

# FEDERATED INSTANT MESSAGING WITH JABBER/XMPP

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WhatsApp, WeChat, Telegram, Line, Hangouts, Viber,  
Signal, Facebook Messenger, Threema, HipChat, Slack,  
Skype, RocketChat, ...  
ICQ, QQ, MSN, Yahoo

# XMPP

- Extensible Messaging and Presence Protocol
- IETF working group since 2002
- Extensions *published* by the XSF

# JABBER VS XMPP

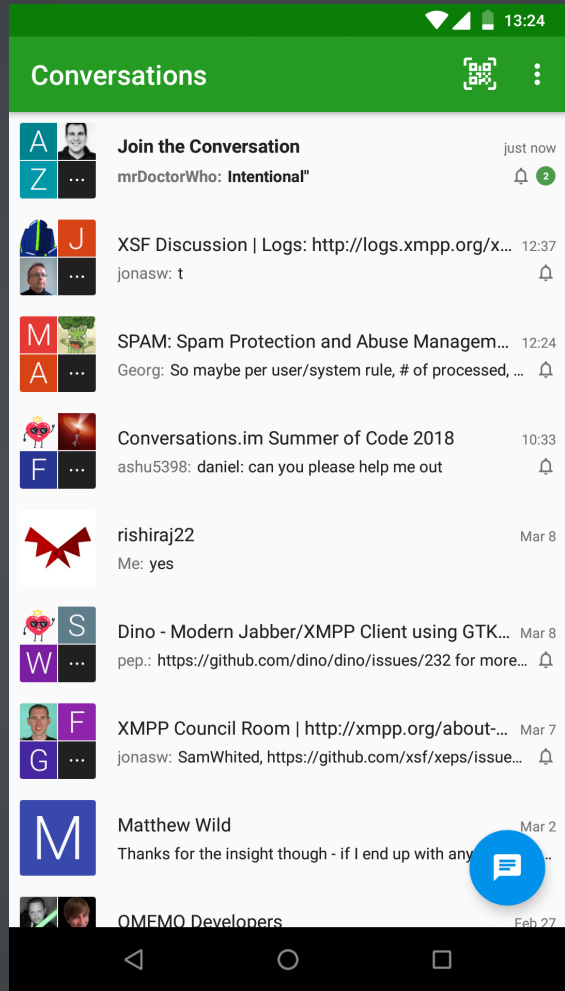
- Federated, provider independent IM
- Free choice of client and server provider
- Users are identified *username@domain.tld*

## (PAST) USERS OF XMPP

- Google †
- Facebook †
- Slack (Frontend only) †
- HipChat †
- Eve Online
- various government agencies

# PRE 2014

- no widespread implementations for:
- mobile support
- multiple devices
- file transfer
- no extensions for:
- battery optimizations
- outdated UI



18:34

Juliet Capulet

LOAD MORE M

Today

No trip to Singapore is ever complete without staying at the Marina Bay Sands hotel 😂


157 KiB · 4 mins ago

3 mins ago

Juliet Capulet is typing...

Send OMEMO encrypted message

- Choose file
- Choose picture
- Take picture
- Record video
- Record voice
- Send location





