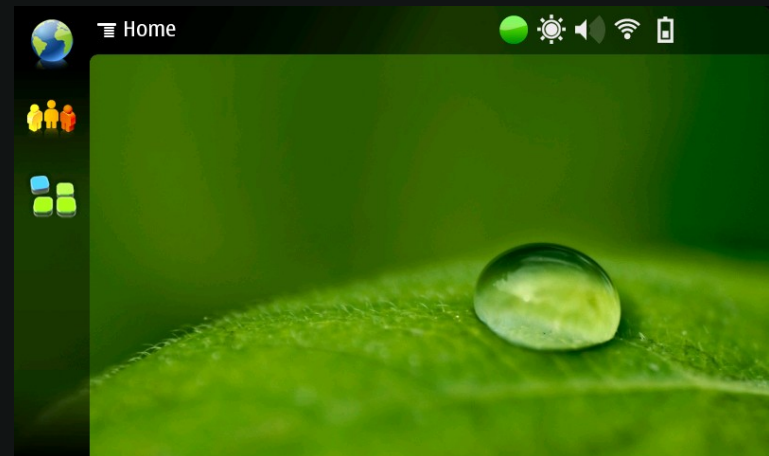
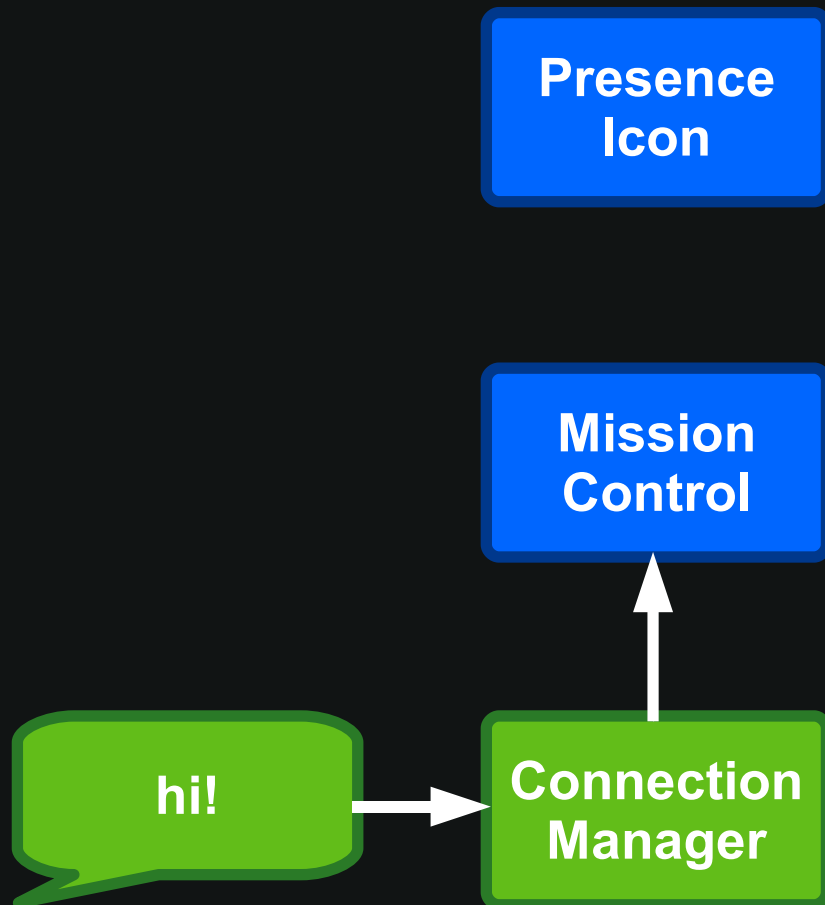
Mission  
Control

hi!

