



UWAS (Underwater Warfare Analysis and Simulation)



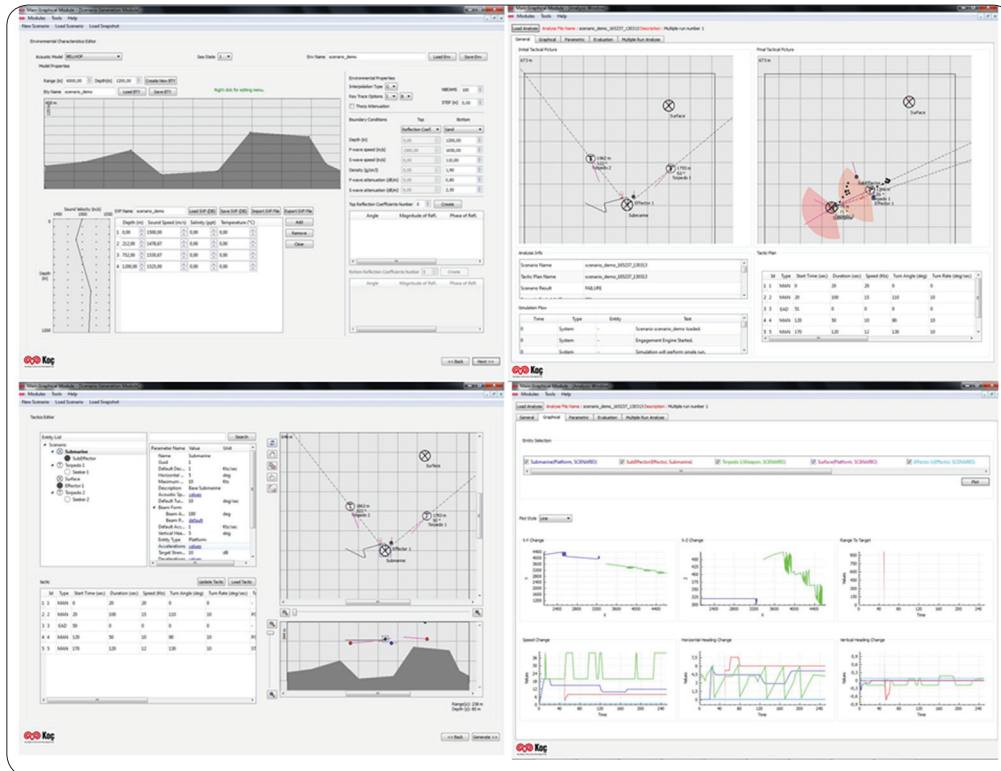
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Koç Bilgi ve Savunma Teknolojileri A.Ş.



UWAS is a standalone computer based simulation framework aimed to model and simulate detailed interaction between naval warfare objects.



UWAS provides a scenario definition mechanism to identify the characteristics of the engagement. UWAS supports changing modeling fidelity triggered by changing time resolution. Results of the engagement can be exported from UWAS for statistical success analysis.

Using the UWAS, torpedo countermeasure tactics can rapidly and easily be developed.

UWAS makes use of Dynamic Link Library (DLL) functions to determine the actions of the entities. The framework provides an Application Programming Interface (API) for the usage of custom DLLs in the simulation.

Capabilities:

Scenario generation;

- Gaming Area Definition
- Entity Parameter Selection
- Tactics Definition
- Pre-defined Scenario Loading

Environmental modelling;

- Self Noise
- Reverberation
- Ambient Noise
- Spectral Response
- Sound Speed Profile
- Bottom Profile
- Propagation Loss

Engagement modelling;

- Torpedo Modelling,
- Platform (Surface, Subsurface) Modelling
- Countermeasure Modelling
- Tactical Plan Modelling
- Generic API

Engagement execution;

- Rapid / Quick-pass Analysis
- Multiple Run Analysis
- Multiple Level Modelling Fidelity
- Start/Pause/Stop Support
- Engagement Result Exporting

User interface;

- 3-D View
- Zoom
- Scenario Loading
- Simulation State Saving
- Changing Simulation Speed
- Displaying Entity Parameters at Run-time

After engagement analysis;

- Record & Replay
- Statistics Success Analysis

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