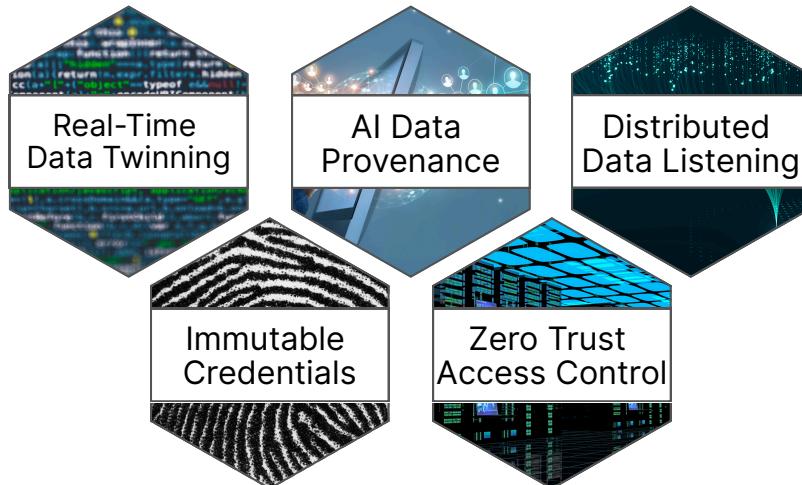


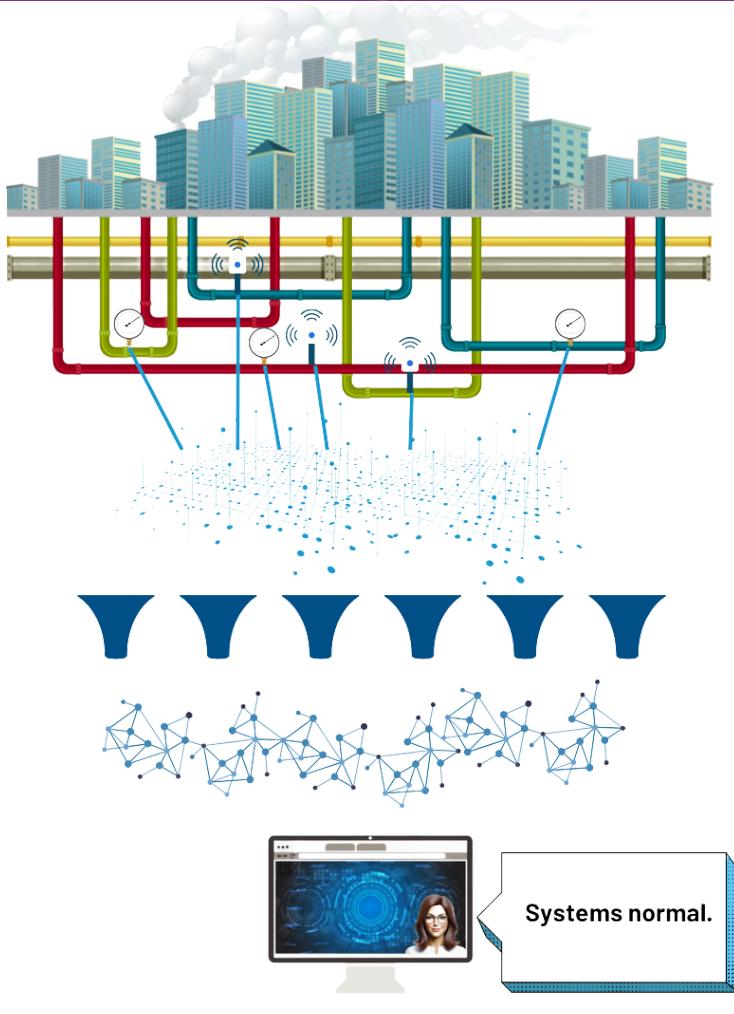
Real-Time Sovereign Data Infrastructure for a Post-Trust World

In an era where ransomware, data poisoning, and AI-driven threats are outpacing traditional defenses, Vannadium offers a new kind of resilience. We don't just secure the perimeter—we make the infrastructure itself sovereign, auditable, and instantly recoverable. Vannadium is the decentralized operating layer that enables real-time data control, automated trust, and system-wide situational awareness across critical industries.

Core Capabilities for Cybersecurity-Driven Organizations



- 1** Ransomware-Resilient Architecture
Real-time data twinning enables instant recovery from ransomware events with clean, immutable backups.
- 2** Trustworthy AI Through Verifiable Data Sources
Immutable provenance ensures AI systems operate on validated, transparent data.
- 3** Secure, Distributed Data Listening at Scale
Unify telemetry across fragmented systems, detect anomalies, and surface risks via our agentic AI layer.
- 4** Credentialing and Access Verification
On-chain digital credentials for workforce identity, equipment tracking, and access control.
- 5** Decentralization for Compliance, Resilience, and Control
Every access and action is policy-enforced, traceable, and logged—ideal for Zero Trust and regulated environments.



Sensors, systems, or endpoints gather millions (or billions) of data points

Vannadium Shield listeners pull all the data together

Diffusion secures and intelligently routes data using a decentralized protocol

Vannadium Vault infrastructure creates a single immutable data repository

Vannadium IQ understands your goals and enables analysis & action in real-time

Where Vannadium fits in the stack

- Complements Zero Trust strategies with immutable audit and decentralized access enforcement
- Adds real-time visibility and trust to AI, credentialing, and secure data workflows
- Aligns with post-quantum goals—ensuring long-term data integrity and security
- Built for compliance: tamper-evident logs, federated data control, and audit readiness
- Functions as secure middleware with modular deployment across cloud, edge, or on-prem environments
- Enhances Data Loss Prevention (DLP) strategies with decentralized control and immutable recovery

Benefits & Business Value

- Resume operations in seconds post-ransomware
- Slash audit prep time from weeks to hours
- Reduce compliance costs and data risk exposure
- Improve AI reliability with trusted data pipelines
- Accelerate threat detection through unified, intelligent data listening
- Strengthen insider risk posture with traceable access and policy enforcement
- Enable secure collaboration across departments or partner networks