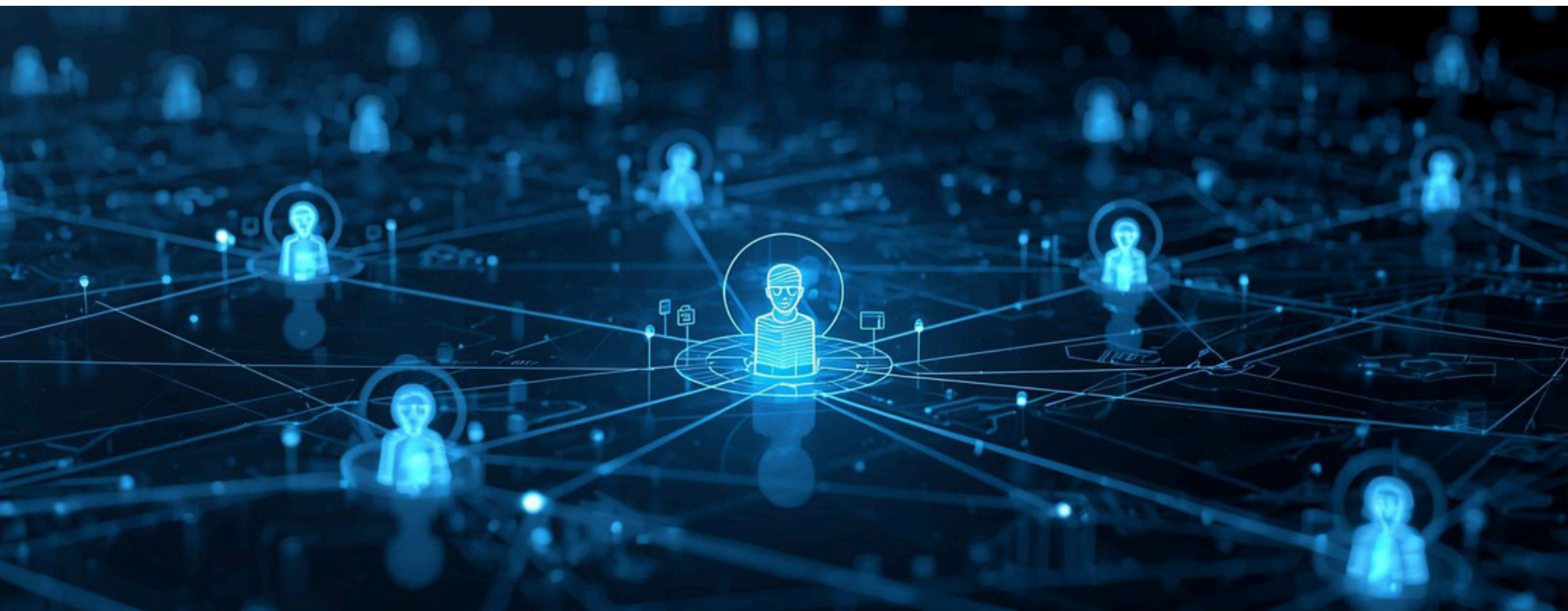


# A Modern Identity Security Framework for Manufacturing Supply Chains

A Joint Perspective by Saviynt & Trevonix



*Modernising Identity to Secure Global Operations, Reduce Risk, and Build Resilient Supply Chains*



# 1. Introduction: Identity Security Becomes a Strategic Imperative in Manufacturing

Global manufacturers stand at a defining moment. The convergence of advanced digitalisation, hyper-connected global supply chains, cloud adoption, and the rise of AI agents is fundamentally reshaping operational and security landscapes. Identity, once viewed as an IT discipline, has now become a **strategic determinant of resilience, safety, compliance, and competitiveness.**

According to Saviynt's analysis, identity breaches now pose existential threats to manufacturers, with consequences that include catastrophic downtime, regulatory penalties, and lasting reputational damage. Traditional, fragmented identity management models built on legacy architecture can no longer withstand the scale, complexity, and speed of today's risk environment.

