jingle:
jabber does multimedia
peter saint-andre
jingle
modular framework
multimedia session management
negotiate session parameters over xmpp
use a binary-friendly transport for media
pluggable transports
pluggable media types
sound familiar?
why jingle?
community interest in multimedia since 1999
enable jabber clients to do voice, video, & more
need standards for interoperability
past approaches
h.323
proprietary xmpp extensions
“tins”
(sdp over xmpp)
dual-headed
xmpp+sip clients
issues
two centers of control
(sip and xmpp)
addressing
(unicode in xmpp)
authentication

(mandatory in xmpp)
sender identity
(validated in xmpp)
traffic validation
(xmpp schemas)
manageability
(client-server in xmpp)
presence
(native in xmpp)
buddy lists [tm]
(native in xmpp)
presence subscriptions
(long-lived in xmpp)
50 million jabber users can’t be wrong
bring multimedia to xmppp network
build a native xmpp signalling protocol
ensure interoperability with sip
not trying

to supplant sip
not trying to build full telephony app
adding jabber users to open voip networks
early version developed with sip guru
cto @ jabber inc.  
(they pay me)
google talk
standardization in progress
xmpp standards foundation
specs in XSF’s XEP series
xep-0166: framework
session types...
xep-0167: audio
xep-0180: video
appcasting, file transfer, whiteboarding?
transports...
xep-0176: ice-udp, ice-tcp
xep-0177: raw udp
rtmp, bytestreams?
support in or coming to...
google’s libjingle
(c++ library)
clients: psi, gajim, jabbin, etc.
telepathy / gnome
various devices
(nokia 770/800, etc.)
portugal telecom, etc.
yate
freeswitch
federate pbx’s over xmpp backbone
gateways to sip
informational rfc (eventually)
issues...
re-use of ICE
(too complex?)
mapping to SDP
(too simple?)
join the conversation...