



NUCLEUS CASE STUDY

Tier 1 Airline Slashes Critical Vulnerabilities by 86% With Nucleus

1 Customer Overview

Overview

Customer: Tier 1 Airline

Location: Global

Solution

The Nucleus Security Platform

Business Impact

- **86% reduction** in critical vulnerabilities across the enterprise
- **1,800+ active users** across Security, IT, Dev, and executive leadership
- **Streamlined top-down risk reporting** across teams and regions

In Their Words

“We’re finally able to track how long critical issues stay open across the enterprise, and make sure every asset is accounted for in each product team’s scope. Thanks to Nucleus, we see and fix misconfigurations before they become real problems.”

– Vulnerability Management Lead, Tier 1 Airline

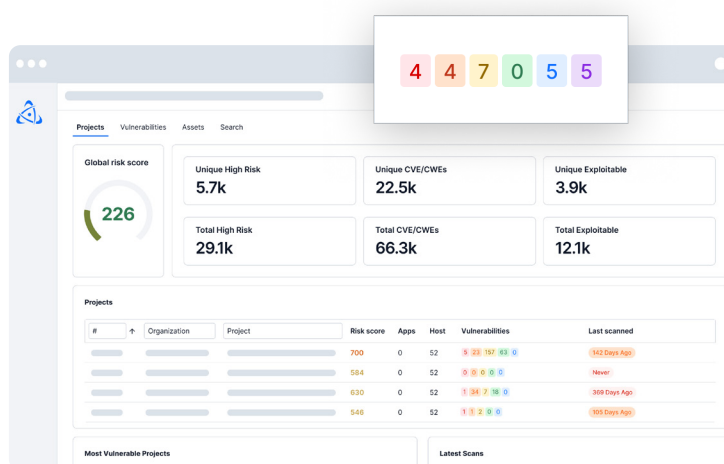
About the Customer

This Tier 1 Airline is one of the largest global carriers, operating across hundreds of destinations with complex, highly regulated IT infrastructure. Their cybersecurity strategy emphasizes risk-based prioritization, complete asset coverage, and full transparency across product teams, compliance, and executive stakeholders.

“We just needed to fix the most important vulnerabilities—and show leadership that we were actually doing it.”

The Challenge: Fixing What Matters First and Proving Efficacy

Before Nucleus, the airline struggled to manage and report on vulnerability risk across thousands of assets and hundreds of teams. Critical issues often lingered without visibility, and teams lacked clarity around ownership and scope. Asset coverage was incomplete, compliance failures went undetected, and inconsistent reporting made it difficult to hold teams accountable or show progress to leadership.



2 Nucleus Solution

The Solution: Nucleus Security Platform

The airline selected Nucleus as the system of record for vulnerability and exposure management consolidating data from over 160 tools across vulnerability scanning, asset inventory, CI/CD pipelines, and threat intelligence.

Unified, Normalized, Deduplicated

Unified vulnerability data from all scanners and tools into one platform eliminating manual consolidation and enabling real-time insight into total organizational risk.

Flexible Reporting Engine

Delivered 750+ scheduled reports to 100s of stakeholders, with role-based dashboards and filters for risk, asset groups, and remediation SLAs.

Risk-Based Prioritization

Combined vulnerability intelligence with business-specific context to score and prioritize what truly matters.

