



Securing Mission Data

February 2025

Cigent Overview



Protects **mission data**
with integrated Secure
Storage Solutions
providing layered
protection

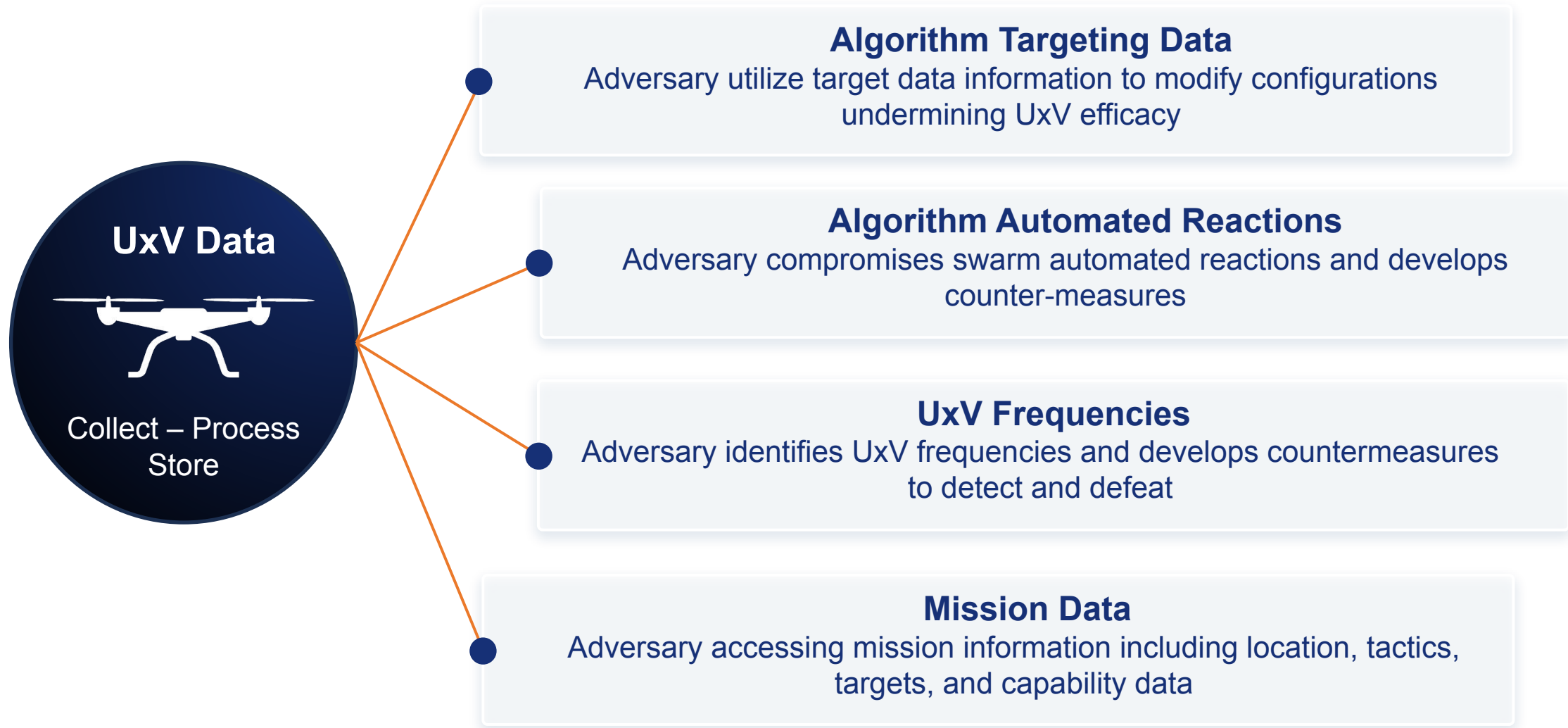
- Capabilities developed for and with top Federal agencies
- Integrated hardware and software solution
- Extensive coverage including PCs, Servers, External Media, UxV, and OT/ICS
- Protection for data at rest, when device is in use, and end of life sanitization
- Extensive ecosystem of integrations with leading suppliers

