

Effective flight planning
 Optimized image collection
 Plug-in models
Like no other – UAV Planner

UAV Planner™ is an advanced planning and scheduling application that provides automated route planning and sensor tasking for unmanned aerial vehicles. UAV Planner allows operators, designers and engineers to model their UAV systems and perform operational scheduling and analysis - right out of the box. The Orbit Logic UAV Planner is based on proven satellite Collection Planning Software from Orbit Logic.

The major features of UAV Planner™ includes:

- Target/Task Order Definition and Management
- Aircraft and Sensor Configuration and Management
- Multiple Aircraft Sortie Management and Planning
- Automated Flight/Route Planning
- Automated Image Collection Planning
- Aircraft Model Plug In
- Manual Planning Options
- Integration with STK™ and Google Earth Pro™ for visualization, analysis and reports

Key Features

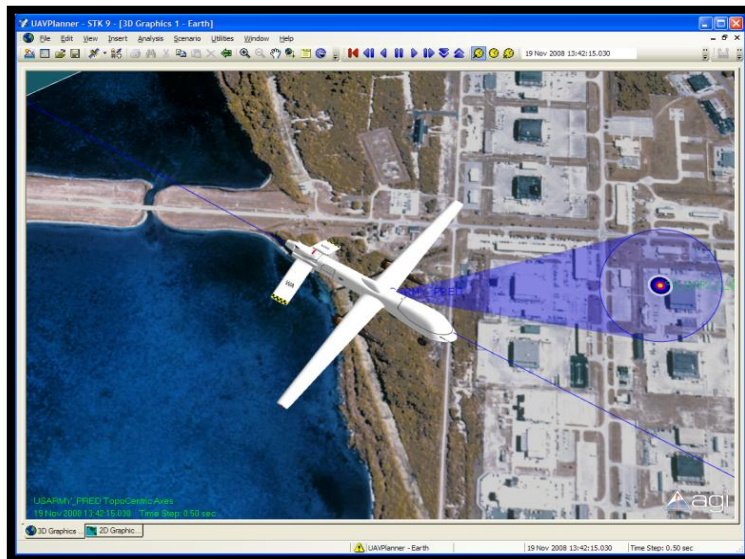
Task Order Definition and Management

- Accept new task orders via XML message interface
- Task Order Database with fulfillment tracking
- Create and edit task orders and via GUI
- Interactive map options for area of interest definition

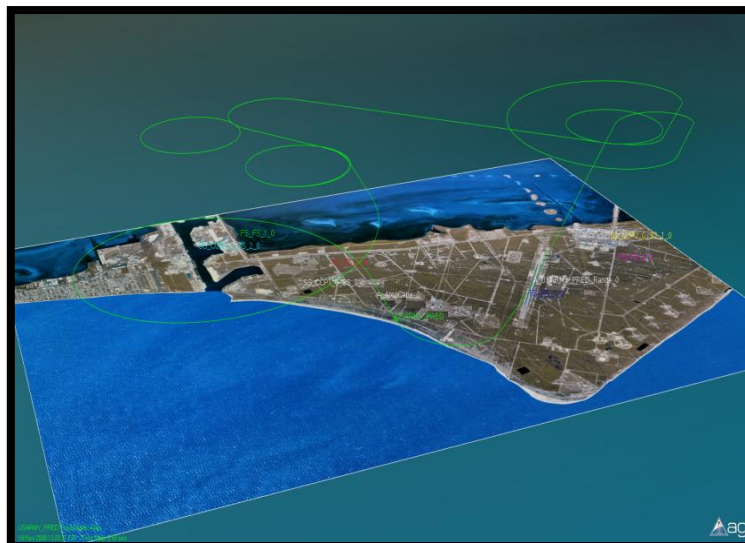
Interactive 3D maps and plan animation through integration with STK™ and Google Earth Pro™

- UAV Planner will use STK™ and or Google Earth Pro™ to display maps and animation driven by plan data using a process proven in satellite planning systems from Orbit Logic

3-D animation in STK 9



Alternate 3-D route plan view in STK





Automated Planning

- UAV Planner will automatically plan the flight path and collection schedule for an aircraft sortie within aircraft capabilities and to maximize the value of collected imagery
- Multiple algorithms compete to optimize the sortie plan

