

AeroMaint

Serialized Component Maintenance-Release Attestation Ledger

SOLUTION

- Immutable component history on DUAL
- Manufacturer serial hash + event signatures
- FAA Part 43 / EASA embedded compliance
- State machine: In_Service → Maintenance → Released
- Cryptographic attestation for overhauls/repairs

REVENUE & UNIT ECON

- \$2–5 per component/year (SaaS)
- \$10–25 per maintenance event
- Y1: \$300K | Y5: \$35M+ ARR
- 75%+ gross margin
- 20x+ LTV/CAC (venture-scale)

MVP (90 DAYS)

- Single component category (landing gear MVP)
- One OEM + 2–3 MROs (90 days)
- FAA Part 43 compliance rules in smart contracts
- Web + mobile UI for component lookup

THE PROBLEM

- 10M+ components globally with no cryptographic verification
- Manual, paper-based maintenance logs → compliance risk
- 30–40 hrs per FAA audit (labor-intensive)
- Component counterfeits undetectable

TARGET BUYERS

- Component OEMs (Cirrus, Meggitt, Goodrich)
- 5,000+ MROs globally (labor cost reduction play)
- FBO chains (standardization + network effects)
- Regulators (FAA/EASA automated audit trails)

GO-TO-MARKET

- OEM Direct (phase 1): Cirrus/Goodrich pilots
- MRO Channel (phase 2): 20+ certified MROs
- FBO Marketplace (phase 3): Regional transparency
- Regulator Integration (phase 4): FAA/EASA automation

TAM: \$5B

Funding: \$500K pre-seed

Team: CEO (MRO ops) + CTO (DUAL) + VP Reg (FAA)

Runway: 18 months

DUAL Edge: Mutable state + cryptographic attestation + embedded compliance