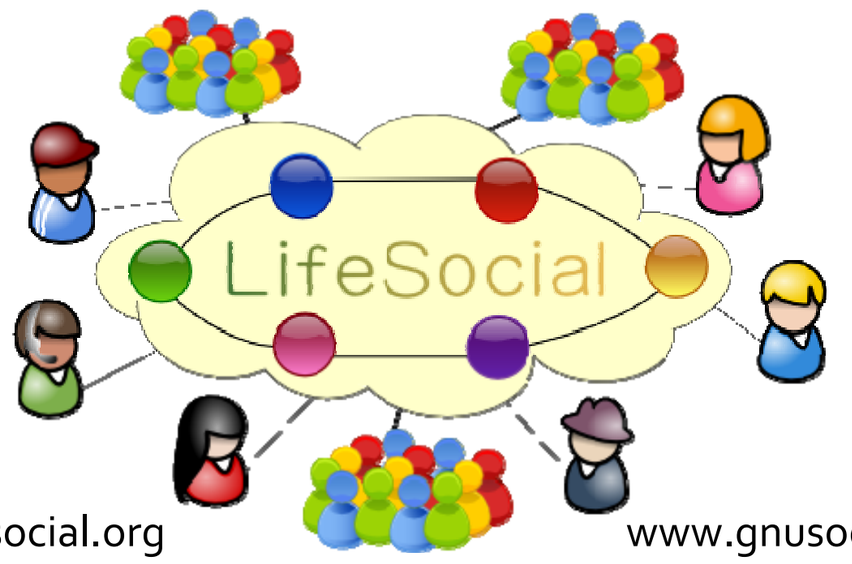
Kalman Graffi, Christian Groß, Patrick Mukherjee, Aleksandra Kovacevic, Ralf Steinmetz
Multimedia Communications Lab, Technische Universität Darmstadt, Germany
Contact: graffi@kom.tu-darmstadt.de , www.lifesocial.org

