ds.tools
DISTRIBUTED SIMULATION TOOLS

coreDS™ Supervisor

Distributed simulation made easy with coreDS™

Overview

coreDS™ Supervisor allows you to record, analyze, replay, monitor and generate any simulation exercise.

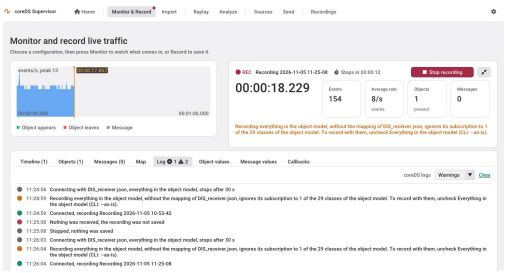
One desktop tool for DIS exercises, HLA federations and CIGI host/IG, with any object model. Everything goes through coreDS™, so the same recording replays on DIS, HLA or CIGI – no mapping required to get started.

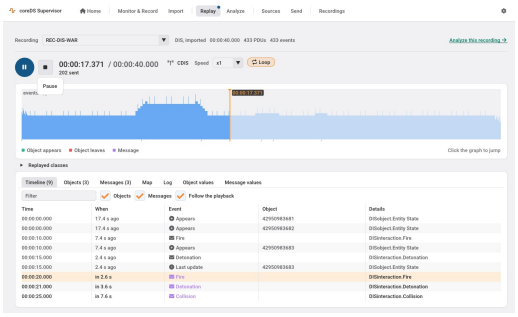
What coreDS™ Supervisor brings:

- Cross-protocol replay. Record on one protocol, replay on another – DIS, HLA or CIGI;
- Any object model, no mapping. Every class is decoded with all its attributes, under their own names;
- Find why entities go missing. The Diagnose tool checks heartbeats, duplicate IDs, malformed PDUs and traffic bursts;
- Open recordings. One SQLite file per recording: copy, share and query it with any SQLite tool.

Main features

- Monitor and record live DIS, HLA or CIGI traffic, with a live map;
- Turn pcap and pcapng captures into recordings: DIS, C-DIS, CIGI;
- Analyze – statistics, objects, decoded events, fields, map and diagnosis;
- Play back through any connector, at any speed, from any point;
- Feed in live air traffic, ship, satellite, weather or CSV data;
- Build objects and messages by hand, or run a Lua scenario.





High-Level Architecture (HLA)

Supported protocols

- HLA – DOD 1.3
- HLA – IEEE 1516-2000
- HLA – IEEE 1516-2010 (HLA1516e)
- HLA – IEEE 1516-2025 (HLA4)

Supported RTIs

- All commercial RTIs (Pitch, MAK, RTI Ng Pro, RTI-S, Raytheon RTI, CAE RTI)
- Most OpenSource RTIs (Portico, CERTI, OpenRTI)

Supported FOMs

- Supports any valid FOM file
- Tested with the RPR FOM and NETN FOM

Distributed Interactive Simulation (DIS)

Supported protocols

- DIS 5 (IEEE 1278.1-1995)
- DIS 6 (IEEE 1278.1a-1998)
- DIS 7 (IEEE 1278.1-2012)
- DIS 8 (IEEE 1278.1-202X)
- C-DIS (SISO-STD-023-2024)

Supported PDUs

- All PDUs are supported
- Custom PDUs are supported

Common Image Generator Interface (CIGI)

Supported protocols

- CIGI 4
- CIGI 3.0 to 3.3