



walacor
A NEW ERA OF TRUST
DATA INTEGRITY | CYBER RESILIENCE | DATA PROTECTION

ABOUT WALACOR
Walacor provides a mission-critical data platform with trust and integrity at its core. Leveraging immutability, availability, and per-tern encryption to protect information. Designed for zero-trust environments, Walacor's open-centric platform strengthens cost-effective data governance, integrity, and privacy for national defense. Built for scalability, interoperability, and high performance, Walacor operates at both the data and S3 storage layers, aligning with military initiatives for adaptable, secure solutions. Supporting all data types across cloud, on-premises, and hybrid environments, Walacor enables secure data growth, cost-efficiency, and operational readiness for command and control.

Current "Best Practice"
The data stack has grown more complex to keep pace with evolving mission demands, increasing surface area, necessary skills and cost while decreasing data integrity.

Walacor
Walacor redefines the data storage paradigm to reduce cost and complexity while strengthening data integrity for mission-critical operations.

KEY FEATURES OF THE WALACOR PLATFORM

- Quantum-Resistant Encryption:** Every submission is encrypted with a unique key that exceeds NIST Top Secret standards in an integrated, choice-on-control.
- Available Data Immutability:** Data control at ingestion with emergency detection and immutable logging to prevent alteration, exfiltration and reduced decision-making.
- More Data Health:** Always-on data provenance enables agencies to demonstrate compliance with regulatory requirements and security standards and controls.
- Trusted Data Flowing:** Data exchange is seamless, and in high-stakes environments, comprehensive logging provides end-to-end chain-of-custody control.
- Resilience and Disaster Recovery:** Built-in replication strengthens resilience in DDoS environments reducing data loss risk and minimizes disruption to critical processes.
- Flexible, Rapid Engagement and Cost Effective:** Environment agnostic, the Walacor Platform works from edge to cloud, on-premises, or hybrid. Integration is done through a flexible REST API, Walacor works at any scale, with the most demanding applications.

FEATURED USE CASES OF THE WALACOR PLATFORM

- Data Resilience/Intelligence for Adversity:** Alerts at ingestion with emergency detection and immutable logging to prevent tampering and protect autonomous decision-making.
- Trusted AI:** Capture trusted data through immutable logs and secure logging, ensuring data integrity and protecting autonomous decision-making in high-stakes operations.
- Digital Tiers and Edge Node Security:** Secure digital twins, preserving data fidelity and access in decentralized and disconnected operations.
- Data Sovereignty:** Enforces data sovereignty with comprehensive edge-to-cloud integrity controls, blocking unauthorized access from admins and insiders.

About Walacor

Thank you for downloading this Walacor white paper. Carahsoft is the master government aggregator and distributor for Walacor Cybersecurity solutions available via NASA SEWP V, NJSBA, The Quilt and other contract vehicles.

To learn how to take the next step toward acquiring Walacor's solutions, please check out the following resources and information:



