

About Leidos

Leidos is a Fortune 500® science and technology solutions and services leader working to solve the world's toughest challenges in the defense, intelligence, homeland security, civil, and health markets. The company's 32,000 employees support vital missions for government and commercial customers. Headquartered in Reston, Virginia, Leidos reported annual revenues of approximately \$7.04 billion for the fiscal year ended December 30, 2016.



Cloud Application Infrastructure (CAI)

Providing Cloud services for automatic setup of complex networked applications and dynamic load adjustments during execution

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Developing and deploying simulation for training and experimentation events costs a significant amount of time and money. The multiple systems that support complex exercise requirements typically require weeks of engineering configuration, installation, and integration. In addition, travel and personnel costs are often incurred for the specialized engineering supported needed during an exercise.

Using cloud technology and virtualization, Leidos has moved key simulation components into a common environment to provide easy, on-demand access to modeling and simulation (M&S) – wherever and whenever you need it.

CLOUD APPLICATION INFRASTRUCTURE (CAI)

Leidos Cloud Application Infrastructure (CAI) enables organizations to deploy simulation solutions directly to remote users without the infrastructure investment, implementation lead times, and costs associated with legacy simulation approaches.

CAI is an enabling cloud-based technology, delivering the simulation capabilities organizations need to support their mission. CAI's cloud technology enables distributed simulation centers to deliver simulation services to the warfighter and make virtual infrastructure, resources, and expertise available from other locations.

Save time, resources and money. Using CAI means less time and fewer personnel needed for exercise set-up and execution, less hardware for exercise support, and more resources to support multiple exercises conducted at the same time.

WHAT DO YOU NEED TO DO?

Develop a Scenario? Use CAI's catalog of scenarios or upload existing scenarios to the environment from any local system for review and execution by developers. The CAI environment determines the resources required to execute any scenario and automatically deploys them to support it. CAI facilitates collaboration by making scenarios accessible to hundreds of distributed users via the network.

Set up an Exercise? The CAI environment provides remote access for preliminary configuration of software simulation resources without the need for engineers to access hardware systems onsite. Organizations can create, set-up, and configure any number of virtual machines in advance of an exercise. When the exercise configuration is ready to run, just initialize it within the CAI environment and execute.

CAI Benefits for Leaders, Technical Support Teams, and Warfighters

- ▶ For leadership, CAI provides additional simulation capability and expands access options while using an organization's existing resources and reducing cost. CAI can increase dedicated exercise time, reducing downtime and setup time. This helps lower expenses by coordinating remotely-located personnel with activities at the exercise sites.
- ▶ For technical support, CAI's remote access allows technical staff to quickly stand up a virtual machine configuration, perform set-up, and save the exercise configuration for fast initialization and reuse. CAI can reduce both the cost and level of effort required to support and maintain simulation capabilities.
- ▶ For warfighters, the CAI environment provides Modeling and Simulation services via remote access, making it easier for personnel to participate in exercises from home station. CAI delivers training, exercise support, and analysis capability to warfighters whenever and wherever they need it in the world.

CHANGE RESOURCES DURING AN EXERCISE?

Demand for machines and simulation resources can change in the midst of an exercise. For changes before exercise execution, CAI enables the provisioning of additional, preconfigured virtual hardware to support initial exercise configuration needs. During exercise execution, CAI can detect simulation performance issues that may lead to failure of a simulation before it happens. The CAI infrastructure is designed to proactively address the situation, automatically provisioning resources before failure occurs, meet the demand of the simulation, and enable its continuation, uninterrupted.

Remote User Access to Training? CAI can provide 24/7/365 access to simulation resources for remote users via the user's preferred network. This enables leadership to leverage remote resources to support or participate in exercises without incurring travel costs. CAI also provides the ability to train participants before coming to the exercise site, allowing time onsite to be focused on the mission at hand — not pre-exercise training.

TRANSITIONING TO CLOUD-BASED APPLICATION SERVICES?

Leidos works with M&S users to review their current M&S environment and develop the optimal configuration to take advantage of CAI capabilities and reduce overall operating costs. Our approach begins with understanding an organization's existing infrastructure and building a sensible transition plan to establish the needed capability at the organization's own pace and within their resources.

LEADING DELIVERY OF THE NEXT GENERATION M&S

Leidos is leading the way in delivering next generation M&S capabilities. CAI solutions provide the framework and systematic approach for moving M&S into the virtual realm of cloud computing and lowering simulation and resource costs. CAI is the second generation Leidos cloud services software and is built on the CSI first generation product. CAI is a Commerce Department controlled item.

Advanced Cloud Infrastructure Capabilities

