



The **Live Experimentation (LE)** Branch is the experimentation arm of the Cyber Center of Excellence. The Live Experimentation (LE) branch plans and executes live experiments, builds and integrates working prototypes, and provides risk mitigation for both the requirements and acquisition communities.

The branch conducts operationally focused technical experiments and provides assessments of innovative concepts and technologies that support the warfighter and the requirements and acquisitions communities, focusing on Technology Readiness Level (TRL) 6/7 (prototyping in a relevant / operational environment) and higher.

The LE branch also provides technology solutions for COCOM immediate operational needs.

- The CYBER branch plans, coordinates and executes exercises aimed at informing TCM CYBER requirements, modifying DOTMLP processes, and development of TTPs/CONOPS to support operational CYBER mission threads. Intent is to simulate operational environments to perform testing and evaluation of CYBER capabilities while helping to inform the CEMA construct.
- The EW branch plans, coordinates and executes exercises aimed at informing TCM EW requirements, modifying DOTMLP processes, and development of TTPs/CONOPS to support operational EW mission threads. Intent is to simulate operational environments to perform testing and evaluation of EW capabilities. Intent is to simulate operational environments to perform testing and evaluation of EW capabilities while helping to inform the CEMA construct.

Additionally, the LE branch provides technical support by providing technical expertise in support of rapid prototyping, near-term tech insertions, technical risk mitigation and large-scale technical integration.

Using its neutral position, the LE branch can act as the "Honest Broker" between government and commercial entities, by providing unbiased assessments of technologies under consideration for procurement.

Live Experimentation's Strategic Goals

- **Tech Experimentation** - Support operationally focused technical experimentation and integration efforts which contribute to establishing the Cyber CoE as the definitive authority on all Army Cyberspace Electromagnetic Warfare, communications and networking matters
- **Tech Innovation** - Act as the lead technical innovator for the Cyber CoE by keeping an eye on the technology development horizon to ensure that emerging communication technologies that show significant innovation are properly researched, tested and exposed to the relevant communities of interest
- **Tech Analysis** - Provide assessments and risk mitigation studies of technologies and their associated technical impact to the Army across the full spectrum of DOTMLPF domains through the use of experimentation and careful documentation of test results and the associated analytics
- **Tech Research** - Provide answers to challenging technical questions related to the Army Cyberspace Electromagnetic Warfare domains, the network and its associated hardware architecture through the use of experimentation and careful documentation of test results and the associated analytics
- **Tech Integration** - Act as the Lead Technical Integrator for experiments/exercises which require the technical integration and synchronization of multiple technologies into a single congruent network