

G-Cloud 15 Service Definition Document

Paliscope EXPLORE

Crown
Commercial
Service
Supplier

Software / Platform Paliscope Explore

1. Overview of Platform

Paliscope Explore, an offline, on-premise AI powered investigative platform designed specifically for law enforcement, national security, and intelligence organisations that require secure, air gapped analytical capability. The platform consolidates structured and unstructured data from multiple internal and external sources, indexes the data for unified search, and provides advanced AI driven recognition technologies including face, voice, image, scene, and language analysis.

Explore has been designed for **high security environments, offline processing, rapid analysis of large volumes of digital evidence**, and the ability to extract intelligence from diverse sources including mobile extractions, social media returns, communications data, and multimedia evidence.

2. Platform Features and Specifications

2.1 Core Features

a) Unified Multimodal Search

The platform provides:

- **Text search** (keyword, Boolean, semantic, and regex)
- **Face recognition search**
- **Image similarity search**
- **Voice search** (speech-to-text, translation + voice identification)
- **Object and scene search**
- **Across multiple data types in one view**

This allows investigators to explore vast datasets without switching tools, reducing time to intelligence.

b) Data Ingestion & Indexing

The platform supports ingestion of:

- UFED, XRY, and other mobile forensic outputs
- Social-media returns (Facebook, Telegram, Snapchat, forums)
- Emails, server logs, chat exports
- CSV, Excel spreadsheets
- Video, audio, images, documents, PDFs

All data is indexed into a unified, searchable intelligence layer formatted for investigative workflows.

c) Advanced Visualisation Tools

Explore provides multiple visual analysis environments:

- **Link charts** (entities, relationships, communications patterns)
- **Timelines** (events, communications, locations)
- **Geospatial maps** (GPS traces, metadata, extracted locations)
- **Conversation navigation** for large threaded chat histories

d) AI Recognition Technologies

Delivered via built-in models and offline partner modules:

- Face Recognition
- Voice Recognition
- Speech-to-Text & Conversation Reconstruction
- License Plate Recognition (ANPR)
- Image/Object Recognition
- Scene Classification
- Natural Language Processing (entity extraction, topic detection)
- Offline Translation (multiple languages)

e) Secure, Offline, On-Premise Deployment

- Air-gapped operation supported
- No cloud dependencies
- Full data sovereignty
- Local model execution
- Comprehensive audit logging

f) Modular Partner Ecosystem (Optional)

Offline:

- **RigrAI** – secure document summarisation
- **Dechefr** – risk assessment of written content
- **Conversy** – speech recognition & voice identification
- **DejaVuAI** – pattern matching in images & video
- **Dubongo** – high-accuracy ANPR

Online (optional, disabled by default):

- Image geolocation, OSINT enrichment, Darknet intelligence queries, and Project Arachnid (LE-only).

3. Licensing Model

3.1 Licensing Structure

A per-machine + per-named-user model:

1. Platform Licence

- Includes ingestion engine, indexing system, core search functionality, case management, and visualisation features.
- Supports unlimited data volumes (subject to infrastructure sizing).

2. Named User Investigator/Analyst Licences

- Enables active investigative use of the platform.
- Allows multiple analysts to work jointly.
- 3. **AI Recognition Modules (Add-On Licences)** Modules such as facial recognition, voice recognition, ANPR, translation, NLP, and pattern matching can be:
 - Bundled into a discounted **AI Suite**, or
 - Licensed individually, depending on budget and requirements.
- 4. **Optional Partner Integrations**
 - Offline partners (RigrAI, Dechevr, Conversy, DejaVuAI, Dubongo) offered as either:
 - Per-module licence; or
 - Discounted integrated bundle for full-spectrum offline AI.
 - Online partners licensed only if the Authority enables network access.

