

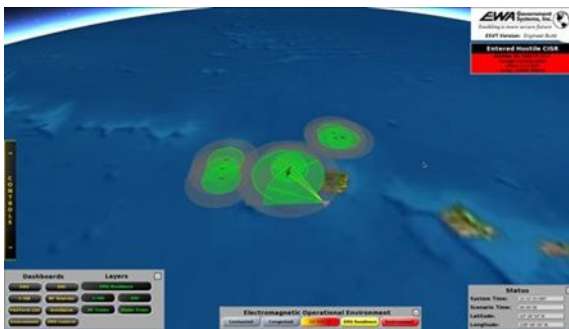
Electromagnetic Spectrum Visualization Tool

Overview

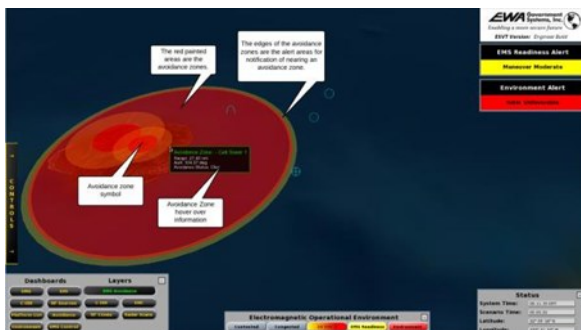
ESVT is a multidimensional electromagnetic (EM) energy visualization capability that can be customized to produce training, mission planning, and live situational awareness applications.

ESVT applications will provide:

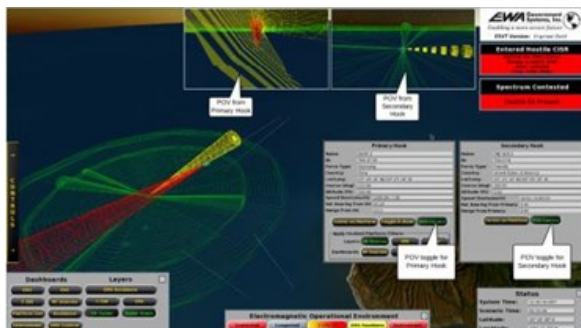
- Visual representation of the EM battlespace and the impacts of the EM Spectrum Operations Maneuvers.
- Increased understanding of the tactical implications the EM spectrum has on a mission.
- Improve tactical proficiency when operating within the EM spectrum.



Display Overview



Layers – EMS Avoidance



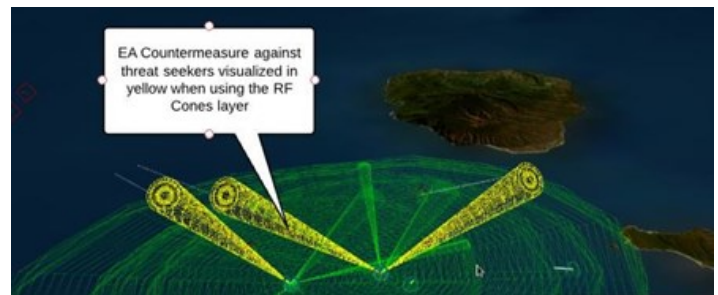
POV Cameras

Potential Applications

Training

- Basic Signal Recognition
- EMSO Strategic Decision Training
- Joint EM Spectrum Operations Cells (JEMSOC)
- Scenario Preview and Monitoring
- Scenario Generation

Countermeasures and Jammers



Electromagnetic Spectrum Operations (EMSO)

- Battle Order
- Detection/Counter Detection Ranges (Radar/COMMS/EW)
- EMI
- Environmental Information and Affects (Duct type and heights, space, weather, etc)
- Missions Planning
- Pre-Plan Responses (PPRs)
- Sensor and Weapon Integration
- Spectrum Deconfliction
- Spectrum Interoperability

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