



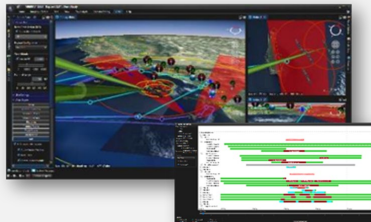
Merlin: EW M&S Software Suite

Supporting Trons on Target since 2010

Merlin is an Electromagnetic Warfare (EW) Modeling and Simulation (M&S) software suite that provides unmatched decision support for pre-, live-, and post-mission understanding of the spectrum battlespace. Merlin can model and render platforms, weapons, and equipment from mission scale up to the full Area of Responsibility (AOR), Large Force Exercise (LFE), or Large Force Test Event (LFTE). EW isn't magic, but Merlin is!

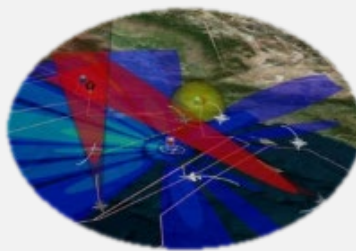
Pre-Mission/Exercise Planning

- Model the environment
- Identify what you expect to see
- Identify when you expect to see it



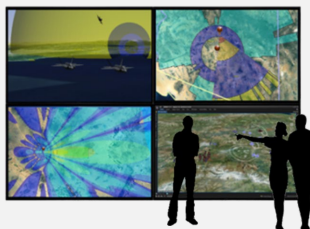
Live, Virtual, Constructive (LVC)

- Overlay M&S on top of live TSPI feeds
- Run real-time analytics over live data
- Inform decision makers in real time



Post-Mission/Exercise Analysis

- Overlay M&S over recorded data
- Identify what you saw
- Identify when you saw it



SYSTEM REQUIREMENTS

Operating System

- Windows 10
- Windows 11
- Windows Server

System Requirements

- NVIDIA Graphics Card
- OpenGL 4.x/CUDA Compatible
- 32+ GB RAM
- 15+ GB Hard Drive Space Avail.
- Quad-Core or Better CPU
- Keyboard & Mouse

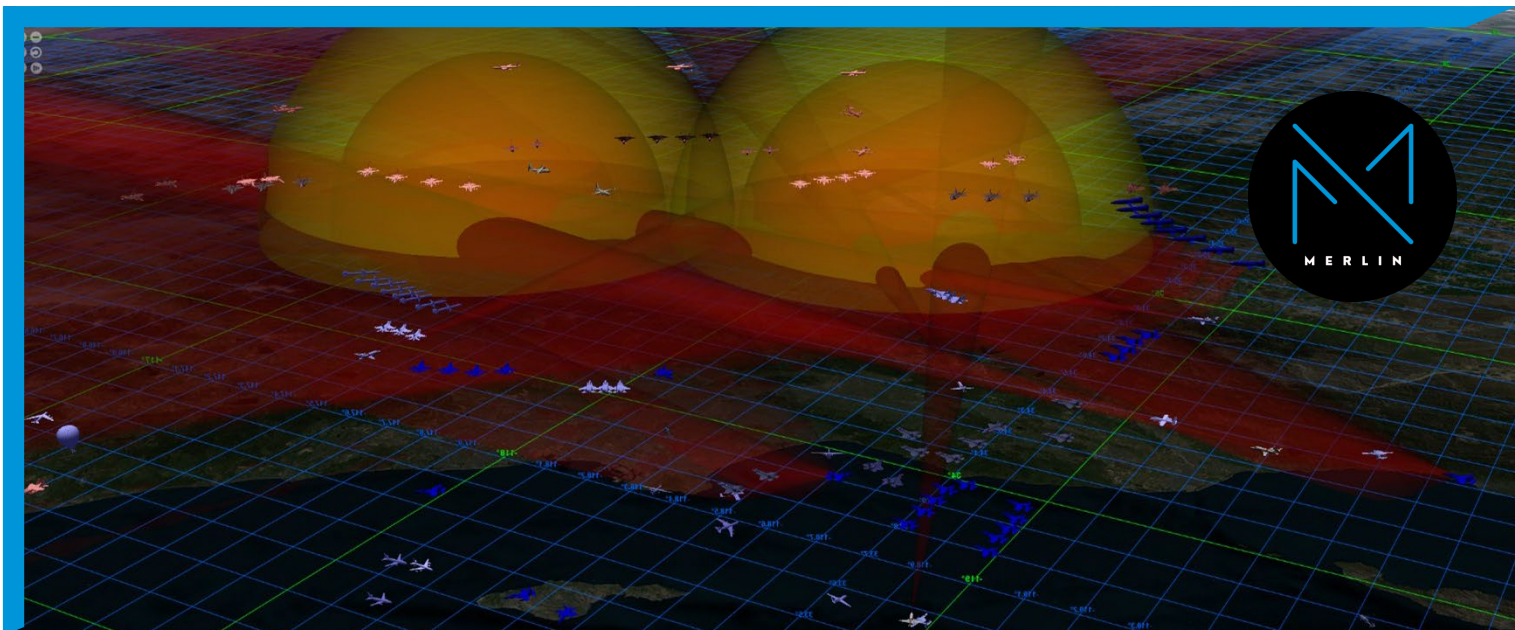
Features

- Jammer Technique Analysis
- Electronic Attack Keyholes
- Jammer Acceptability Regions
- Route Exposure Calculator
- GPU-accelerated Terrain
- RF Propagation Analysis
- Interactive Scenario Generation
- Jammer Game Plan Review
- Geospatial Link-16 Displays
- Radar and TSPI Tracks
- Lines of Bearing / CEPs
- IBS / CMF Error Ellipses
- Common Data Format (CDF)
- KML/KMZ Import/Export
- TENA and DIS Support
- CHEETAS 4-D Visualization with Streaming Support



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GOVERNMENT OPEN PRODUCTS

MEERKAT: Flagship Merlin Product line used in support of Large Force Exercise event planning, post-event analysis, EMOE assessments, and EMS LVC use cases. MEERKAT has also been adopted by the Operational community for advanced PMD use cases.

CAPER X ("TAKX EW"): Merlin visuals and analytics deployed on the emerging TAKX platform, designed to support the US Army Warfighter. In development.



PERFORMANCE HISTORY

Merlin was first fielded under the name AEA World View with the EA-18G and EA-6B mission planning system programs of record in the 2015 timeframe. New products, such as MEERKAT and CAPER, originated on the emerging RaptorX platform to support Operational Assessments and the Operational Test and Evaluation communities. In recent years, MEERKAT has participated at multiple LFEs to provide EW / EMS data driven debrief analysis and support EMOE analysis for venue efficacy against intel assessed real world operating environments.

INTERESTED IN LEARNING MORE?

Download and Install: MEERKAT is released as Government Purpose Rights and is available for evaluation and use for any government-related program or activity.

<https://www.trmc.osd.mil/wiki/spaces/MEERKAT/overview>

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