**Modern manufacturers require an identity security framework that is converged, cloud-native, and intelligent, capable of governing every human and non-human identity across the global supply chain.**

This paper expands upon Saviynt's modern identity architecture and integrates Trevonix's practical transformation expertise to provide manufacturers with a roadmap for modernising identity, reducing operational risk, and strengthening cyber resilience across complex global operations.



## 2. Quantifying the True Cost of an Identity Breach in Manufacturing

Saviynt's research shows that the impact of identity-related cyber incidents extends far beyond immediate financial loss. Breaches now trigger cascading commercial, operational, and regulatory consequences that can cripple a manufacturer's global operations for months or even years.

### Financial Impact & Operational Paralysis

- Manufacturers experience some of the highest breach-related operational losses of any industry.
- Ransomware attacks have caused £300 million in lost profits and over £1 billion in market value erosion in major incidents.
- Factory operations are disrupted an average of 9–11 hours, with downtime costing up to £5,600 per minute, or over £300,000 per hour.
- Production delays cascade across global supply chains, causing missed customer commitments and contract penalties.

### Regulatory Fines & Rising Insurance Costs

- GDPR fines can reach £20 million or 4% of global turnover.
- Cyber insurance premiums continue to climb 20–36% year over year, particularly in manufacturing.
- The UK ICO imposes additional penalties when insufficient identity controls contribute to security failures.



## Supply Chain Exposure

Manufacturing supply chains amplify identity risk.

- 27–35% of breaches originate from third-party or vendor access mismanagement.
- One major manufacturer incurred £300 million in losses from a breach via an affiliate, and recovered only a third through cyber insurance.

## Brand & Customer Confidence Erosion

- Up to 70% of consumers abandon a brand after a breach.
- 58% permanently lose trust, directly impacting market share and long-term revenue.

***These outcomes stem from systemic identity vulnerabilities embedded across manufacturing environments.***



## 3. Why Manufacturing Is Uniquely Exposed: Core Identity Challenges

Saviynt highlights five structural challenges that create disproportionate identity risk in manufacturing environments. Trevonix's work across global manufacturing clients confirms these challenges are pervasive, operationally entrenched, and often underestimated.

### **Legacy & Fragmented Infrastructure**

Manufacturers often operate decades-old MES, SCADA, and ERP systems that were never designed to support modern identity frameworks like Zero Trust. IAM is fragmented across business units, factories, and regions, creating blind spots and inconsistent control.

### **Third-Party & Vendor Complexity**

Manufacturers rely on thousands of suppliers, contractors, and partners. Each requires tailored access to systems, factories, or data. Managing non-employee identities remains one of the sector's most challenging security gaps.

### **Workforce Scale & Variability**

Seasonal labour, rapid turnover, shift-based operations, and complex role hierarchies drive identity chaos. Without automated governance, access creep becomes inevitable.

### **Cross-Jurisdictional Regulatory Overload**

Global manufacturers must comply simultaneously with:

- GDPR
- NIS2
- PCI DSS
- SOX
- ISO 27001
- Industry-specific data and safety regulations

Managing identity consistently across these regimes is a major operational burden.

### **Emerging AI-Driven Threat Landscape**

AI agents amplify both capability and risk:

- Attackers now weaponise AI to bypass authentication and exploit session tokens.
- Manufacturers adopt AI-powered automation that introduces new non-human identities, requiring governance and entitlements at scale.



## 4. The Strategic Response: A Converged, Intelligent, Cloud-Native Identity Platform

Saviynt's modern identity platform provides a converged foundation essential for securing manufacturing supply chains. It integrates IGA, PAM, EIGA, AAG, and ISPM into a single, cloud-native architecture that eliminates fragmentation and significantly enhances control.