Cigent Data Expertise

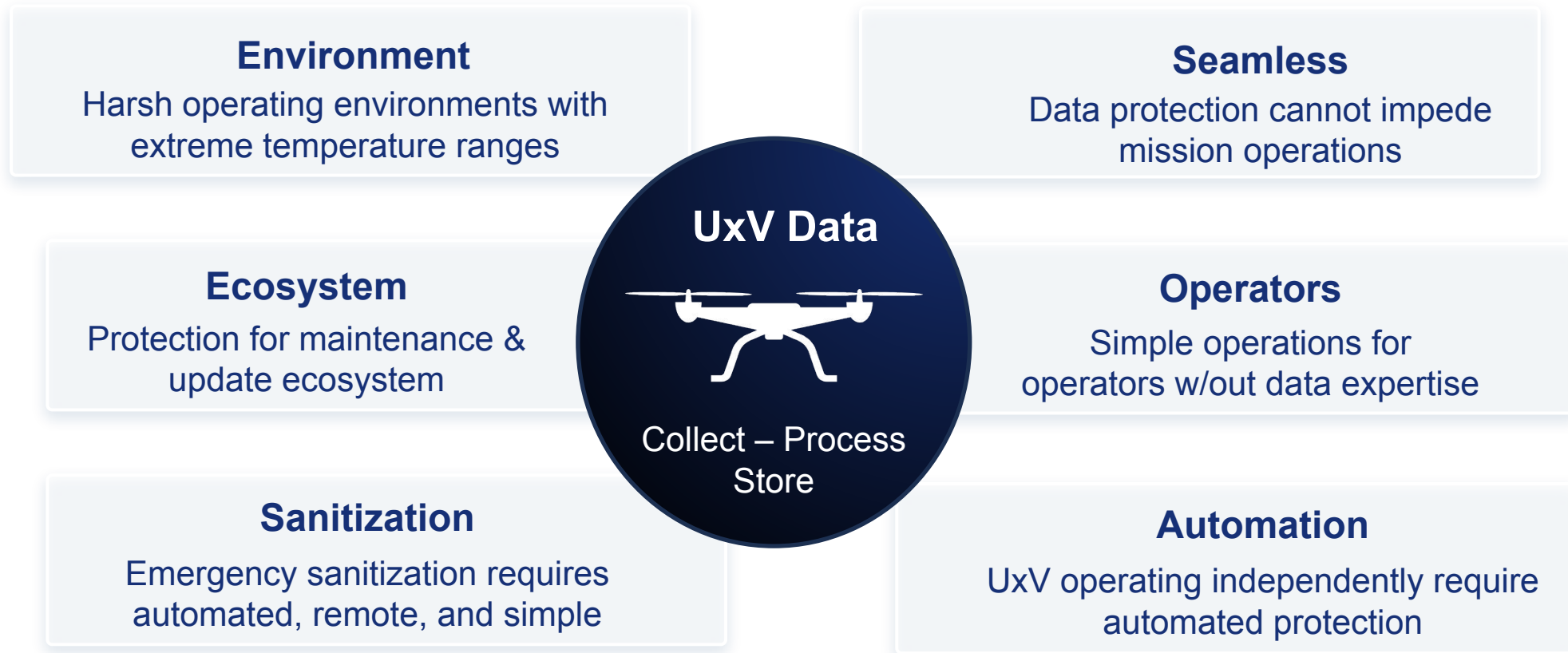
- Decades of Operational Experience with USAF and NSA
- 37 Years of USG Data Recovery and Destruction Contract Work
- Most advanced data recovery lab in US
- Cleared personnel with TS/SCI
- US based firm - US-based software development
- IQT & US DOD Phase I and Phase II SBIRs completed contracts (Phase III IDIQ in process)



