



■ Business impact

To optimize the productive output of its overall supply chain, the DoD must focus on “improving visibility into supply chain logistics costs and performance and on building a foundation for continuous improvements in performance.”*

■ Challenges

- **Disjointed systems.** Getting myriad, siloed legacy systems to work together across all service branches is cumbersome, costly and inhibits rapid, effective joint-force response.
- **Lack of predictability.** There’s no way to know where and when the next natural disaster or political hotspot will be, so it’s difficult to preposition supplies and resources to fit every possible scenario.
- **Logistical constraints.** Limited capacity and finite assets and transportation options make effective logistics planning difficult, and reallocating resources already committed to one area is rarely a viable option.
- **Supply chain complexity.** Lack of visibility into the world’s largest, most unpredictable supply chain makes effective, integrated logistics planning nearly impossible.

* Source: 2006 Quadrennial Defense Review



**THE
POWER
TO KNOW®**

How can we better track and control resources and plan for contingencies across multiple domains?

YOUR GOAL: Improve mission readiness and operational effectiveness

From enabling relief efforts following natural disasters to sustaining troops in wartime, mission success for the US Department of Defense (DoD) depends on the efficient and cost-effective delivery of supplies and resources where and when they’re needed. In addition, the realities of modern-day warfare, increasing world instability and mounting fiscal pressure from Congress are compelling military forces to become more agile.

That’s a huge challenge. The DoD’s supply chain is the world’s largest, with more SKUs than the biggest global retailer. Demand patterns are unpredictable. Standard logistics processes are slow and cumbersome. And the sheer size and complexity of the intricate supply network that serves all military branches hinder effective and timely logistics support. New supply chain management strategies and technical capabilities for optimized force sustainment are critical to operational readiness and effectiveness.

Advances in private sector supply chain management have helped, but many challenges remain. Numerous, disjointed legacy and newer ERP systems—both inside and outside the DoD—make it hard to get a cohesive picture of the entire supply chain. Logistical constraints (e.g., limited transportation and storage options) can stymie response planning and hamper response times. And the unpredictability of world events makes it hard to preposition inventory and supplies where they’re readily accessible.

OUR APPROACH

Improved operational effectiveness and responsiveness are only possible if optimized plans can be developed quickly. That means modernizing business processes and the supporting information infrastructure while developing integrated supply chain and logistics management strategies. SAS makes this possible with software and services that help you:

- **Give leadership a full view of the global supply chain** and match requirements to available stock across services by easily accessing, integrating and transforming data scattered in multiple legacy and ERP systems all over the world.
- **Accurately identify projected shortages at supply nodes** so you can fix issues in the planning rather than operational stage using advanced, predictive analytics to run models with millions of variables and constraints with no lag time.
- **Create, explore and compare various courses of action** to facilitate rapid response to changing requirements and minimize costs through the optimization of the supply chain and transportation network.
- **Share plans throughout the chain of command** by enabling defense leaders to access critical information where and when needed, in their preferred format, so they can understand available courses of action and proactively make the right choice.

SAS’ integrated solutions can also be used to improve effectiveness in other areas beyond logistics—such as predictive maintenance, sustainment, early warning and reliability analysis, etc.—to improve warfighter readiness both today and into the future.

THE SAS® DIFFERENCE: Optimize and synchronize the logistics matrix

Only SAS offers a complete logistics and supply chain solution on the massive scale required by the DoD. Based on a proven platform that lets you derive the most value possible from legacy systems, SAS' integrated software solutions deliver:

- **Rapid, phased implementation.** SAS modules and components are prebuilt and thoroughly tested. This, coupled with our phased implementation methodology based on best practices, can get you up and running in a matter of months.
- **Scalability.** No matter how many variables or constraints, nor how far into the future you project, SAS can scale to fit the expanding needs of the DoD for the long term.
- **World-class analytics.** Only SAS can integrate all relevant information scattered throughout operational and transactional systems and then analyze every aspect of the extended supply chain to create a global view that provides intelligent insight.

For more than 30 years, SAS has consistently demonstrated corporate strength and stability in a high-risk economy, with proven solutions for enterprise data management and integration, advanced analytics and supply chain optimization. With experience working with all 15 federal departments, all military departments and the joint commands, SAS is well-positioned to help defense leaders more successfully determine requirements, support warfighter needs and optimize the business of the DoD.

CASE STUDY: A joint defense organization focused on logistics

Situation

The organization needed a logistics planning tool that would optimize supply chain planning and enable the matching of mission requirements to global inventory across all service branches. But with multiple, disconnected supply chains and no "big picture" view, planners were constantly struggling to move supplies to points of need while contending with transportation and operational constraints.

Solution

Using COTS software, SAS developed a logistics planning tool prototype that uses existing legacy systems and minimal resources to:

- Provide advanced decision support for plan selection, including detailed feasibility analysis and the ability to understand and mitigate risk.
- Quickly create optimized logistics plans that can accommodate millions of operational demands and constraints.

Results

- Optimized logistics plans that match mission requirements with worldwide inventory are generated in a matter of hours.
- Planners can uncover problems and root causes by drilling into plans, then quickly develop and analyze alternative scenarios and refine plans as needed.

The vision

Manage and integrate data

What if you could access information on supplies in any class located in siloed transactional systems all over the world – across all service branches – and automatically transform and cleanse the data to make it analysis-ready?

Analyze scenarios with precision

What if you could model multiple scenarios with millions of variables and constraints and get accurate results quickly?

Optimize the logistics network

What if you could identify critical inventory draw-downs far enough in advance to incorporate the procurement process for inventory replenishment into a mission's planning stage, rather than its operational stage?

Share plans throughout the chain of command

What if planners could view plans via the Web any way they wanted and follow any line of inquiry to determine operational feasibility, asset deployment needs and any associated risks?

SAS FACTS

- For the fourth consecutive year, SAS was recognized as one of the Intelligent Enterprise "Dozen," a list of the top 12 most influential IT solution providers.
- SAS customers include all 15 federal departments, all military departments and the joint commands.
- SAS reinvests 24 percent of revenues into R&D every year.

Learn more about SAS® software and services for government at: www.sas.com/government



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