This unified platform ensures that every identity, human, vendor, machine, or AI agent is verified, governed, monitored, and risk-assessed continuously.

### Why Convergence Matters

- Eliminates operational silos
- Reduces identity sprawl
- Provides real-time visibility across global manufacturing environments
- Simplifies compliance and accelerates audits
- Enables Zero Trust without disrupting production systems

Saviynt's platform acts as a high-precision digital gatekeeper: validating identities, enforcing least privilege, granting access only for the duration needed, and automatically revoking access once tasks are complete.



## 5. Core Capabilities of the Modern Identity Framework

The Saviynt platform delivers integrated capabilities that together form a comprehensive identity defence model for manufacturing.

### **Identity Security Posture Management (ISPM)**

Proactively identifies misconfigurations, privilege creep, and security gaps across human and non-human identities, enabling continuous improvement.

### **Privileged Access Management (PAM)**

Implements just-in-time access, eliminates standing privileges, and monitors all privileged sessions critical for OT, ICS, and cloud environments.

### **External Identity Governance & Administration (EIGA)**

Centralises governance for contractors, vendors, partners, and supply chain identities—enforcing uniform controls and reducing third-party risk.

### **Identity Governance & Administration (IGA)**

Automates lifecycle management for all users using a risk-aware approach to access approvals, SoD violations, and access certifications.

### **Application Access Governance (AAG)**

Provides fine-grained governance inside systems like SAP, Oracle, and Workday—where many supply chain risks originate.



***Together, these capabilities create the architecture for a resilient, compliant, and agile manufacturing enterprise.***



## 6. Trevonix Perspective: Making Modern Identity Real in Manufacturing

Modern identity security is as much an organisational transformation as it is a technology shift. Trevonix brings the IMPACT Programme to help manufacturers adopt Saviynt successfully at enterprise scale, ensuring measurable outcomes where identity is mission-critical.

### **Trevonix IMPACT Programme: Identity Maturity, Planning & Capability Transformation**

#### **Strategy**

- Strategic direction & independent guidance
- Capability assessments & use-case definition
- IAM / Zero Trust roadmap development
- Regulatory alignment across GDPR, NIS2, SOX
- Business case development and value realisation planning

#### **Solution Delivery**

- Architecture & technical design
- Saviynt platform deployment & integration
- Application onboarding at scale
- “AI for Identity” and “Identity for AI” enablement
- Change enablement & workforce adoption

#### **Managed Services**

- Cloud & hybrid identity operations
- DevSecOps for IAM platforms
- Operational excellence & continuous improvement
- Enhancements, upgrades, and proactive monitoring

**Where Saviynt provides the platform, Trevonix ensures successful implementation, operationalisation, and capability uplift across the enterprise.**



# 7. Manufacturing Industry Outcomes: Why Modern Identity Matters

Modern identity delivers measurable benefits across global manufacturing operations.

## Operational Resilience

- Reduced downtime risk
- Faster detection & containment of breaches
- End-to-end supply chain visibility

## Regulatory Compliance

- Automated evidence generation
- Continuous controls monitoring
- Simplified, audit-ready identity governance