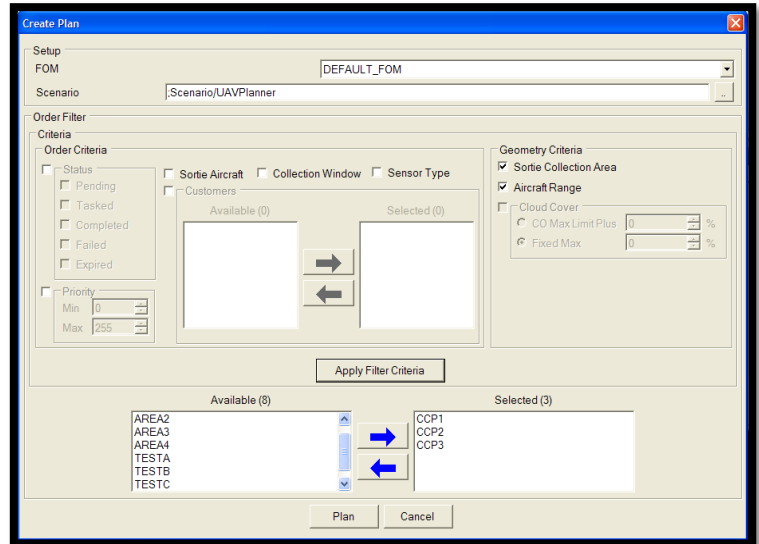
Manual Planning and Analysis

- UAV Planner will support manual planning using the ops concept and methods proven in Orbit Logic's deployed satellite collection planning software
- GUI allows an operator to influence automated planning algorithms or make changes to plans manually, or define a plan from scratch manually
- A plug-in aircraft model determines the flight path during candidate imaging events based on UAV Planner specified imaging requirements
- The software assists the operator by providing default collection parameters for each image, and by applying constraint models to notify the operator when a system or mission constraint has been violated

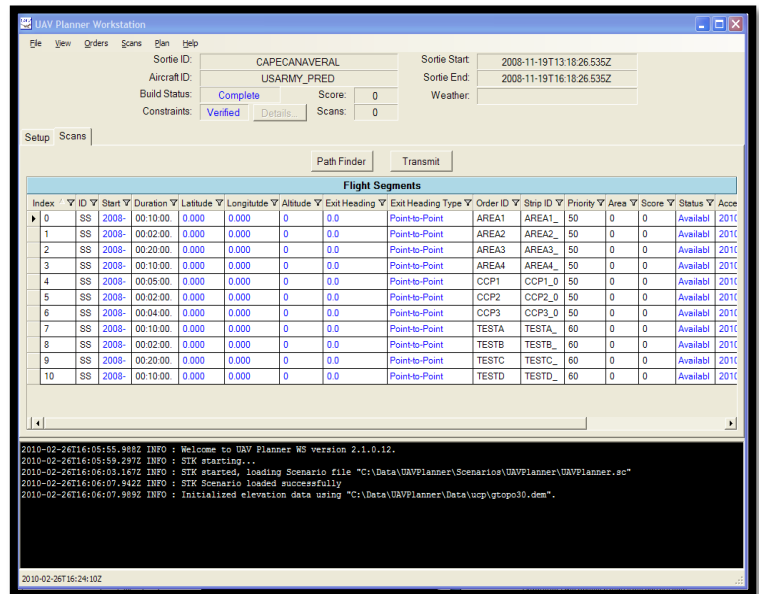
In-Flight Re-Tasking

- If an aircraft resource in UAV Planner is defined as enabled for in-flight re-tasking, the operator will be allowed to re-plan an ongoing sortie (starting from current time plus a defined buffer forward)
- Algorithms will optimize plan from current time forward using the latest order database (which may include changes since the original plan was generated)
- Attempting to forward a new/modified plan that contains changes prior to current time plus configurable buffer will be blocked by the software

Sortie Flight and Scan segments



Order Filtering Window



For more information about UAV Planner please go to www.orbitlogic.com



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