

Jabber is more than Instant Messaging

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Intro

- Jabber / XMPP
 - eXtensible Message and Presence Protocol
- JEPs: Jabber Enhancement Proposal
 - XEP?
- Jabber is open
 - New ideas, anyone?
 - xmpp.org
 - Jabber.org

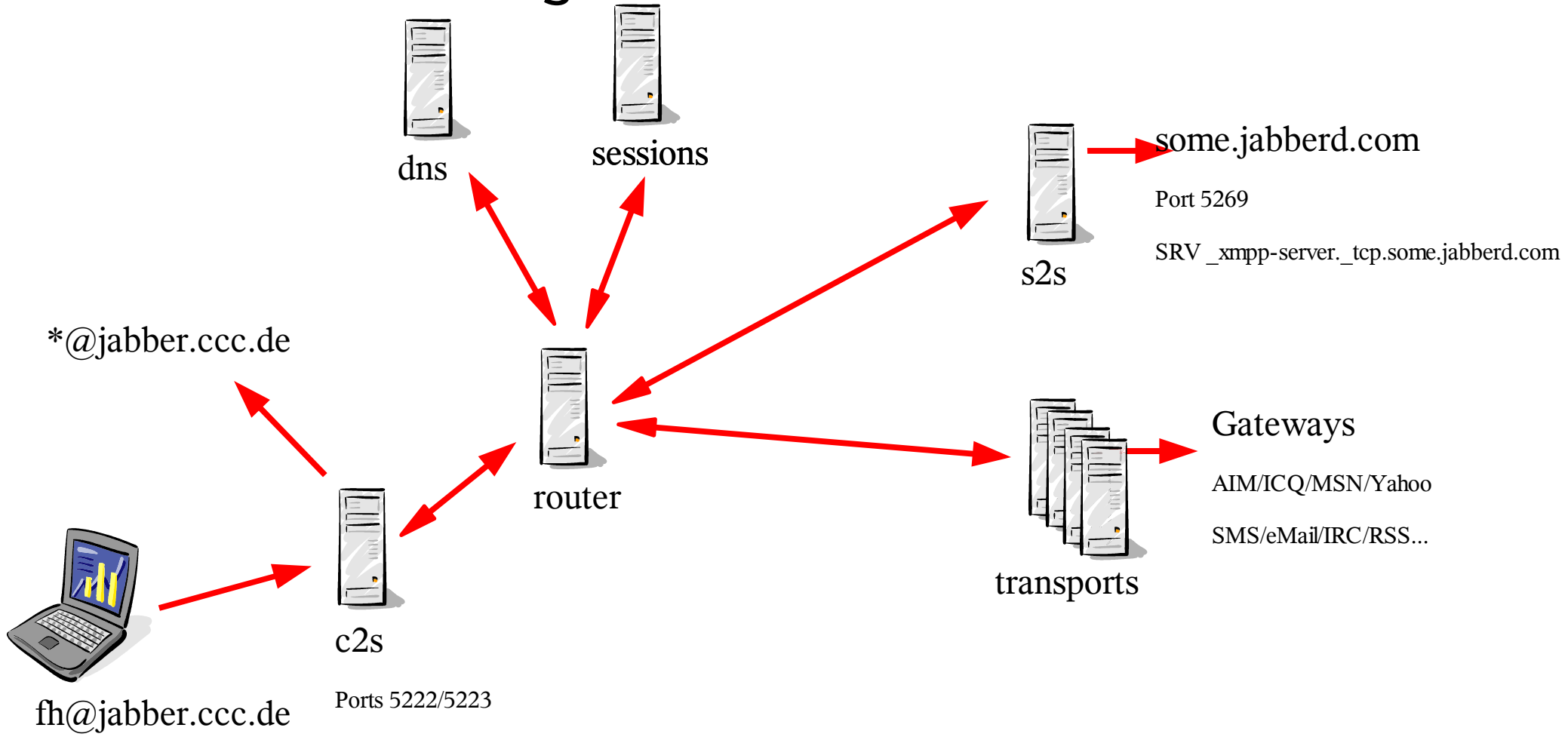
Infrastructure

- Decentralized Dynamical Network
 - „like Mail“
- XMPP: RFC 3920-3924
- Several jabberd-implementations
- SRV records
- Lots of clients
 - Even for OS/2, Amiga, Symbian and Newton
 - Google Talk
 - Livejournal
 - Mabber

Server infrastructure

(jabberd14 as example..)

