

Transforming Business Intelligence into Maritime Decision Dominance and Real-Time Mission Readiness

The Need for Modern Business Intelligence Systems

The United States Coast Guard plays a unique and vital role in national security, overseeing nearly 95,000 miles of U.S. coastline. Its mission spans maritime safety, drug interdiction, environmental protection, search and rescue, and more all generating massive amounts of data from people, platforms, sensors, logistics, and intelligence operations that feed into its Business Intelligence (BI) environment.

In today's rapidly evolving threat landscape, with tightening resources, BI is no longer a back-office IT luxury, it is mission-critical. Agencies must move beyond static reporting, aging legacy systems, and isolated data silos. They need secure, scalable, and flexible BI and analytics platforms that deliver real-time situational awareness and empower decision-makers.

Data in Silos, Decisions in Slow Motion

The Coast Guard operates dozens of mission-critical information systems collecting real-time, near-real-time, and historical data. Yet much of this data sat in isolated environments, spread across on-premises and cloud systems with limited interoperability. Extracting insights often required slow, manual SQL queries or rigid, report-based tools, creating delays, driving up maintenance costs, and limiting agility. When mission conditions shifted, leadership lacked the infrastructure and speed to pivot quickly.

Aligning Analytics with Mission Realities

To solve these challenges, the Coast Guard partnered with Swish to modernize its BI environment and leverage Qlik's industry-leading data integration and analytics solutions. Together, they focused on three key priorities: Governance, Scale, Flexibility



BI Modernization Priorities

- ▶ **Governance:** Implementing strict access controls, metadata standards, cataloging, and audit logs to protect sensitive mission data and ensure compliance with federal security standards.
- ▶ **Scale:** Enabling ingestion and processing of terabytes of data across growing datasets to support interactive analytics and AI-driven insights.
- ▶ **Flexibility:** Creating dashboards and visualizations that can rapidly adapt to shifting mission priorities, evolving threats, and changing geographies.



Pairing Swish's Engineering Excellence with Qlik's Leading Data Integration Solutions

Swish deployed **Qlik Replicate** to integrate previously siloed datasets into a secure, centralized data lake. Using **Qlik Talend**, data was cleansed, tagged, and cataloged with metadata-level lineage and traceability. Working alongside Coast Guard data scientists, Swish developed interactive **Qlik Sense** dashboards that provide real-time views into interdiction operations, vessel monitoring, logistics health, and workforce readiness.

From Static Reports to Actionable Insights

The results have been transformative. More than 1,000 legacy reports were consolidated into a smaller set of dynamic applications, allowing users to explore data across domains, filter information on the fly, and drill into geospatial, temporal, and operational context. Queries that once took hours now resolve in seconds, reducing decision latency. Maintenance costs have dropped, and compute and storage resources are now optimized.

For example, the Drug Intercept and Interdiction dashboard now surfaces real-time seizure statistics, contraband types, and location data, intelligence that once required painstaking manual correlation across disconnected reports.

Real-Time Readiness for Every Mission

The Coast Guard's BI modernization demonstrates what's possible for any government agency facing growing data volume, siloed systems, and rapidly changing mission requirements. Whether the mission is homeland security, environmental protection, public health, or infrastructure resilience, integrated, governed, scalable, and flexible BI is essential.

With Swish and Qlik's secure, scalable platforms, backed by deep technical and mission expertise, agencies can shift from reactive to proactive, from delayed decision-making to real-time readiness.



Swish is a provider of technology solutions and engineering services to the U.S. Federal Government with a focus on high-quality outcomes for customers. Since 2006, Swish has delivered high-performance solutions and services to the Federal Government market ensuring that customer's digital service capabilities, performance, and security exceed expectations and requirements. Swish is a Service-Disabled, Veteran-Owned and HUBZone certified Small Business.

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Qlik empowers organizations to turn complex data into actionable insights. With advanced AI/ML, robust data integration, and real-time analytics, Qlik helps over 40,000 customers uncover hidden patterns, make smarter decisions, and drive strategic outcomes. Our platform-agnostic solutions ensure flexibility, governance, and scalability—making businesses more competitive in a data-driven world.

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