

G-Cloud 15

EXPERT DIGITAL FORENSICS & ADVANCE DATA RECOVERY

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INTRODUCTION

A Trusted Provider of Digital Forensics and Advanced Data Recovery Services.

Specialised laboratory in digital forensics and advanced data recovery, with over 15 years of experience tackling complex data related challenges. Our laboratory focuses on the forensic recovery, investigation, and reporting of data from digital devices, supporting Industry, Law Enforcement, Government and Critical National Infrastructure (CNI). We provide a professional service that recovers and transforms complex technical data into accurate and complete evidence for use in both prosecution and defence cases.

CORE CAPABILITIES

1. Digital Forensics: Specialised Forensic Infrastructure, Traditional Forensics and Technical Bespoke Recovery Services

Our laboratory serves as a centre of excellence, providing traditional and bespoke digital forensics service tailored to high-priority and complex investigative requirements.

- **Traditional Forensic Services:** A comprehensive lab for standard digital investigations, delivering expert services for device imaging, triage, analysis and reporting of computers, mobile devices and removable media.
- **Advanced Technical Environment:** We operate an advanced equipment suite that allow us to work on challenges that exceed the capabilities of standard off-the-shelf tools and labs.
- **Bespoke Research & Development:** We offer custom research projects to investigate new device types, unique data analysis challenges, and advanced novel data recovery methods.
- **Expert Guidance:** Our experts provide technical workshops and consultancy to help organisations understand forensic opportunities and implement advanced forensic tools and innovative investigative methods.
- **Technical Validation Reports:** We deliver straightforward, authoritative reports that validate data integrity and our proprietary methodology for judicial review.
- **Expert Witness Reports:** Our practitioners provide authoritative expert witness testimony and court-ready reports, ensuring all findings and technical methods withstand judicial scrutiny for both prosecution and defence.

2. Advanced Data Recovery & Hard Disk Repair

Our laboratory utilises specialised hardware-software solutions to recover data from storage media that is inaccessible due to severe mechanical failure, physical damage, or extreme logical corruption.

- **Forensic Hard Disk Repair:** We perform intricate mechanical repairs that can be expertly explained and are forensically audited for review.
- **Advanced Chip Recovery:** Our engineers utilise a range of advanced methods to bypass failed devices storing data on NAND flash chipsets enabling advanced data recovery opportunities.
- **Hardware Stability Handling:** We employ advanced hardware stabilisers to manage physically degraded USB, solid-state and mechanical storage devices.
- **Filesystem Logical Data Repair and Recovery:** Our laboratory performs complex filesystem logical repairs to overcome corruption and directory structure issues, utilising specialist tools to rebuild damaged file systems for full data extraction.
- **High-Speed Multi-Channel Recovery:** Our facility features high-speed imaging systems capable of processing multiple cases simultaneously at speeds up to 10Gbps, significantly reducing turnaround times for high-capacity drives.

3. Specialist Vehicle Forensics

We offer a standout capability in the recovery and analysis of data from vehicle systems, specifically supporting the **UK, EU, and JDM (Japanese Domestic Market)** automotive OEM's and their custom hardware and software architectures.

- **Telematics & Infotainment:** Extraction of movement patterns, event data, and user logs from integrated vehicle modules.
- **System Analysis:** Forensic analysis of proprietary vehicle ecosystems to identify critical investigative timestamps and driver behaviour.

- **Evidence Validation:** Ensuring automotive data is recovered in a manner that is legally tested and approved for judicial proceedings.

4. CCTV Forensics

Our experts provide specialised services for the extraction, enhancement and analysis of video evidence from diverse digital and analog systems.

- **Recovery of Proprietary Formats:** Handling and converting video from various non-standard CCTV systems into viewable, court-ready formats without losing critical metadata.
- **Evidence Integrity:** Securing accurate and complete video evidence while maintaining a rigorous and transparent chain of custody.

5. Smart Device & Mobile Forensics

We utilise low-level hardware access and software methods to extract data and analyse data from modern mobile devices.

- **Android and iOS Forensics:** We provide comprehensive extraction and analysis for both Android and iOS platforms, utilising advanced methods to recover deleted messages, application data, and encrypted system logs while maintaining full evidentiary integrity.
- **Android RAM Forensics:** We perform advanced volatile memory analysis on Android devices, enabling the capture of live application data, encryption keys, and active system processes for comprehensive app testing and forensic verification.
- **IOT and Wearable Forensics:** Advanced extraction of logs, user data, health data, GPS location history, and communication logs from smartwatches and IoT and other wearable devices.
- **Damaged Device Recovery:** Retrieval of contacts, messages, and application data from devices with broken screens, damaged logic boards, or water damage.

SERVICE DELIVERY PHASES

To ensure mission success and forensic integrity, we follow a clear, four-phase delivery model:

1. **Governance & Agreement:** Defining the scope, costs, legal considerations, policies and required forensic standards for the engagement.
2. **Discovery:** Identifying assets and assessing the specific approach method for recovery, analysis and reporting.
3. **Planning:** Defining the roadmap and action plans for extraction, analysis, reporting and expert witness evidence presentation.
4. **Execution:** Delivering technical work packages, high-speed data recovery, and final investigative reports.

ABOUT THALES

Thales in the UK has been harnessing technology to benefit the nation for over a century. Across all walks of life, you will find us securing and protecting every moment. We develop world-leading capabilities to help our customers think smarter and act faster.

Thales collaborate with partners in both government and industry, providing cutting-edge technologies to the civil and defence markets.

Thales has a significant presence across the UK, with locations strategically positioned in England, Wales, Northern Ireland, and Scotland. This geographic reach enables us to effectively support the diverse needs of local communities while contributing to the economic prosperity of all four nations. Our key facilities, along with several customer-facing sites, extend from the South West of England to Glasgow, reinforcing our commitment to regional investment and development.

The most trusted organisations in the world rely on Thales for cybersecurity solutions that keep critical assets safe. With more than 6,000 cybersecurity experts worldwide, our portfolio protects

applications, data and identities, including services that close compliance gaps, detect and monitor threats and strengthen defences.

For further information, please see <https://www.thalesgroup.com/en/worldwide/united-kingdom>