Kaidan im, is this one of the conversations forks?  
15:57 · Martin

It's a qt desktop app  
15:58 ✓



<https://github.com/KaidanIM/Kaidan/issues/220>  
15:59 · Georg Lukas



*broccoli has read up to this point*



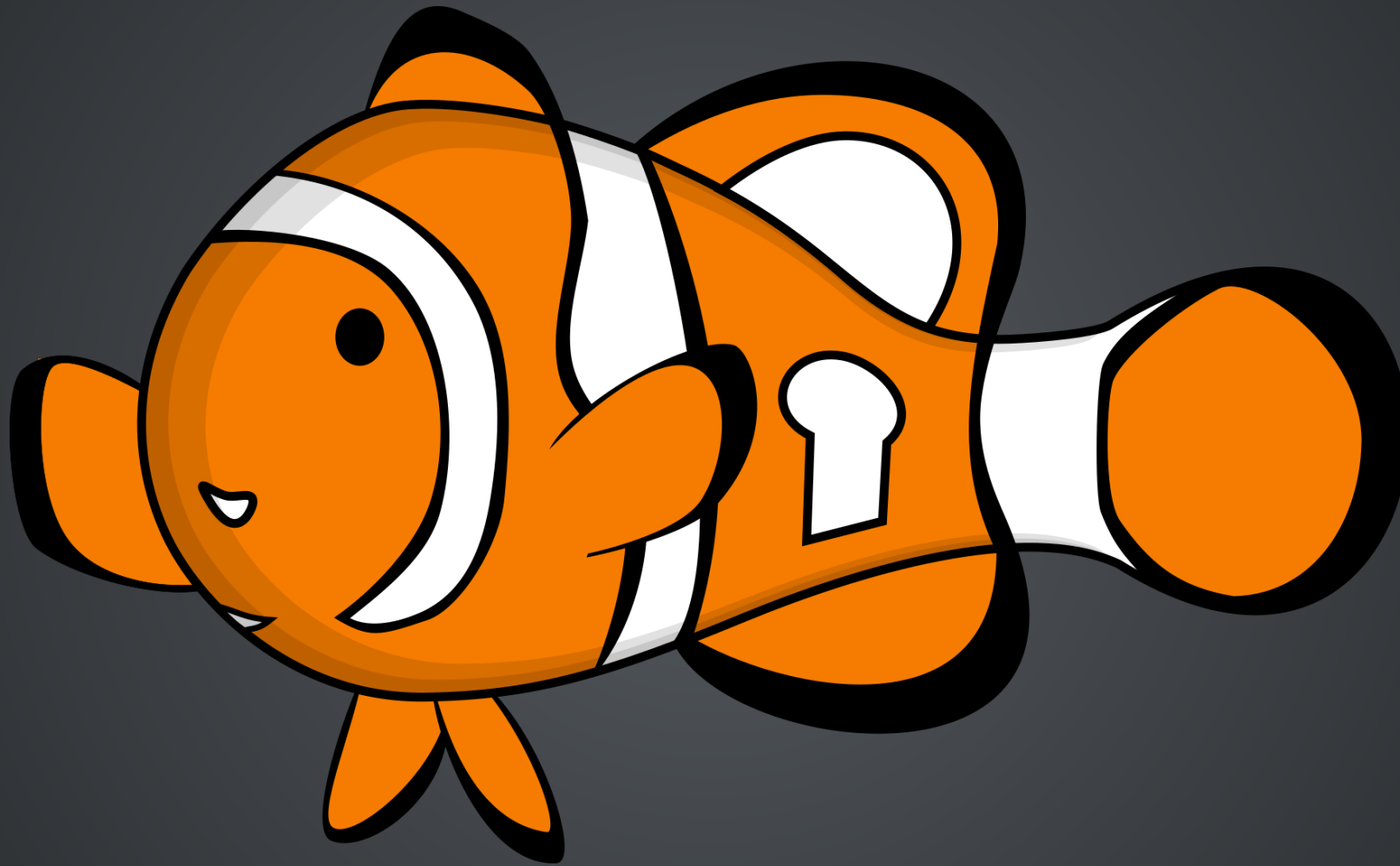
Thx, never heard of this then  
16:35 · Martin