Connection  
Manager

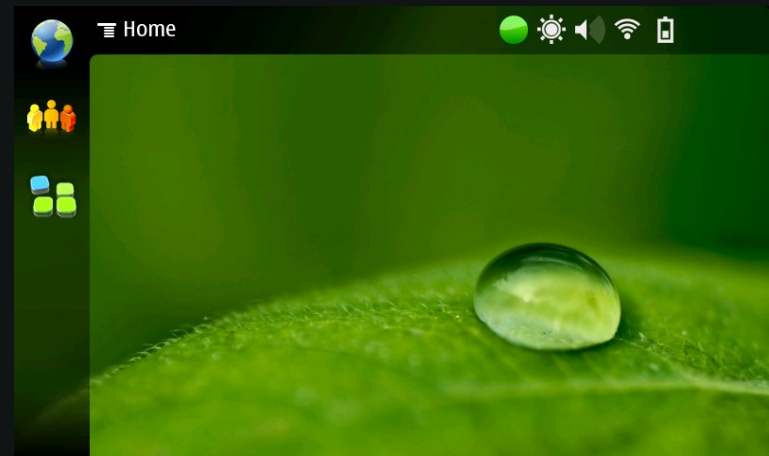
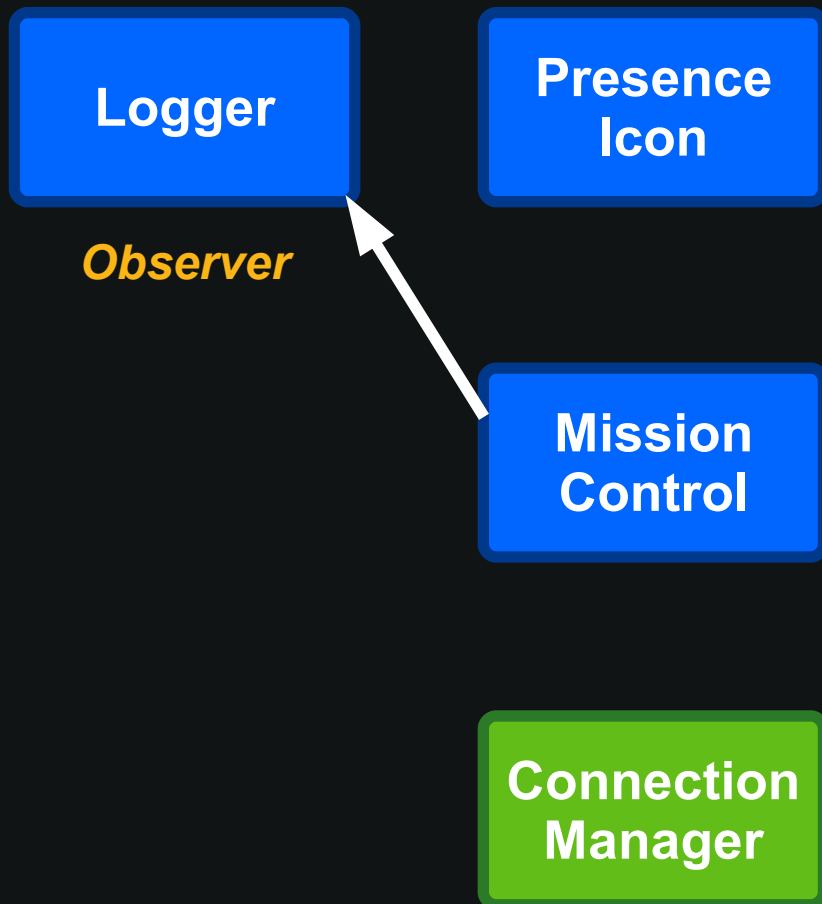


# Component interaction

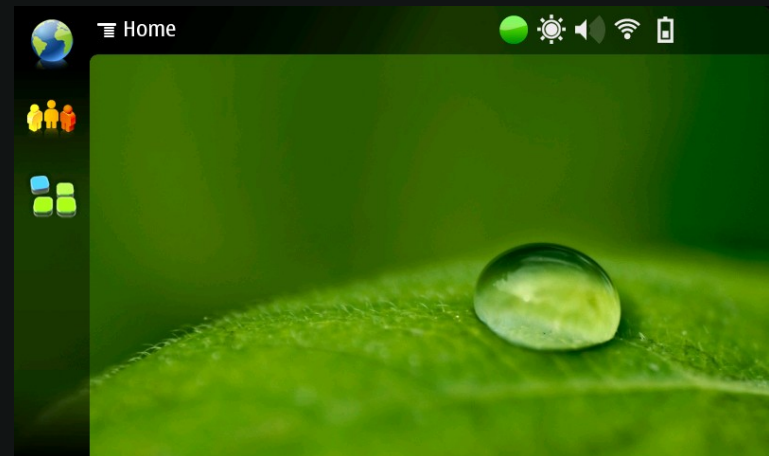
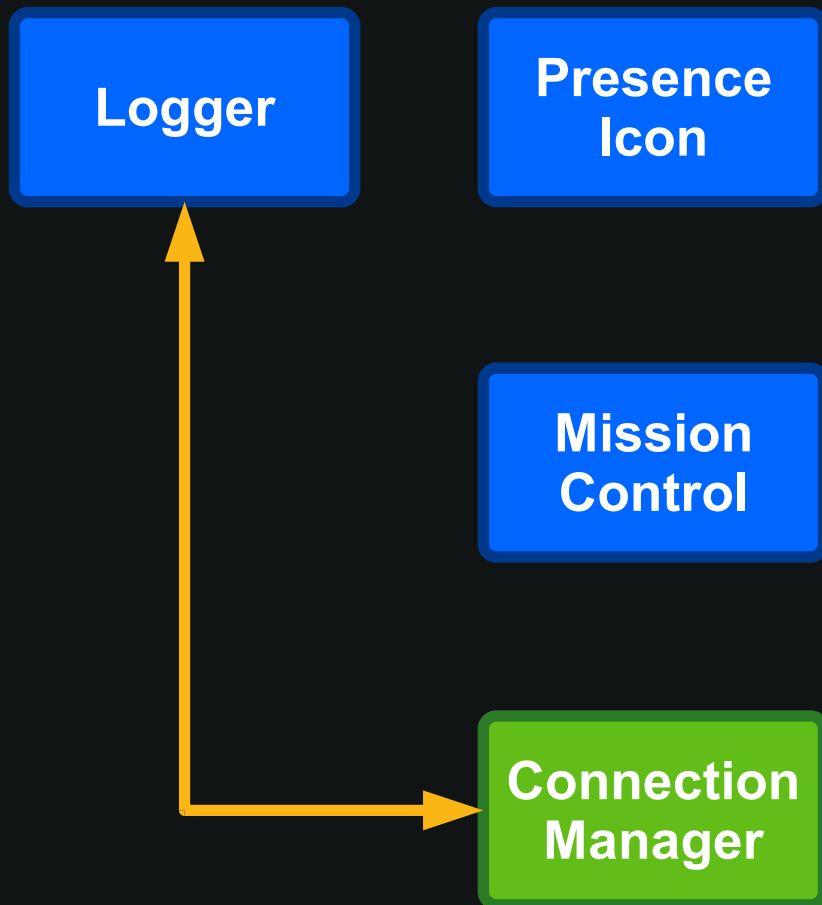




