



Data **Integrity** | Cyber **Resiliency** | Data **Protection**

# A NEW ERA OF TRUST

## The Problem:

Organizations and government struggle in their mission to maintain the accuracy and reliability of data across complex and hybrid systems, risking critical decision-making on potentially compromised information. The integrity of data is under constant threat from sophisticated cyber attacks, system malfunctions, and human error, which can disrupt business operations and hurt revenue and the costs of storage and compute are rising exponentially.

## The Solution:

Walacor solves this problem with our next generation secure data platform that guarantees **DATA INTEGRITY** and sovereignty through detectable immutability, unique encryption keys, and chain of custody.

In an era where data is the most valuable asset, and AI is reshaping our analytical landscape, Walacor provides a guaranteed data store with built-in integrity. **With Walacor, you can harness the power of data and AI with confidence, ensuring every decision is informed by data you can TRUST while reducing COSTs dramatically.**

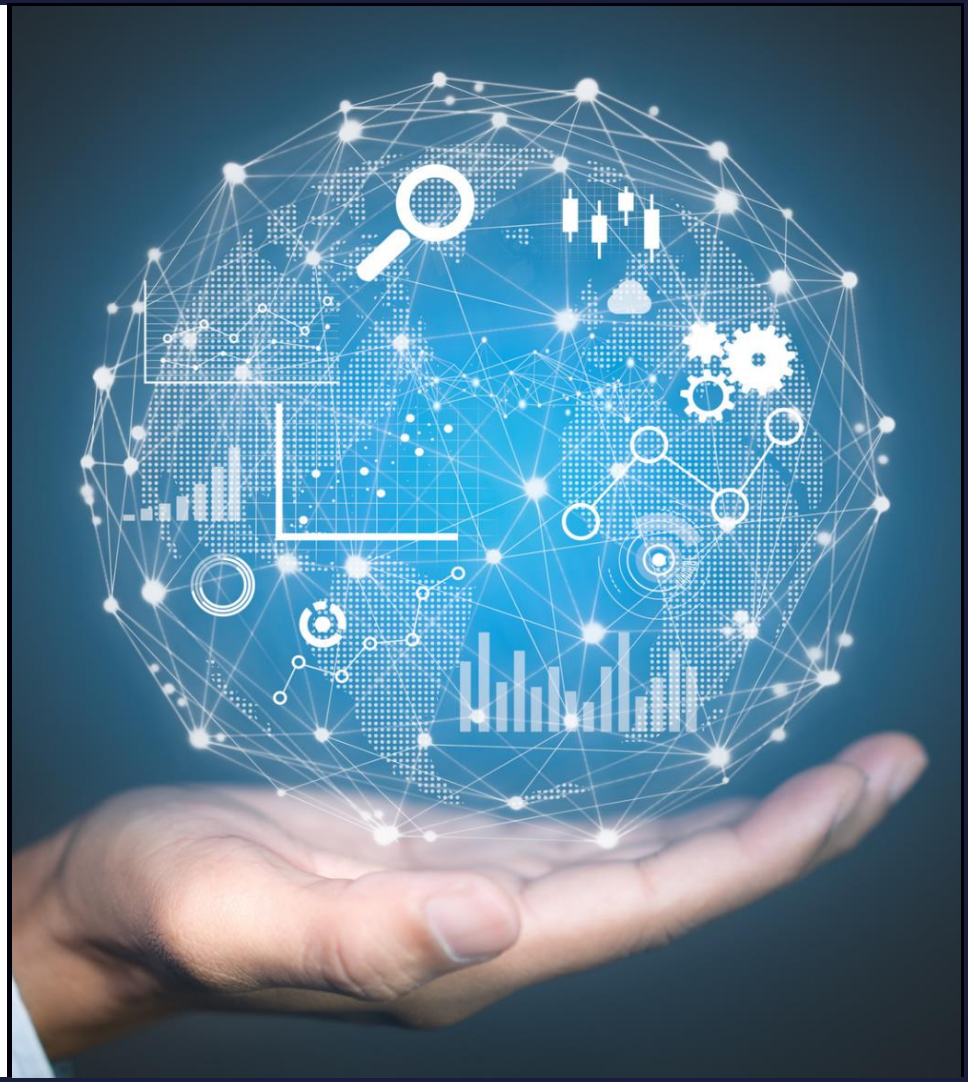
“The Achilles heel of the Hybrid Space Architecture is data integrity.”  
-United States Space Force Lt. General Michael Guetlein



## Risks to AI and ML Systems

### A threat to data is a threat to AI & ML Ops trust and operation

- The Risks: training data integrity, **data poisoning**, AI model integrity, stealing model parameters (model extraction).
- Tampering with security policy is global system problem. **ZT policies must be tamper-proof.**
- Potentially disastrous consequences in areas like autonomous weapon systems, logistics management, and cyberwarfare.
- **Walacor partners with Mission Partners** to integrate Blockchain with MLSecOps and unlocks new possibilities for secure transparent and decentralized machine learning.



