Reducing Air Force Space Command (AFSC) Operator Execution Time with STK Engine

Software Integration Combines Automation with Custom Interface
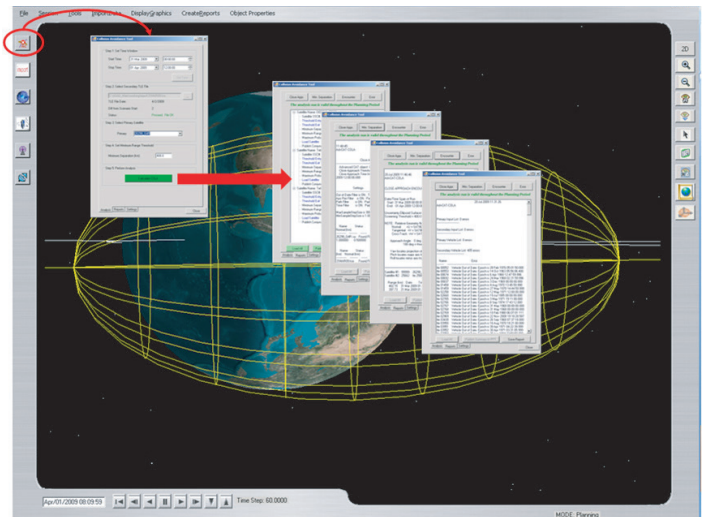
EVOLVING CHALLENGES: Air Force Space Command faces changing mission objectives, new requirements, and budget constraints. Their environment requires efficiency; shortened learning curves; and repeatable processes.

The diverse set of validated algorithms coupled with Air Force Standards required an adaptable daily-operations and mission-planning solution accessible by sites with unaligned priorities employing different databases.

ADAPTABLE SOFTWARE: Northrop Grumman-TASC embedded AGI's STK Engine into its Operations Procedure Solution (OPS). This allowed them to develop a custom-designed user interface that efficiently and reliably captures operator process workflow. They needed to reduce the development of custom algorithms and total time from requirements to delivery. This required a process-driven tool that guides operational staff through daily workflow, reduces risk of operator error, and increases overall efficiency.

"Using the OPS tool has reduced our daily planning execution time from seven hours down to about 45 minutes. Our daily afternoon briefing to senior leadership is completed before lunch time—and we know that it is the correct solution. Using STK Engine allows the Northrop Grumman–TASC OPS team to focus on implementing the operational and mission tasks for the customer without developing complex algorithms that STK already delivers."

— JOYCE STIVERS, NORTHROP GRUMMAN-TASC

Operators supporting Air Force Space Command needed a tool accessible by sites with different priorities and databases. They combined the user-defined workflows and automation of AGI's STK Engine with their own user interface. The solution reduced the time from requirements to delivery, increased operator efficiency, and reduced error rate. This provided repeatable, reliable, and accurate solutions—even reducing daily planning time from seven hours to 45 minutes at one location.

POWERFUL SOLUTIONS: The custom application allowed the organization to adapt educational and training programs to an expanding customer base. They were able to rapidly develop, implement, and remodel solutions to continuously changing mission requirements. The flexible, cost-effective toolset has saved time and money—while ensuring that operations are performed in a repeatable and correct manner. OPS continues to evolve at multiple operational sites. In turn, more individuals now recognize and appreciate the benefits of a commercial product that can be custom-tailored to improve operational processes.

AGI delivers mission-proven software for timely and cost-effective development and deployment of advanced space, defense and intelligence applications. AGI products are used for modeling, engineering and operations in the areas of space, cyberspace, aircraft, missile defense, C4ISR and electronic systems. They can be purchased as ready-to-use applications, development tools or turnkey solutions.

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