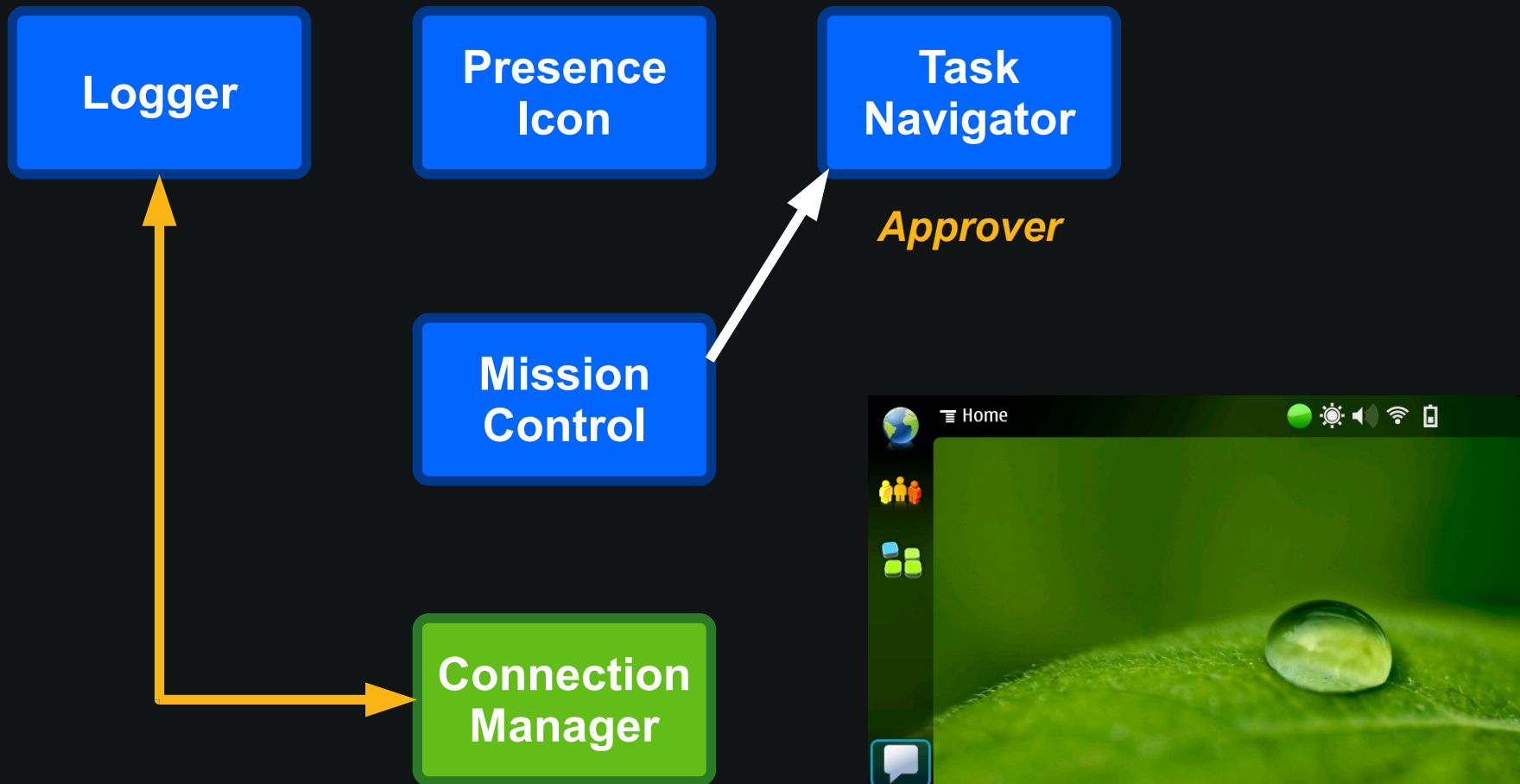
# Component interaction



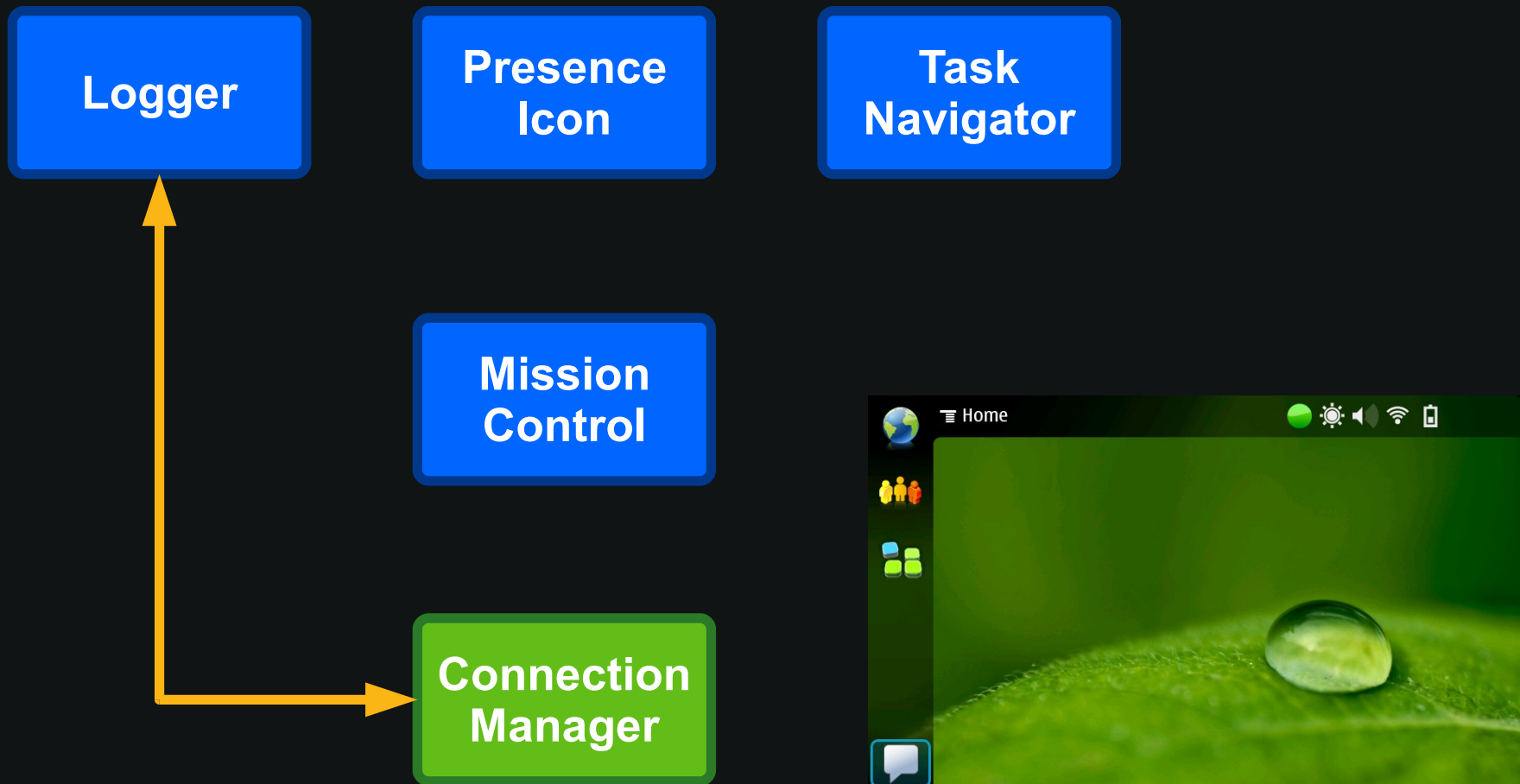