# Why Walacor?

## PERSISTENT DATA INTEGRITY

The **Trust** First Secure Data Platform

Confidence in Every **Byte**

**Only Walacor** Guarantees Data Integrity with  
Provable Immutability at the Data Element Level



# Key Differentiators

## **The Walacor Platform uniquely provides in one solution:**

- ✓ Trust that you are making decisions based on valid data
- ✓ Always-on, record-level quantum-resistant encryption
- ✓ End-to-end chain of custody control for auditable data provenance
- ✓ Detectably immutable data storage, audit, and logging
- ✓ Tamper-proof event logging based on distributed ledger technology
- ✓ Zero Trust secure data layer architecture
- ✓ Broad interoperability
- ✓ Customer data sovereignty
- ✓ Built in deduplication & reduction of significant costs
- ✓ Next-generation ransomware and cyber attack resilience

# A New Era of Trust

The Walacor Platform is a **secure data management platform** that solves these problems and enables you to **trust your data** by defending against threats **both inside and outside of a data store** and reduces risk to your Enterprise.

- |   |   |
|---|---|
| <ul style="list-style-type: none"><li>• Guaranteed <b>persistent data integrity</b></li><li>• <b>Always-on encrypted data platform, cannot be turned off</b></li><li>• Natively <b>quantum-resistant</b>, AES 256, able to adopt quickly</li><li>• Data element, record, or object store-level encryption <b>with unique keys</b></li></ul> | <ul style="list-style-type: none"><li>• Enables rapid <b>detection</b> of unauthorized alteration or deletion of data</li><li>• Embeds an <b>immutable, auditable</b> chain of custody into the data lifecycle</li><li>• Provides for <b>data sovereignty</b></li><li>• Broad <b>interoperability</b> with existing systems. Massively <b>scalable</b>. Ease of use</li></ul> |
|---|---|

**Walacor is the foundational data layer for a Zero Trust environment**

*The Walacor Platform provides the Wall Around your Core data*

# Walacor: A Defense Forward, Dual Use Secure Data Company

## Our Purpose

Walacor exists to protect the lifeblood of national security – **data** – at the **data element** level.

Walacor's software platform provides a **foundational data trust layer** to ensure critical systems operate securely, without compromise.

Walacor ensures **every byte of data**, no matter where it is stored or how it's accessed, is authentic and untouchable.

## Why Trust in Data Matters

### Trust Enables National Security

Without secure, untampered data, operational readiness and mission success are impossible

### Data Integrity: the Next Battlefield

Warfare is now waged in cyberspace and via AI, where data manipulation can cripple systems and compromise lives.

### Zero Trust Cybersecurity Demands Data Integrity at the Foundational Level

"Zero Trust" is the new standard for cybersecurity. But to work, it needs to be applied at the **data element level**\*.

\* Data element = the smallest unit of information, representing a single piece of data, within a database



# The Walacor Team: Proven Expertise in Data Integrity



**Walter Hancock**  
Co-Founder, CEO & CTO



**Lara George**  
Co-Founder, President



**Rob Zitz**  
Head of Government

We have built and delivered technology platforms and solutions for the Fortune 500 and are leaders in Guaranteed Data Integrity.



