

SEALINGTECH[®]

a PARSONS Company

DOD AND SEALINGTECH:

Pushing the Mission Forward



Background

Sealing Technologies (SealingTech), a Parsons Corporation company, is a trusted partner in providing powerful edge computing hardware and defensive cybersecurity solutions to protect the Federal Government and private enterprise. Veteran-founded, SealingTech uses vast cyberspace expertise and knowledge to provide cutting-edge research, engineering, and integration services that support the US and its allies.

Key Milestone

In 2018, SealingTech engineers set out to [redefine the Defensive Cyber Operations \(DCO\) Platform](#) after witnessing the DoD's difficulties with attempting to scale their cyber operations to work equally efficiently overseas as they did at home. The team would go on to develop several iterations of a fly-away platform, eventually leading to a highly scalable, resilient hardware/software system that could be seamlessly upgraded and adaptable to help Cyber Protection Teams (CPTs) respond to threats quicker and push the mission forward.

Later iterations included SealingTech's Automated Kit Deployment (STAK-D) Tool, enabling cyber operations to get up and running faster—and a reconfiguration of its powerful compact Kit to fit in the overhead compartment of commercial airplanes. In response to ever-evolving cyber threats and its customer's mission-critical needs, SealingTech has continued to improve and evolve its [Cyber-Fly-Away Kit](#) through the years.

Today's Challenge

To combat the growing, global threat of malicious cyberattacks, an urgent need arose within the DoD to get maximized compute and storage capabilities in a tailored, self-contained tactical edge system. Requirements stated that the Hunt Kit's design needed to allow for the standardization of remote security operations across the joint force with common training platforms and combined maintenance and sustainment operations for continuous readiness. In addition to ramping up the protection and security of military networks, the Kits needed enhanced threat detection and incident response capabilities.


The Solution

Ingesting feedback from the DoD, our military customers, and cyber protection teams (CPTs), SealingTech's team of in-house military veterans and former field operators worked with its product development team of mechanical, electrical, and systems engineers to solve the military's innovation and ideation problem with one standalone, complete solution.

SealingTech developed a superior, highly-advanced Cyber-Fly-Away Kit designed to bring edge computing to a mobile security operation center (SOC) in a box—while maintaining an FAA fly-away-compliant footprint, portable anywhere in the world for easy commercial air travel.


Enabling versatility and customization, SealingTech's Kits were configured to scale up or down to accommodate different network sizes, quantities, and team compositions. The standalone solution supported smaller missions to split-based operations. Kits could be reconfigurable with other components and deployed together, alone, or in parallel with a multitude of case offerings for enhanced capabilities.

 **Quick deployment & reliability**

 **Continuous iteration & improvement**

 **Minimize & reduce cost Impact**

 **Agile pricing model to enhance mission efficiency**

 **Robust real-world testing to ensure long-term success & adoption**



Helping the DoD Achieve Its Goals

SUCCESS STORIES

US Defense Organization

PROBLEM A US Defense Organization needed a portable Defensive Cyber Operation Kit to support its requirement for more teams and equipment to fight malicious cyber actors in unprotected and uncontrolled networks.

CAPABILITY SealingTech developed solutioning and production of Cyber-Fly-Away Kits, automated provisioning, sustainment/full-lifecycle management, operational support, risk management framework/information assurance (RMF/IA) support, facilities management, network management, and tools management.

SealingTech's Program Team developed a web application to monitor Kit status and inventory tracking, which became an invaluable resource for the customer



The company's in-house architects' Kit iterations kept up with the ever-changing mission landscapes and requirements, as well as operational support agility. The team provided full lifecycle management and identified and mitigated vulnerabilities with timely rollouts of updates, ensuring cyber warfighters were as protected as those they protect.

SealingTech's Program Team developed a web application to monitor Kit status and inventory tracking, which became an invaluable resource for the customer.

SOLUTION SealingTech provided a comprehensive solution for the customer's mission and met a multitude of requirements including tailored Kit design, development, and integration. Customer's confidence in SealingTech grew, thus increasing the scope of the contract; the contract ceiling increased, and the period of performance was extended.

US Army

PROBLEM The US Army needed a customized mobile compute-and-data-storage system with a virtualized software deployable platform that would provide rapid global deployment of virtualized cybersecurity tools.

