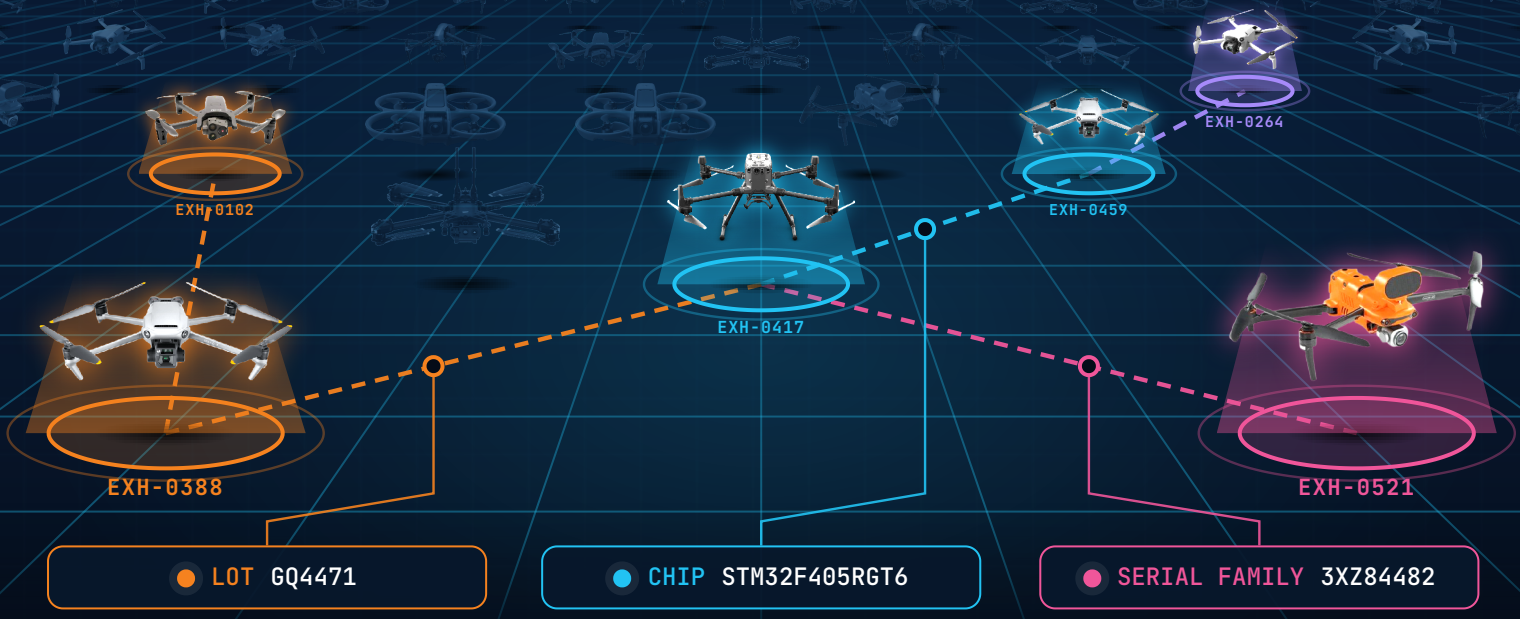
HOBBYTECH
SOLUTIONS PVT. LTD.

SKYNET
TRACELINE

93 RECOVERED DEVICES | 6 LINKED | CASE LINK PROPOSED



Skynet

TRACELINE

EVIDENCE CORRELATION PLATFORM

Skynet TraceLine is an indigenous **evidence correlation platform** for recovered drones and electronics. It reads the chip markings, component lots, serials and identifiers inside every seized device, weighs them against every case on file, and shows investigators which devices came from **the same batch, the same production run, or the same hands**. It runs fully offline, on one secure workstation.

