



Cell Site, Geo Location & Wi-Fi Investigation Service Definition



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Correlation Chart

Clause	FSR Code of Practice v2	ISO/IEC 17025:2017	ILAC-G19 :06/2022	ISO 9001:2015	ISO/IEC 27001:2022
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1. Cell Site, Geo Location & Wi-Fi Investigation Services

1.1 Service Overview

- 1.1.1 Cell Site Analysis is a forensically recognised method to help identify an area in which a mobile device could have been located.
- 1.1.2 Analysis and interpretation of data retrieved from the network provider, such as Call Data Records (CDR), Device Data Records and Sub Records is completed as part of a bespoke case by case strategy.
- 1.1.3 Cell Site Analysis will help in understanding the potential location and movements of a mobile device at the relevant times for an investigation. Pattern analysis of call data records can support enquiries into colocation, historic movement, and usage or behavioural patterns.
- 1.1.4 RFPS (Radio Frequency Propagation Surveys) can be conducted at the locations of interest to further support the analysis and interpretation of the records, under separate arrangement.



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2. Service Features

2.1.1 Below is a list of the core capabilities and characteristics of the Cell Site, Geo, Location & Wi-Fi Investigation Service, describing what is delivered and how the service operates:

2.2 Law Enforcement & Prosecution Services

- a) **Forensic Cell Site Strategy** - The Forensic Cell Site Strategy ensures the work aligns with the clients objectives, with agreed parameters, and is reviewed and updated throughout the case for clarity.
- b) **Expert Analysis, Interpretation & Opinion Evidence** - All available data sources are reviewed and analysed to provide factual and opinion-based evidence against defined hypotheses, supporting an understanding of the movements of a mobile device or devices.
- c) **Technical Reports & Mapping** - All analysis is presented in a court-ready technical report and mapping, setting out factual findings and expert opinion in a clear, easy-to-understand format to support interpretation of probable device location via cellular and/or Wi-Fi networks.
- d) **Streamlined Forensic Reports (SFRs)** - Streamlined forensic reports (SFR) provide a concise summary of the analysis while retaining factual findings and expert opinion, reducing production time and supporting urgent or high-risk cases.
- e) **Expert Witness Testimony & Court Attendance** - Expert witness services include preparation of expert witness statements, attendance at case conferences and relevant meetings, and providing impartial evidence in court in person or via live link, where required.
- f) **Cell Site Analysis Consultancy & Training** - Training is available at foundation and advanced level to support legal and investigative teams in the use of Cell Site Analysis as evidence or intelligence, and consultancy is provided to support ISO/IEC 17025 accreditation and wider quality accreditation objectives.

2.3 Defence Services

- a) **Cell Site Evidential Review** - We review and assess cell site and Wi-Fi technical reports for accuracy, balance, and technical validity, supporting forensically sound evidence for court proceedings.
- b) **Expert Analysis, Interpretation & Opinion Evidence** - We provide expert analysis and interpretation of call data records and all available information, producing detailed, court-ready technical reports setting out factual findings and expert opinion to support understanding of device movements, including the use of RF propagation survey (RFPS) data where available.



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- c) **Expert Witness Testimony & Court Attendance** - Expert witness services include preparation of expert witness statements, attendance at defence case conferences and relevant meetings, and providing impartial evidence in court in person or via live link, where required.
- d) **Legal Aid** - Our organisation accepts legal aid instructions and has significant experience managing cases funded through legal aid.



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3. Service Benefits

- 3.1.1 Our team combines technical expertise with investigative insight to provide accurate, defensible, and comprehensive analysis of mobile network and RFPS data, presented in a clear format to support understanding by the Court.
- 3.1.2 At IntaForensics, we are proud to be the first organisation accredited to ISO/IEC 17025:2017 and the Forensic Science Regulator's Code of Practice for cell site analysis.
- 3.1.3 Drawing from extensive experience in military and law enforcement, our specialists deliver expert witness services for prosecution and defence cases across the UK.
- 3.1.4 Key benefits include:
- a) **Accredited, Independent and Objective Expert Opinion** - The service delivers accredited, impartial, evidence-based analysis of cell site data. All opinions are formed in accordance with the expert's duty to the court, ensuring objectivity, transparency, and professional integrity.
 - b) **Accurate Interpretation of Telecommunications Evidence** - Cell site data can be complex and technical in nature. The service provides clear and accurate interpretation of call data records and related network information, ensuring that technical evidence is correctly understood, contextualised, and not overstated or misrepresented.
 - c) **Clarity and Accessibility for the Court** - Technical findings are presented in a clear, structured, and comprehensible manner suitable for judges, magistrates, juries, and legal professionals without specialist telecommunications knowledge. This supports informed decision-making and reduces the risk of misunderstanding.
 - d) **Identification of Limitations and Alternative Explanations** - In line with the Forensic Science Regulator's Code of Practice for cell site analysis, limitations and uncertainties inherent in cell site analysis are explained allowing the court to properly assess the weight that should be given to the evidence.
 - e) **Support for Fair and Balanced Proceedings** - By providing balanced analysis for either prosecution or defence, the service supports the fair administration of justice. The expert opinion assists the court in evaluating the relevance, reliability, and significance of cell site evidence within the wider case context.
 - f) **Robust, Defensible Reporting** - Reports are prepared in accordance with relevant legal rules, guidance, and codes of practice governing expert evidence. The analytical methodology is documented and capable of withstanding scrutiny in court, including cross-examination.
 - g) **Effective Assistance at Trial and Hearings** - Where required, the service includes attendance at case conferences, hearings, and trials to explain technical evidence and