Impact of UxV Data Loss



Challenge of UxV Data Protection



The Cigent Mission

Securing UxV Mission Data

Protect Data at Rest

Critical Data Protection

Insider Threat Mitigation

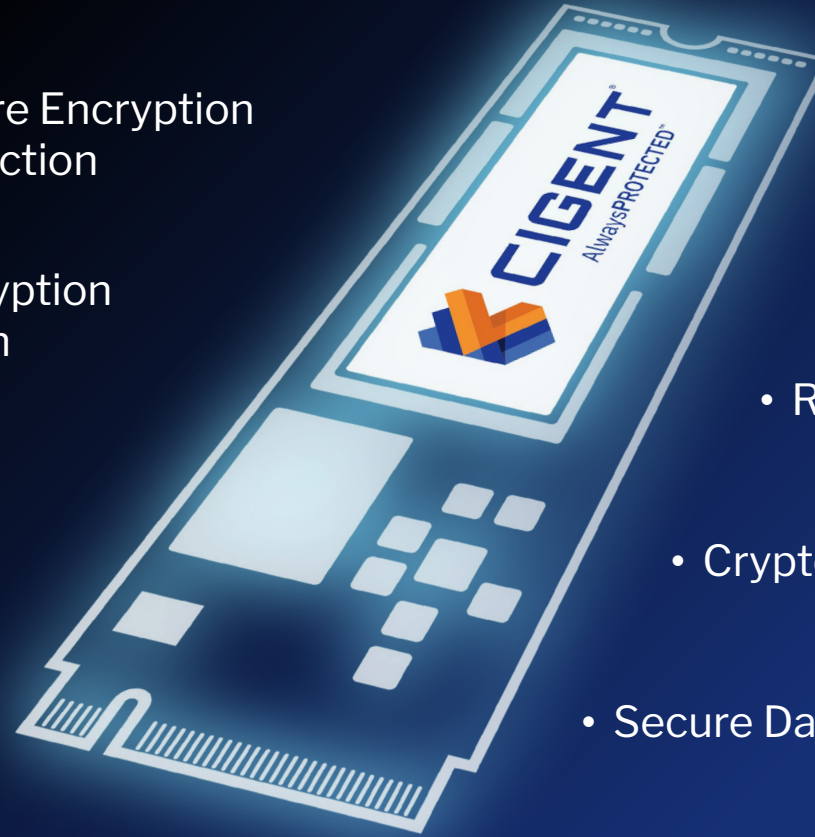
Data Sanitization

Ecosystem Protection

Fury (AAV)
AUTONOMOUS AIR
VEHICLE

Cigent Secure Storage Capabilities

- Full Drive Hardware Encryption
- outer layer protection
- Full Drive Software Encryption
- inner layer of protection
- File Encryption
- third layer
- Pre-boot Authentication
- Multifactor Authentication



- Hidden Partitions
- Granular Access Control
- Read-only environments
- Crypto & Block Erase | Verified Drive Sanitization
- Secure Data Access Logs

10 Patents Awarded, 5 Patents Pending

**ONLY SOLUTION WITH
INTEGRATED HARDWARE &
SOFTWARE CAPABILITIES**

Portfolio to Support UxV Requirements

M.2 2230

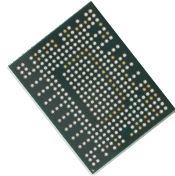


NIAP FDE_EE+AA
Security Target 1.0
document complete

NIAP check-in mid
February

CSfC DAR
estimated Aug 25

SSD BGA



NIST FIPS CAVP for PBA
Software (Cert A4388)

CSfC DAR Capability
Package 5.0 for PBA
Authorization Acquisition

Micro SD

Picture

USB: FIPS197 certifiable
w/ AES ECB and CBC

SD/uSD: FIPS197
certifiable w/ AES ECB,
CBC and XT

U.2

Picture

USB: FIPS197
certifiable w/ AES ECB
and CBC

SD/uSD: FIPS197
certifiable w/ AES ECB,
CBC and XT

Comprehensive UxV Ecosystem Data Protection

Cigent Secure Storage

UxV



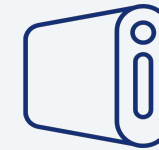
Mission information, targets, ap code, algorithms, classified data

Data



Critical data across devices – adversary exploit any weakness to exfiltrate, tamper, erase

Ext Media



Transfer algorithms and software updates

C2 Laptops



Field data analysis, new algorithm creation

Rugged Laptops



UxV field management – firmware, config updates, etc.

Handhelds



UxV operations with mission data and connections

Back-up

Securing UxV Mission Data

Protect data at rest, in use and end of life

Update key themes?