Automation at Scale

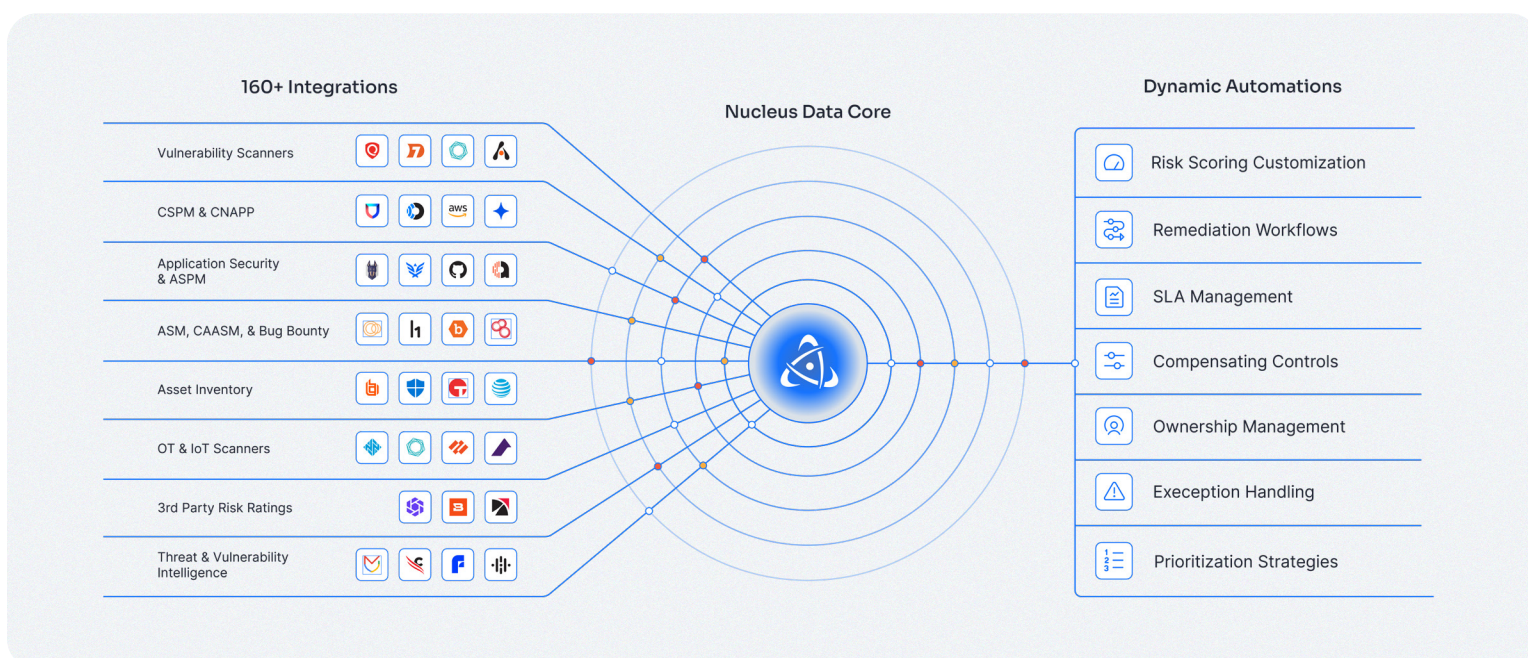
Replaced manual ownership and triage with dynamic workflows spanning teams, products, and environments.

Developer APIs

Enabled product teams to build custom dashboards and trigger remediation tickets via API, putting actionable risk data directly into their workflows.

Seamless Ticketing Integration

Automated ticket creation and remediation actions directly in Jira and ServiceNow.



3 Business Outcomes

Business Outcomes: Driving Enterprise-Wide Accountability and Remediation

Nucleus enabled this Tier 1 Airline to evolve from siloed, scanner-centric processes into a coordinated, risk-informed vulnerability program spanning security, engineering, compliance, and the CISO suite.

- **Accelerated Risk Reduction:** 86% drop in critical vulnerabilities within six months.
- **Enterprise Adoption:** Over 1,800 active users, from the CISO and security leaders to remediation teams.
- **Improved Accountability:** Product teams now own risk with scoped views and automated ticketing.
- **Stronger Reporting:** Leadership receives top-down KPIs across regions, teams, and asset types.
- **Operational Efficiency:** API-driven ticketing and dashboards enable decentralized, self-service workflows.

“The API-driven dashboards have been a game-changer. Teams can see what matters, take action, and close the loop—all without waiting on central reporting.”





Nucleus transforms vulnerability and exposure management for enterprises and government agencies by unifying data, automating workflows, and enabling faster, scalable risk mitigation. Founded in 2019 by former Department of Defense security experts, Nucleus is trusted by over 500 organizations, including Motorola, Paychex, and Mastercard. Our platform is designed by practitioners, for practitioners, to simplify complex vulnerability management processes and deliver measurable impact.



CBRE



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Version 1.0 | Published May 2025

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