*jonasw, jomo, wille, Zash have read up to this point*

Send unencrypted message





Conversations



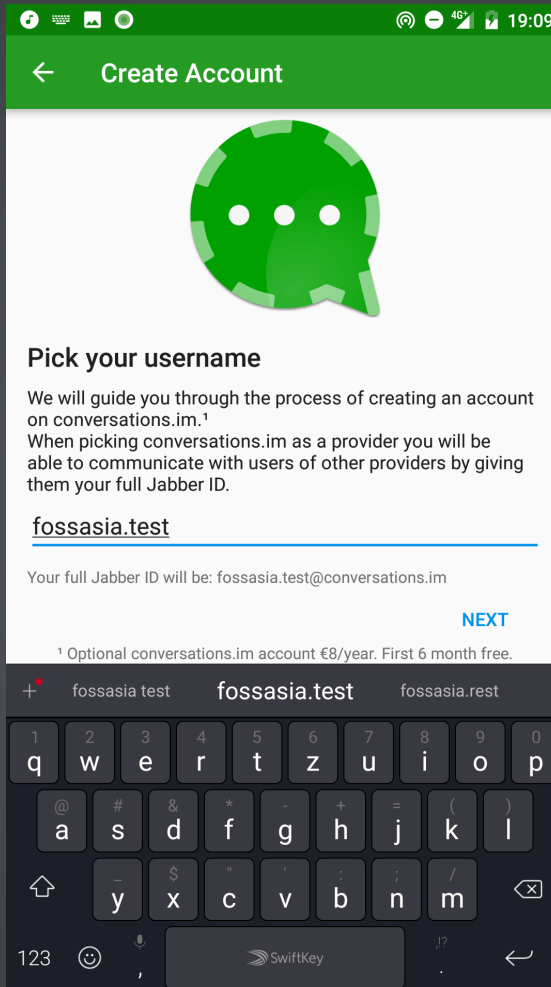
### Join the Conversation

Jabber is a provider independent instant messaging network. You can use this client with what ever Jabber server you choose.  
However for your convenience we made it easy to create an account on conversations.im<sup>1</sup>; a provider specially suited for the use with Conversations.

[CREATE ACCOUNT](#)

[USE MY OWN PROVIDER](#)

<sup>1</sup> Optional conversations.im account €8/year. First 6 month free.



2018

- as good or bad as everything else
- requires compliant server

XMPP Compliance · x

Secure | <https://conversations.im/compliance/>

**Advertisement**  
 Are you looking for an XMPP server that is very well maintained, always has the latest features and is running in a German data center?  
 Are you willing to spend a little money for a reliable service? Have a look at [conversations.im](https://conversations.im). Your first six month are free. No cancellation required.  
 We are also offering [Jabber/XMPP domain hosting](#) if you want to bring your own domain.

	XEP-0163: Personal Eventing Protocol	XEP-0115: Entity Capabilities	XEP-0045: Multi- User Chat	Roster Versioning	XEP-0191: Blocking Command	XEP-0198: Stream Management	XEP-0280: Message Carbons	XEP-0352: Client State Indication	XEP-0065: SOCKS5 Bytestreams (Proxy)	XEP-0313: Message Archive Management	XEP-0363: HTTP File Upload	XEP-0357: Push Notifications	XEP-0313: Message Archive Management (MUC)	XEP-0384: OMEMO Encryption ?	XEP-0368: SRV records for XMPP over TLS
pimux.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
wiuwiu.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
kode.im	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
draugr.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
dismail.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
riotcat.org	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
jabber.systemli.org	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
jabber.rwth-aachen.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
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im.koderoot.net	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
magicbroccoli.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
suchat.org	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
jabber.at	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
trashserver.net	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
jabber.cat	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
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deshalbfrei.org	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green
jabber.systemausfall.org	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Green
jabber.hot-chilli.net	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Green
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bommboo.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Red	Green
mail.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Green	Red	Red	Green
nuage.me	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red
pix-art.de	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red

# MOTIVATION

- Users: Provider independent instant messaging
- Get developers to use XMPP for their own projects

# GETTING STARTED

- Users
- [Conversations](#) (Android)
- [Gajim](#) (Windows / Linux)
- [ChatSecure](#) (iOS)
- Developers
- XMPP Library in nearly every language
- Server: ejabberd

# QUESTIONS?

[gultsch.de](http://gultsch.de)

[@iNPUTmice](https://twitter.com/iNPUTmice)