Peraton

ANALYTICS AND DATA PLATFORMS

Fast-Track Modern Analytics Capabilities

The ability to access the right data fundamentally alters the approach to business problems. Modern data tools and analytics platforms enable organizations to rapidly leverage data to drive insight and decisions. The landscape of analytic products and services is crowded and complex. Every day, there are new technologies new approaches and technologies—from data mesh to automated machine learning platforms, and high performance data stores—to self-service visual analytic tools to choose from.

When selecting the right set of technologies to meet their business/mission objectives, organizations face challenges including:

- Turn-key solutions that may not be flexible enough to address current and future requirements

- Disparate tools that require time consuming integration and expertise that may not be available

- New tools that must be integrated into the ecosystem while addressing new data requirements and the unification of existing tools and platform investments

OUR SOLUTION

Peraton provides expertise and experience to accelerate the implementation of analytics platforms to meet the needs of the organization today and deliver flexibility for future. We design, build, and implement scalable, advanced data platforms that fast-track deployments of new technology and analytic applications using modern data architectures with right-sized solutions and deployments across cloud and tailored onsite solutions. We incorporate new data tools into existing architecture by planning executable roadmaps. Peraton provides a dynamic data management framework using DevSecOps, DataOps and MLOps for rapid, secure and reliable deployment. Our solutions maximize return and minimize time, cost and risk to provide direct benefits which include We look for solutions to maximize return and minimize time, cost, and risk.

Our Analytic and Data Platform Services provide direct benefits which include:

- Planning a data architecture that rapidly integrates new sources, implements transformational architectures, and provides detailed insight on advanced technologies dealing with big data—structured and unstructured

- Providing an approach that considers all aspects of hardware, software, business practices, governance, workflows, and analytic methodology

- Accessing and making sense of the right information at the right time to deliver superior business outcomes, enabling greater predictive capabilities for driving strategies and decisions

- Reducing implementation risks and costs while shortening production deployment time

- Supporting all key DevSecOps, DataOps, MLOps and Cloud Data Management Capabilities (TM CDMC) framework requirements to ensure a secure, governed, and well-managed foundation data ecosystem

Analytics and Data Platform Architecture

We provide analytics and data platform architecture services to assist in designing, building, and implementing integrated data platforms. We bring best practices in analytic applications and data workload optimization to address your analytic requirements.

Our data and analytics experts are skilled in modern analytic architectures and armed with Peraton's analytic framework accelerators to integrate proven technologies into your data ecosystem.

By assessing unique challenges, we determine the best approaches for mapping existing and new data workloads to enhance mission value and rapidly adapt to changing business priorities whether centralized or at the edge. Our experience extends to distributed We simplify the implementation process and enable a rapid path to start with what matters most.

AIRES—Peraton's Integrated Streaming Analytics Platform

Peraton's AIRES is a modern streaming analytic platform with pre-integrated best of breed components, commercial off-the-shelf (COTS) and open source, that drives flexibility and scalability. AIRES addresses the need to rapidly integrate, correlate, condition, and leverage data from multiple sources within an ecosystem while naturally accommodating growth and change.

Our solution offers a unified architecture that is open, modular, and microservices-based. This flexible architecture allows an organization's analytic ecosystem to evolve within an agile process, delivering frequent improvements that reduce the time to gather requirements and the costs of getting a project off the ground. We provide full-service enablement with accelerators for deployment, testing, and integration in the cloud, on-premise, or in hybrid environments so massive amounts of diverse data types can be easily managed with low initial cost, reduced risk, and flexible scale-up capability.

Cyber Analytics Solutions

Our leading-edge cyber analytics solutions deliver a modernized and automated cloud infrastructure for real-time cyber operations, allowing incident response to move at the speed of the adversary.

We've built a scalable cyber ecosystem that pushes real-time incident response to the edge, performs contextual threat analysis, and automates cyber defense actions with artificial intelligence (AI) and machine learning (ML) to anticipate and detect unknown threats and enhance network visibility, with insight for real-time situational awareness.

ThreatBoard— Peraton's Direct Data Ingest, Enrichment, and Threat Management Platform

ThreatBoard is Peraton's direct data ingest, enrichment, and threat management platform—made possible by our unique approach to the use of a data fabric architecture. The ability of this approach enables consumption of all relevant security event data within an organization to consolidate data, which typically requires multiple tools and platforms.

ThreatBoard enables analysts to add value during the investigation stage by applying natural language processing (NLP) and correlation technology automatically to identify threat indicators that capture all the information needed to respond to unknown events.

HealthConcourse—Peraton's Digital Health Platform

Peraton's digital health platform, HealthConcourse, emphasizes data interoperability. HealthConcourse is a standards-based, open-technology-driven platform that was built to connect healthcare data producers, consumers, services, and storage in a highly scalable, cloud-agnostic infrastructure. Data across healthcare systems does not consistently conform to industry data model, data exchange, and medical terminology standards. To address these challenges, HealthConcourse hides the complexities of the underlying data architecture and seamlessly aggregates fragmented data, normalizing and enriching it so the information can be visualized and used in patient diagnostics.

BENEFITS

- Implement a scalable, modern analytics platform to ingest, integrate, and explore your structured, unstructured, batch, and streaming data—enabling AI/ML for your organization

- Build a data mesh to gain access to actionable data across the ecosystem

- Modernize existing data infrastructure through flexible deployment models—cloud, multicloud, on-premise, and hybrid

OUR APPROACH

We focus on helping our customers bring analytics tools together into a platform that enables rapid delivery of value while aligning with the needs and objectives of the organization. We leverage existing infrastructure, augmenting capabilities while avoiding the cost and time of rebuilding components that already work. We provide:

- Expertise in designing and implementing some of the largest data platforms in government

- Secure, streamlined entry to the public cloud with proven methods and enterprise integration blueprints

- Advanced data platforms based on benchmarked data patterns and our engineering expertise

- Flexible and agile delivery of analytic tools and platforms at enterprise scale

- Open system architecture that allows for frequent incorporation of technology advancement through integration

- Continuous integration using a structured delivery pipeline and development methodology based on agile sprints and a proven combination of commercial and open source tools

Together, with our partners, we are a powerhouse for leveraging data as an asset to drive mission outcomes. The Peraton partner network includes our strategic alliances with partners that bring together expertise in data strategy, analytics, and platforms to consulting, business consulting, and technology consulting to guide you on your data-driven journey. Some of these partners include AWS, Microsoft, Google, Databricks, Dataiku, Snowflake, Neo4J, NetApp, Scaled Agile, and others.

CONTACT US

We deliver industry-leading, end-to-end data integration, security, management, and analytic support for health, civilian, state, defense, and intelligence customers.

Scan the to learn more at peraton.com/capabilities/all/#digital

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