# Component interaction



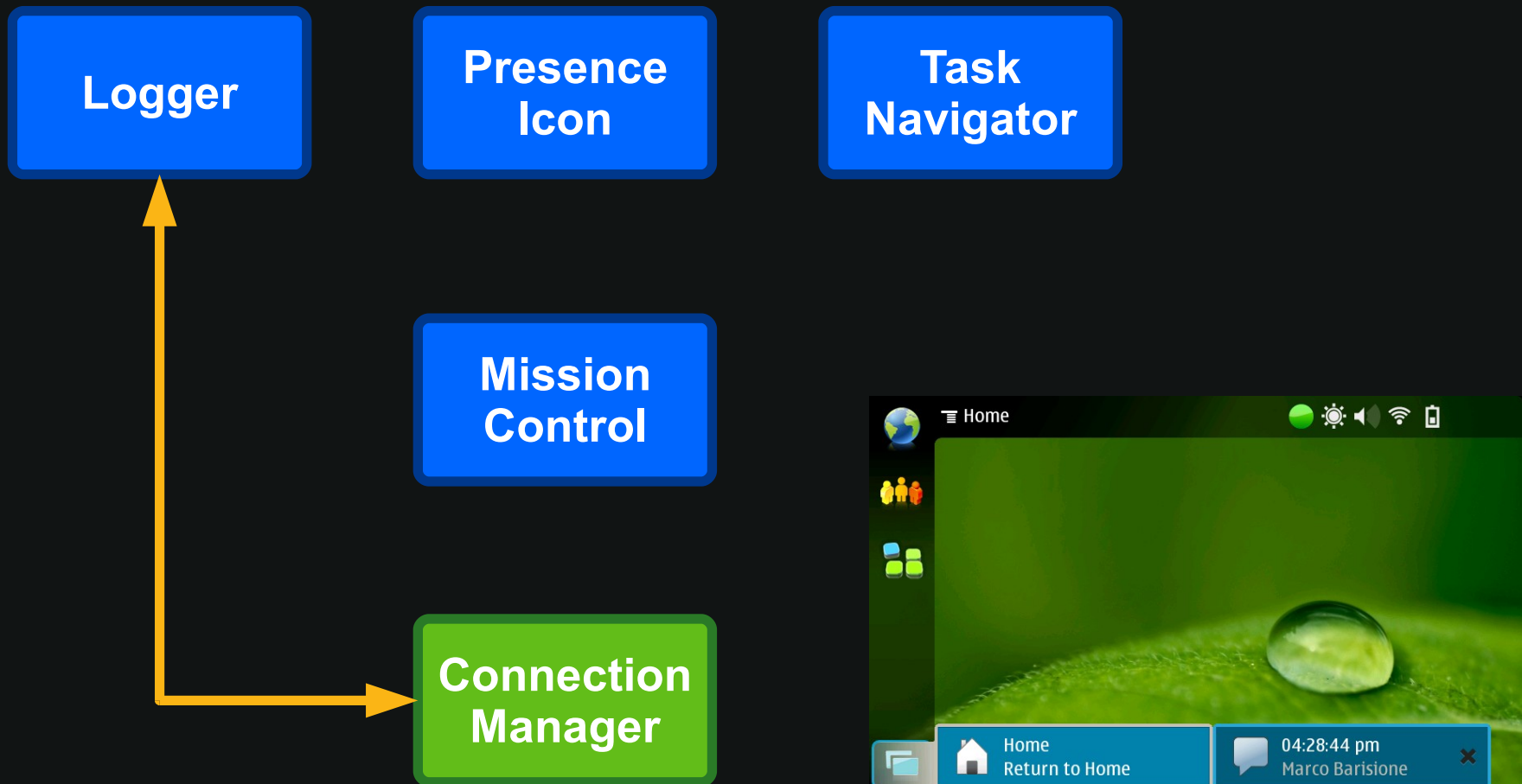
# Component interaction



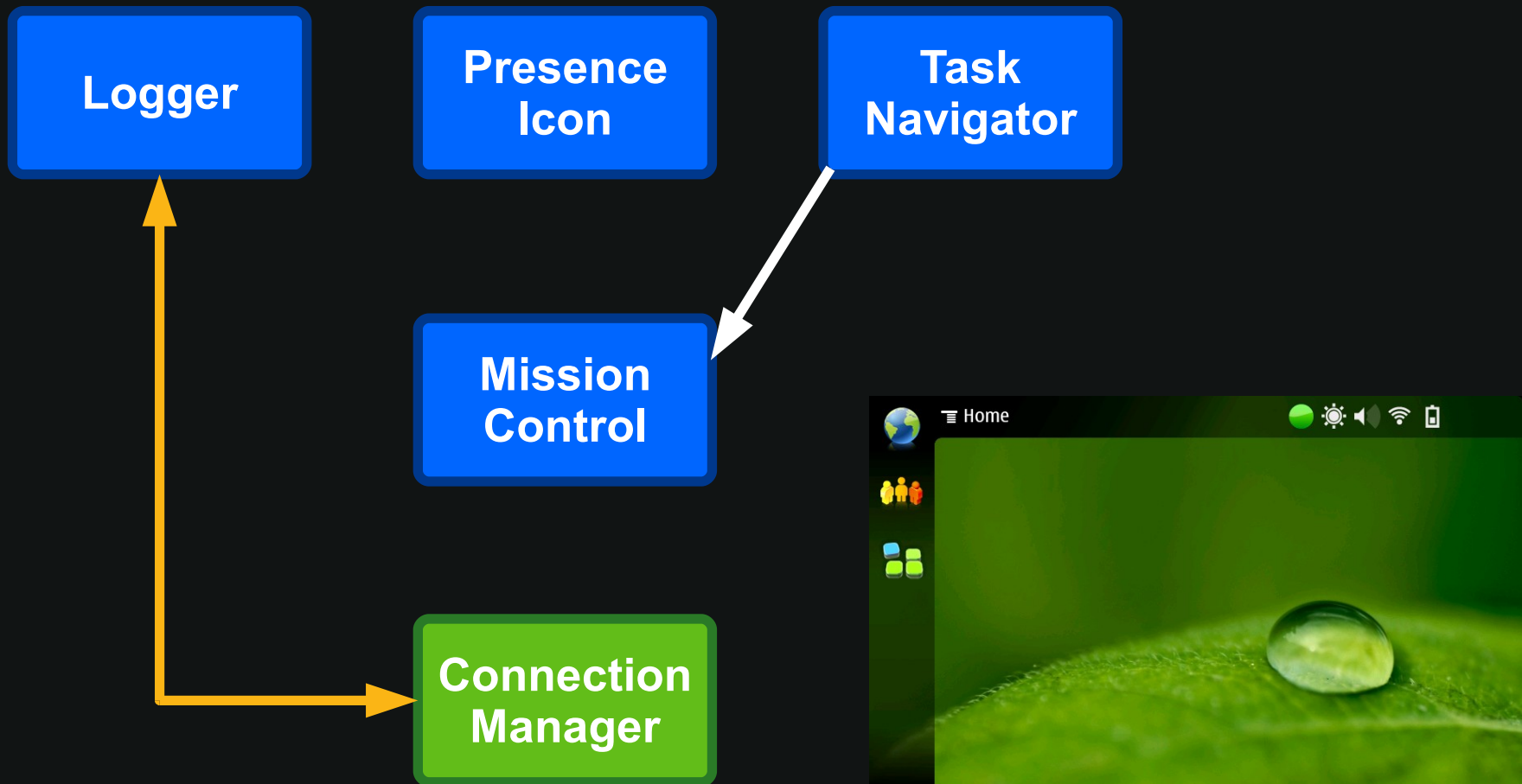