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answer questions clearly and professionally. This ensures consistency between written reports and oral testimony.

- h) **Efficient Case Handling** - Early, structured analysis can assist legal teams in understanding the strengths and limitations of cell site evidence at an early stage, supporting informed decisions on case strategy, plea, or scope of further investigation.



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4. Scope of Service

4.1 In-scope activities

4.1.1 The following activities are within the scope of the service:

- a) **Call Data Record Analysis/Timeline Analysis** - Call Data Record Analysis/Timeline Analysis considers the possible location/movement of mobile device of interest at relevant times.
- b) **Attribution Analysis** - Attribution Analysis considers potential attribution of a mobile device to a location. Is the data of a type expected if the user of the device resided in an area that includes the location of interest.
- c) **Colocation/Non-Colocation Analysis** - Colocation Analysis considers whether a device could have been located in a similar area at a similar time to another device, and/or vehicle. Non-colocation considers if the devices could have been located in separate areas and under the control of more than one user.
- d) **Call Pattern Analysis** - Call Pattern Analysis considers patterns in usage, frequent contacts and commonly called numbers within a devices usage, and across multiple devices, identifying common contacts.
- e) **Other Sources of Data** - Cell Site Analysis can be completed in conjunction with other sources of data such as GPS, ANPR and vehicle telematic data, which may also be overlaid against Call Data Records to assist with corroborating the potential location of a device.
- f) **Reporting** - Analysis findings can be detailed within a Technical Report along with associated Mapping Appendices, Combined Call Schedule and Technical Guide. Where appropriate Streamlined Forensic Reports (SFR) can be completed.
- g) **Expert Witness Services/Court Attendance** - Our cell site experts can present their findings at Court as part of a trial and assist the Court in understanding the cell site evidence

4.2 Out-of-scope activities

4.2.1 The following activities are not included within the standard scope of the Cell-Site, Geo Location & Wi-Fi Investigation service. However, the organisation can provide support for these activities through additional services or established partner arrangements, subject to separate agreement:

- a) Radio Frequency Propagation Surveys (RFPS) unless separately contracted.
- b) Live network monitoring or interception
- c) Activities outside of the clients legal authority



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4.3 Assumptions, Constraints and Dependencies

4.3.1 The delivery of the Cell Site Analysis Service is subject to the following assumptions and constraints:

- a) The client must have legal authority to submit data and authorise forensic analysis.
- b) Data subject to analysis must be in its raw format as provided by the Network.
- c) Findings are dependent on the availability, quality, and accuracy of source data. Cell-site and Wi-Fi analysis provide probabilistic assessments rather than precise positioning and are subject to environmental, network, and device-specific factors. All limitations are clearly documented in reporting.
- d) Reliance on third-party data providers
- e) Network design changes over time
- f) Inherent limitations of location precision



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5. Onboarding

- 5.1.1 Onboarding begins upon receipt of authorisation.
- 5.1.2 Case ownership is allocated to a cell site analyst who is responsible for Client contact and a bespoke case strategy agreed, setting out the intended work to be completed.
- 5.1.3 Scope and delivery timelines are agreed.



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6. Service Delivery Model

- 6.1.1 All investigations are conducted using recognised forensic and analytical methodologies. Data is validated, normalised, and analysed using specialist tools and techniques. Findings are corroborated across multiple data sources where available, and assumptions and limitations are clearly documented. A case is allocated to a cell site analyst who is responsible for managing and delivering outcomes within agreed delivery timescales.

