



OPCITO TECHNOLOGIES

Telco Platform Modernization and Stack Migration

About The Customer

The customer is a leading security-focused organization operating in the telecommunications domain. Their platform delivers secure, identity-driven access to applications, data, and the internet without depending on traditional network boundaries. Their products help enterprises enhance security, improve scalability, and deliver a smoother user experience while optimizing operational costs.

Business Challenge

The customer's ecosystem was heavily reliant on Java, while the acquired platform was built on .NET. This mismatch created friction in integration, elevated maintenance costs, and made skill utilization uneven across teams. The platform also needed to be aligned with strict security and compliance benchmarks. On the functional side, the system demanded higher scalability to effectively manage SIM lifecycle operations, usage tracking, and edge cell deployment across large-scale telecom environments.

How Opcito Helped

Opcito realigned the entire ecosystem through a targeted, multi-stage modernization strategy.

- **Platform re-engineering:** The platform was migrated from .NET to Java Spring Boot, establishing stack uniformity and simplifying long-term maintenance.
- **Modular architecture design:** Components were modularized for onboarding, SIM lifecycle management, usage tracking, MVNO workflows, and edge cell orchestration, improving scalability and maintainability.
- **UI modernization:** Developed a responsive, intuitive interface for self-service workflows and operational visibility, enhancing usability for internal teams.
- **Edge cell control plane:** Built a dedicated control plane to manage and orchestrate edge cell deployments, ensuring optimized performance and resource distribution.
- **MVNO enablement:** Expanded APIs and mediation layers to support onboarding, contract management, and shared SIM provisioning workflows.
- **CI/CD and automation:** Implemented Jenkins and GitOps pipelines for automated testing, streamlined deployments, and faster release cycles.



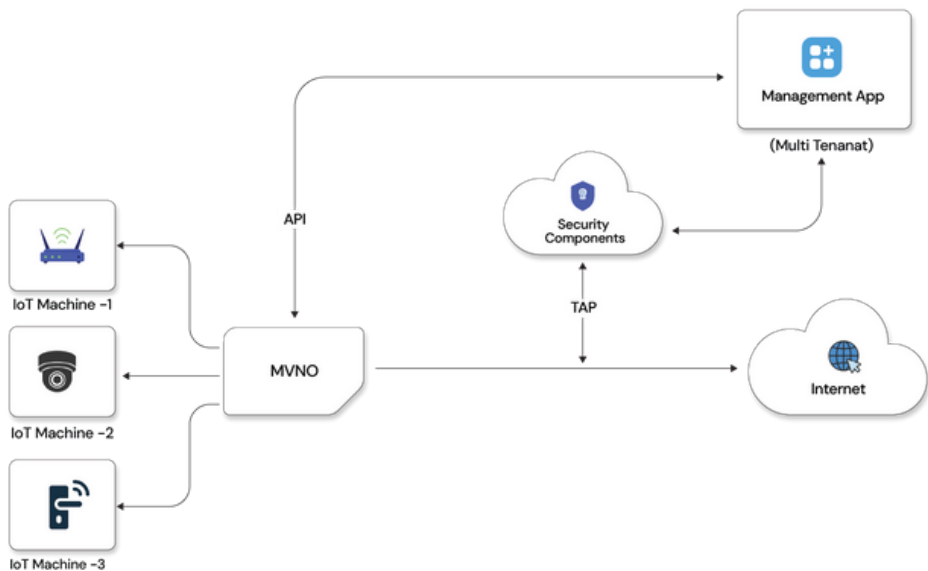
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How Opcito Helped

- **Monitoring and logging:** Integrated Prometheus and Grafana for proactive performance insights, combined with centralized logging for faster troubleshooting.
- **Data migration strategy:** Executed a phased SIM and customer data migration to ensure accuracy, completeness, and zero downtime.



Technologies, Tools, and Platforms used

JAVA

SPRING BOOT

REACT

PYTHON

PLAYWRIGHT

Benefits

ECOSYSTEM ALIGNMENT	Standardizing on Java and Spring Boot improved integration, reduced maintenance overhead, and ensured stack consistency
ENHANCED SECURITY	Unified frameworks, centralized controls, and compliance alignment strengthened the platform's security posture
IMPROVED USER EXPERIENCE	Modernized UI and responsive design enabled faster, smoother workflows for end-users
OPERATIONAL SCALABILITY	Modular architecture and automated pipelines allowed better handling of SIM operations, usage tracking, and edge cell deployment
PROACTIVE MANAGEMENT	Integrated monitoring and logging ensured early issue detection, faster troubleshooting, and higher system reliability

About Opcito

At Opcito, we believe in designing transformational solutions for our customers, start-ups, and enterprises, with our ability to unify quality, reliability, and cost-effectiveness at any scale. Our core work culture focuses on adding material value to your products by leveraging best practices in DevOps, like continuous integration, continuous delivery, and automation, coupled with disruptive technologies like containers, serverless computing, and microservice-based architectures. We also believe in high standards for quality with a zero-bug policy and zero downtime deployment approach.



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