

Safety Management System (SMS)



Industry Challenge

The daily operations of an air carrier are complex, with many different types of data and information having an impact on safety. The challenge of bringing all this disparate information together and organizing it to help accomplish safety goals and objectives requires a very unique mix of expertise and experience.

It requires the integration and aggregation of data and information horizontally and vertically from across many systems. Significant challenges of data ownership and technical obstacles to data sharing must be considered and accounted.

Even with the data and information brought together, interfaces and visual tools are needed that will convey critical insight to managers and executives. Intuitive indicators are needed that can effectively provide management timely and consistent knowledge of the general carrier state and where action or attention is needed.

The Solution

The Millennium SMS offering meets this critical air carrier safety challenge—with ease of near term implementation and the scalability to meet the carrier’s evolving needs over time. The SMS integrates and aggregates data and information from across and within air carrier systems to provide command and control interfaces that provide knowledge and insight for management and decision-making.

Managers and Executives can customize views of data and information ranging from spatial visualizations, to data organized by organizational structure, to viewing data based on operational models. Sensor displays use a simple and intuitive indicator system for quick visual interpretations. Users can specify and alter the sensitivity levels of indicators depending on their personal reporting needs and environmental changes.

The SMS analytical engine generates talking points and graphics based on carrier defined measures and metrics. This insight supports the indicators with full drill-down capability. All data and information can be drilled down by the user all the way to the source system that provided that data.

The Results

- ❑ Insight of internal operations and information and knowledge about external safety considerations of an air carrier’s operations.
- ❑ Integrated and aggregated data and information providing insight and knowledge about the overall state of Safety.
- ❑ The SMS provides the framework applying safety risk management techniques consistently across the organization.
- ❑ Measure and validate actions and efforts as a closed loop system to ensure results.
- ❑ Information and knowledge is available in a timely and consistent manner for easy management use.
- ❑ SMS is dynamic, adjusting to changes in the environment, and implementing improvements based on actual measures of effectiveness and results.
- ❑ Integrating the various data system stovepipes, SMS can help identify discrepancies and inconsistencies between systems.
- ❑ SMS provides the means to be proactive with data and information in ensuring safety.

Who We Are

Millennium Information Systems, a veteran-owned small business started in 1999 to apply over 35 years of experience in problem solving, information technology, large-scale program management, and government contracting, The founder of Millennium assembled a team of professionals with a broad spectrum of information technology skills, business experience and subject matter expertise, and began delivering the vision to challenge the “status quo.”

Today, a continued focus on **maintaining deep, diverse expertise** in information technology, **delivering solid client results**, and maintaining financial independence has enabled Millennium to grow and remain successful even in a volatile economic environment.

This growth is fueled by new clients, a highly referenced client base, strong partners, delivery of RESULTS, and the innovative development of new products and services. As the business grows, Millennium remains dedicated to its founding beliefs — integrity, honesty, the highest ethics, and above all a dedication to delivering results the first time that make a positive **difference for each client.**