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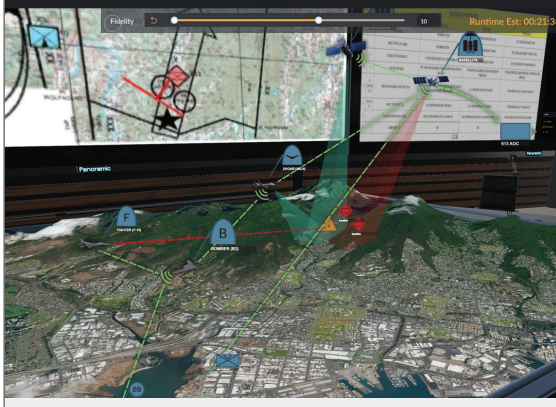
OLYMPUS

All-domain live, virtual, constructive environment (LVCE) for collaborative mission simulation



Today's modeling and simulation (M&S) platforms are not optimized for rapid concept development and limit user ability to run large-scale scenarios. Olympus' faster-than-real-time, multidomain M&S capability fills these critical gaps to enhance joint domain operations and improve mission planning.

JOINT ALL-DOMAIN COMMAND AND CONTROL

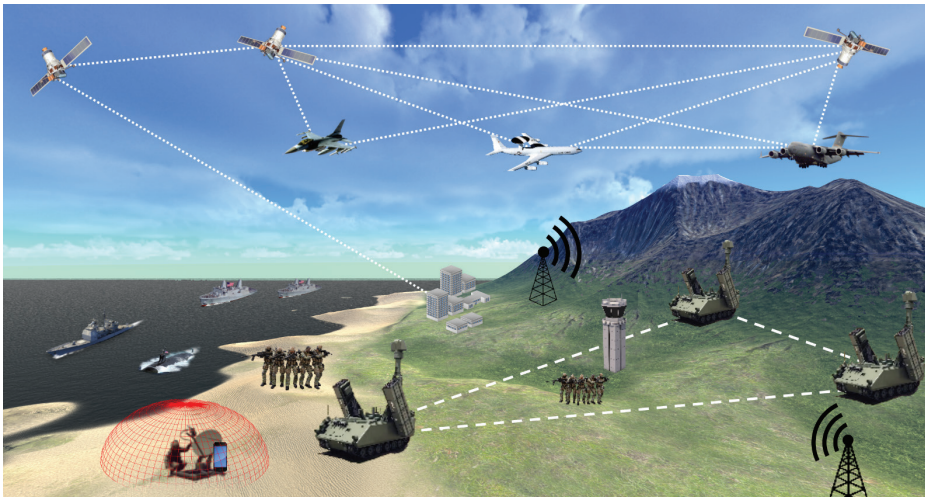
Olympus' 3D rendered "game environment" provides theater-wide mission-level planning, exercise support, training, concept of operations development and decision making from tactical through strategic level operations. The realistic and intuitive interface is designed to immerse users in a virtual command center. It depicts cross-domain interactions addressing engagements, missions and large-scale campaigns involving blue, red, gray and noncombatant white entities.

The configurable common operating picture feature allows authorized users to view external systems such as mirrored workstations, sensor feeds and live video, thereby keeping the team in the loop at all times.

MAXIMUM PERFORMANCE

Olympus provides warfighters with the necessary tools to increase readiness and defeat adversaries in complex and uncertain environments. Teams within the constructive environment can engage in force structure analysis, acquisition strategy and future concept development – all of which lead to better analytics to support decision makers.

The program utilizes a distributed architecture enabling collaboration across multiple nodes, thereby allowing users to train and exercise as they fight. The LVCE supports development of space warfighting strategy concepts. The ability to train like you fight with integration into a live signal environment will prepare warfighters for real world scenarios, and in turn increase confidence.



Olympus offers a faster-than-real-time M&S capability that enables theater-wide mission-level planning from the seafloor to space in a MLS environment.

