

Mission Rehearsal Systems (MRS)

SYSTEM DESCRIPTION

The Mission Rehearsal System (MRS) is a framework that allows independent software simulations to interact with a simulated environment (such as an Electronic Warfare Scenario Simulator) and to communicate with each other. This is often a requirement for equipment training, high level computer based training, and mission rehearsal systems. Each device or equipment simulation is engineered to customer specification and to operate within the MRS.

Examples of device simulations include, but are not limited to, radar and radio receivers, analysis equipment, navigation equipment, jamming systems, radar systems, central mission computers and operational flight programs, aircraft flight stations, and airframes. The MRS maintains the 3D environment allowing the placement of simulations in any location and at any angle. Devices are linked using a graphical editor allowing a signal path to be established. All signal data and interactivity with the simulated environment is via publicly available interfaces.

CAPABILITIES

A Flexible Simulation System

The MRS framework enforces the following capabilities:

- Each simulation is an independent, re-usable module
- Simulations are 3D
- System configuration is drag & drop
- User actions are recordable and replay-able
- Instructor monitoring/student evaluation available



Configuring devices in MRS while scenario is running

SIMULATED SYSTEMS



ALQ-99-ECMO 3

Sophisticated Configuration of the EA-6B



Recent library of simulated device including: HARM Control Panel, DDI, Computer Load Panel, ALQ-122 Control Panel(s), Generic PPI, Generic Search Radar(not visible), Receiver Control Panel, ALQ-122 PPI, Artificial Horizon, Climb Indicator, Altitude Indicator, Ground Speed Indicator, Mach Indicator, Generic Aircraft Control, Horizontal Situational Indicator, Aft Indicator Panel, Clock, Radio Frequency Indicator, Master Control Panel, ALR-69, BDHI, BDHI Indicator, Generic Audio Control, Video Scope, Expendables Launcher, DDIC, ALQ-172, Generic MFD, Pod Power Panel, Generic Receiver, Generic Missile Launcher

Point of Contact
EWA Government Systems Inc.
 Attn: Rebekah Getz
 E-mail: rgetz@ewa.com