NGA, NRO,  
CIA, DHS



J.P.Morgan

Founders' experience includes  
executing projects for:



## Advisory Board (Partial)

**Charlene Leubecker**  
Cyber Thought Leader

CIA

**Chris Perretta**  
Financial Services

State Street, GE Capital

**Bob Gourley**  
Quantum Thought Leader

DIA

**Touchstone Futures**  
Army

Retired Generals & Cyber



# The Problem

## Ensuring data integrity – at the data element level



Data Integrity, Not  
Cyber Attacks, Are What  
Most Worry Space  
Command's Cyber Boss



Oct. 24, 2024 | By Shaun Waterman

AIR & SPACE FORCES  
MAGAZINE



ALL DOMAIN, LAND WARFARE, NETWORKS & DIGITAL WARFARE

**'Poisoned' data could wreck AIs in wartime, warns  
Army software acquisition chief**

BREAKING  
DEFENSE

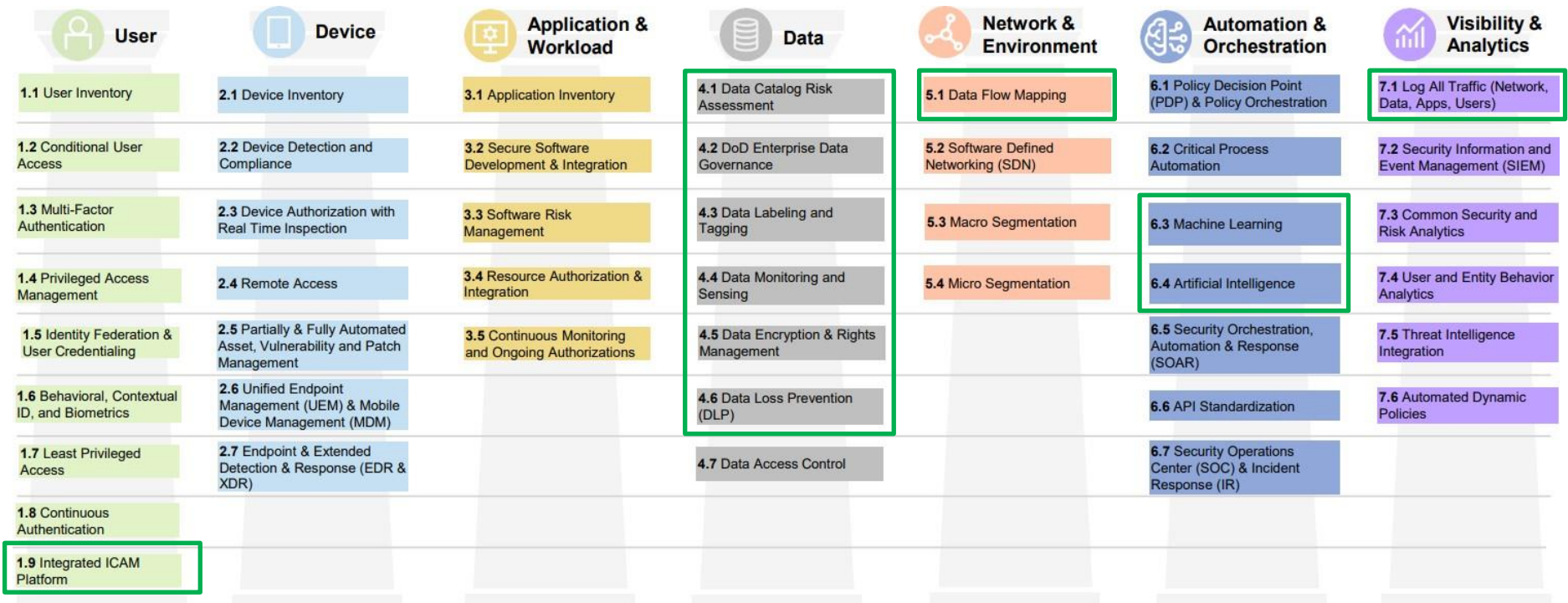


"If our adversary can **poison** our data, we're going to start getting the **wrong information back out from our artificial intelligence**. It's going to say, 'Day is night, night is day. Black is white, white is black.'

- Paul Blahusch, CISO, Department of Labor.