BENEFITS

- Increases readiness and supports tactical to strategic planning
- Allows operation in all classifications levels with multilevel security (MLS) and can be shared with coalition partners
- Delivers a cost effective approach that exercises battle staffs without physically deploying the force
- Provides a constructive environment that leads to better analytics to support decision makers

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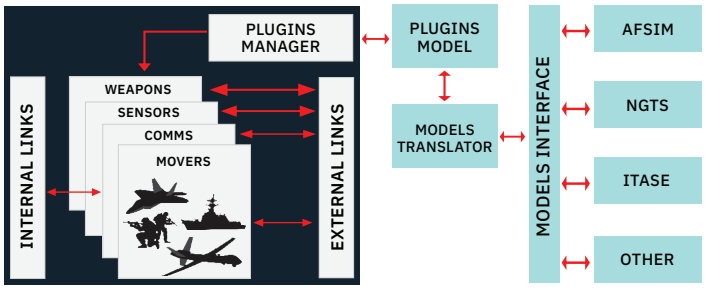
ALL-DOMAIN INTEGRATION FROM SUBSEA TO SPACE

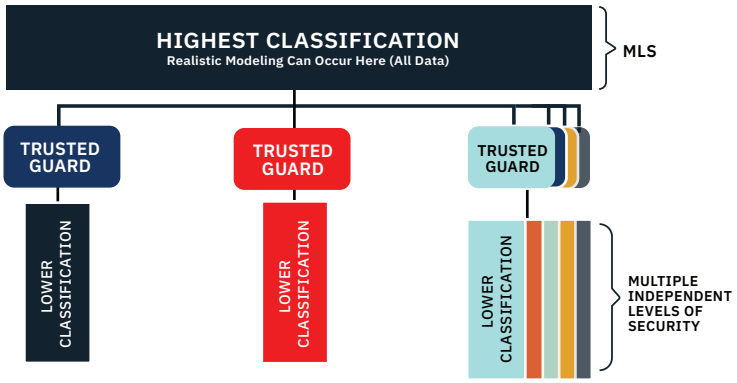
Olympus provides the ability to plan and train for more effective joint domain operations. The Olympus backend M&S architecture integrates the following into an integrated and open data model:

- Advanced framework for simulation, integration and modeling (AFSIM)
- Next-generation threat system
- Threat modeling and analysis program models
- Commercial off-the-shelf constructive environments (such as modern air combat environment)



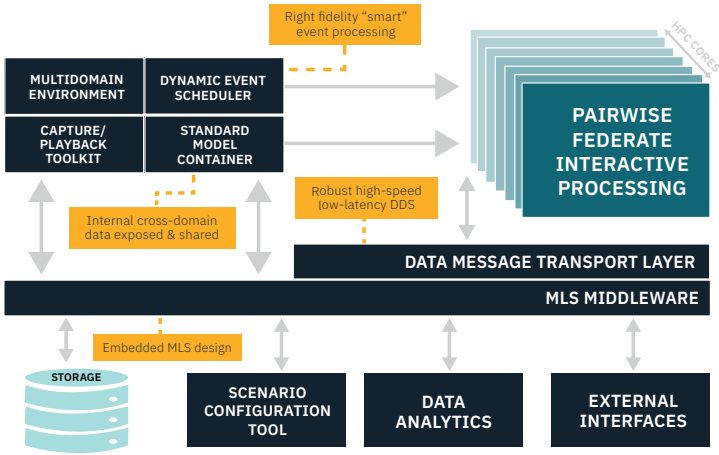
MULTILEVEL SECURITY CLASSIFICATION INTEGRATION

Our integrated MLS approach supports ingesting, fusing and correlating data from thousands of security levels into a high-fidelity, mission-level simulation and disseminating the essential results efficiently - even to lower-classification users and networks. It provides maximum protection over all the classified data and minimizes delays related to setup or reconfiguration between simulations. The MLS design integrates M&S with existing classified networks and multilevel data-at-rest encryption. L3Harris' DataCrypt™ is the highest performance multilevel encrypter available.



ABILITY TO SCALE AND RAPID EVALUATION ALTERNATIVE

The Olympus architecture supports multiple scaling methods to provide maximum performance. Our solution will achieve 25 times real-time performance processing of 100,000 entities across a large geospatial area on the current M&S integrated environment baseline, using heuristics-based pruning of pairwise interactions. In order to evaluate alternative comparative outcomes in meaningful timeframes, Olympus combines a highly parallelizable pairwise federate interaction architecture, smart pairwise interaction pruning, dynamic interaction compute scheduling and efficient high-performance computing core allocation.



Olympus

L3Harris Technologies is an agile global aerospace and defense technology innovator, delivering end-to-end solutions that meet customers' mission-critical needs. The company provides advanced defense and commercial technologies across air, land, sea, space and cyber domains.

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