AIR-GAPPED
Offline by default

CHIP-LEVEL
Lot & serial links

ANALYST-LED
No automatic merges

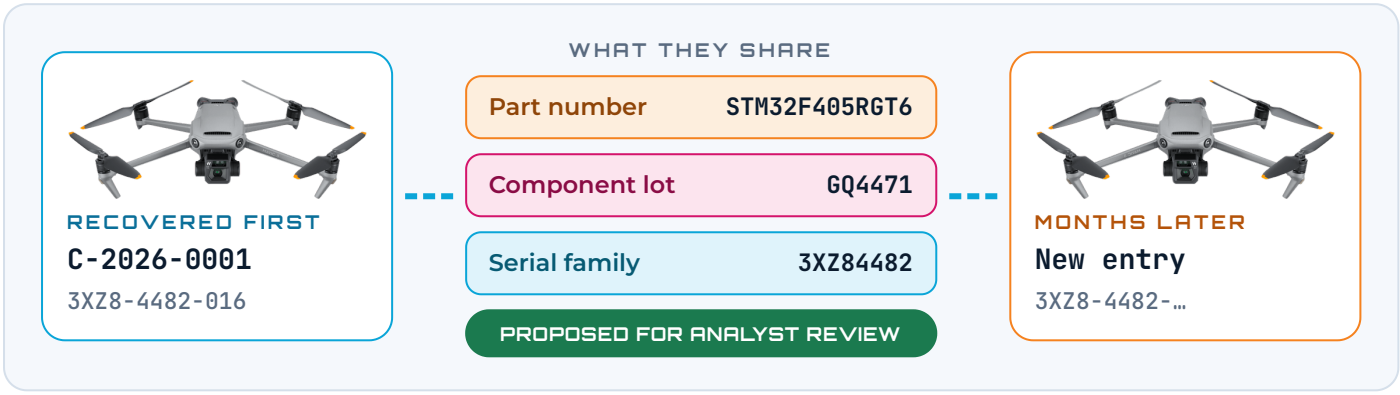
SIGNED
Encrypted & verified

Designed, developed and tested in India · Windows & Ubuntu

www.skynetintel.in

The Problem It Solves

Two drones are recovered months apart by different officers. Both carry an **STM32F405RGT6** from lot **GQ4471**, and their serials differ only in the last three digits. On paper, in two separate files, nobody notices. In TraceLine, the second entry surfaces the first **as you type**, with a score and its reasons.



From Device to Defensible Finding

01 OPERATOR
Book in
Identity, chips, lots, serials and recovered files.

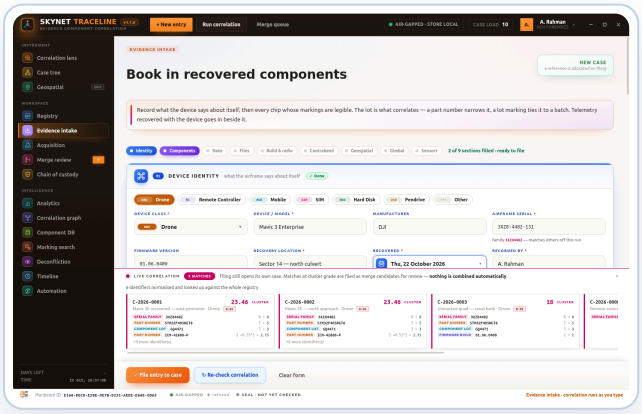
02 AUTOMATIC
Normalise & index
Every marking cleaned up and written to the index.

03 AUTOMATIC
Score
Weighed against every case on file.

04 RULE
Propose
Pairs scoring 3 or more join the merge queue.

05 ANALYST
Decide
Accept, dismiss or reverse, always with a name.

06 OUTPUT
Report
A classification-marked PDF with its arithmetic.



Evidence intake. Matches appear below the form while you type.

DEVICES IT BOOKS IN

Drones · Remote controllers · Mobiles · SIMs · Hard disks · Pendrives · Radios · Cameras

