The Naval Scenario Modelling & Message Generator is a Windows based application developed by SEA to provide an easy to use and intuitive means of rapidly creating a model of a Naval engagement, and then the generation of CSH messages based on that model.

Scenario Editing/Display

In addition to being displayed in tabular form, the scenario can be viewed in both 2D and 3D graphical form with map or chart data taken from a standard bitmap file.

Bitmap transparency is fully adjustable by the operator, which in 3D mode is shown at sea level. Numerous transition options allow the operator to specify how an element moves between points (e.g. arc, liner, random, circle).

Element chart positions can be edited on the graphical display by clicking on the element position and dragging it to the desired position.

Element positions are also displayable with their heights against time, which can also be edited graphically.

Scenario Modelling

The application allows the operator to specify elements (e.g. ship, submarine, aircraft) and their positions at given points in time (X/Y/Z).

A number of other attributes can also be entered and displayed such as radar, sonar and missile ranges.

The scenario can also be edited in COTS packages such as Microsoft Excel.
Specifications

Ships Simulation
The application includes automatic simulation of ships motion, which is configurable by the operator. Alternatively fixed values can be added to the scenario that change at defined points in the scenario.

Scenario Preview
The scenarios execution can be previewed in real-time and at accelerated rates using both the 2D, 3D and time display modes. The scenario is also displayable on a PPI display.

The operator can display element attributes and full zooming capabilities are included. In 3D mode the view can also be rotated to view the scenario from any angle.

Message Generation
The application allows the operator to map elements from the model onto CSH messages.

The application uses standard message template definitions for the easy mapping of element attributes onto CSH message fields.

Real-Time Interface
In addition to generating CS2 message files, the application also supports the CU Mk3 via the Def Stan 21-24 Part 5/6 Ethernet interface using the CU Mk3 driver, allowing the real-time generation of messages and their transmission onto CSH.