



MIS-SIM

A bi-directional mission simulation environment and common operating picture.

Ideal for testing maritime autonomy, creating digital twins, 3D common operating pictures and synthetic data generation

The problem

Observation, rehearsal and testing of maritime systems can be costly, risky and lack repeatability.

Data from multi-asset missions is tricky to centralise - particularly when systems are produced by different vendors with their own protocols.

The solution

A versatile and modular simulation environment for rehearsal, real-time observation, and post-mission analysis for maritime operations and autonomous systems.

Open integrations (via DDS) for different sensors and systems to enable multi-asset distributed autonomy and more.

How it works

Due to its bi-directional nature, the MIS-SIM Simulator can be used for a large variety of applications

Step 1 Host MIS-SIM in your cloud or your local simulation server

Step 2 Work with our team to design a virtual equivalent of your vessel, including accurate dimensions, simulated sensors, and any integrated autonomy systems (including but not limited to GAMA)

Step 3 Explore the capabilities of the bi-directional simulator

- Design and run tests in the simulated environment
- Stream real-world data to the virtual world so systems can form common operating picture
- Use previously-collected data to perform historic analysis and replay