3.2 Licensing Principles

- Fully offline operation (no user data leaves the Authority's environment)
- Unlimited ingestion and indexing volume
- Predictable, fixed annual costs
- Ability to scale user numbers over time
- Optional modules added as operational needs evolve
- Licensing model adjustable for surge operations, units, or major case deployments

3.3 Value and Cost Control

- Transparent annual renewal cost
- Multi-year licensing discounts available
- Training and onboarding included in year one
- Support and maintenance included in the licence

4. Service Level, Support & Maintenance Proposal

4.1 Support Model Overview

A UK-based support service supplemented by Paliscope's engineering team.

Standard support includes:

- **Service Desk** (email, portal, telephone)
 - **Incident management** (P1–P4)
 - **Problem management & root-cause analysis**
 - **Knowledge base and documentation**
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- Software patching & security updates
- Quarterly system health checks
- Annual roadmap and capability review

4.2 Example Service Levels (Adjustable to Authority Preference)

Priority	Definition	Response	Workaround/Plan
P1 Critical	System unavailable / major investigation impacted	1 hour	4 hours
P2 High	Major function impaired	4 hours	1 business day
P3 Medium	Partial impairment or minor defect	1 business day	3 business days
P4 Low	Non-urgent queries / enhancements	2 business days	Release planning

4.3 Maintenance and Upgrades

- Major annual release introducing new AI models and features
- Optional upgrade assistance (remote or onsite)

5. Software Functionality That Differentiates the Platform

The following capabilities are particularly beneficial to the LEA environment and represent clear market differentiators.

5.1 Fully Offline AI Ecosystem

Most competing platforms rely on cloud-based AI processing for:

- face recognition
- translation
- NLP
- voice analysis
- image matching

Explore provides **all these capabilities offline**, allowing the LEA complete data control and compliance with security regulations.

5.2 Unified Intelligence Layer (Not Just a Viewer)

Some tools simply "display" imported data, whereas Explore:

- **normalises,**
- **indexes,**
- **extracts entities,**
- **enriches,**
- **deduplicates,** and
- **correlates**

data from multiple formats.

This produces a truly unified intelligence layer—critical for large investigations involving disparate digital sources.

5.3 Deep Partner Ecosystem, All Offline

No competing product offers the same range of specialist LE-focused partner tools fully offline in a single integrated platform:

- speech-to-text + voice recognition
- pattern matching for partial or distorted images
- intelligent threat analysis of text
- advanced ANPR with make/model/colour detection

This provides operational capability well beyond typical indexing or search functions.

5.4 Superior Conversation Navigation for Large Messaging Datasets

Explore has dedicated capabilities for:

- mobile device extractions
- long chat histories (WhatsApp, Telegram, Facebook, SMS)
- nested threads and message metadata
- multilingual chat analysis

This is a frequent pain point for investigators and a proven differentiator over traditional e-discovery tools.

5.5 Visual Analytics Built for Investigation, Not BI

Unlike business-intelligence tools adapted for policing, Explore provides:

- timeline reconstruction
- relationship mapping
- geolocation correlation
- side-by-side entity comparisons
- progression from raw evidence → leads → intelligence product

This aligns directly with LEA investigative workflows.

5.6 Air-Gapped Installation: No External Dependencies

The platform:

- Runs entirely on Authority hardware
- Requires no internet, no cloud, and no external services
- Provides full auditability and chain-of-custody compliance
- Can operate in SCIF-level environments

This is critical for sensitive and classified operations.

5.7 Continuous Value Realisation

Explore captures metrics such as:

- time saved in evidence review
- number of cross-source correlations

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- entities and insights identified
 - percentage of automated vs manual tasks

These allow the Authority to quantify efficiency improvements over the contract duration.

Conclusion

Paliscope Explore, offers a high-security, offline, AI-powered investigative environment aligned exactly to LEA requirements. Its powerful ingestion capabilities, multimodal search, advanced AI modules, visualisation tools, and LE-specific design deliver a comprehensive and future-proof solution.

Our licensing model provides predictable annual costs and flexibility; our support and service model ensures operational resilience; and our differentiating features provide significant investigative advantage over competing solutions.