

[1] Linephone. <http://www.linphone.org>

Recommended by [privacytools.io](#)

-Waddah Abu-Hmida

Should there be a "Security Breaches" or "incidents" column stating the number and perhaps links to recent known hacks of the app and its data servers?

-Waddah Abu-Hmida

Would CVEs also be considered in this criteria?

-Анонимен потребител

[2] The creators of the app/protocol are continuing development/support of it.

For Open Source projects: has had a commit in the last year.

[5] If a phone number or other permanent-ish identifier is not required for using the platform

[6] Are all chats end-to-end encrypted by default?

[8] Has there been a third party audit on the overall end to end encryption protocol by a well known security research firm or academic institution.

[9] This means there is an open source signed package available to a package manager that works on phones without Google Play. e.g. a reproducible F-Droid release.

[3] Multi-device messaging: More than one device can be directly connected to a given account at the same time

[10] If the receiving party does not have the client open; can you send them a message?

[11] Is there a mode of messaging that doesn't require an IP connection?

e.g. over LAN, Bluetooth, etc.

[13] Do you need an actual phone to use the software? e.g. do you need to receive an SMS to sign up?

I'd like to see a section for clients / client features. I realize this document is centered around the protocols, but when moving large teams to a different protocol, client UI is also a crucial concern. It would be nice to see some Slack-like features compared, e.g. channels, threads, reply-depth, bots, search, markdown, etc.

-Spencer Flagg

+1 Strongly agree. Maybe in a second sheet?

-Oskar



-Spencer Flagg

I would support columns to cover a given feature as long as you are going to do the research for that feature for say the top 50+ messengers.

--

Sent from my Android device with K-9 Mail. Please excuse my brevity.

-Lance Vick

[4] Multiple people can run their own servers and communicate between them. E-mail is an example of a federated network where gmail users can communicate with fastmail users

[15] Is the protocol documented in a published IETF or other international standards body document?
Usually this column is "Does an RFC exist for the protocol"

[14] The link is broken. This one might serve as replacement, though! :)

<https://matrix.org/faq/#why-aren't-you-doing-this-through-the-ietf%3F-or-w3c%3F-or-3gpp%3F>

-Félix Fischer

[7] Depends on the client. Some make E2E the default; others don't.

[12] <https://xmpp.org/extensions/xep-0174.html> allows for local messaging but it's still over IP

[16] Actually serverless, but we default to the happy state for that.

[17] No group chat support yet

[https://git.jami.net/savoirfairelinux/ring-project/wikis/Group-chat-feature-\(design-draft\)](https://git.jami.net/savoirfairelinux/ring-project/wikis/Group-chat-feature-(design-draft))

[18] Serverless

[19] Ring is a set of open specs glued together. Some of the ways they are connected together are under-spec'd

[20] SIP based but lots more non-standard on top

[21] Currently has NO support for connecting 2 people who aren't in Bluetooth range.

[22] Actually serverless, but we default to the happy state for that.

[23] Serverless

[24] Actually serverless, but we default to the happy state for that.

[25] Serverless

[26] https://wiki.tox.chat/users/offline_messaging

[27] Actually uses email servers.

[28] <https://git.openprivacy.ca/openprivacy/libricochet-go>

[29] Actually serverless, but we default to the happy state for that.

[30] Serverless

[31] Actually serverless but we default to the happy state for that

[32] Serverless

[33] Actually serverless, but we default to the happy state for that.

[34] Serverless

[35] Since 0.70.0

Not yet available in mobile app

[36] Since 0.70.0

Not yet available in mobile app

[37] This is actually true. <https://rocket.chat/docs/administrator-guides/federation/#federation>

-Aaron Ogle

Fedoration is currently in beta but is still functional.

<https://rocket.chat/docs/administrator-guides/federation/>

-Анонимен потребител

[38] IRC has DCC which can operate without a server

-Matthew Brooks

[39] Via jitsi meet. See <https://zulipchat.com/help/start-a-call>

[40] Actually serverless, but we default to the happy state for that.

[41] Serverless

[42] There is also an earlier audit: <https://eprint.iacr.org/2014/904.pdf>

- [43] In the US 2G downgrade requests must be honored which uses A5/1 encryption which has rainbow tables for the entire keyspace this fit in 2TB.
- [44] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [45] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [46] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [47] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [48] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [49] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [50] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [51] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [52] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [53] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [54] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [55] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [56] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.
- [57] Threema sends (if activated) the hashed phone numbers from your contact list to the threema servers.

Source: https://threema.ch/press-files/2_documentation/cryptography_whitepaper.pdf

If you know enough people, who activated this feature, Threema can deduce the connection from phone number to Threema ID with a certain probability. They claim they don't do this, but there's no guarantee.

