



About ARKA

ARKA is a fully integrated mission partner providing world-leading technologies and services with an unrivaled reputation for excellence. ARKA's advanced capabilities address the needs of the warfighter, including world-class optical technologies, ground processing and analytics, and next-generation space solutions.

ARKA's Space & Defense team brings a long history of innovation and development to the missions of today. Their leadership in optical systems and sensors is unmatched, with cutting-edge manufacturing and advanced processes building next-generation hardware. Their Defense business is recognized as the finest in laser warning capabilities by the U.S. Army.

ARKA's Advanced Communications & Mission Applications team has the capabilities to move, manage, exploit, and analyze data. Their modern software factory is at the cutting edge of application development, leveraging AI, predictive analytics, and radar and sensor technologies in missions like space domain awareness, object detection, and orchestration. The team provides leading technology to capture, understand, and characterize data for national security, civil, and commercial missions with state-of-the-art modems, software-defined radios, and turnkey test equipment compatible with any IT environment.

The Challenge

The ARKA team faced the following challenges in their manufacturing and test facility:

- Physical paperwork was inefficient for recording results and data and cumbersome to properly track, store, and archive.
- The team was unable to search production run data, test results, notes, and photos all in one system efficiently.
- Management was unable to efficiently pull valuable production metrics for nonconformances, throughput, and for identifying trouble spots.
- Physical paperwork was inefficient for recording lessons learned between various production runs.

The Solution



ARKA leverages Epsilon3 to digitize procedure authoring and execution within one software package, avoiding the need to print and manage paper-based Microsoft Word documents for manufacturing and test execution. Using Epsilon3 greatly enhances visibility into production runs through the engineering, operations, and management functions, making team handoffs

simple with real-time updates and syncing. Epsilon3 also makes it simple to record searchable notes and data during a build or test, allowing the team to stay on the same page throughout a build and test campaign.

Epsilon3 is the top-rated solution for planning, tracking, and analyzing high-stakes operations. Innovative teams like ARKA use their web-based software to streamline complex procedures, from manufacturing and testing advanced hardware systems to launching and monitoring spacecraft. Epsilon3 was purpose-built by government and industry engineering leaders with experience supporting over 100 space missions.

The Epsilon3 platform can be hosted on-premise or AWS GovCloud to optimize reliability and maintain ITAR, NIST, and SOC2 compliance to ensure government-grade cybersecurity. Organizations in highly regulated industries like aerospace, robotics, energy, and life sciences trust Epsilon3 to manage complex resources and processes across the entire program lifecycle.

The Result

In summary, ARKA observed the following benefits from Epsilon3:

- With over 600,000 sq. ft. of building space, the Epsilon3 software solution eliminated the potential for a misplaced paper build record by automatically saving data and run traceability when executing a build or test. When a procedure ends, the automated archiving and ability to audit a build significantly reduces the time spent sorting and storing paper records.
- Epsilon3 enhanced the redlining process and incorporated lessons learned into new document revisions by combining the authoring and execution solutions into one platform. This provides a new path to climb the learning curve more quickly when transitioning from development to production.
- Epsilon3 opened the ability to capture build and test metrics through nonconformance and run-time data.

Interested in exploring Epsilon3?

[Click here](#) to schedule a product demonstration.