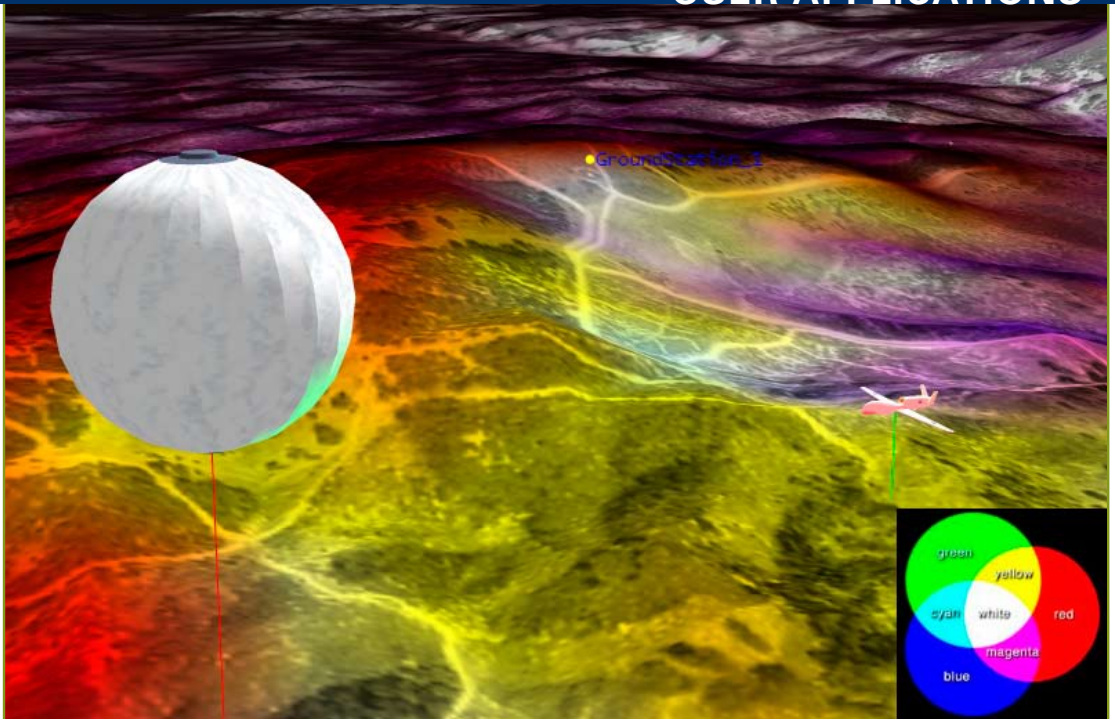


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ANALYTICAL GRAPHICS, INC.
220 VALLEY CREEK BLVD.
EXTON, PA 19341



Minding Mission Requirements

MISSION MINDER—AN STK-BASED INTELLIGENCE, surveillance, and reconnaissance (ISR) collection management tool—provides modern planning and analysis for strategic and tactical signals intelligence (SIGINT) missions. Initially sponsored by the Department of Defense's Small Business Innovation Research (SBIR) program and built by Data Fusion Corporation, Mission Minder supports all phases of operations—from collection planning through mission execution and post-mission analysis. This tool seamlessly transforms collection requirements into optimized mission execution plans.

George Krasovec, a program manager for Data Fusion, says STK provides three foundational capabilities supporting the "ISR business logic" implemented in Mission Minder: track propagation, 3-D visualization, and visibility access with terrain masking effects. End-users experience Mission Minder functionality made possible via STK software in the following ways:

PRE-MISSION ANALYSIS:

- Automatic STK globe composition covering the area of interest, including maps, imagery, and digital terrain
- Requirements-driven target layouts
- Flight plan layouts and optimization
- Mission timing and sensor tasking
- Multi-platform mission synthesis

REAL-TIME OPERATIONS:

- TCP or multi-cast network feeds
- Support for standard GPS and custom navigation reports
- 3-D situation displays via push-button control panels
- Multi-platform collection activities viewable in 2D windows
- Real-time situational awareness and ground coverage contour generation in 3D windows
- CPU-friendly tri-chromatic color projection technique

POST-MISSION ANALYSIS:

- Mission reconstruction
- Signal ID support
- Computer-assisted signals analysis report generation

"STK software not only provides Mission Minder with superior analytics and visualization in support of ISR operations, its flexibility enables the toolset to be hosted on Windows-based workstations and portable laptops. This is an ideal setup when you are dependent on real-time, net-centric support," says Krasovec.

To learn more about Mission Minder, review Krasovec's "User Success" presentation from the 2005 AGI Users' Conference at www.agiuc.com/resources. For information on the tri-chromatic color projection technique developed by Krasovec for Mission Minder, view the VDF and abstract that earned him an AGI "SuperStar" award at www.agiuc.com/superstars. ▲