

COMMAND POST COMPUTING ENVIRONMENT (CPCE) SYSTEM INTEGRATION LAB (SIL)

LABORATORY INFORMATION FACT SHEET

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The Command Post Computing Environment (CPCE) Systems Integration Lab (SIL) was established in support of the Tactical Applications Branch (TAB) and the development of the Mission Command Information System (MCIS) for PM Mission Command. In addition to its primary purpose, it is also used by external Programs of Record (PoRs) and development efforts within and outside of Picatinny Arsenal in support of integration into the CPCE infrastructure.

TECHNOLOGY/FACILITY DESCRIPTION:

The TacApps Branch, as the Lead Systems Integrator for PM Mission Command, is able to work with the PM and external PoR customers to deploy, integrate, and test software and hardware within multiple fielded hardware and software baselines. The CPCE SIL can be quickly reconfigured for multiple test cases and provides robust flexibility to integrate software and hardware into the architecture. Through the use of a routed topology and network simulators, the SIL provides a representative architecture with characteristics seen in a fielded environment.

The CPCE SIL is a government run facility with Common Operating Environment version 3 (COEv3) subject matter expertise in an unclassified environment. The SIL also maintains connection to off site labs via Blue Force Tracker 2 (BFT2) Satellite Communications and Defense Research and Engineering Network (DREN) point-to-point tunneling. This allows our teams and customers to efficiently develop, integrate and test in an agile environment.



- Multi-Echelon Configuration
- Virtualized architecture leveraging VMware ESXi and vCenter
- TSI Large Server Stacks
- TSI Small CoreSystems
- Test NOC Connection (Upper and Lower TI)
- Routed Network Topology
- Simulated Network Degradation
- Mission Command Information System (MCIS)
- JBC-P Platforms
- BFT2 Connectivity
- Physical and Virtual Client Nodes



- Automated Test Capability
- Automated Deployment
- Configuration Management
- Industry Standard Test Suites and Packet Capture