6.2 Inputs and Data Sources

- 6.2.1 The service may utilise, where lawfully obtained:
- a) Mobile network records (CDRs, cell-site data)
 - b) Device extraction data
 - c) Application and cloud location records
 - d) Wi-Fi artefacts and access point databases
 - e) Open-source and third-party reference datasets

6.3 Outputs and deliverables

- 6.3.1 The following deliverables are provided as part of the service:
- a) Technical analysis reports detailing methodology, findings, and confidence levels, including SFR's if required.
 - b) Visualisations including maps, timelines, and movement plots
 - c) Executive summaries suitable for non-technical stakeholders
 - d) Expert witness statements or court-ready documentation where required, including the creation of presentations and/or storyboards.

6.4 Delivery Phases

- 6.4.1 The delivery of the service is split into the following phases:
- a) **Forensic Cell Site Strategy** – Strategy covering the scope of analysis and work to be completed.
 - b) **Analysis** – Analysis completed in line with strategic contentions.
 - c) **Reporting** – Technical reporting, conclusions and associated mapping and call schedules.
 - d) **Quality check and Technical Review** – Peer review of analysis, conclusions and associated appendices.



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6.5 Typical Timelines

6.5.1 Timelines vary on a case-by-case basis depending on the tasking.

6.6 Delivery Modes

6.6.1 Analysis and reporting are completed under strict ISO/IEC 17025 methodologies and associated quality management controls.

6.7 Compliance and Assurance

6.7.1 All services are delivered in accordance with applicable legal, regulatory, and evidential requirements. Data handling and analysis are conducted in line with recognised digital forensic standards and best practices.



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7. Support Model

7.1.1 The Cell Site Analysis Service consists of two support models:

- a) **Standard Support** - Business-hours delivery including analysis activities, status updates, and reporting.
- b) **Enhanced Support** - Accelerated or out-of-hours analysis for time-critical or legal matters, subject to agreement.



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8. Service Level Agreements

8.1 Standard service

- 8.1.1 Our standard turnaround time for cases is 28 days. Where the overall work required is likely to exceed this timeframe, timescales will be discussed and agreed in advance.

8.2 Timescales and deadlines

- 8.2.1 Court dates, due dates, and delivery timelines are agreed case-by-case, with progress and timeframes managed by the Principal Analyst and communicated throughout.

8.3 Urgent work / SFR requests

- 8.3.1 Urgent matters (including SFR-related work) can be started upon receipt, typically within office hours.

8.4 Out-of-hours response

- 8.4.1 Where required, out-of-hours support can be provided by prior agreement, with rapid response times discussed at the point of instruction.

8.5 Urgent turnaround

- 8.5.1 Urgent cases are typically completed within 7 days, with expedited timescales available subject to scope and agreement.



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9. Technical Requirements

9.1.1 In order for our Submissions or Sales team to commence a Cell Site Analysis case, the following information is required:

- a) Full contact details of the OIC / instructing solicitor / company (name, number, email)
- b) Due date for completion of work and/or trial date
- c) MG5 / case circumstances (where available)
- d) Objectives / instructions to the expert (defence only)
- e) Type of offence
- f) Offence date and time(s)
- g) Operation name / crime reference (prosecution)
- h) Locations of interest (if a survey is required)
- i) Phone number(s) to be analysed and network(s)
- j) Analysis date and time parameters
- k) Call Data Records (RAW CSV format, plus PDF where available)

9.1.2 For defence case estimates, items a–d are the minimum required.



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10. Exit and Offboarding

- 10.1.1 At conclusion, final reports are delivered, data is handled in accordance with retention policies, and secure offboarding is completed.



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11. Roles and Responsibilities

11.1.1 The following are the main roles and responsibilities expected of staff

- a) **Submissions Officer / Sales** – Receives the enquiry, gathers initial case details, requests estimated hours from an analyst, and issues the quote/proposal.
- b) **Cell Site Analyst** – Conducts analysis and RFPS surveys, and supports reporting, unable to provide opinion/expert evidence.
- c) **Senior Cell Site Analyst** – Completes end-to-end cell site work, including analysis, interpretation, and opinion-based expert evidence.
- d) **Principal Analyst** – Leads end-to-end delivery, provides expert opinion-based evidence, manages case complexity, and supports team guidance and escalation.
- e) **Head of Cell Site** – Accountable for the department, end-to-end process development, and quality oversight across all Cell Site work.
- f) **Quality responsibilities (all analysts)** – All analysts contribute to quality controls and defensibility, with oversight retained by the Head of Cell Site.

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