

Kallik Platform Modernisation | Technology & Partnership Briefing

A Platform Built for Regulated Excellence

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*How Our Platform Modernisation Protects,
Accelerates, and Future-Proofs Your Business*

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Executive Summary

We are investing and executing an important transformation of our Kallik Veraciti platform not for the sake of technology, but to deliver the reliability, security, and scalability that regulated and CPG businesses like yours demand. This document explains what we are doing and, more importantly, what it means for you.

Arjun Khanna,
Chief Technology Officer
Kallik



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1. Unmatched Reliability: Your Operations, Always On

For regulated companies, unplanned downtime is never just an inconvenience. It threatens production timelines, audit readiness, and compliance commitments. Our modernisation programme is engineered to make that risk a thing of the past.

- **No More Maintenance Windows:** We are eliminating traditional 3–4 hour maintenance windows through Blue-Green deployment strategies. Releases happen seamlessly in the background — your teams notice nothing but improvements.
- **Resilience That Scales With You:** Our move to Kubernetes (AWS EKS) and AWS Lambda means the platform scales dynamically under any load. If one area experiences a spike, it responds independently without affecting your wider workflows.
- **Faster Recovery, Every Time:** Critical components such as the Repository Manager now run on AWS EFS with multi-availability-zone resilience. Recovery time objectives have been reduced from hours to minutes, protecting your uptime and your data.

What This Means for You

Your artwork and asset management workflows run on a platform designed for zero interruption — whether it is a scheduled release, unexpected demand, or a rare infrastructure event.

Gurdip Singh,
CEO, Kallik



2. Accelerated Innovation: New Capabilities, Faster

By decomposing the platform into focused microservices — including dedicated Approval, Asset, and Project services — our engineering teams gain the ability to move faster without introducing risk to your live environment.

- **Faster Feature Delivery:** Individual modules such as the Phrase Manager and Asset Manager can be developed, tested, and deployed independently. New capabilities reach you sooner, without waiting for a full-platform release cycle.
- **Lower Risk of Regression:** Modern 'Strangler Fig' migration patterns allow us to introduce new functionality alongside existing processes, retiring legacy components safely and incrementally. Your workflows are never disrupted during evolution.

What This Means for You

You benefit from a faster pace of innovation and a partner that can respond quickly to your evolving regulatory and operational requirements.

Gurdip Singh,
CEO, Kallik



3. A Future-Proof Foundation: No Technology Debt

Regulated industries require a technology partner that stays ahead of the curve. Our core stack upgrades ensure you are never exposed to the risk of ‘technical bankruptcy’ — where ageing infrastructure limits your ability to grow, integrate, or comply.

Component	Upgrade	Client Benefit
Runtime	Java 21 (LTS)	Enhanced security, performance & modern library support
App Server	Tomcat 10.x (Embedded)	Lightweight, cloud-native and easier to manage
UI Framework	Angular 17+ (SPA)	Modern, responsive and accessible user experience
Database ORM	Hibernate 7.2.4	Improved data integrity and faster queries

What This Means for You

Your investment is protected on a modern, long-term supported technology stack — ensuring compatibility, performance, and vendor support for years to come.

Gurdip Singh,
CEO, Kallik



4. Enterprise-Grade Security and Compliance

In a regulated environment, your technology vendor is part of your compliance posture. We are raising the bar across every layer of the platform.

- **Continuous Vulnerability Management:** Automated quality gates via SonarQube scan every release before it reaches production, catching security issues proactively rather than reactively.
- **Modern Security Standards:** Adoption of Spring Security and the Jakarta EE 10 namespace ensures protection against the latest known cyber threats, aligned with industry best practice.
- **Intellectual Property Protection:** We are implementing a Software Bill of Materials (SBOM) with formal dependency governance, ensuring no high-risk or copyleft open-source licences threaten your IP or compliance obligations.

What This Means for You

A vendor whose security practices are as rigorous as your own — protecting your data, your brand, and your regulatory standing.

Gurdip Singh,
CEO, Kallik



5. Scalability for Global Operations

Regulated product companies operate at scale — across geographies, data volumes, and integrated systems. Our target architecture is built to support your ambitions without compromise.

- **Separated Workloads, Protected Performance:** Transactional and analytical workloads are now decoupled, ensuring that reporting activity never slows down your live artwork approvals or production workflows.
- **Global Content Delivery:** UI assets are delivered via Amazon CloudFront, providing low-latency access for your teams wherever they are located — whether in London, New York, or Singapore.
- **Seamless System Integration:** Our new gRPC-based communication layer is significantly faster and more reliable than legacy integration methods, enabling clean, high-performance connections to your ERP, PIM, and DAM systems.

What This Means for You

A platform that grows with your business — supporting more users, more markets, and more complex workflows without performance trade-offs.

Gurdip Singh,
CEO, Kallik



6. Ready for the AI Era: Your Platform as an Intelligent Asset

Artificial intelligence is rapidly becoming central to how regulated and CPG businesses operate — from intelligent document review and automated compliance checking to predictive artwork versioning and AI-assisted labelling. The question is no longer whether AI will play a role in your workflows, but whether your platform is ready to support it.

The architectural decisions we are making today are not just about reliability and performance. They are the precise foundation that modern AI capabilities are built upon. Here is why:

•**Microservices Enable AI Integration Without Risk:** AI capabilities — such as automated content tagging, intelligent approval routing, or anomaly detection in artwork changes — can be introduced as independent services. They connect to your existing workflows without requiring changes to your core system, meaning you can adopt AI incrementally, safely, and at your own pace.

•**Clean, Structured Data is the Fuel for AI:** Our separation of transactional and analytical workloads, combined with modern ORM and data integrity improvements, means your asset and workflow data is clean, well-structured, and readily accessible. Poor data quality is the single biggest barrier to successful AI adoption — we are eliminating that barrier now.

•**API-First Architecture Opens the Door to Any AI Tool:** Our gRPC and modern API layer means the platform can connect natively to leading AI services — whether that is large language models for regulatory content review, computer vision for artwork quality checking, or your own proprietary AI investments. You are never locked out of the tools that matter to your business.

- **Cloud-Native Infrastructure Scales with AI Workloads:** AI processing is computationally intensive and unpredictable in load. Our Kubernetes and AWS Lambda foundation scales elastically to absorb AI workloads on demand — without degrading the performance of your day-to-day operations.
- **Security and Governance Built In from the Start:** AI in regulated industries demands rigorous data governance. Our SBOM, dependency controls, and compliance-first security posture mean that any AI capability we introduce — or that you bring — operates within a governed, auditable framework. You retain full visibility and control.

What This Means for You

You are not just buying a more reliable platform today — you are securing the architectural foundation for AI-powered workflows tomorrow. As AI tools mature and your competitive environment evolves, your platform will be ready to adopt them quickly, safely, and without costly re-engineering.

Gurdip Singh,
CEO, Kallik



Our Commitment to You

This modernisation programme is a direct investment in the longevity and reliability of the service you depend on. Every architectural decision has been made with your operational, compliance, and growth requirements at its centre.

We welcome the opportunity to walk through any aspect of this programme with your team in more detail.