For additional resources:
carah.io/WalacorResources



For additional news:
carah.io/WalacorNews



For additional Walacor solutions:
carah.io/WalacorSolutions



For additional Cybersecurity solutions:
carah.io/CybersecuritySolutions



To set up a meeting:
Walacor@carahsoft.com
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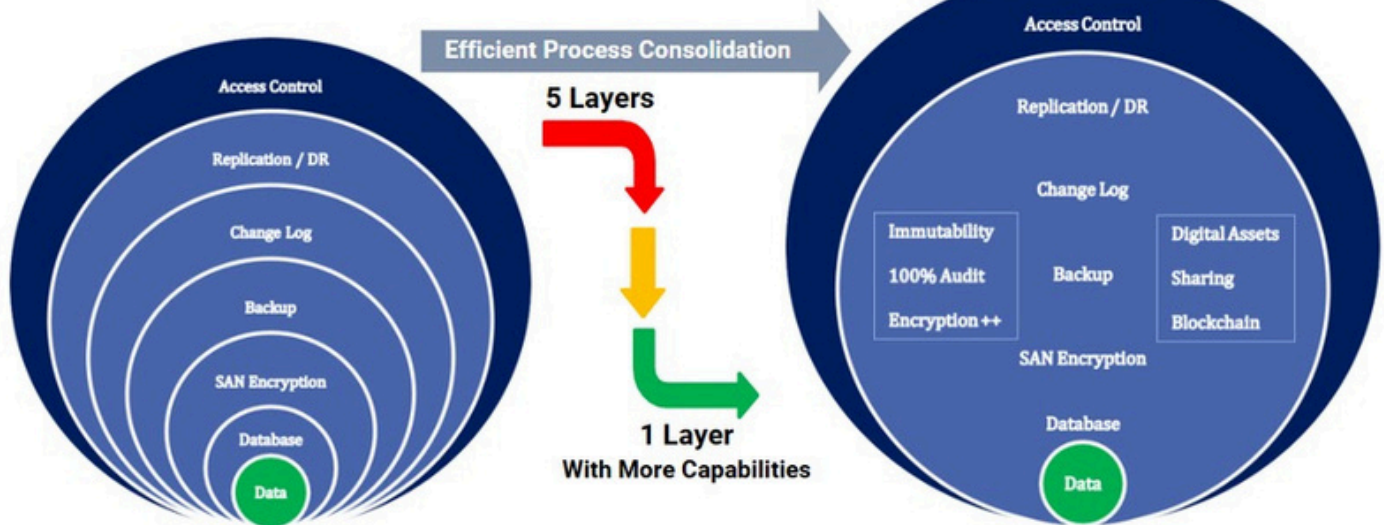
To purchase, check out the contract vehicles available for procurement:
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For more information, contact Carahsoft or our reseller partners:
Walacor@carahsoft.com | 888-662-2724



ABOUT WALACOR

Walacor provides a mission-critical data platform with trust and integrity at its core. Leveraging **immutability**, **auditability**, and per item encryption to protect information. Designed for Zero-Trust environments, Walacor's data-centric platform strengthens cost-effective data governance, integrity, and privacy for national defense. Built for scalability, interoperability, and high performance, Walacor operates at both the data and S3 storage layers, aligning with military initiatives for adaptable, secure solutions. Supporting all data types across cloud, on-premises, and hybrid environments, Walacor enables secure data growth, cost-efficiency, and operational readiness for command and control.



Current "Best Practice"

The data stack has grown more complex to keep pace with evolving mission demands. Increasing surface area, necessary skills and costs while decreasing data integrity.

Walacor

Walacor redefines the data storage paradigm to reduce cost and complexity while strengthening data integrity for mission-critical operations.

KEY FEATURES OF THE WALACOR PLATFORM

- **Quantum-Resistant Encryption** - Every submission is encrypted with a unique-key that exceeds NIST Top Secret standards in an integrated, always-on posture.
- **Detectable Data Immutability** - Data cannot be altered or deleted without detection. Every data change is tracked for **situational awareness** and **secured decision-making**.
- **100% Data Audit** - Always-on data provenance enables agencies to demonstrate compliance with regulatory requirements and security standards and controls.
- **Trusted Data Sharing** - Data exchange is seamless, and in **high-stakes environments**, comprehensive logging provides **end-to-end chain-of-custody control**.
- **Replication and Disaster Recovery** - Built-in replication strengthens resilience in **DDIL** environments reducing data loss risk and minimizes disruption to critical processes.
- **Flexible, Rapid Deployment and Cost Effective** - Environment agnostic, the Walacor Platform works from edge to cloud, on-premise, or hybrid. Integration is done through a flexible REST API. Walacor works at any scale, with the most demanding applications.

FEATURED USE CASES OF THE WALACOR PLATFORM

- **Data Poisoning Mitigation for AI/ML** - Shields AI applications with **anomaly detection** and immutable logging to prevent tampering and protect **autonomous decision-making**.
- **Trusted AI** - Delivers trusted data through immutable data and secure logging, ensuring **data integrity** and protecting autonomous decision-making in high-stakes operations.
- **Digital Twin and Edge Node Security** - Secures digital twins, preserving data fidelity and access in decentralized and disconnected operations.
- **Data Sovereignty** - Enhances data sovereignty with comprehensive edge-to-cloud integrity controls, blocking unauthorized access from admins and insiders.

