

Turning Fitness into Operational Readiness

Optimizing Guardian Fitness

BAE Systems delivers secure, scalable, and interoperable architectures that are sensor and platform-agnostic, ensuring flexibility as new wearable technologies emerge. Leveraging our expertise in government cloud environments and human performance integration, we provide secure web and mobile applications that transform portable wearable fitness device (PWFD) data into actionable insights on cardiorespiratory fitness, muscular strength, and overall performance. Our approach safeguards sensitive data, enables adaptive metrics, and aligns with the U.S. Space Force's Holistic Health Approach (HHA) to enhance Guardian resiliency and readiness.



BAE Systems integrates government cloud architecture with human performance data to deliver secure, user-focused web and mobile applications. Hosted in IL-5 with IL-2 edge access, our solution provides real-time insights while safeguarding sensitive information.

Artist representation of a PWFD tracking cardiorespiratory fitness, muscular strength, and overall human performance captured directly from Guardian wearables for secure upload.

BAE SYSTEMS

Overview

The U.S. Space Force's Holistic Health Approach (HHA) emphasizes continuous, data-driven insights into Guardian readiness. Achieving this vision requires mobile and web solutions that are secure, scalable, and interoperable, while remaining flexible to integrate emerging wearable and monitoring technologies.



Represents USSF commanders reviewing real-time results from wearable monitoring technologies

Our Role

BAE Systems applies its proven expertise in physiological monitoring, open architectures, and system integration to meet this challenge. Our team has delivered government-owned, cyber-hardened solutions across USAF and USSF programs, including programs like AFRL's BATDOK® that demonstrate how user-centered, secure design can scale from research to operational adoption.

Building on this foundation, we leverage our direct experience developing and sustaining capabilities within hardened IL-5 GovCloud environments. This ensures our solutions are not only compliant and secure, but also scalable, government-owned, and adaptable to future mission demands.

BAE Systems Integrated Human Performance Benefits

- **Trusted Security & Compliance** – End-to-end encryption and IL-5 GovCloud hosting safeguard sensitive health data, fully aligned with DoD security and FedRAMP Moderate standards
- **Seamless Ecosystem** – Securely integrates Guardian-preferred wearables, mobile apps, and dashboards into a cohesive, user-friendly environment
- **Personalized Guardian Insights** – Delivers real-time fitness metrics to support individual readiness and performance growth
- **Command Readiness View** – Gives leaders a clear picture of unit fitness trends to guide training and readiness decisions
- **Built for the Future** – Flexible and adaptable to onboard new device and technologies as they emerge
- **Real-Time Feedback and Alerts:** Provides actionable insights through user-friendly dashboards and enables threshold-based alerts to optimize Guardian health and readiness



U.S. Air Force photo/Airman 1st Class Jose Miguel T. Tamondong