Digital Mission Solutions

Creating innovative, customized digital mission solutions to improve access and safeguard data

Concurrent Technologies Corporation (CTC) has delivered thousands of customized Digital Mission Solutions to the Department of Defense (DoD) and Intelligence Community over the past few decades. Our experts are leading the rapidly evolving information technology (IT) industry with innovative solutions that work to improve access to and safeguard data and address many of our clients' most challenging issues.

CTC *Concurrent Technologies Corporation*

Capabilities

- Agile Software Development & DevSecOps
- Artificial Intelligence, Machine Learning (ML) & ML Assurance
- Cloud Architecture & Security
- Cloud-based Mission Management & Sensor Data Exploitation
- Cross Domain Solutions
- Cybersecurity
- Edge Node Architecture & Deployment

Agile Software Development & DevSecOps

CTC is trusted to develop software for important programs for major Intelligence Community clients, U.S. Government clients and U.S. businesses of all sizes. We have extensive experience with readiness software products, integrating software with web service architectures and cross-domain solutions.

Our software developers use an agile development approach (such as Scrum sprints) to quickly and cost effectively produce reliable software for projects with rapidly changing or highly emergent requirements. Certified Scrum Masters, certified Scrum Developers and Scaled Agile Framework (SAFe) Agilists make sure meaningful solutions are developed and deployed faster than ever before. We were an early adopter of the DevSecOps development philosophy; employing that philosophy well before it was known as DevSecOps. Our developers "bake in" security in our development efforts, which saves our clients time, money, and unnecessary effort.

Artificial Intelligence, Machine Learning (ML) & ML Assurance

CTC leverages deep knowledge of machine learning (ML) and modern engineering and software development design principles to create efficient and effective solutions for both the cloud and edge applications. We offer secure and private machine learning models that ensure high utility, assurance, and interpretability.

ML technologies can solve real-world organizational challenges and significantly improve existing processes in a variety of ways. CTC keeps pace with the rapidly changing ML market to understand the implications of emerging research and to evaluate and integrate these tools and capabilities into commercial ML tools or our own COMBINE™ big data microservices architecture platform.

Cloud Architecture & Security

Drawing on our experience as a U.S. Government contractor, CTC ensures a security-first approach for each client. At the core of our cloud offerings are strong IT and cybersecurity management processes. Our team has deep knowledge of emerging cloud architectures as well as the performance and security challenges inherent to cloud migration. From development of the first FedRAMP-compliant Software as a Service (SaaS) to our efforts to deploy complex capabilities in the U.S. Government's classified cloud environment, we offer clients a wide range of cloud development and security expertise.

Cloud-based Mission Management & Sensor Data Exploitation

Our efforts in applied R&D focus heavily on innovation and transition–the transition of advanced IT solutions developed through internal and client-funded R&D efforts to solve real-world problems. Our work on cloud-based solutions is one example, an area in which we transitioned our approach to development, integration, and migration of tools and data to the cloud to the challenge of mission management of small satellites and the exploitation of highly complex overhead sensor data.

Cross Domain Solutions

CTC has been building cross domain solutions for more than 15 years. As the prime contract support to the National Cross Domain Strategy and Management Office (NCDSMO), CTC built the Assured File Transfer (AFT) guard, which now serves at the technological underpinning of the Advanced Guard for Information Security (AGIS) file transfer guard, which is now commercially available through our affiliate, Enterprise Ventures Corporation. Across dozens of technical delivery orders, CTC has been the principal contributor to NCDSMO's cross domain solutions development, technology development, and systems security engineering. We are experts on, and have provided substantive contributions to, the government's Raise the Bar Strategy Cross Domain Design and Implementation Requirements and the Development and Testing Environment Security Requirements.

Cybersecurity

A top priority of almost every organization is protecting its data from cyberattacks or unauthorized access. CTC provides cybersecurity professional services and advanced information technology solutions to both public and private organizations. Our clients benefit from our technical innovation, commercial industry and government expertise, and professional excellence. The CTC team offers strategic level (CISO, Boardroom) planning assistance, cyber training capabilities, assessment services, and incident response planning capabilities.

Edge Node Architecture & Deployment

In the past, those on the front lines around the globe would have to reach back to the data centers in the U.S. for needed information, which takes a lot of time and bandwidth. CTC is rapidly developing game-changing edge node solutions for the DoD and Intelligence Community that bring current geospatial intelligence data, applications, and services to coalition forces much faster and with less bandwidth.

Edge node technology can be used in a variety of critical situations, including helping warfighters find helicopter landing zones, conduct surveillance, locate targets, and assess damage. In the context of data exploitation and analytic capabilities at the tactical edge, real value comes in supplying vital cognitive aids for operational decisions. These aids provide a significant advantage to those employing them, especially in tactical scenarios where actions must be taken quickly.

Representative Projects

PA Cybersecurity Resource Center

Through a Commonwealth of Pennsylvania grant, CTC created a resource for Pa. businesses to improve their cybersecurity and comply with federal government standards.

Cybersecurity Consulting for Small Businesses

Concurrent with the resource center, CTC offers initial and longer-term consulting to businesses seeking to comply with more stringent federal government cybersecurity standards.

National Intelligence Community Projects

CTC has ongoing projects for the National Intelligence Community including those involving cross domain solutions; artificial intelligence and machine learning; exploitation of sensor data; design, testing and deployment of edge node systems; and more.

Concurrent Technologies Corporation

Concurrent Technologies Corporation (CTC) is an independent, nonprofit, applied scientific research and development professional services organization. CTC collaborates with its technology transition affiliate, Enterprise Ventures Corporation, to leverage research, development, test and evaluation work to provide transformative, full life-cycle solutions. To best serve our clients' needs, we offer the complete ability to fully design, develop, test, prototype, and build. We support our clients' core mission objectives with customized solutions and strive to exceed expectations.

CTC is a leader in quality and environmental management systems. Visit our Quality Commitment webpage for more information.

Quality Commitment | Concurrent Technologies Corporation (ctc.com)

www.ctc.com

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