



LVC Development and Operations Center (LVCDOC)

MISSION

The LVCDOC is a network centric environment that provides a reconfigurable, dynamic LVC integration domain supporting Research and Development (R&D) and Test and Evaluation (T&E) of new technologies and methods, and encouraging collaboration among LVC stakeholders.

EXPERTISE

- Modeling and Simulation
- Virtualized Network Environments
- Hardware/Software Integration
- System-of-Systems Interoperability
- Cross Domain Solutions
- Multi-Level Security
- Tactical Voice Transport
- Cyber Effects
- After Action Review
- Computer Science & Engineering
- Information Assurance

Contact

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CAPABILITIES

- **Network centric environment** created to be persistent and rapidly reconfigurable, supporting Research and Development (R&D) and Test and Evaluation (T&E) for LVC initiatives across all Navy platforms including aviation, surface, and undersea, in partnership with other Government organizations, Industry stakeholders, and academic institutions.
- **Interoperability Assessment and Validation** across all stages of the System Engineering Integration and Test process as a measure to accelerate LVC technology development and reduce risk.
- **Conduct technology test and integration preparation events** to improve the quality and speed of integrating new M&S capabilities into Distributed Mission Training (DMT) events.
- **Classified, Unclassified or Mixed Mode Operation** enabled by Enterprise Network Guard (ENG), a Government owned/developed, state-of-the-art Cross Domain Solution (CDS) supporting data and voice in multiple security domains across the Navy training enterprise.
- **Connection to Training Networks** to capture, store, and reuse M&S data to support analysis, development, testing, and experimentation.
- **After Action Review** to trace mission training from objectives to effectiveness.
- **Experimentation** of cutting edge hardware and software, leveraging operationally-relevant data

TOOLS

- **Distributed Simulation Standards (HLA, DIS, TENA)**
- **Protocol Conversion (JBUS & AMIE)**
- **Constructive Simulations (NGTS, JSAF, & OneSAF)**
- **Joint After Action Review (JAAR)**
- **Cyber Effects (Network Effects Emulation System (NE2S))**
- **Command and Control (C2PC)**
- **Network Monitoring/Analysis (WAN Emulation)**
- **Cross Domain Solution/Multi-Level Security (Enterprise Network Guard (ENG))**
- **Digital Radio Management (DRMS) for tactical voice transport and coordination.**