Android Deleted Data SQLite And Unallocated Space

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ANDROIDDELETEDDATA · A GUIDE FOR UK LAWYERSAndroid Deleted Data, SQLite andUnallocated SpaceWhere Deleted Android Data Survives, Why Depth Decides It, and HowEncryption and TRIM Change the OddsCOMPUTER FORENSICS LAB§ ABOUT THE AUTHORPREPARED BY COMPUTER FORENSICS LAB E-DISCOVERY TEAM§ CONTENTSIn this guide01 Executive summary02 The problem in plain English: deleted is not gone, but the odds have changed03 Where deleted Android data survives04 Depth decides: what each extraction reaches05 Encryption and TRIM: the modern limits06 Recovery, interpretation and honest limits07 Deployment: restoring what a party erased08 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: deleted Android data frequently survives in SQLite free space and journals, recoverableuntil overwritten, but the depth of acquisition decides what can be reached, and file-based encryption andflash TRIM mean that classic unallocated-space carving works far less often on modern devices, so recoverydepends on depth, the device's encryption and storage, and prompt preservation, with the estate as the routearound what the device no longer holds.§ 02 · FIRST PRINCIPLESThe problem in plain English: deleted is not gone, but the oddshave changed§ 03 · WHEREITSURVIVESWhere deleted Android data survives§ 04 · DEPTHDECIDESDepth decides: what each extraction reaches§ 05 · ENCRYPTIONANDTRIMEncryption and TRIM: the modern limits§ 06 · RECOVERYANDHONESTLIMITSRecovery, interpretation and honest limits§ 07 · DEPLOYMENTDeployment: restoring what a party erased§ 08 · THEWIDERMAPSource architecture: where else the evidence livesEVIDENCE (PHYSICAL SD CARD RECOVERABLE?DEVICE BACKUP S /(FILE- GOOGLE / COUNTERPART /SYSTEM MAKER CARRIERDEPTH) CLOUDDEVICEDEPTH)§ 09 · IN THE WILDWorked examplesEXAMPLE1 · THE DELETED MESSAGES IN THE DATABASE ' SFREESPACEEXAMPLE2 · THEUNALLOCATEDSPACETHATYIELDEDONLYCIPHERTEXTEXAMPLE3 · THELOGICALREPORTTHATCOULDNEVERHAVEFOUNDIT§ 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 · INSTRUCTIONFORANANDROIDDELETED - DATA RECOVERY§ 12 · QUICK CONTROLChecklist and red flags · When to involve a digital forensicexpertThe Android deleted-data checklistRed flagsWhen to involve a digital forensic expert19. This guide continues the Android block. Through cflab.uk and e-discovery.uk, Android deleted-data work§ 13 · COMMON QUESTIONSFrequently asked questionsCan deleted data be recovered from an Android phone?Why does the depth of extraction matter so

much?What are file-based encryption and TRIM, and why do they matter?So is deleted data on a modern Android phone unrecoverable?Why does preserving the phone quickly matter?What if the phone genuinely no longer holds the deleted data?§ 14 · REFERENCEGlossarySources and authoritative references35 and CrimPR Part 19 reporting): cflab.uk/digital-forensics-services · guides library: cflab.uk/guidesDISCLAIMER§ HOW A SPECIALIST LABORATORY CAN ASSISTWorking with Computer Forensics LabSpeak to a forensic examiner, not a salesperson.INSTRUCTTHELABNEWENQUIRIESEMAILE - DISCOVERY

Questions and answers

Can deleted data be recovered from an Android phone?

Often yes, but it depends on depth, encryption and timing (

Why does the depth of extraction matter so much?

Because each depth reaches different deleted data (

What are file-based encryption and TRIM, and why do they matter?

The two modern limits on classic recovery (

So is deleted data on a modern Android phone unrecoverable?

No, because database remnants largely survive the modern limits (

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