# Walacor Solves The Zero-Trust Secure Data Layer Problem Horizontally

## DoD Zero Trust Capabilities – Where does Walacor play a role?



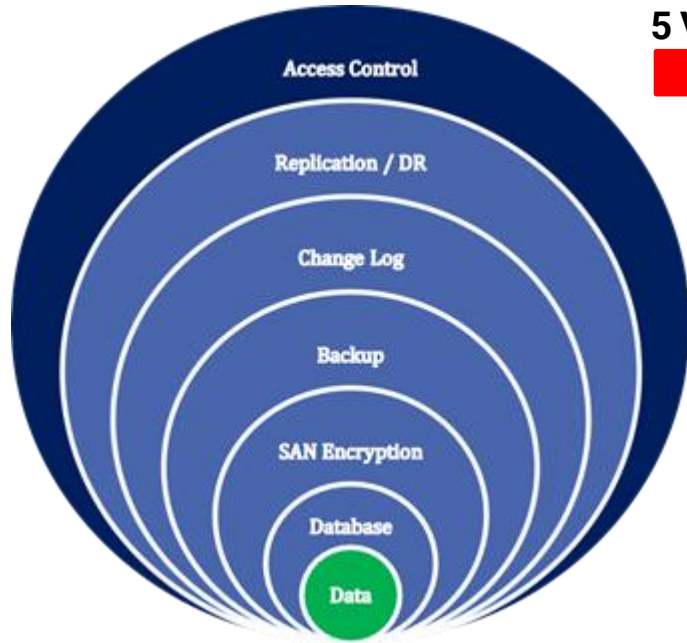
Walacor keeps all kinds of critical data safe with data integrity across all pillars at scale



# The Solution: Guaranteed Data Protection at Data Element Level

## Traditional Approach

Complex – Costly – **Multiple Vulnerabilities**



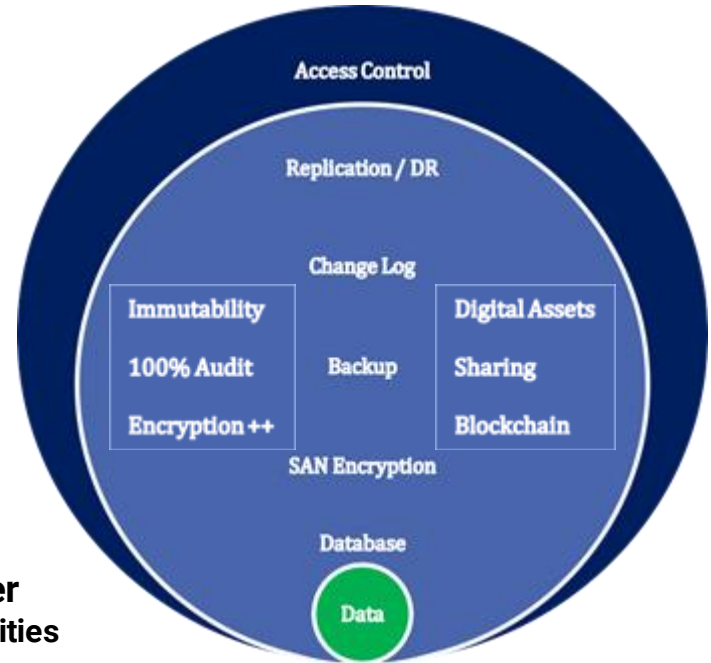
5 Vulnerable Layers



1 Strong Layer  
With More Capabilities



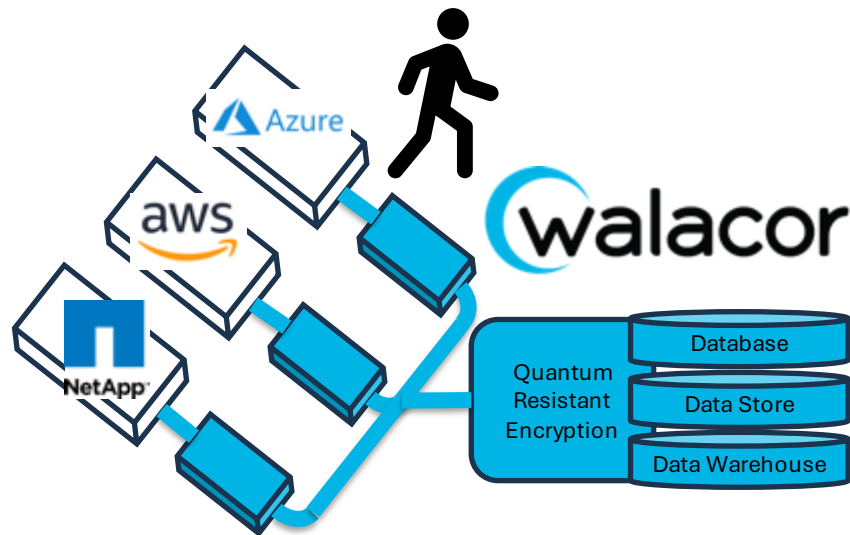
Protection at **Data Element Level**



**Walacor's software** enhances cybersecurity, data integrity and solves AI data poisoning by applying quantum-resistant encryption at the data element level with 100% Data Audit & Assurance.

