

SkyLog Ecosystem - Strategic Development & Improvement Plan

Executive Summary

This document consolidates the strategic discussions, improvement plans, competitive analysis, and upgrade paths for the SkyLog Ecosystem. It includes core business planning, migration feasibility, competitive positioning, improvement matrices, product roadmaps, and logistics module upgrades, with a focus on consumable vs. non-consumable handling in aviation MRO operations.

Business Planning Core

SkyLog Ecosystem is a multi-tenant aviation maintenance and operations management platform with blockchain-backed compliance recording, designed for EASA Part-145, FAA, ICAO Annexes, IATA IOSA/ISAGO, and GDPR compliance. It targets airlines, MRO providers, and vendors, delivering a secure, scalable, compliance-first architecture with modular deployment and AI capabilities.

Migration Feasibility from Legacy Systems

Migrating from a rooted airline legacy system to SkyLog is feasible through phased adoption:

1. Engage authorities early, present compliance matrix.
2. Build API adapters for legacy systems, enabling dual-run.
3. Pilot on one fleet/base with limited modules (MRO, Quality, Tools, Mobile).
4. Gradual expansion, retiring legacy modules in order of least disruption.

Key Go/No-Go KPIs: 99.5% interface success, zero missing evidence, compliance lockouts enforced, KPI improvement vs. baseline.

Competitive Positioning

SkyLog stands out with immutable compliance via blockchain, PKI dual-signatures, AI-driven audit readiness, predictive maintenance, and vendor segregation. Competitors like AMOS, Ramco, Veryon, Traxxall, and AirNxt excel in UX or integration but lack SkyLog's compliance and security depth.

Competitive Improvement Plan Summary

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1. Veryon: Add role-specific dashboards, mobile-first, guided workflows, blockchain, AI.
2. Traxxall: Pre-configured API connectors, data migration tools, bi-directional sync.
3. AMOS: Modular lightweight deployment, blockchain PKI, real-time compliance scoring.
4. Ramco: Simplified UI, modular licensing, enhanced vendor portals.
5. AirNxt: Regulatory-witnessed pilots, compliance evidence library, vendor isolation.

12-18 Month Product Roadmap Highlights

Q1 2025 - UI/UX: Role dashboards, mobile-first, guided workflows.

Q2 2025 - Integration: Pre-built API connectors, migration toolkit, bi-directional sync.

Q3 2025 - Compliance/Security: Blockchain PKI, compliance scoring, vendor portal upgrades.

Q4 2025 - Market Trust: Witnessed pilots, compliance evidence library, vendor isolation.

Q1 2026 - AI: Predictive parts demand, audit readiness AI, delay simulation.

Future Strategic Improvements

Deep regulatory integration, advanced operational analytics, expanded vendor ecosystem, and next-level AI/automation to future-proof SkyLog for 2-5 year growth.

Logistics Ordering Module Upgrade Plan

Consumables:

- Predictive reorder based on usage and shelf life.
- FEFO/FIFO tracking.
- Automated WO-to-PO with vendor suggestions.
- Batch receiving with expiry logging.

Non-Consumables:

- Reorder/repair triggered by calibration expiry or inspection.
- Full serialisation and cert tracking.

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- WO-to-RO/PO workflows.
- QA checks and compliance locks before release.

Both: Multi-location visibility, vendor performance dashboards, API/EDI ordering, RFQ workflows.