Edit: Calculating the inverse of a hashed phone number is easy. Threema even acknowledges it in their white paper.

-Hal dan

- [58] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

- [59] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[60] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[61] Not possible. Just possible via Threema Web. - But this possibility is not accounted on Whatsapp although its analog to Threema in that way.

-siteking

<https://threema.ch/en/faq/multidevice>

-siteking

[62] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[63] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[64] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[65] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[66] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[67] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[68] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[69] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[70] Should be 'TRUE' as you don't need to have it installed on the iPhone to work.

-Siminiuc Sergiu

As far as I know you can't use it without owning a phone?

-Quae Quack

[71] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[72] Are you sure, that MS Teams is on premise?

-Анонимен потребител

[73] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[74] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[75] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[80] 2017

-Oskar

[98] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[99] Can be gained by Shhhhlack plugin

-Jayson Quayle

[100] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[101] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[102] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[103] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[104] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[105] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[106] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[107] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[108] Actually TRUE. <https://im.qq.com/linuxqq/index.html>

-im gg

[109] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[110] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[111] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[114] Actually serverless, but we default to the happy state for that.

[118] Serverless

[112] <https://www.blog.google/products/messages/latest-messages-allo-duo-and-hangouts/>

[113] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[115] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[116] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[117] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[119] From https://about.psyc.eu/#Stay_in_touch

> There is no active development of the old federation PSYC1 technology, just maintenance.

[120] Not possible to verify as application is closed source. Maintainer could compromise security at any time without detection.

[121] Seems to have one active implementation. But author is of questionable sanity

[122] Recommend you add Dust. <https://www.usedust.com/>

-Tanner Williamson

Heavily encrypted and 128-bit AES + 2048-bit RSA don't really go hand in hand. Looks like another generic proprietary messaging app with rudimentary, 90's era hybrid cryptosystem. Nothing stands out except the sprinke of magical crypto dust of "data living in the RAM".

Explaining how generic public key encryption works in the <https://www.usedust.com/encryption-model> indicates the developers are really excited about their accumulated knowledge about the basics of cryptography, which usually indicates the developers have finally reached the peak of Mount Stupid in the Dunning-Kruger graph.

-maqp

Please provide us with information about the application. I'm not finding much info on it and don't feel like installing it on my phone to find out myself.

-Quae Quack

[123] What about Rainbows (alcatel)?

-Julian Fernandez

I'd also like to see entries for Secure Scuttlebutt <http://scuttlebutt.nz> and also for ZeroMQ <http://zeromq.org>

-Darrell - Crypto UBI

[124] <https://cwtch.im> should be added :)

-Franco Cimatti

[125] What about Confide?

-Spencer Flagg

[126] Secure Scuttlebutt

-Devon Bush

[129] TRUE

-Devon Bush

[127] Not Sure

-Devon Bush

[131] TRUE
-Devon Bush

[133] N/A
Has 'pubs', but these are not necessary for the network to run.
-Devon Bush

[134] N/A
-Devon Bush

[135] TRUE
-Devon Bush

[136] TRUE
-Devon Bush

[137] TRUE
-Devon Bush

[138] TRUE
-Devon Bush

[139] FALSE
-Devon Bush

[140] N/A
Serverless
-Devon Bush

[141] FALSE
While firefox supports the ssb protocol and there is an addon, it requires software running in the background.
-Devon Bush

[142] FALSE
-Devon Bush

[143] TRUE
Manyverse
-Devon Bush

[128] FALSE
-Devon Bush

[144] TRUE
-Devon Bush

[145] TRUE
-Devon Bush

[146] TRUE
-Devon Bush

[147] TRUE
-Devon Bush

[148] FALSE
-Devon Bush

[149] FALSE
-Devon Bush

[150] FALSE
In development. Has bounty.
-Devon Bush

[151] TRUE
-Devon Bush

[152] TRUE
-Devon Bush

[153] TRUE
-Devon Bush

[154] FALSE
-Devon Bush

[155] FALSE
-Devon Bush

[156] TRUE
-Devon Bush

[157] TRUE
-Devon Bush

[158] TRUE
Public Domain
-Devon Bush

[159] FALSE
-Devon Bush

[160] 2014
-Devon Bush

[130] openfire <https://igniterealtime.org/index.jsp>
-Matt Axsom

[132] TRUE and FALSE values are being translated to other languages (probably based on geoip location), which I don't like. Maybe change them to Unicode check/cross marks (✓ ✗)?
-Анонимен потребител

[161] Symphony <https://symphony.com/>
-Matt Axsom

[162] <https://www.linphone.org>
-Nicolas POUGNEAUD
This one too : <https://loki.foundation/session/> too (I can't add more below)
-Анонимен потребител