

# ALL-FLASH DATA INSIGHTS AT THE EDGE



## INTELLIGENCE AT THE EDGE IS MISSION-CRITICAL

Edge computing platforms must rapidly ingest and process data to accelerate time to insight for military personnel who rely on real-time data for mission-critical decision making. Limited by legacy storage architectures and costly all-flash solutions, defense systems struggle to deliver the performance and scale required for high-performance edge computing. These challenges are heightened especially in harsh remote environments on land, at sea, in the air, or in space.

## RUGGEDIZING UNIVERSAL STORAGE FOR MISSION SUCCESS

Mercury Systems and VAST Data have collaborated to build a rugged, high-performance storage solution for edge-based data capture and AI computing in military and defense operations. Optimized for the defense industry's size, weight, and power (SWaP) requirements, the Mercury-VAST system delivers the ultimate in datacenter class, exabyte-scale network-attached storage (NAS) and empowers users to respond rapidly to national security situations in the harshest, most remote environments.

## RUGGED, HIGH-PERFORMANCE UNIVERSAL STORAGE AT THE EDGE

### BENEFITS OF VAST FEDERAL AND MERCURY

#### Easy to Use and Manage

all-flash edge infrastructure: the performance and scalability of a parallel file system with the simplicity of NAS.

#### Accelerated AI training

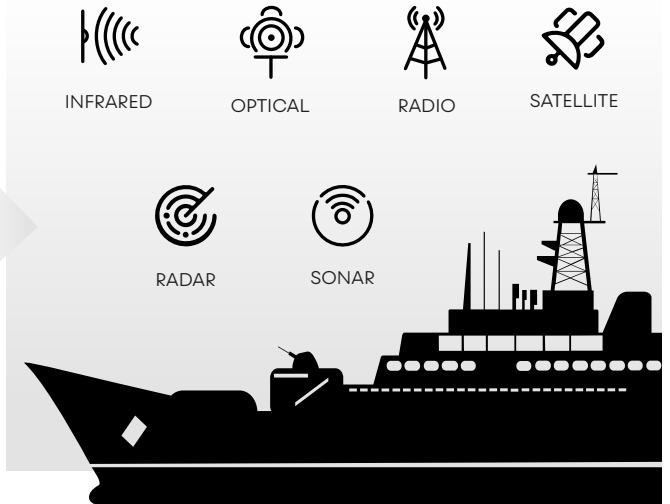
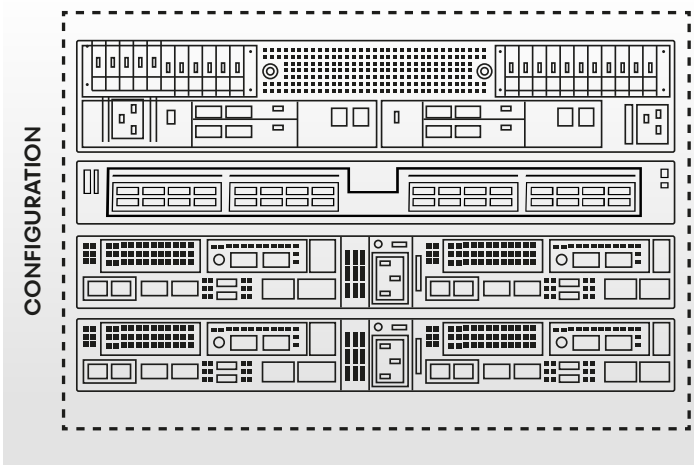
and inference time to keep pace with evolving AI systems and complex algorithms.

#### Exabyte-scale infrastructure

for 1/10 the cost of traditional flash storage.

#### Ruggedized, Field-Proven

solutions with built-in data redundancy for high-reliability.



## ALL-FLASH UNIVERSAL STORAGE FOR MISSION-CRITICAL EDGE WORKLOADS



### ACCELERATED AI.

Consolidated data within a turnkey, petabyte-scale flash tier unlocks previously impossible insights to enable real-time decisions.



### SENSOR INGEST AND PROCESSING.

High-performance edge ingest, storage, and processing for growing data loads in land, sea, aerospace, and subsurface platforms.



### BACKUP AND RESTORE.

Accelerated edge dataset backups with rapid recovery of mission-critical data and applications.



### BIG DATA ANALYTICS.

A single platform for all your big data ecosystem components to minimize complexity and process data at any scale.

## PROVEN SOLUTIONS FOR ADVANCED APPLICATIONS



LAND



SEA



AEROSPACE



SUBSURFACE

## ABOUT VAST FEDERAL

VAST Federal, a subsidiary of VAST Data headquartered in Vienna, Virginia, helps the federal government modernize data center infrastructure with a unified all-flash platform called VAST Universal Storage. VAST unlocks the value of data and modernizes data centers in preparation for the era of AI computing. VAST delivers real-time performance to all data and overcomes the historic cost barriers to building all-flash data centers. VAST Federal's broad understanding of U.S. government contracts, security requirements, and architectural needs for real-time analytics models brings a new approach to the era of AI computing.

**VAST**  
FEDERAL

## ABOUT MERCURY SYSTEMS

Mercury Systems is a leading global commercial technology company serving the aerospace and defense industry, positioned at the intersection of high-tech and defense. Headquartered in Andover, Mass., Mercury delivers solutions that power a broad range of aerospace and defense programs, optimized for mission success in some of the most challenging and demanding environments. Mercury envisions, creates and delivers innovative technology solutions purpose-built to meet customers' most-pressing high-tech needs, including those specific to the defense community. Inspired by its purpose of delivering Innovation that Matters, By and For People Who Matter, Mercury helps make the world a safer, more secure place for all. To learn more, visit [mrcy.com](https://mrcy.com)

**mercury**