# The Solution: Enabling Zero Trust Cybersecurity at the Bit Level

The Walacor Platform sets a new **standard for cybersecurity, data integrity, and data resilience** by incorporating **quantum resistant, AES-256+ key encryption** at every data element level or submission.



**Finalist  
AUSA Army  
Linchpin  
X-tech AI**

Deploy on premise, in the cloud or hybrid with Perfect Trusted Replication even in a Contested or Congested Environment, **when the Networks are down you can trust your Data**

Use as standalone, high security database platform for mission-critical applications guaranteeing **Digital Sovereignty**

Integrates with existing databases to enhance secure data by replacing or **sitting side by side with Legacy Systems**

**“Zero Trust is the new paradigm for Cybersecurity. Walacor is a foundational element of our Zero Trust Architecture (ZTA) for the Cloud and on the Edge. Any government agency or enterprise that wants to ensure the integrity of its data needs to talk to Walacor.”**

Glen Gulyas, President  **Available Networks**

# Walacor: Available on AWS, Azure, and on Premise



The screenshot shows the Walacor Workspace dashboard. At the top is a blue header with the Walacor logo, a 'Sign-in' button, a 'Theme' dropdown set to 'Blue Light', and a user icon. Below the header is a search bar. The main content area is divided into several sections:

- Products:** Contains icons for 'Platform' and 'FIVE'.
- Documentation:** Contains icons for 'API Document' and 'Admin Document'.
- How It Works:** Contains icons for 'Learn', 'Documents', and 'Use Demo Case'.
- Support Desk:** Includes the text 'Direct ways to get in touch with us.' and two green buttons: 'Submit A Ticket' and 'Email Us'.
- Technical Tips & Tricks:** Includes the text 'Get the latest technical bulletins and news to help enhance your product experience.' and two bullet points, each with a star icon and the same text.
- Product Release Schedule:** A table with columns 'Launch', 'Date', and 'Product Status'.

| Launch                 | Date        | Product Status |
|------------------------|-------------|----------------|
| Platform Version 2.3.0 | 21 Mar 2024 | Current        |
| Notary Version 2.0.1.1 | 16 Nov 2022 | Current        |
| Platform Version 2.0.1 | 24 Jan 2024 | Previous       |
| Notary Version 2.0.1.0 | 01 Sep 2022 | Previous       |
- Visit Walacor Online:** Includes icons for a globe, YouTube, Facebook, Twitter, and LinkedIn.

At the bottom of the dashboard is a footer with links for 'Policy', 'Terms of Use', and 'Contact Us', and a copyright notice: 'Copyright Walacor Corporation'.

# Why Now?

The Walacor Platform addresses the evolving cyber threat landscape, in which **data breaches** are increasing, and cyber assaults are becoming more sophisticated and costly.

DOE, CISA, DOD & OPM are agencies that have been recently breached



**"... Damage from cyberattacks will amount to \$10.5 trillion annually by 2025 - a 300 percent increase from 2015 levels."**

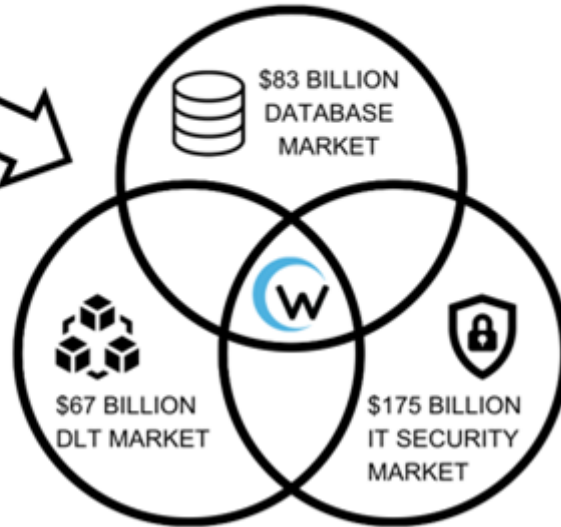


# Total Addressable Market - Data as an Asset is Critical > \$250 Billion

2024: \$197.5B MARKET



2030: \$325B MARKET



Quantum Resistant Market expected to hit \$500 Billion in 2030<sup>1</sup>



SPHERICAL  
INSIGHTS

1 [https://www.globenewswire.com/en/news-release/2023/03/08/2623391/0/en/Global-Cybersecurity-Market-Size-To-Grow-US\\$-501-Billion-By-2030-CAGR-11-6.html](https://www.globenewswire.com/en/news-release/2023/03/08/2623391/0/en/Global-Cybersecurity-Market-Size-To-Grow-US$-501-Billion-By-2030-CAGR-11-6.html)

