

Paper 252-2007

Using the SAS® Enterprise Intelligence Platform for Logistics Optimization: Linking Data Integration, Analytics, and Business Intelligence

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ABSTRACT

The Global Operational Logistics Decision Support System (GOLDSS) encompasses data integration, analytic intelligence, and business intelligence of the SAS® Enterprise Intelligence Platform. GOLDSS was designed to support the Military Decision Making Process during deliberate and crisis action planning through execution by providing decision support and optimization of the supply chain. It provides military planners with the ability to align supply and demand to support the complexities of combat operations during planning and execution. SAS® Data Integration Studio is used to prepare the data to feed into the optimization model. The optimization model runs on the newest solvers available in SAS/OR®. The optimization results are integrated into the BI environment providing an easy to use interface to explore results with embedded GIS capabilities and OLAP cubes. This interface gives users the ability to create, change, and compare optimization scenarios in a point-and-click environment and is an excellent example of how the pieces of the SAS Enterprise Intelligence Platform can be used in conjunction for a complete solution.

No paper was submitted for publication.

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