



C4IS consists of a Command, Control and Communication System (C3), and Scenario Editor & Player (SEP), Radar Simulator (RSIM), Link Simulator (LSIM) and ESM Simulator (ESIM) to synthetically create the environment required for the operation of the C3.

The System is designed and developed to allow integration of new types of simulators such as SONAR, TV Camera, IR Camera, SAR, pilot simulator, new data links and external data fusion systems.

System Features

- Java and C++ programming languages
- Windows NT and Linux operating systems
- Distributed system architecture based on CORBA
- Object oriented design and layered approach
- "Recovery", "data replication", and "status monitoring" for reliability
- COTS hardware
- Customizable, scaleable, expandable
- User friendly HMI
- C3 system requirements based on past NATO experience
- Easy training



C4IS Command, Control, Communication, Computer and Intelligence Simulator System



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System Functions

C3 Sub-System

- Data processing from local and remote sensors
- Multiple radar, link-1 sites and Link-11 network interfaces
- Association/correlation of sensor and Link data inputs
- Up-to-date, real-time representation of the air picture
- Selectable and reconfigurable operator roles with the minimum change
- Three operator roles selected on three distinct console computers for basic test configuration
- Identification
- Track Production (includes manual track production)
- Fighter Allocator

SEP Basic Features

- Dynamic scenario definition in order to synthetically create the theatre picture
- Easy To Use Graphical User Interface with a mixture of graphical and textual items on a map background
- Raster, Vector and DTED (Level-1) map formats
- Path drawing and editing
- Saving , Loading , Reloading scenario
- Platform and unit movements display during scenario play
- Message interface with external systems via SMTP(ADatP-3 Format) and/or CORBA for reporting platform and unit positions during play

Radar Simulator Basic Features

- Multiple radar data generation based on the scenario
- Realistic coverage analysis utilizing DTED map data
- PPI display simulation for each radar separately and selectively
- Realistic error insertion into plot/track messages

Link Simulator Basic Features

- Link message generation for the platforms within a responsibility area defined on SEP
- Both Link-1 and Link-11 format support
- Simulation of multiple link sites
- Link messages sent to C3 via Link 1/Link-11 modem

ESM Simulator Basic Features

- Detection, identification, tracking, and reporting of the RF emitters defined in the scenario
- Reporting emitter parameters (Frequency, Pulsewidth, PRI, PRI type, Received Power, Direction of Arrival, Scan Rate)
- Simulation of multiple ESM systems
- Tabular display of the emitter parameters and polar displays