

jabber 101

peter saint-andre

stpeter@jabber.org



jabber

context

message and reply,  
London to Calcutta

1800: 2 years  
(sailing ship)

1914: 1 month  
(steamship)

1950: 1 week  
(airmail)

1980: 2 days  
(overnight mail)

1994: 10 minutes  
(email)

1999: 1 second  
(instant messaging)

half life of information  
is shrinking

need to build the  
real-time internet

know when people,  
devices, apps are online

deliver information  
when it's needed

what is jabber?

open technologies

real-time messaging

presence

multimedia negotiation

and more

streaming xml

jeremie miller

1998

tired

4 different im clients

multiple accounts

communication silos

proprietary protocols

closed source

no interoperability

scratch an itch

freedom of  
conversation

open-source IM and  
presence server

released Jan. 4, 1999

more than a server

technology  
ecosystem

clients

libraries

add-on components

# client-server architecture

native  
server-to-server

# distributed network

# inter-domain messaging

like email

but really fast

with built-in presence

and no spam

not a typical  
open-source project

community focused  
on protocol, not code

many codebases

free / open source,  
shareware, payware

protocol is  
“free as air”

choose whatever license  
you like

total freedom  
for developers

core protocol  
standardized @ ietf

extensible

messaging

and presence

protocol

(xmpp)

rfcs 3920 + 3921

lots of xmpp  
extension protocols

xmpp standards  
foundation (xsf)

we're not just  
protocol geeks

50,000+ servers (?)

50+ million users (?)

clients  
for every platform

libraries  
for every language

deployed worldwide

wall street banks

u.s. government

hp, eds, fedex

portugal telecom,  
ntt, bell south

google, apple, sun

jaiku, joost, olpc,  
chesspark, twitter

and you

run your own server

write your own  
components

integrate with your  
own systems

build real-time  
applications

open technologies

this is a good thing

what does jabber  
give you?

xml router /  
presence engine

communicate with  
any device

integrate with any  
application

extensible from the  
ground up (pure xml)

application server for  
the real-time internet

applications?

built on presence

“the new dial tone”

boring!

a catalyst for  
interaction

more catalysts:  
identity + capabilities

not just  
person to person

person to  
application

application to  
application

one-to-one IM

groupchat  
(à la irc)

just teen chat, right?

wrong!

ex: trading desks  
(investment banks)

ex: incident rooms  
(capwin)

ex: expert support  
(qunu)

geolocation

ex: vehicle tracking  
(trakm8)

data syndication

ex: atom over xmpp  
(just-in-time updates)

ex: real-time rss/atom  
(feedmesh)

ex: real-time  
financial modelling

# intelligent workflow processing

ex: energy trading  
(netenergy)

ex: sales / logistics  
(reynolds + reynolds)

ex: network  
management (oracom)

soap + rpc  
(xfire)

whiteboarding w/svg  
(inkboard, coccinella)

collaborative editing

social networking  
(tunes, mood, etc.)

getting the message?

you can send any xml  
format over jabber

[insert your  
xml format here]

voip

jingle  
(google talk)

call negotiation  
over xmpp channel

voice traffic  
over media channel

asterisk federation

freeswitch, nokia 770,  
telepathy, google talk

look ma, no bell!  
(route around telcos)

are we done yet?

just the beginning

presence in  
thunderbird?

geoloc updates  
for plazes?

music updates  
for last.fm?

collaborative editing  
for openoffice?

[insert your  
idea here]

download a client

linux

windows

mac

palm

j2me

sympbian

amiga

beos

newton

you get the picture

create a free account

thousands of servers  
(xmpp.net)

google talk

live journal

dreamhost,  
i-pobox.net, etc.

download a server

jabberd

(C)

wildfire  
(java)

ejabberd  
(erlang)

djabberd  
(perl)

python server  
on the way?

libraries:  
lots of options!

loudmouth

(C)

libstrophe  
(C)

telepathy  
(c / dbus)

gloox  
(C++)

xiff  
(flash)

smack  
(java)

jso  
(java)

xmpp4moz  
(mozilla)

jabber-net  
(.net)

net::xmpp  
(perl)

jabberclass  
(php)

xmpp.py  
(python)

twisted words  
(python)

xmpp4r  
(ruby)

and more

not proprietary  
systems

open IETF standards

more extensions daily  
(XEP series)

open-source and  
commercial

mix and match

buy or build

deploy as you please

play with others  
(or not)

talk with everyone  
(or not)

build competitive  
advantage

build real-time  
applications

innovate  
at the edges

you have the power

the power of  
presence

the power of  
extensibility

the power of  
real-time xml

join the conversation

let's build the  
real-time internet