Wear OS And Android Paired Device Forensics

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WEAROS & PAIREDDEVICES · A GUIDE FOR UK LAWYERSWear OS and Android Paired-Device ForensicsWatches, Tablets, Earbuds and Cars: The Wider Android Estate, Its StrongerAttribution and Its Many MakersCOMPUTER FORENSICS LAB§ ABOUT THE AUTHORPREPARED BY COMPUTER FORENSICS LAB E-DISCOVERY TEAMPAIRED-DEVICE ESTATE ANALYSIS CPR PART 35 EXPERT REPORT SFULL CHAIN-OF-CUSTODY DOCUMENTATION§ CONTENTSIn this guide01 Executive summary02 The problem in plain English: the phone rarely lives alone03 What Android wearables and paired devices record04 Stronger attribution: the device on the body05 Many makers: acquiring across the Android estate06 Interpretation and honest limits07 Deployment: the wrist, the tablet and the wider estate08 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: an Android phone rarely lives alone, and its smartwatch, tablet, earbuds, car and otherperson more directly than a pocketed phone, and provides redundancy, because the same data is reachableon its own terms.§ 02 · FIRST PRINCIPLESThe problem in plain English: the phone rarely lives alone§ 03 · WHATTHEYRECORDWhat Android wearables and paired devices recordWATCH HEALTH / MIRRORED COMMS TABLET (ACCOUNT) CONNECTION PAIRED ESTATEMOTION RECORDS§ 04 · STRONGERATTRIBUTIONStronger attribution: the device on the body§ 05 · MANYMAKERSMany makers: acquiring across the Android estate§ 06 · INTERPRETATIONANDHONESTLIMITSInterpretation and honest limits§ 07 · DEPLOYMENTDeployment: the wrist, the tablet and the wider estate§ 08 · THEWIDERMAPSource architecture: where else the evidence livesEVIDENCE MAKER TABLETWATCH COMPANION ACCESS OR Y / IF PHONE(WORN) APP (PHONE) CAR RECORDS GONEGOOGLE /CLOUD§ 09 · IN THE WILDWorked examplesEXAMPLE1 · THEWATCHTHATSTRENGTHENEDATTRIBUTIONEXAMPLE2 · THECARCONNECTIONTHATPLACEDTHEPHONEEXAMPLE3 · THEWIPEDPHONEANDTHEESTATEAROUNDIT§ 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 · INSTRUCTIONFORANANDROID PA IRED - DEVICE ANALYSIS§ 12 · QUICK CONTROLChecklist and red flags · When to involve a digital forensicexpertThe Android paired-device checklistRed flagsWhen to involve a digital forensic expert§ 13 · COMMON QUESTIONSFrequently asked questionsWhy examine the watch and paired devices as well as the phone?Are Android watches the same as an Apple Watch forensic all y?Does the watch prove who was doing something?What do connection records show?Can the estate help if the

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Questions and answers

Why examine the watch and paired devices as well as the phone?

For attribution, their own data, and redundancy (

Are Android watches the same as an Apple Watch forensic all y?

The value is the same; the variety is greater (

Does the watch prove who was doing something?

It attributes activity to a person more strongly than a phone, but not absolutely (

What do connection records show?

That the phone paired with a device at a time, which is a proximity signal (

Is watch health data reliable evidence?

It is valuable but indicative, and sensitive (