COMPANY OVERVIEW

Walacor has engineered a secure, quantum-resistant data platform that ensures **per-item encryption**, data auditability, and detectable immutability at the element, record, or file level. Designed for **Zero-Trust environments**, Walacor's data-centric architecture enhances data governance, visibility, and interoperability—including **S3 storage integrations**—while operating as a secure data layer across cloud, on-premises, or hybrid infrastructures. Built for scalability and simplicity, the Walacor Platform supports any data type in high-stakes settings, enabling resilient, cost-effective data growth and **reinforcing trust, operational readiness, and security**.

DIFFERENTIATORS

- **Detectable Data Immutability:** Data cannot be altered or deleted without detection, ensuring operational integrity and trust.
- **100% Data Audit and Logging:** Comprehensive data provenance is maintained on every change, enabling agencies to meet regulatory compliance and strict security controls.
- **Quantum-Resistant Encryption:** A unique encryption key per item which exceeds NIST standards, offering integrated, always-on quantum-resistant protection for every submission.
- **Trusted Sharing:** Secure data exchange with comprehensive logging builds end-to-end chain-of-custody control for high-stakes environments.
- **Replication and Disaster Recovery:** Built-in replication safeguards data integrity and ensures continuity in the event of ransomware attacks.
- **Zero Trust Integration:** Designed with NIST Zero Trust principles and isolates compromised systems without halting operations.
- **Flexible, Rapid Deployment and Cost Effective:** Deploys across edge, cloud, on-prem, or hybrid, REST API makes integration simple and fast, and scales to handle large, high-demand data workloads

PAST PERFORMANCE

- D2P2 SIBR Army for "Sensor Data Security and Integrity"
- Digital Twin, NIAR
- Zero Trust, Available Infrastructure

CORE COMPETENCIES

The Walacor Platform is a secure, mission-critical data storage and integrity solution that features:

- **End-to-end data provenance:** Enables 100% traceability, upholding data trust across all federal and mission-driven applications, in compliance with **Executive Order 14110** on "The Safe, Secure, and Trustworthy Development and Use of AI."
- **Immutable data storage with continuous audit and logging:** Safeguards data integrity for high-stakes operations, aligning with **EO 14028** on "Improving the Nation's Cybersecurity."
- **Tamper-proof event logging:** Leverages distributed ledger technology for rapid threat detection and response, supporting **M-21-31** on "Improving the Federal Government's Investigative and Remediation Capabilities Related to Cybersecurity Incidents."
- **Quantum-resistant encryption:** Ensures evolving security standards are met with a quantum-resistant approach, aligning with **M-23-02** on "Migrating to Post-Quantum Cryptography."
- **Zero-Trust secure data layer:** Establishes a resilient foundation for data protection and governance, consistent with **M-22-09** on "Moving the U.S. Government Toward Zero Trust Cybersecurity Principles."

With Walacor, agencies can confidently enforce data security controls, establish a Zero-Trust data layer, and ensure data is accurate and accessible for operational readiness.

