IOS Full File System Vs Logical Acquisition

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IOSACQUISITIONMETHODS · A GUIDE FOR UK LAWYERSiOS Full-File-System vs Logical AcquisitionHow Deep the Extraction Goes, and Why It Matters for What You Will FindCOMPUTER FORENSICS LAB§ ABOUT THE AUTHORPREPARED BY COMPUTER FORENSICS LAB E-DISCOVERY TEAMEXTRACTION-DEPTH ASSESSMENT CPR PART 35 EXPERT REPORT SFULL CHAIN-OF-CUSTODY DOCUMENTATION§ CONTENTSIn this guide01 Executive summary02 The problem in plain English: depth changes the answer03 Logical acquisition: what the phone hands over04 Full-file-system acquisition: the deeper record05 What each reaches, and what it misses06 Availability, method choice and honest limits07 Deployment: matching the method to the matter08 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: iOS extractions differ in depth, a logical acquisition collects what the phone hands overthrough normal interfaces, while a full-file-system acquisition reaches the deeper file system including faralways be under stood and stated.§ 02 · FIRST PRINCIPLESThe problem in plain English: depth changes the answer§ 03 · LOGICALACQUISITIONLogical acquisition: what the phone hands over§ 04 · FULL - FILE - SYSTEM ACQUISITIONFull-file-system acquisition: the deeper record§ 05 · WHATEACHREACHESWhat each reaches, and what it misses§ 06 · AVAILABILITYANDHONESTLIMITSAvailability, method choice and honest limits§ 07 · DEPLOYMENTDeployment: matching the method to the matter§ 08 · THEWIDERMAPSource architecture: where else the evidence livesEVIDENCE SYSTEM I CLOUDLOGICAL COMPUTER PAIRED APP PROVIDER /(DEVICE) BACKUP MAC / IPAD CARRIERFULL-FILE-(DEVICE)§ 09 · IN THE WILDWorked examplesEXAMPLE1 · THEDELETEDMESSAGESALOGICALEXTRACTIONMISSEDEXAMPLE2 · THELOGICALEXTRACTIONTHATWASENOUGHEXAMPLE3 · THEDEPTHTHATWASNOTAVAILABLE, ANDTHEESTATETHATHELPED§ 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 · INSTRUCTIONFORANIOSE XT R AC TION§ 12 · QUICK CONTROLChecklist and red flags · When to involve a digital forensicexpertThe extraction-depth checklistRed flagsWhen to involve a digital forensic expert§ 13 · COMMON QUESTIONSFrequently asked questionsWhat is the difference between logical and full-file-system extraction?If a logical extraction found nothing, does that mean it isn't there?Do we always need the deeper extraction?Can you always do a full-file-system extraction?Why does the method used need to be disclosed?Can backups make up for a shallow device extraction?§ 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

Can you always do a full-file-system extraction?

No, its availability depends on the device (

Why does the method used need to be disclosed?

Because it determines what the exam in at i on could reach (