SIMULATION \

# S-MISSION

DESIGN, RUN AND DEPLOY HIGH FIDELITY SIMULATION

## BENEFITS

- **Accuracy**
  Instead of simply approximating, S-Mission calculates elements in a simulation, including trajectories, flight characteristics, and weather effects. S-Mission is based on proven results technology that is currently deployed in critical programs.
- **Extensibility**
  Build entities and behaviors based on each project's needs using the Model Editor and Behaviors Editor. The XML-based database in S-Mission allows for importing or exporting models and for interfacing with other systems.
- **Adaptability**
  The Service oriented architecture (SOA) and SIM OneNet technology enable S-Mission to discover itself as well as RTIs, updates to terrain, and to interoperate with other modules.
- **Modularity**
  The plug-in architecture allows users to access what is needed when it is required, including 3rd party tools and simulations.
- **Usability**
  S-Mission is accessible to all levels of users because of its Windows®-based design with a strong emphasis on visual cues.

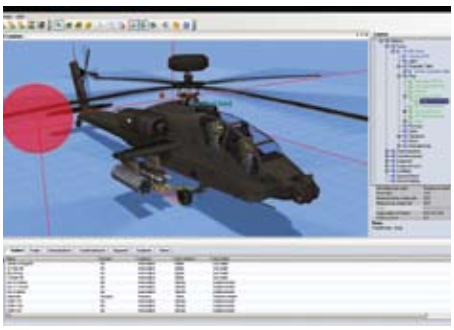
## TURN-KEY HIGH FIDELITY CGF SOFTWARE

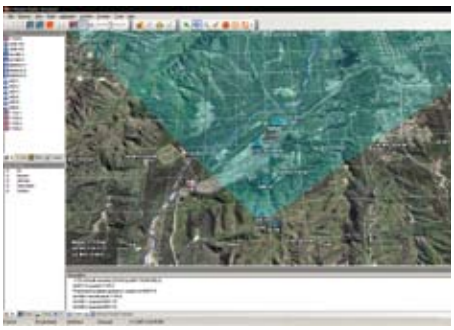
Offering analysts, trainers, simulation engineers, and planners a full range of capabilities right out-of-the-box, S-Mission is the only simulation software that "just works" with all terrain databases to produce correlated output across all formats.

S-Mission is a turn-key COTS simulation software that includes:

- A high-fidelity simulation core
- Computer Generated Forces (CGF)
- 3D GUI based Model editor
- 2D/3D scenario editor
- 3D stealth viewer
- Integrated behavior editor
- Sound effects server
- Runtime infrastructure (RTI)

To assure perfect correlation, S-Mission reads Presagis TerraPage (.txp) as a native format for both 2D and 3D visualization on the terrain server. In addition S-Mission includes a graphical user interface for use in computer generated forces scenarios and for adding, editing, or customizing simulated entities, behaviors, rules, sounds, and dynamics.





## FEATURES

- **Computer Generated Forces (CGFs)**
  Providing a comprehensive range of land and maritime behaviors as well as the most sophisticated air behaviors on the market.
- **Model Editor**
  Using a 3D GUI environment to create or customize any simulated model in S-Mission. Assign the right visual representation to high fidelity dynamics and make them correlated
- **Weather Server**
  Using Environmental Scenario Generation (ESG) files to build accurate weather for any simulated environment.
- **Navigation Server**
  Providing radio station, runway, and general navigation aids and allowing Jeppesen® and DAFIF databases to be read in their native formats.
- **2D and 3D Visualization**
  Supplying ready-to-use components and out-of the-box compatibility with Presagis SOFViz™, and MobileViz™.
- **Terrain Server**
  Directly using Presagis TerraPage visual format, the terrain server provides streaming updates to visual and CGF databases and
- **Sound Server**
  Delivering configuration-free spatial audio, entity-based sounds, and physics-based effects, including propagation, attenuation, and Doppler.

## S-MISSION IS DESIGNED TO BE DEPLOYED IN LARGE SCALE OPERATIONAL ENVIRONMENTS, INCLUDING:

**Military Modeling and Simulation**
Training, analysis, test and evaluation, adaptive planning, mission rehearsal, experimentation, and acquisition.

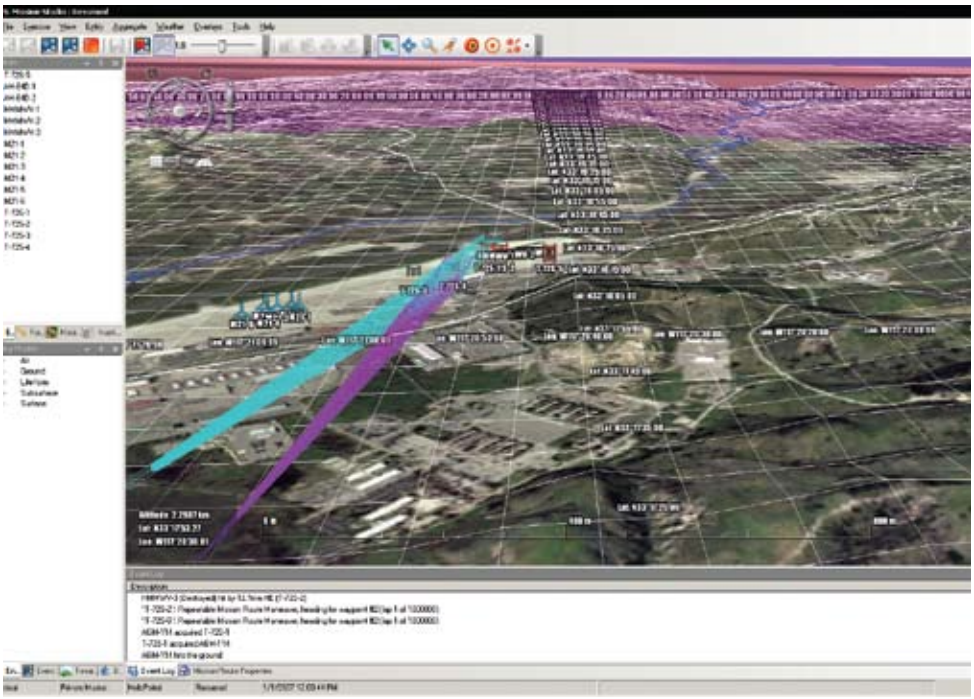
**Analysis**
Terrestrial and space-based communications modeling and aviation dynamics, including live control and constructive, real-time weather effects for navigation, sensors, and acoustics.

**Emergency Management**
Training, planning, and rehearsal for fire and police departments, emergency operations, medical services, and Homeland Security.

**Other Civil Sectors**
City planning, transportation, aviation and aviation-related engineering and research, and airport security.

**Command and Control**
Direct connect to live hardware provides control of Unmanned Aerial Vehicles (UAVs), GPS-enabled devices, or other hardware through IEEE1394, Ethernet, or STANAG 4586 interfaces.

Visit **www.presagis.com** for more information.





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