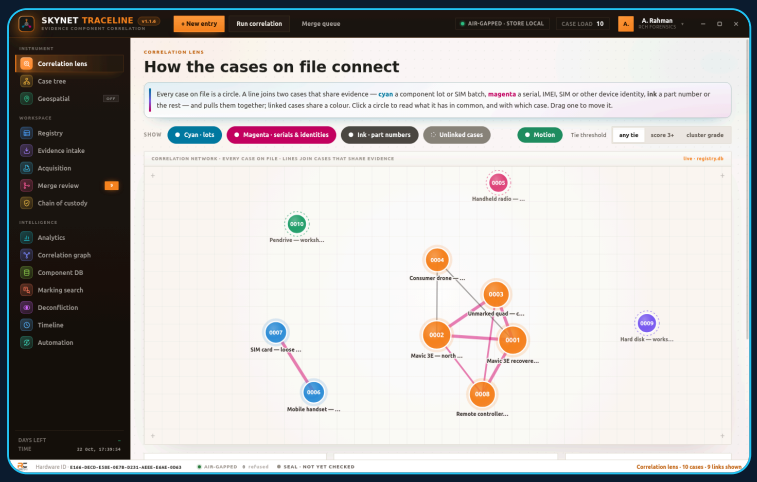
IDENTIFIERS IT CORRELATES

Chip lots · Part numbers · Serials · IMEI · ICCID · IMSI · Phone no. · MAC · WWN · USB VID:PID

Plus flight logs, phone extractions, RF captures, firmware and board photos, each **hashed on arrival**.

Every Angle on the Evidence

Every view reads the same encrypted vault, so a marking booked once is correlated everywhere.



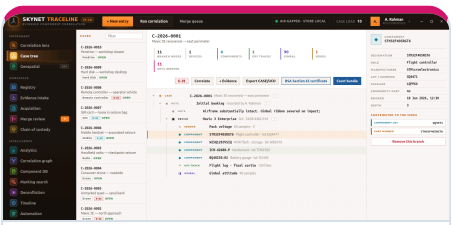
CORRELATION LENS

See how every case on file connects

Each case is a circle. Lines join the cases that share evidence, coloured by why they match:

- Component lots
- Serials & identifiers
- Part numbers

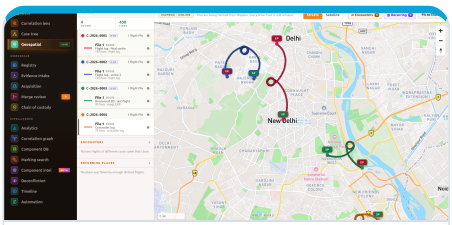
Every link opens its identifiers, weights and discounts.



CASE TREE

Branch by branch

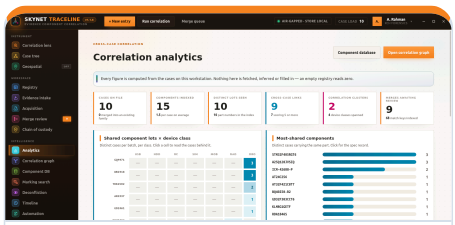
Device, boards, chips and lot, with GPS and sensor series.



GEOSPATIAL

Flight tracks, mapped

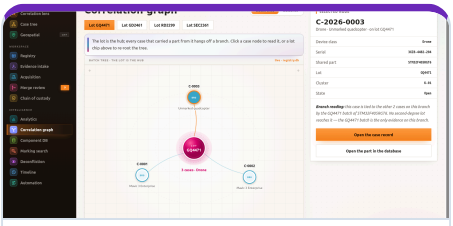
Mapbox when allowed, or your own offline basemap when sealed.



ANALYTICS

Across every case

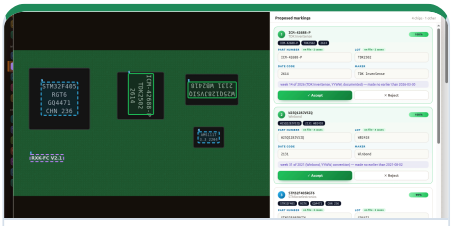
Shared lots by device class, top parts and clusters, computed locally.



CORRELATION GRAPH

The lot is the hub

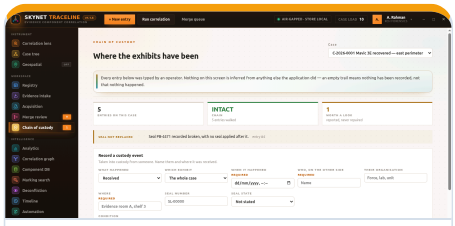
Every case carrying a part from a lot hangs off it.



MARKING READER

Read off a photo

Chip markings proposed offline; an examiner confirms each one.



CHAIN OF CUSTODY

Where it has been

Append-only and hash-chained, verified on every read.

Built for the drones you recover



ALSO INSIDE — Registry · Merge review · Case timeline · Component DB · Deconfliction

Why Teams Choose TraceLine

Recovered drones rarely arrive with a story. TraceLine finds it in the hardware, then **puts every link in front of a person** with the reasoning attached.