CAPABILITY SealingTech developed the US Army's [Deployable Defensive Cyber Operations System – Modular Version 2](#) (DDS-Mv2). As part of the \$9.6M fixed price contract, SealingTech designed a customized mobile compute-and-data-storage system with a virtualized software deployable platform that would provide rapid global deployment of virtualized cybersecurity tools.

SOLUTION The DDS-Mv2 program today supports Cyber Protection Teams' suite of DCO platforms and tools. The program delivers a highly modular and scalable solution that allows the warfighter to conduct DCO missions anywhere in the world. Its reduced form factor and enhanced compute and storage provide robust performance, high scalability, and maximum portability—essential elements in maintaining positive control of the DDS-Mv2 while ensuring maximum functionality.

The DDS-Mv2 Kits developed by SealingTech deliver up to 10 gigabits per second of compute and storage resources needed to host an array of virtualized tools across multiple theaters of operation.



SealingTech CFLAKs enabled the US Coast Guard with a mobile, resilient solution to secure maritime networks and critical infrastructure against cyber threats.

US Coast Guard

PROBLEM The US Coast Guard faced challenges with having to endure limited, portable cyber tools incapable of rapidly deploy to secure ports, vessels, and remote maritime locations.

CAPABILITY SealingTech's Cyber-Fly-Away Kits (CFLAK) solved these issues by providing rugged, quickly deployable technology equipped for harsh, disconnected conditions. With advanced threat detection, monitoring, and secure communication capabilities.

SealingTech CFLAKs enabled the US Coast Guard with a mobile, resilient solution to secure maritime networks and critical infrastructure against cyber threats. Designed for rapid deployment in severe environments, SealingTech CFLAKs provided their cyber protection teams (CPTs) with advanced threat detection, secure communication tools, and incident response capabilities.

SOLUTION SealingTech CFLAKs allowed the Coast Guard to respond rapidly to cyber threats, ensuring operational security even in austere operational technology (OT) environments. Whether deployed to ports, aboard vessels, or in remote areas, SealingTech CFLAKs enabled real-time monitoring and protection of networked systems, ensuring that the Coast Guard could quickly respond to cyber incidents and mitigate risks to maritime safety and security. With modular hardware and integrated cyber defense software, these Kits strengthened the Coast Guard's ability to adapt and respond effectively across a wide range of cyber missions.

With modular hardware and integrated cyber defense software, these Kits strengthened the Coast Guard's ability to adapt and respond effectively across a wide range of cyber missions.



DoD Agency

PROBLEM A DoD agency required the development of a lightweight, fly-away portable kit configured with high-end systems, pre-loaded with next generation cybersecurity technologies, and software designed to conduct assessments of military and Federal installations.

The mobile toolkit needed to consist of specialized security toolsets that would enhance mission capabilities by performing on-demand network and vulnerability assessments, digital forensics, finger printing, network traffic analysis, full packet capture (PCAP) and session replay, security information, and event management for real-time analysis of correlated data captures.

CAPABILITY SealingTech provided a ruggedized Small Form Factor Fly-Away Kit with specs that met the agency's hardware requirements. The company also supplied active and passive toolsets for cyber operators to perform in-depth analysis of network data traffic to identify potential vulnerabilities and prevent exploitations from malicious actors.

SOLUTION SealingTech's advanced analytic tools allowed teams to ingest and analyze packet capture data on the fly. It also allowed for fingerprinting and mapping network topology in order to build out a comprehensive threat picture and identify vulnerabilities within their system.

A True Mission Partner

With 12+ years of supporting Federal Government contracts, SealingTech has delivered 500+ Cyber-Fly-Away Kits to multiple customers in several high visibility missions that directly contributed to the national security. The company's contracts have grown and been extended as a testament to the US Government's trust in SealingTech's superior products. Today, SealingTech servers are fielded across various branches of the military enabling standardization of its high-level Cyber-Fly-Away Kits.

The company continues to develop purpose-built products that ingest on-going cybersecurity threats and inform its engineering, design, and test pipeline to rapidly prototype products that push the mission forward.

SealingTech remains committed to the US Government's mission and strives to do everything in its power to help in the DoD's success and protection of the nation and allied partners.

See why SealingTech is the DoD's platform of choice. [Learn more.](#)



CONTACT US

✉ info@sealingtech.com

🌐 www.sealingtech.com

☎ (443) 542-0040