LifeSocial.KOM – A P2P-based Platform for Secure Online Social Networks

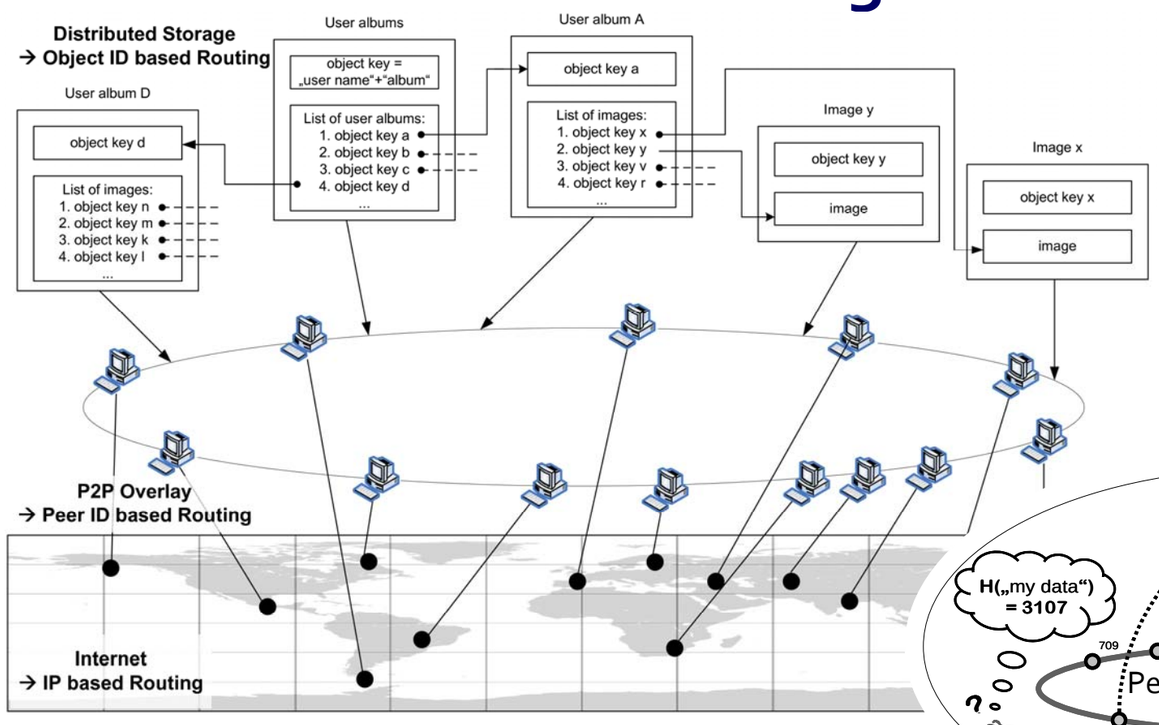


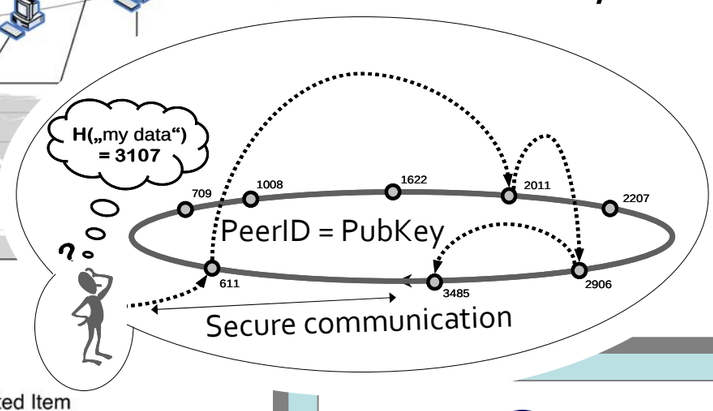
Demonstration of LifeSocial.KOM

Functionality of P2P-based platform for secure online social networks

- Profiles, friends, groups, photos, messaging, chatting, …
- Integrated monitoring of quality of service
- Secure communication and access control

Secure Social Data Management





Architecture Overview

Layer-based platform

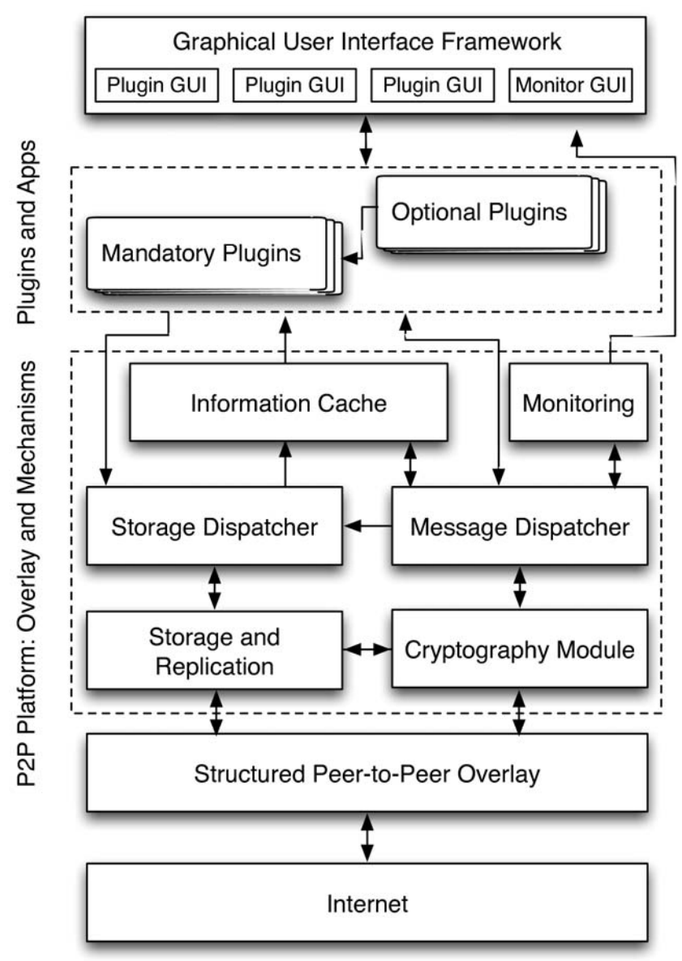
- Secure messaging, storage, caching
- Platform for Plugins

Plugin-based applications

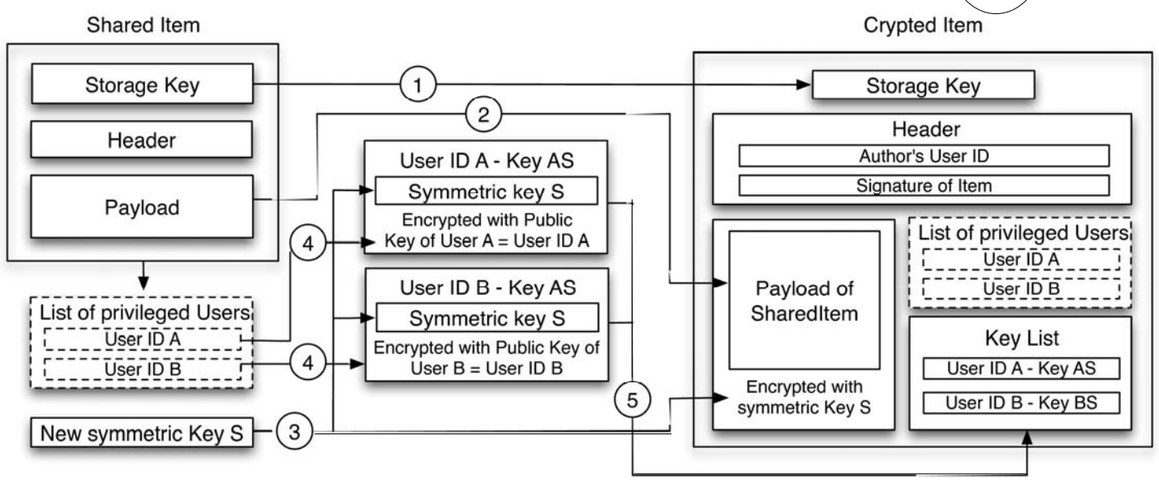
- GNU/App philosophy
- Defines functionality and dependencies
- Mandatory: Profile…
- Optional: TicTacToe

