



# **jingle: jabber does multimedia**





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**jingle**



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# jabber does multimedia





# what is jabber?





# open technologies



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# real-time messaging







**presence**



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# streaming xml





**jeremie miller**



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1998



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**tired**





# 4 different im clients





# multiple accounts





**no interoperability**







**and no federation**



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# scratch an itch



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# **foster freedom of conversation**



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# open-source server





**more than a server**



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**clients**



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# libraries



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# add-on components







# client-server architecture





# decentralized network





# native server-to-server





# seamless federation



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**like email, but really fast**





**with built-in presence**



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**no server spoofing**





**and no spam**



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# xml wire protocol





**formalized through ietf**



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**xmpp**



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# rfcs 3920 + 3921



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# growth since 1999





**50,000+ servers (?)**





**25+ million users (?)**





# clients for every platform







# libraries for every language





**deployed worldwide**



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# wall street banks



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**u.s. dept. of defense**



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**hp, eds, oracle, fedex**





**orange, ntt, wanadoo, sapo.pt, bell  
south**





**google, apple, sun**





**and you**



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**run your own server**



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**write your own components**



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**integrate with your own systems**



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**build competitive advantage**



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# open technologies



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**this is a good thing**





**jingle**



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# xmpp extensions







# **modular framework**





# **multimedia session management**



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# negotiate session parameters over xmpp





# use binary-friendly transport for media





# pluggable transport methods (rtp, iax, etc.)





# pluggable session types (audio, video, etc.)





**sound familiar?**



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**sip**



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# why jingle?





# jabber interest in multimedia since 1999





**enable jabber clients to do voice,  
video, more**





# **need standards for interoperability**





# **dual xmpp/sip clients?**





# issues



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# 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)





# **contact lists (native in xmpp)**





# presence subscriptions (long-lived in xmpp)





**25+ million jabber users can't be  
wrong**





# multimedia goodness for xmpp federation







**jabber inc.  
(they pay me)**





**google talk**



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**and others**



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# jabber software foundation



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# specs in JSF's JEP series





# pluggable framework





**transports:  
rtp, raw udp, iax**





# **media formats: audio, video**







# more transports and formats on the way





**support coming to...**



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# google's libjingle





**many more  
jabber clients**





**providers, telcos,  
hw/sw vendors**





# **federate asterisk over xmpp backbone**





# interoperability with sip, iax, h.323, etc.





# open standards



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# open-source or commercial





# buy or build





**deploy as you please**





**play with others**



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**talk with everyone**



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**no silos**



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**no guano**





# open technologies



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# open network



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**the way life should be**



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**join the conversation**



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