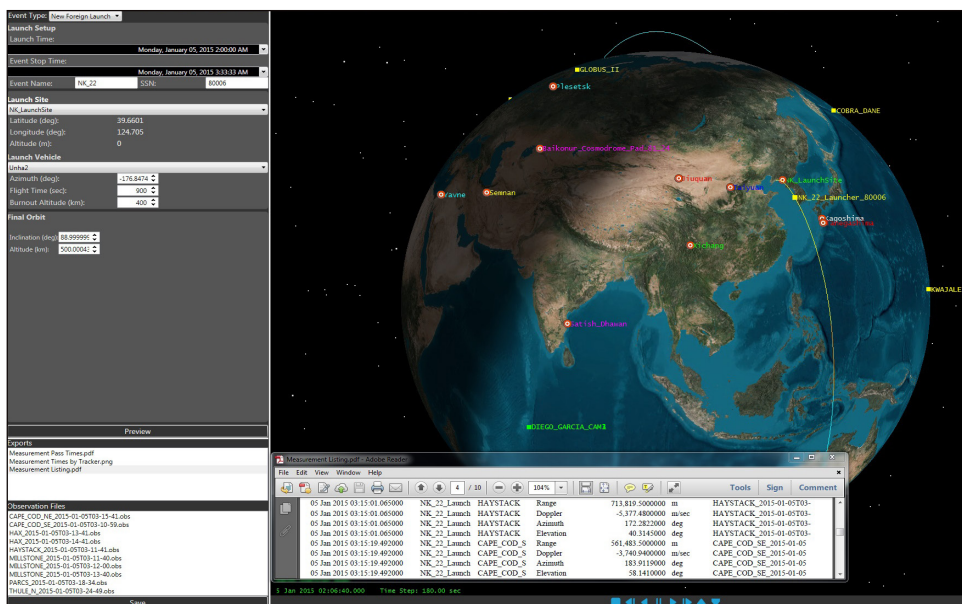




The Space Event Generator software (SEG) offers a commercial software application that performs test, training and exercise applications.

SEG is delivered on an open, standards-based software capability to support the testing and training of Space Situational Awareness (SSA) software systems. Additionally, it is designed to provide the central simulation environment for support of SSA and Space Control exercises.



SEG supports a Service Oriented Architecture (SOA) and provides clearly documented APIs. These interfaces enable configurable and intuitive delivery of simulation functionality to meet customer's requirements rapidly and efficiently, as well as the ability to integrate directly with customer's architectures. Harnessing the mature capabilities of AGI's independently validated and verified SEG provides:

- 1) Accurate physics-based modeling of SSA events,
- 2) Immediate 3D visualization of user-defined events, and
- 3) Production of simulated sensor observations.

Additional capabilities include:

Time independent. Events and observations can be synchronized to run in current time, or in past or future epochs, and can be combined together on a user-defined timeline to generate a complete exercise scenario.

3D visualization. Supports the timeline and the event creation process to provide immediate visual feedback to user, a key element of student training and system testing.

Accuracy. Accounts for force and debris models, space weather effects, and sensor performance models, including terrain and elevation constraints, to create accurate and realistic SSA events.

User workflows. Provides a variety of pre-defined event types out of the box and easy to use, operator workflows.

Specific event types currently supported include:

- Launch
- ASAT
- Deployment
- Breakup
- Reentry
- Deorbit
- Maneuvers
- Rendezvous
- Proximity Operations
- Conjunctions
- Orbital Intercept
- Docking & Separation

SEG's SOA-based approach is flexible and effective. Its convenient workflows, combined with accurate, physics-based simulations, provides immediate value and effectiveness to users in their testing, training, or exercise events.

To learn more about AGI's software for SSA software training, testing and exercise support, contact Brendan Houlton, Technical Director SSA Solutions (ssa@agi.com)