

CAERidge™

Overview

An ever-increasing flood of data from sensors and systems provided across multi-domain operations via rapidly evolving technology results in unparalleled complexity for collaborative planning, briefing and after action reviews. Sand tables have been traditionally used for shared situational awareness and insights, but sand tables do not incorporate real-time updates from multiple sources, are costly to build, difficult to transport and require all participants be co-located.

CAE Ridge - Visualization for Collaborative Mission Planning

CAE Ridge is an immersive visualization tool enabling interplay with 3D terrain, objects, entities and their movements. Connect it to a simulation or operational system and follow the action in real time or use it as a powerful debriefing solution. The tool allows users to manipulate the virtual environment to assess how different actions may impact the scenario for real-time command and control enablement.



- Users seamlessly share the same correlated view of the operating environment
- Users interact with each other and the simulations in real-time
- Scenarios can be generated by traditional simulation tools or operational systems
- Recorded scenarios can be replayed and participants can intervene, “grab” the entities and rearrange the battlespace
- Delivery modes include laptop, tablet, touchscreen, HoloLens, VR goggles and smartphone.
- The terrain can be overlaid with tactical charts, entity trajectories, and weapon ranges for enhanced planning and training scenarios
- Users can add markers, drawings, or comments to facilitate a training event, post-event discussion, or after-action review.
- Map tools like coordinate grids, distance measurement, dynamic visibility of terrain, and objects and other dynamic overlays can be applied
- In near real-time and real-time tactical information can be ingested from UAV feed or live cameras to augment situational awareness

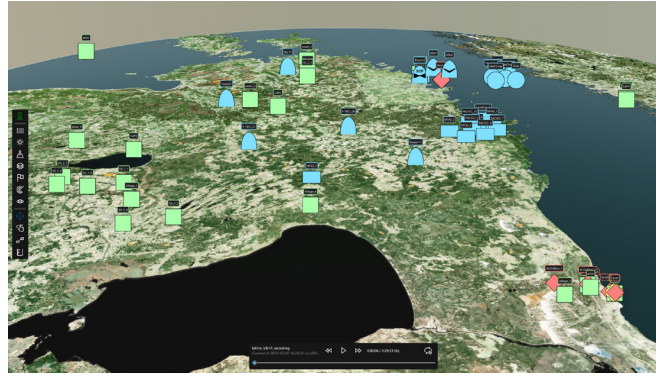
Unique 3-D visualization tool for augmented situational awareness planning facilitation, assessment and decision support

CAE Ridge for Co-located or Remote Collaboration

- Viewers **at the same location** see the holographic map in a spatially correlated position, hand gestures can be used to point and indicate complex maneuvers
- **In a distributed setup**, participants from different locations can join the exercise and still see the same section of the map; interactions are transmitted by means of telepresence across the different locations

Available Functionality

- Line of Sight View
- Freehand Annotation
- Custom Overlays
- Environmental Conditions (weather, time of day)
- Textureless Mode (for maximum contrast)
- RF Propagation Simulation
- AI-Assisted Transmitter Placement
- Interoperability with CAE products/systems



CAE Ridge Uses:

- Planning tool
- Operation monitoring
- Situational awareness
- Conduct training, exercises and wargaming

CAE Ridge - for a full range of planning, training, and operational decision support scenarios, ranging from tactical to strategic

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