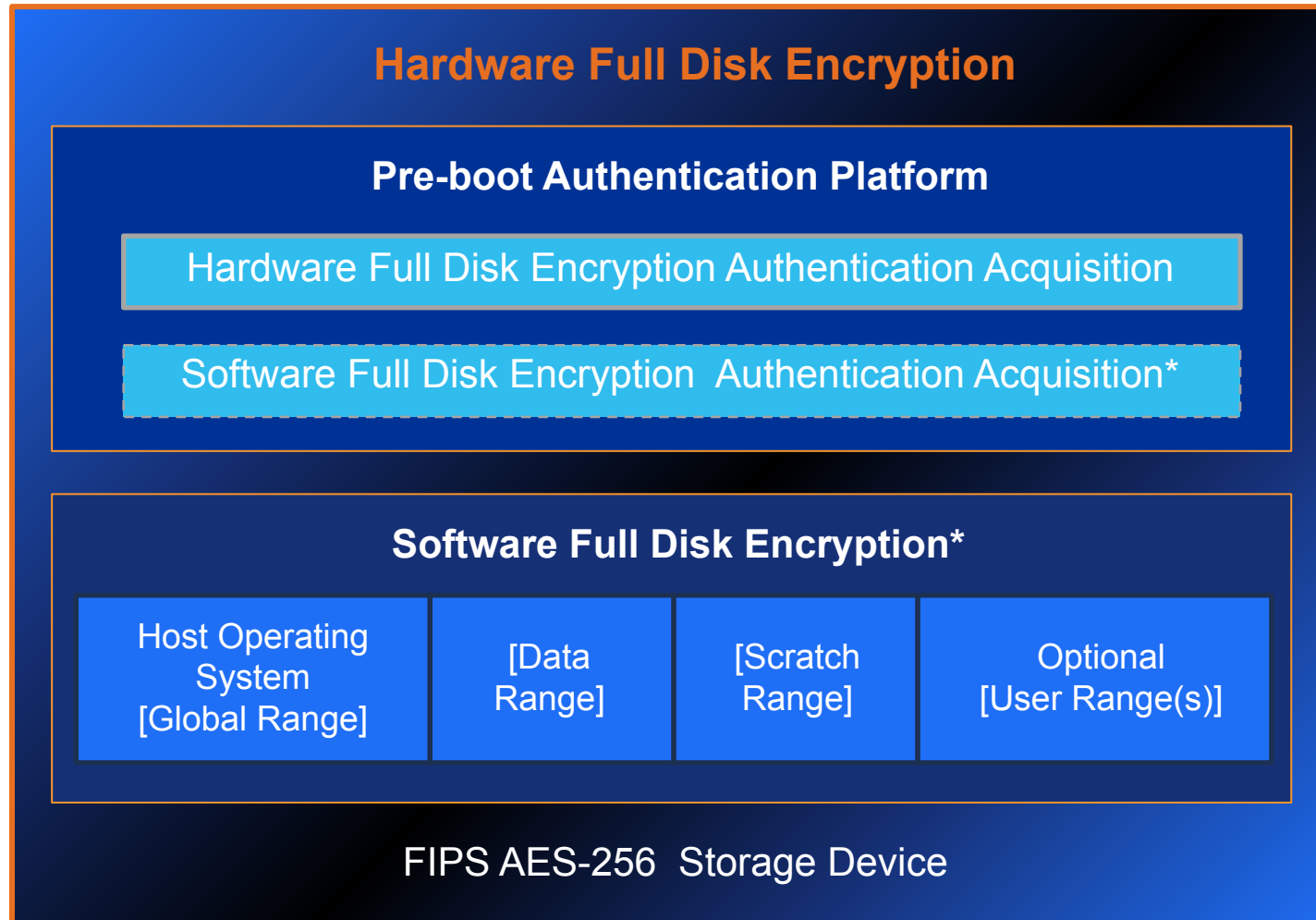
Integrated , Layered Protection

- Three layers of encryption, PBA, and MFA
- Keeps data secret with hardware-based, hidden partitions
- Insider threat detection, tracking, & prevention utilizing secured data logs
- Device sanitization with automated emergency data erasure and verification

Mission-Centric Organization

- Operational experienced data experts with clearance
- US-based, “made in America” software development
- Simple procurement with ecosystem of FSI and OEM device partners including Dell and HP
- Mission-specific custom software and firmware capabilities

Cigent Secure Storage Solution Architecture



- All primary storage ranges locked
- Shadow partition running Linux + Cigent PBA software
- All data encrypted on drive (protects against direct physical attacks)
- Range 0 locks all drive including “sub-ranges”
- Range 1, 2... (up to 8 unique and individual)
- Admin User and End User auths
- SSD firmware improvements to meet FIPS, NIAP CC FDE_EE, CSfC are activated by Cigent software

*Software Full Disk Encryption Under Development (target Q1 GA)

Cigent Capabilities

Mission-centric Organization

- Vertical integration with single hardware & software solution for data protection
- Keeps data protected with three-layers of encryption with PBA and MFA
- Enterprise management for efficient administration at scale
- Ecosystem of SI and device OEM partners for efficient procurement and support
- Team of US-based data protection experts with security clearance

Cigent Customers

US Federal Government



Federal System Integrators



Recent Cigent Projects

Looks OK. Planning to use...



**DISA WINDAR
with AT&T BPA**



**USAEUR FIPS
Drives**



**MSTIC OTA for OT
DAR Solutions**



**Manned & Unmanned
(Replicator) Vehicle
Projects**



**Flyaway Kits and
Edge Data Centers**



**Overseas Travelers
Data Security**