# Component interaction



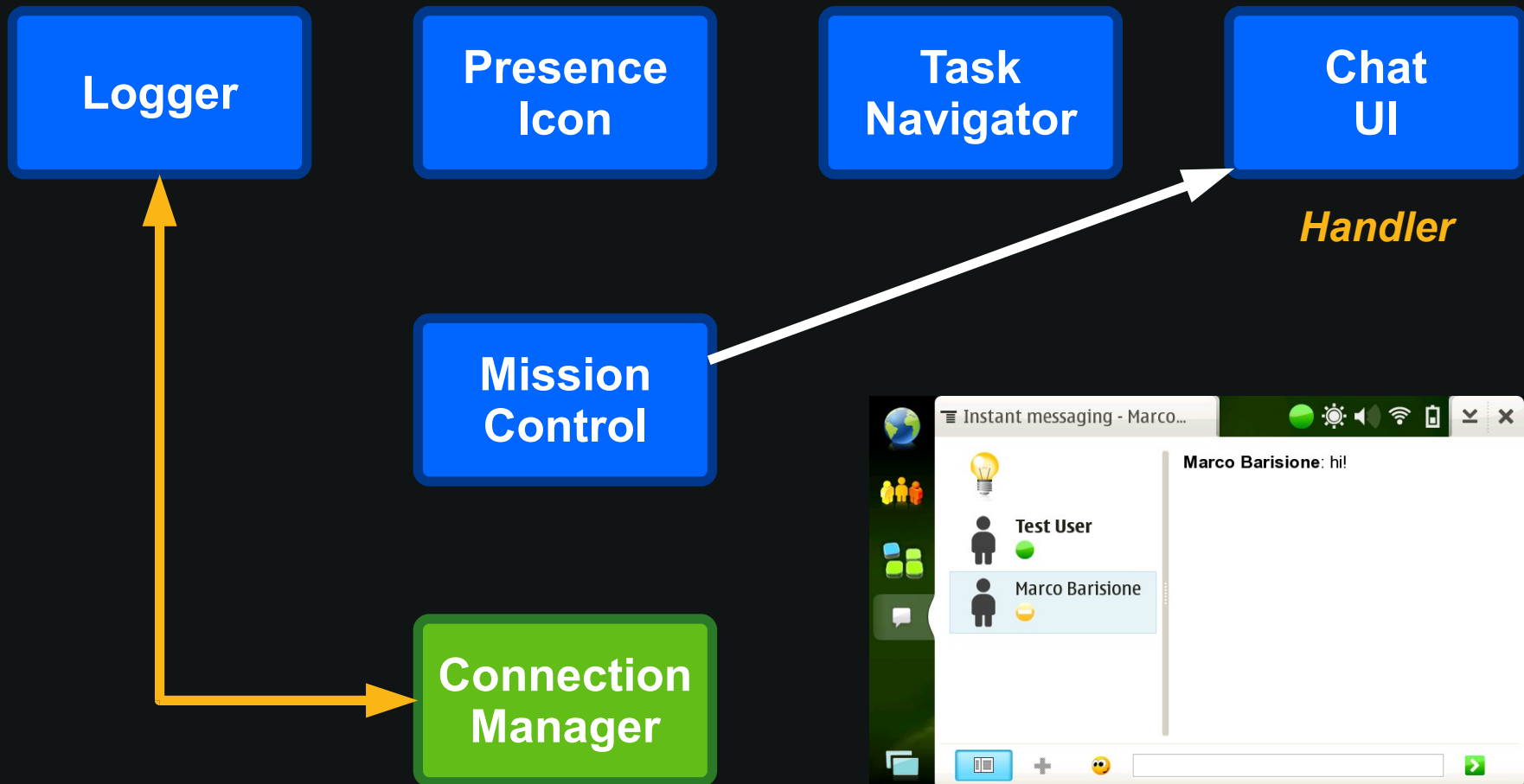
# Component interaction



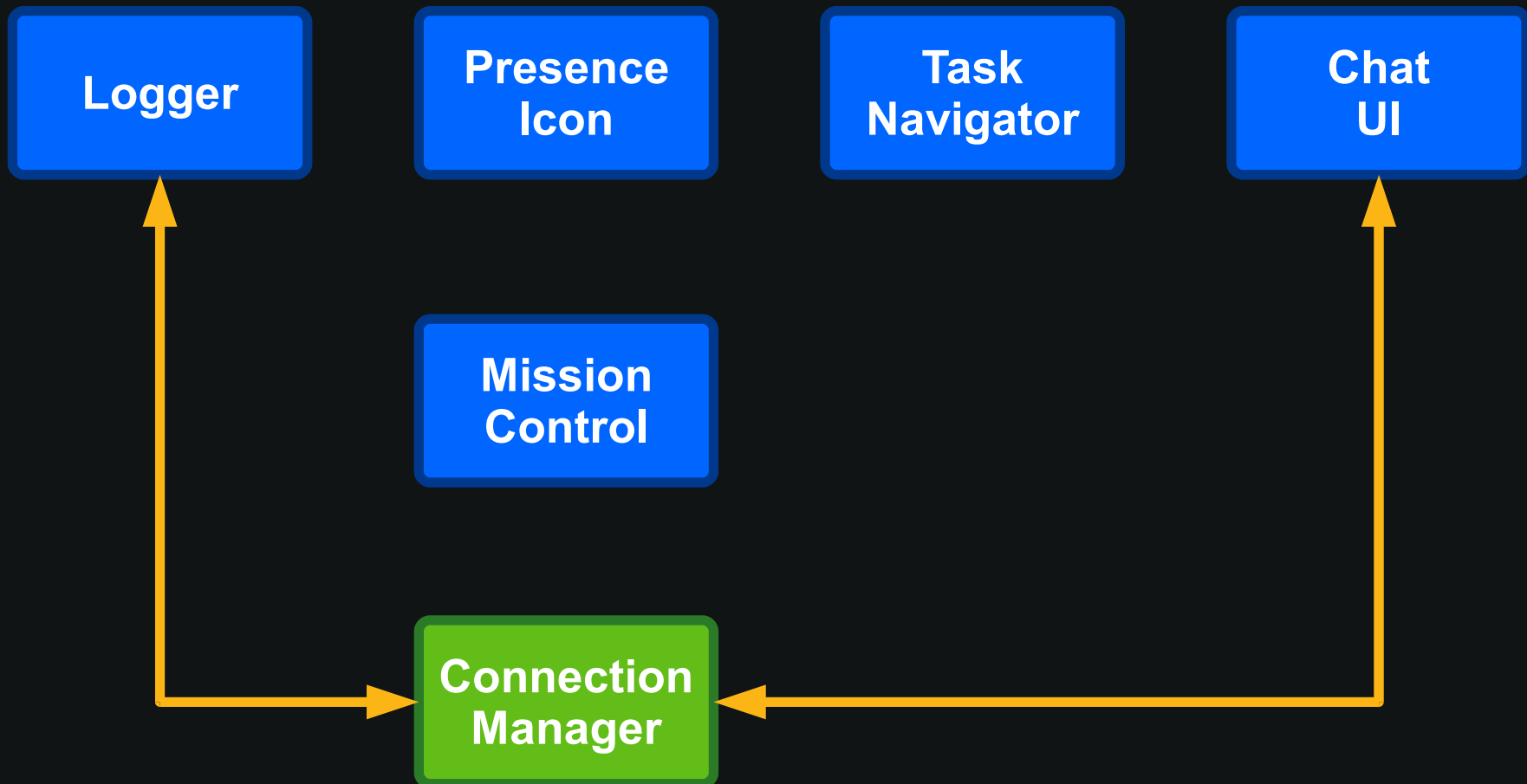
