IOS Encrypted Apps And Secure Messengers

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ENCRYPTEDAPPS & SECUREMESSENGERS · A GUIDE FOR UK LAWYERSiOS Encrypted Apps and Secure MessengersSignal, Telegram and Wickr: What Encryption Protects, What It Does Not, andWhat the Device Still Gives UpCOMPUTER FORENSICS LAB§ ABOUT THE AUTHORPREPARED BY COMPUTER FORENSICS LAB E-DISCOVERY TEAMESTABLISHED 2007 · LONDON ISO 17025-ALIGNED PROCEDURES SECURE-MESSENGER FORENSICSFULL CHAIN-OF-CUSTODY DOCUMENTATION§ CONTENTSIn this guide01 Executive summary02 The problem in plain English: encryption protects the wire, not the end point03 What secure messengers protect, and how04 What the device still holds05 Where recovery genuinely stops06 Understanding each app precisely07 Deployment: recovering from the end point, honestly08 Source architecture: where else the evidence lives09 Worked examples10 Common mistakes and technical limitations11 Questions to ask · Suggested wording12 Checklist and red flags · When to involve a digital forensic expert13 Frequently asked questions14 Glossary · References · Disclaimer · How a specialist laboratory can assist§ 01 · ORIENTATIONExecutive summaryThe headline point: secure messengers like Signal, Telegram and Wickr protect messages in transit andagainst interception, not from the very device that displays them, so if a conversation is readable on thephone it is in principle recoverable from the phone, subject to each app's own on-device protections anddeletion, which vary greatly.§ 02 · FIRST PRINCIPLESThe problem in plain English: encryption protects the wire, notthe end point§ 03 · WHATTHEYPROTECTWhat secure messengers protect, and how§ 04 · WHAT THE DEVICE HOLD SWhat the device still holds§ 05 · WHERERECOVERYSTOPSWhere recovery genuinely stops§ 06 · UNDERSTANDINGEACHAPPUnderstanding each app precisely§ 07 · DEPLOYMENTDeployment: recovering from the end point, honestly§ 08 · THEWIDERMAPSource architecture: where else the evidence livesEVIDENCE PROVIDERTHE PHONE COUNTERPART BACKUPS / APFS CLOUD(END POINT) DEVICE ICLOUD SNAPSHOTS (SOMEAPPAPPS)§ 09 · IN THE WILDWorked examplesEXAMPLE1 · THE " UNRECOVERABLE " APPRECOVEREDFROMTHEENDPOINTEXAMPLE2 · THEDISAPPEARINGMESSAGESTHATWEREGENUINELYGONEEXAMPLE3 · THETHREEAPPSTHATBEHAVEDQUITEDIFFERENTLY§ 10 · WHEREITGOESWRONGCommon mistakes and technical limitationsCommon mistakesTechnical limitations§ 11 · INTERROGATORIES & DRAFTING AIDSQuestions to ask · Suggested wordingAsk your clientAsk your opponentAsk your e Discovery / forensic providerSUGGESTED WORDING · INSTRUCTIONFORASECURE - MESSENGERANA LY SIS§ 12 · QUICK CONTROLChecklist and red flags · When to involve a digital forensicexpertThe secure-messenger checklistRed flagsWhen to involve a digital forensic expert§ 13 · COMMON QUESTIONSFrequently asked questionsAren't apps like Signal simply unrecoverable?So can you always recover secure-messenger conversations?Do these apps all behave the same way?Can deleted secure-messenger messages be recovered?If we can't get it from the phone, is there another way?Does using a secure messenger look suspicious?§ 14 · REFERENCEGlossarySources and authoritative referencesDISCLAIMER§ HOW A

SPECIALIST LABORATORY CAN ASSISTWorking with Computer Forensics LabSpeak to a forensic examiner, not a salesperson.INSTRUCTTHELABNEWENQUIRIESEMAILE - DISCOVERY

Questions and answers

Aren't apps like Signal simply unrecoverable?

No, that misunderstands what the encryption protects (

So can you always recover secure-messenger conversations?

No, and claim in g so would be the opposite error (

Does using a secure messenger look suspicious?

Not in itself, and it is treated neutrally (