Source: https://www.securemessagingapps.com/index.html

Messenger	Telegram	Session
Filter Table		8
Overview		
Is the app recommended to secure my messages and attachments?	No	Yes
Main reasons why the app isn't recommended	Bespoke cryptography	Implement perfect forward secrecy at the end-to-end encryption layer
/	Encryption not enabled by default Data not protected, not all data protected	Provide more comprehensive independent assessments of security/privacy
Improvements to apps that are recommended		
Details		
Company jurisdiction	USA / UK / Belize / UAE	Switzerland
Infrastructure jurisdiction	UK, Singapore, USA, and Finland	Worldwide (uses de-centralised servers)
Implicated in giving customers' data to intelligence agencies?	No	No
Surveillance capability built into the app?	No	No
Does the company provide a transparency report?	No	Yes
Company's general stance on customers' privacy	Poor	Good
Company collects customers' data?	Роог	Good

Home Ratings	e Ratings Change Log About/FAQ Contact GitHub		
Messenger	Telegram	Session	
Filter Table		8	
Company collects customers' data?	Poor	Good	
Funding	Pavel Durov	LAG Foundation Ltd	
App collects customers' data?	Contact info / contacts / identifiers	No	
User data and/or metadata sent to parent company and/or third parties?	Yes	No	
Is encryption turned on by default?	No	Yes	
Cryptographic primitives	RSA 2048 / AES 256 / SHA-256	X25519 / XSalsa20 256 / Poly1305	
Are the app and server completely open source?	No (clients and API only)	Yes	
Are reproducible builds used to verify apps against source code?	iOS and Android	No	
Can you sign up to the app anonymously?	No	Yes	
Can you add a contact without needing to trust a directory server?	No	Yes	
Can you manually verify contacts' fingerprints?	No (session only, does not provide users' fingerprint information)	Yes	
Directory service could	No	No	

Messenger	Telegram	Session
Filter Table		8
Does the app encrypt metadata?	No	Yes
Does the app use TLS/Noise to encrypt network traffic?	No	Yes
Does the app use certificate pinning?		Yes
Does the app encrypt data on the device? (iOS and Android only)		Yes
Does the app allow local authentication when opening it?	Yes	Yes
Are messages encrypted when backed up to the cloud?		N/A, Session is excluded from iCloud/iTunes & Android backups
Does the company log timestamps/IP addresses?	Yes	No
Have there been a recent code audit and an independent security analysis?	Yes (November, 2015)	Yes (April, 2021)
Is the design well documented?	Somewhat	Somewhat
Does the app have self- destructing messages?	Yes	Yes
	Source code: Mike Kuketz CC BY-NC-SA 4.0 © 🛈 🕏 🧿	