THE COMPOUNDING ADVANTAGE

Every device you book makes the next one easier to trace

Each new device is weighed against every case on file, so a link between seizures months apart surfaces on its own.



WHAT CHANGES FOR YOUR UNIT

WITHOUT TRACELINE	WITH TRACELINE
✗ Links depend on who remembers which seizure had which chip.	✓ Every new device is checked against **every case on file**, by the hardware inside it.
✗ The same lot marking typed six different ways never matches.	✓ Markings are **normalised first**, so `gq 4471` and `LOT GQ-4471` meet.
✗ A suspected link is a hunch that is hard to put in writing.	✓ Every finding shows **its arithmetic**, and how often such a score happens by chance.
✗ Evidence sits in shared folders, spreadsheets or a cloud service.	✓ One **encrypted vault** on one offline workstation, bound to the machine.
✗ Merged records are hard to unpick when a link proves wrong.	✓ Nothing merges on its own. **An analyst decides**, and every merge can be reversed.

ONE WORKSTATION, EVERY DESK IN THE UNIT

OPERATOR

Books in the device

Identity, boards, chips, lots and files, in guided steps.

EXAMINER

Confirms markings

Markings read off a photo stay proposals until confirmed.

ANALYST

Decides the links

Accepts, dismisses or later reverses each proposed case link.

UNIT HEAD

Signs off with proof

Marked reports and a tamper-evident record of every action.

Up and Running in Four Steps

01

Live demonstration

Run on devices your own unit has recovered.

02

One workstation

Windows or Ubuntu. No server, no DBA.

03

Learn by doing

The Operational Manual walks the first case through.

04

Stay current offline

Signed updates, online or on a USB stick.

Built for Evidence That Must Stand Up

TraceLine is offline software, and that is **enforced, not asserted**: a default-deny filter refuses outbound traffic at the source, and every refusal is counted in the status bar.

4 network exceptions, each off or closed by default

3 hidden, encrypted replicas of the evidence vault

2 platforms supported: Windows and Ubuntu

1 workstation runs it all: no server, no DBA

0 cases ever merged without an analyst's decision

Air-gapped by default
Outbound requests are refused unless the operator started the action that needs one.

Encrypted, self-healing vault
Encrypted at rest, bound to the machine and passcode. Survives uninstall; rebuilds a lost copy.

Trusted time, tamper lock
The system clock is treated as hostile; a monotonic time ledger stamps every record.

Hash-chained custody
Append-only, one chain per case. Corrections withdraw an entry; nothing is overwritten.

Signed updates, even offline
Ed25519-verified and checksummed. Sealed sites install from USB with a signed receipt.

Reversible merges
Every decision carries a name and the arithmetic behind it, and can be undone.

Hardware-bound licence
Each copy is signed to its workstation, with separate keys for licences and releases.

Findings you can argue with
Classification-marked PDF reports show every score with its weights and discounts.

Specifications & Deployment

OPERATING SYSTEM
Windows 10 or 11 (64-bit) · Ubuntu 20.04 or later, or a Debian-based equivalent (64-bit)

INFRASTRUCTURE
A single desktop workstation. No server and no database administrator.

SCREEN
At least 1040 × 640; 1440 × 900 or larger recommended

NETWORK
None after installation. Online map, updates and Component intel lookups (beta) are optional.

PACKAGES
Windows installer (.exe) · Ubuntu .deb (managed) · AppImage (per user)

UPDATES
Signed releases, installed online or from a USB stick on sealed sites

LICENCE
Hardware-bound to each workstation

DOCUMENTATION
Operational Manual

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TRACELINE

From a recovered device to a **defensible finding**.



OFFLINE BY DEFAULT
Nothing leaves the workstation unless you start the action that needs it.

AN ANALYST DECIDES
The engine proposes; no two cases are ever combined automatically.

AN EXAMINER CONFIRMS
What the machine reads is a proposal until a person confirms it.

EVERY NUMBER EXPLAINED
Each score shows its identifiers, weights and discounts.

BOOK A LIVE DEMONSTRATION ON YOUR OWN EVIDENCE

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Designed, developed and tested in India · Windows · Ubuntu · Offline by default