"As more organizations use **AI** to enhance their operations, they risk inadvertently introducing new cyber-related threats. This creates a significant and growing **demand for advanced cybersecurity solutions.**"

McKinsey & Company



# Massive and Rapidly Growing Market Need



49% of organizations are evaluating or experimenting with AI, but **only 4% currently have pervasive adoption.**



Private and public sectors are rapidly transitioning from traditional cybersecurity defenses to innovative Zero Trust strategies. DoD to implement Zero Trust cybersecurity strategies across the department by the end of **FY 2027.**



**By 2028, 70% of file and object data** will be deployed on consolidated, unstructured data storage platforms, up from 35% in early 2023.



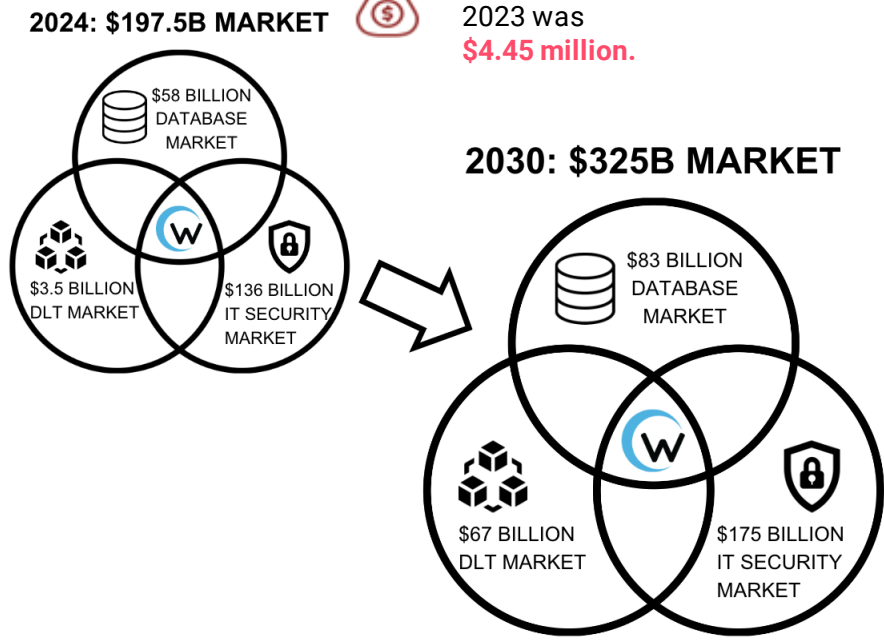
**45%** of experts say cyber threats are the top concern for business interruption.



**72.7%** of organizations were affected by ransomware attacks in 2023.



The global average cost of a data breach in 2023 was **\$4.45 million.**



# Use Case- AI/ML Models

## Created Trusted AI/ML Models

### Problem

- As AI becomes more embedded in business processes, the threat of training data tampering increases, risking the creation of biased AI models
- Complex data processing for AI necessitates robust data integrity measures to prevent biases, privacy breaches, and security vulnerabilities, especially critical in defense and high-stake industries

### Walacor Solution

- A secure data platform that ensures the immutability of AI training data, protecting against poisoning attacks and guaranteeing the reliability of AI decision-making using **Object Validator**.
- Our solution safeguards operational integrity by maintaining a tamper-evident dataset, crucial for unbiased AI performance and maintaining a strategic advantage in mission-critical applications.
- The Walacor Platform is ideal for Digital Twins and has signed and implementing a Government Contract with the ability to scale.



# Solving AI/ML Data Integrity & Security for the DoD

Leading data security and integrity solution company empowering the Department of Defense with Cutting- edge technologies to **Safeguard sensitive information**, ensuring operational readiness and **mission success**.

Government Contracts & Government Contracts Pending SIBR II direct, Digital Twins, Data Sovereignty, Guaranteed Identification Data, Security Policy Golden Copies, Security for AI

## Contract vehicles:

ITES, NASA SEWP, NASPO, OMNIA, QUILT  
GSA



*U.S. Department of Defense*

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