

# Chat, Messaging & Video Conferencing

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# Protocols

- [https://en.wikipedia.org/wiki/Messaging\\_Layer\\_Security](https://en.wikipedia.org/wiki/Messaging_Layer_Security)
- <https://xmpp.org/>
  - <https://conversations.im/omemo/>
- <https://veilid.com/>
- <https://noiseprotocol.org/>
- [https://en.wikipedia.org/wiki/Signal\\_Protocol](https://en.wikipedia.org/wiki/Signal_Protocol)
- IRC
- <https://github.com/simplex-chat/simplexmq/blob/stable/protocol/simplex-messaging.md>

# Apps

## Comparisons

- <https://berty.tech/faq>
- <https://simplex.chat/#comparison>
- [https://en.wikipedia.org/wiki/Comparison\\_of\\_instant\\_messaging\\_protocols](https://en.wikipedia.org/wiki/Comparison_of_instant_messaging_protocols)
- [https://en.wikipedia.org/wiki/Comparison\\_of\\_cross-platform\\_instant\\_messaging\\_clients](https://en.wikipedia.org/wiki/Comparison_of_cross-platform_instant_messaging_clients)

## Centralized

Servers are hosted by a provider and cannot be self-hosted. Clients are often provided by same party that hosts the servers and 3rd party clients are not welcome, protocols are not well defined.

- Signal - Signal Protocol
- Telegram - Custom crypto / off by default!
- Discord

## Federated

You can self-host your own network and continue exchanging messages with other networks. Clients are often developed independently based on well defined standards.

- IRC
  - irssi
  - Revolution IRC
- XMPP
  - [Conversations](#)
- Matrix
  - Element
- e-mail
  - [Delta Chat](#)

## Decentralized

Based on some sort of mixing network that hides social network and optionally provides store and forward functionality. Mixnet nodes can be self-hosted.

- [SimpleX](#) - Mixnet with store & forward
- [Session](#) - Mixnet with store & forward
- [Briar](#) - Tor

## Distributed

Full peer-to-peer connectivity. IP addresses may leak or be available to friends.

- [Jami](#) - DHT
- [Cabal](#) - DAT protocol based
- <https://tox.chat/> - DHT