

# IAITAM ACE 2025

ITAM - Another Brick In The Wall

## Blockchain in ITAM: From Hype to Real-world Value



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Jim Kofalt  
Chief Product Strategist for Verae  
Principal consultant for DX4 Research

Product management, product strategy, marketing, and channel management.



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### What is Blockchain?

**Centralized recordkeeping: Registry of Deeds**  
vs.  
**Decentralized recordkeeping: Widely Witnessed Events**



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### Metadata, Hash Values, & Immutability

- **Metadata**
  - Unique identifiers (e.g. serial numbers)
  - URLs (pointing to other )
- **Hash value:** If the record changes in any way (even slightly), then the hash changes

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What if we could replicate this concept for any individualized product







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### Challenges in ITAM

**Data Integrity**

**Transparency**

**Compliance**

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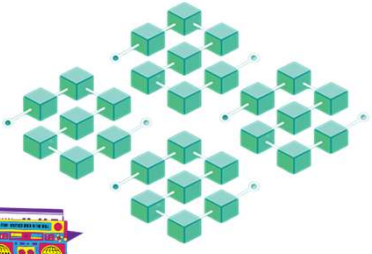
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DECENTRALIZED


PRIVATE

SHAREABLE

IMMUTABLE

PERSISTENT

EFFICIENT



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### Data Points...

**Asset Identification & Ownership**

- **Unique Asset IDs:** Serialized identifiers for IT assets (e.g., laptops, servers, storage devices)
- **Ownership Records:** Who currently owns or is responsible for the asset
- **Transfer of Ownership:** Immutable history of ownership changes

**Asset Lifecycle Events**

- **Acquisition Details:** Purchase date, vendor, warranty information
- **Usage & Maintenance Logs:** Repair history, firmware updates, component replacements
- **Access Control Logs:** Who accessed the asset and when (especially for data-bearing assets)
- **End-of-Life & Disposal:** Proof of proper decommissioning, ITAD certification



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### Data Points...

**Compliance & Security**

- **Audit Logs:** Immutable records for regulatory compliance
- **Smart Contracts:** Automated rule enforcement (e.g., assets flagged for end-of-life disposal)
- **Tamper-Proof Evidence:** Proof that an asset has not been altered or stolen
- **Encryption Hashes:** Instead of storing full sensitive data, only cryptographic hashes are stored

**Supply Chain & Provenance**

- **Manufacturer & Supplier Info:** Proof of authenticity to prevent counterfeit assets
- **Certifications & Compliance Records:** Ensuring devices meet industry security and environmental standards
- **Shipping & Logistics:** Tracking movement of assets across locations



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### Challenges & Key Considerations

- Scalability & efficiency
- Integration with existing ITAM systems
- Regulatory and compliance issues
- Cost and implementation hurdles



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### Questions & comments...



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### Connect with Me!



+1-603-769-2130



[jim@verae.com](mailto:jim@verae.com)



[www.linkedin.com/in/jim-kofalt/](https://www.linkedin.com/in/jim-kofalt/)



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