# Component interaction



# Component interaction



# Component interaction





If I can chat with a contact,  
why can't applications?



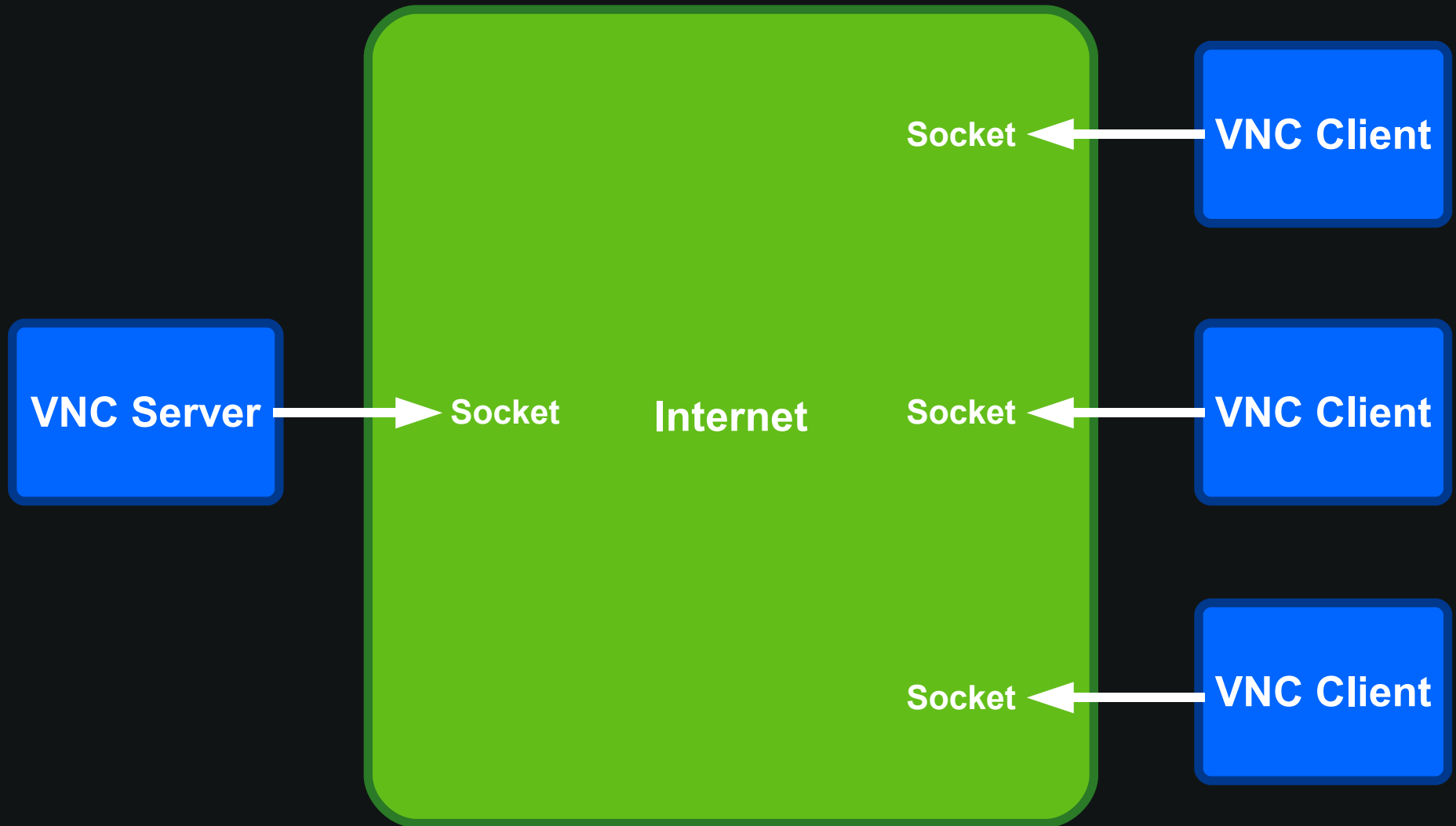
If I can chat with a contact,  
why can't applications?