OPERATIONAL VISUALIZATIONS

OVI'S

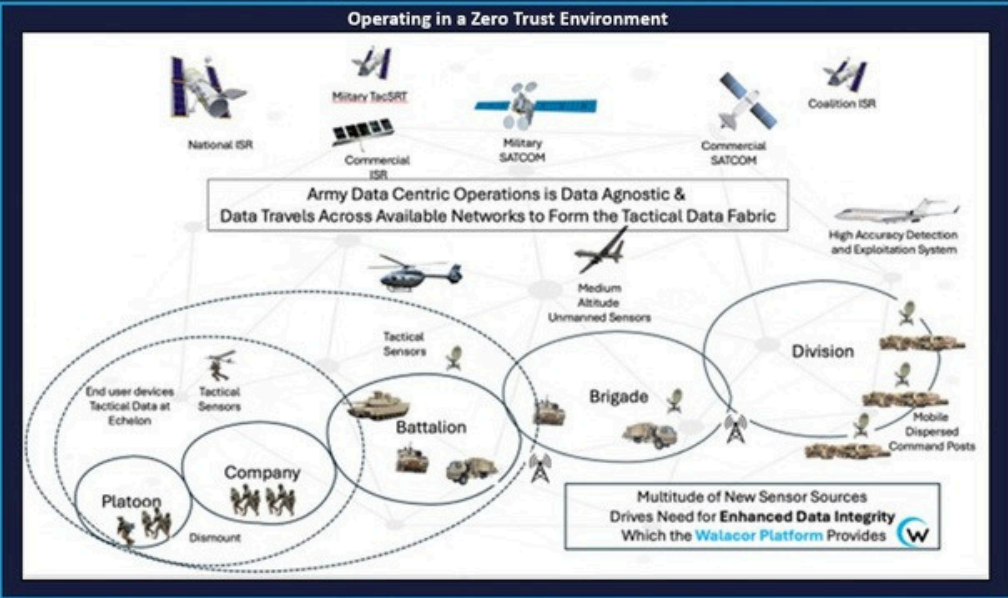


Data-Centric Operations for Contested Environments

Walacor drives secure, resilient, and data-centric operations, providing military operations with trusted data integrity for decision-making in contested environments

VAULTIS
Supporting Army Data Integrity & Interoperability

- ❖ Visible
- ❖ Accessible
- ❖ Understandable
- ❖ Linked
- ❖ Trustworthy
- ❖ Interoperable
- ❖ Secure

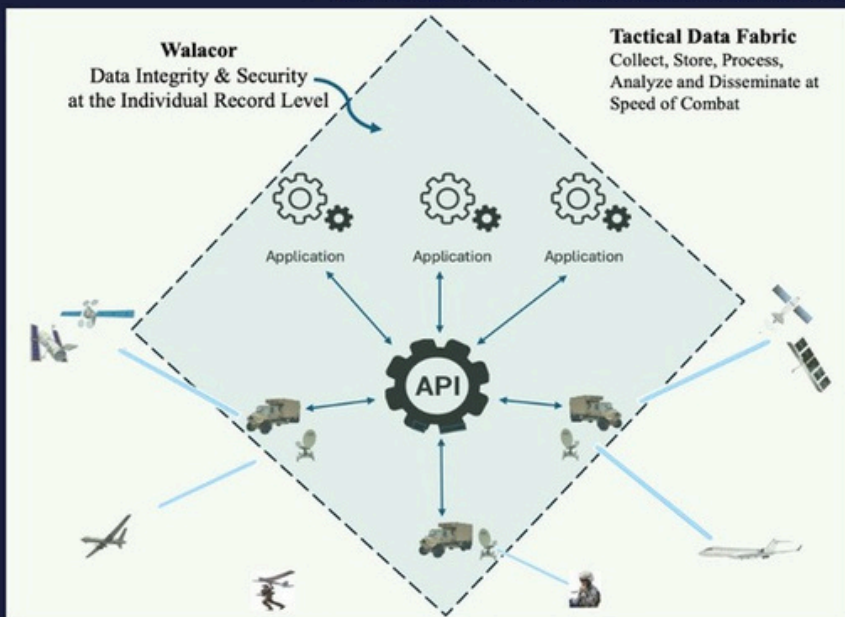


Key Capabilities
Enabled by Walacor's Trust Platform

- ❖ Resilience
- ❖ Persistence
- ❖ Situational Awareness
- ❖ RSTA (Reconnaissance Surveillance, and Target Acquisition)

Machine Learning SecureOps

- **Data Labeling:** Ensuring data integrity for training.
- **Data Provenance:** Maintaining an immutable chain of custody.
- **Inference Security:** Securing ML models during operation.
- **Zero Trust:** Reinforcing the zero-trust framework throughout.



Walacor is in the process of developing, testing, and demonstrating the means to secure sensor data at the individual record level, from initial processing through end-use application.

Walacor platform enables **VAULTIS**:

- Visible
- Accessible
- Understandable
- Linked
- Trustworthy
- Interoperable
- Secure

Figure 2: Walacor provides secure data and integrity across Joint Services with sharing.

COMPANY INFORMATION

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Certifications: CMMC2.0
Contract Vehicles: NASA SEWP, ITES, NASPO, OMNIA, QUILT, GSA, CPO 83 RDT&E, CPO 80 O&M
Business Size: Small Business