Customizable GUI

- Enables user inter-action with Plugins
- Extendable, flexible



Secure data structures



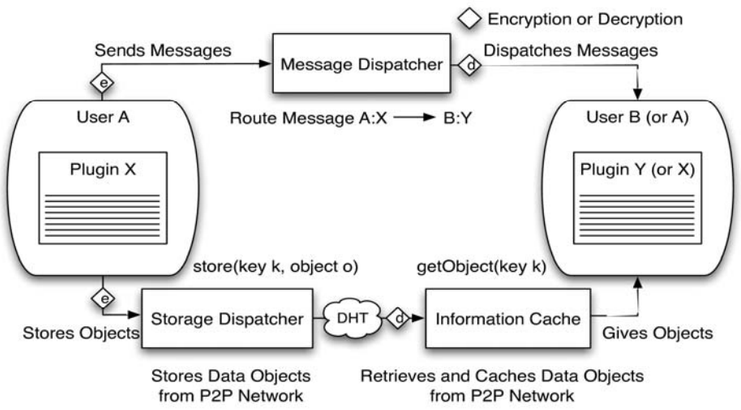
Communication Principles

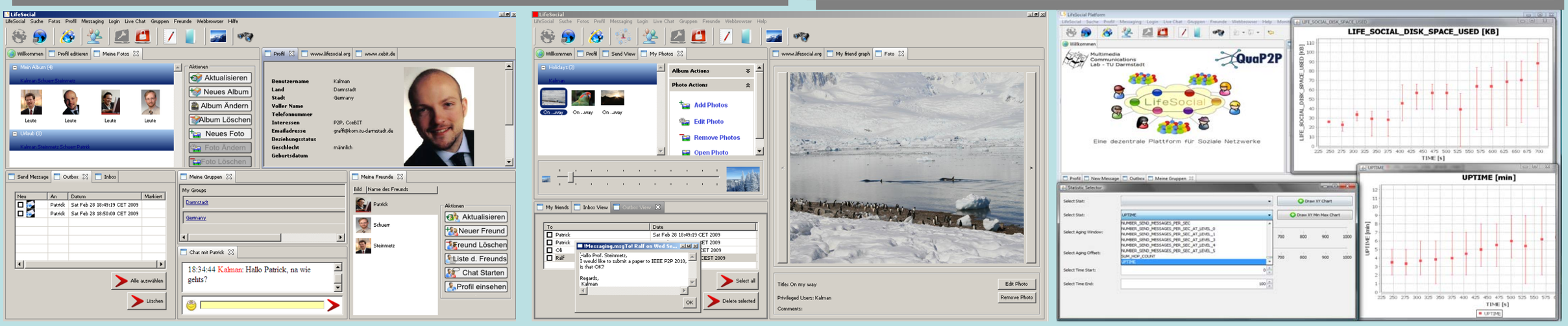
Secure communication

- Plugin-to-Plugin
- PeerID = PubKey

Shared storage

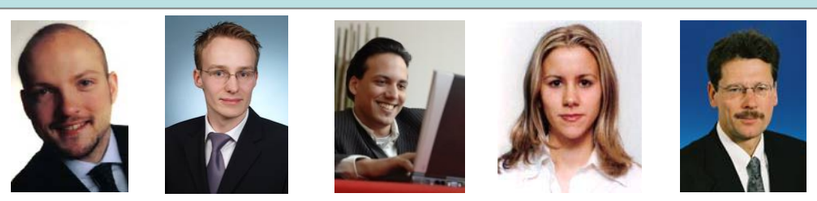
- ID-based location
- Distributed linked (data) lists





K. Graffi et al., „LifeSocial.KOM – A P2P-based Platform for Secure Online Social Networks", IEEE P2P 2010 - www.lifesocial.org

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Outlook

Autonomous management of the quality of the running system

Security extensions: deletion enforcement, detection of illegal content

Extension of more Plugins for user-to-user interaction: games, whiteboard

Deployment in a Alpha / Beta test → Open Source project