- Jabberd routing



Running a jabberd

- <http://www.jabber.org/software/servers.shtml>
 - Ejabberd - erlang
 - Jabberd1.4 – C
 - Wildfire – Java
 - Several others - some weird, some cool.
- Resource usage?
- Start small, extend later
- Few gateway users == no trouble
- Backend storage
 - *sql, ldap, files, berkeley db?

Pubsub (JEP 0060)

- Push mechanism for any content
 - Media provider offers „node“
 - You subscribe to the node
 - When content changes all subscribers are notified
- Various content possible
- Several Standards
 - Atom over Pubsub
 - User Mood
 - Avatar Picture
 - User Tune („Now playing“)
 - ...

Atom over Pubsub

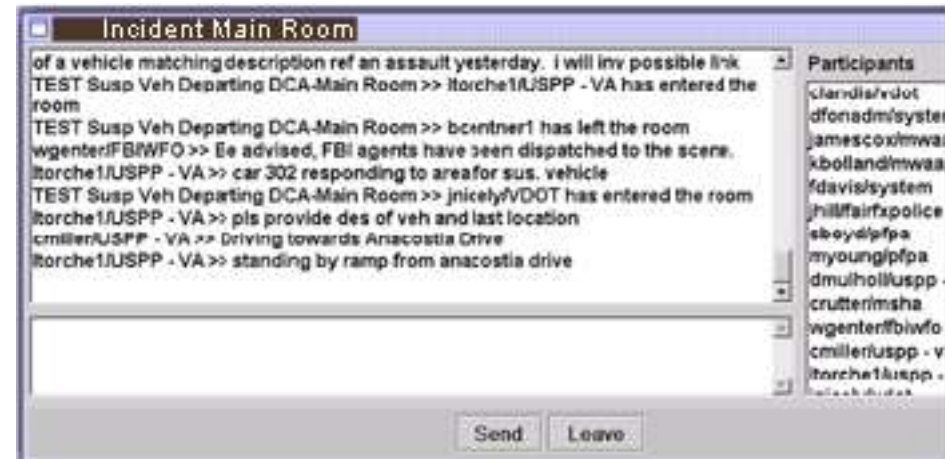
- „RSS over XMPP“
- No repeated polling
 - Less traffic
- Instant Notification
 - Faster
- Node „sharing“
 - Several publishers
- Subscription Management

Common Alerting Protocol

- JEP 0127
- „to collect and relay all types of hazard warnings and reports“
- Instant delivery
- Used in the CapWin Project – Maryland, Virginia

CapWin

- Jabber/Web based system
- „CapWIN is a partnership [..] to develop an interoperable first responder data communication and information sharing network“
- 47 agencies, 1754 users



HTTP Auth via Jabber

- „Single Sign on“
- JEP 0070

Virtual Presence

- Each user has its avatar
 - Customizable
 - Animation
- Shown in the browser
- Chatting capabilities
- JEP 0151

Lluna



- Same Website = Same Interests
- Chat with visitors of the same website
- Privacy: <md5sum-of-website>@conference
- Currently windows only
- Open Source
- Shopping Assistant on Website

SIP/Simple/Jingle

- SIP/Simple can be replaced using Jabber
- Jabber is more extensible
- One central server
 - Logging is easy, and important for financial companies due to regulations by the Securities Exchange Commission
- Big installation by Bell South
- Jingle
 - VoIP via Jabber
 - Google Talk

HTTP Binding

- JEP 0124
 - Jabber over HTTP
 - Encapsulated in <body>
- Javascript-based Jabber-Client
- „Web 2.0“
 - Mabber
 - JWChat

Server Monitoring

- Nagios supports Jabber
- Jabber ID = machine
- Sputnik – Wlan Access Points
 - Accounting
 - Administration
 - Monitoring

Support/Knowledge Management

- Find an „expert“ via Jabber
- Implemented by Qunu
- Jabber conferences

Other ideas

- Multiuser games
- Blogging
 - Livejournal has „Jabber support“
- Integration into „Web 2.0“ communities
- ...

Jabber and the „officials“: US army

- „U.S. Army Future Combat System“
- Developed by Boeing
- „connect people and sensors in real time“
- Chat services provided by jabber

Coding with jabber?

- Well documented
- Libraries for most common languages
 - Perl
 - Python
 - C++
 - Ruby
 - Java
 - Dylan
 - ...
- A lot of sample code online, some nice books
- **Please:** Not yet another new desktop client.

Hey, wake up! It's over.

- Slides + Urls:
<http://fholzhauser.de/docs/euos2006/>
- Any questions?
- Feel free to contact me via jabber:
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