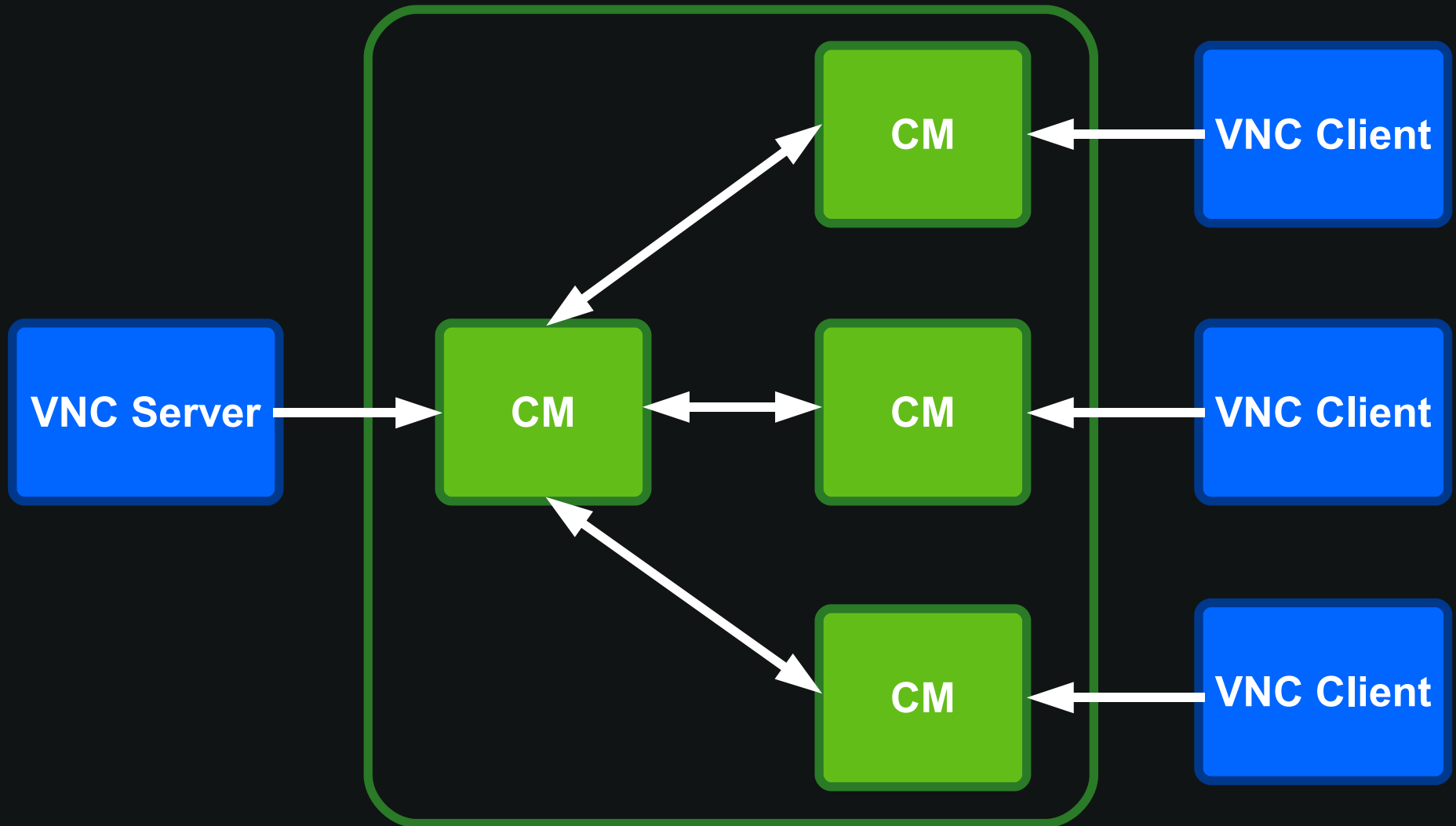
# Tubes

- Arbitrary data exchange among contacts
- Contacts, not addresses
- TCP, UDP or D-Bus behaviour
- Perform NAT traversal

# VNC with Stream Tubes



# VNC with Stream Tubes



# Collaborative Editing

The image displays two overlapping screenshots of a web editor interface, illustrating collaborative editing. Both windows show the same document content: a heading "Hi there world of One Laptop Per Child collaboration!" followed by a table with two rows and three columns. The table cells contain the numbers 1, 2, 3 in the first row and 4, 5, 6 in the second row. The table is highlighted with a light blue background. Below the table, the text "Lovely.... :)" is written in red. The top window is titled "Xephyr on :1 ( ctrl+shift grabs mouse and keyboard )" and the bottom window is titled "Xephyr on :2 ( ctrl+shift grabs mouse and keyboard )". Both windows have a menu bar with "Write Activity", "Edit", "Text", "Image", "Table", and "View".

1	2	3
4	5	6

Lovely.... :)

# TUBES DEMO

# For users

- On maemo
  - Chat and Audio/Video
  - XMPP and SIP connection managers
  - <http://rtcomm.garage.maemo.org/>
- On the desktop
  - <http://live.gnome.org/Empathy>



# For developers

- Wiki: <http://telepathy.freedesktop.org/>
- IRC channel: `irc.freenode.net #telepathy`
- Mailing list: [telepathy@lists.freedesktop.org](mailto:telepathy@lists.freedesktop.org)



# Telepathy