## Cost Reduction

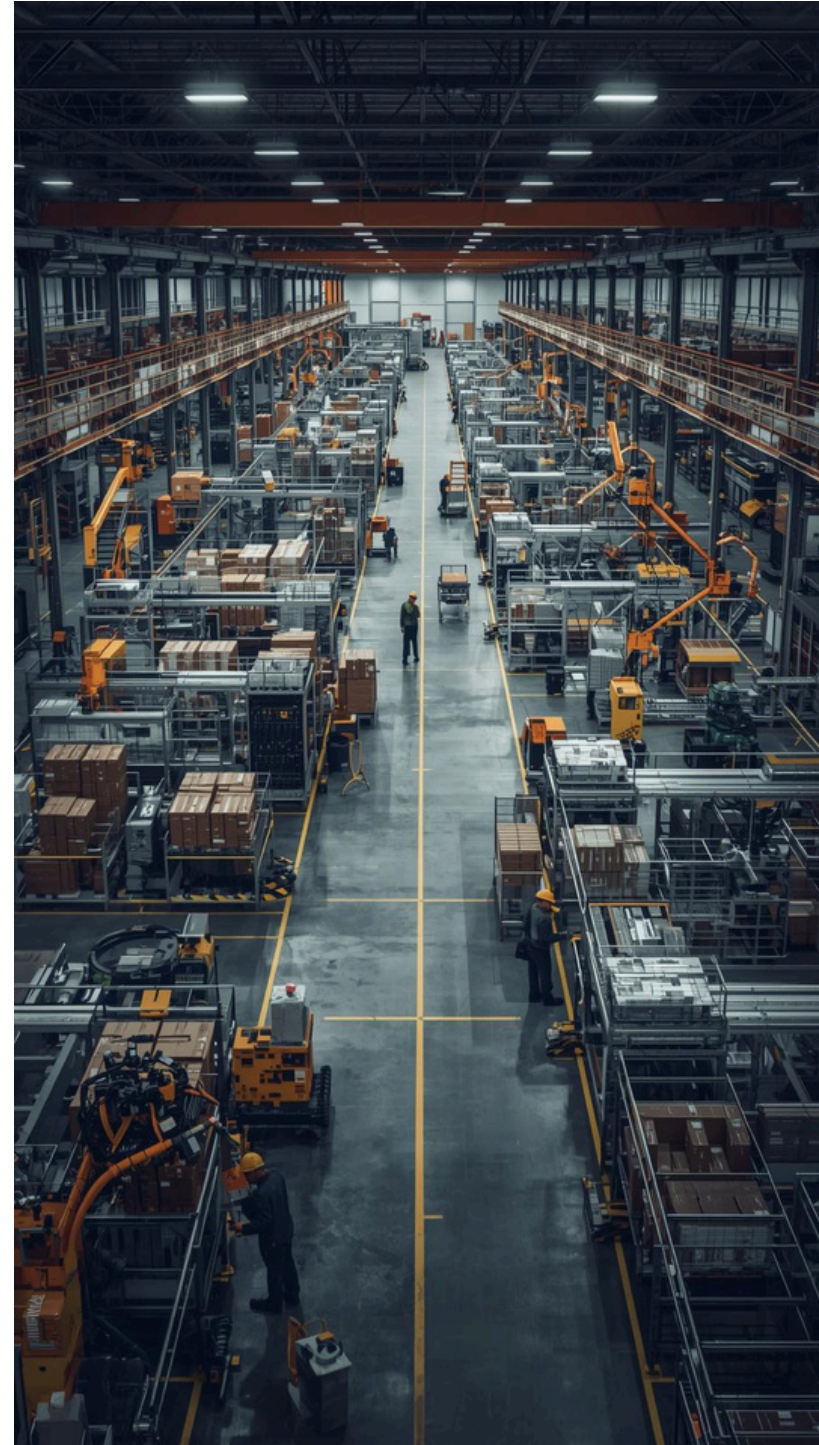
- Consolidation of legacy identity tools
- Lower operational overhead
- Reduced cyber insurance costs

## Supply Chain Agility

- Faster onboarding of suppliers and contractors
- Time-bound access aligned to production cycles
- Consistent governance across jurisdictions

## AI & Automation Enablement

- Governance for AI agents and machine identities
- Secure integration with predictive maintenance, digital twins, and robotics
- Guardrails for data access and model risk



## 8. Conclusion: Building a Resilient, Secure, and Agile Manufacturing Enterprise

The manufacturing sector faces identity challenges that are structural, global, and accelerating. Legacy IAM approaches are simply not capable of addressing today's supply chain complexity, cyber threat landscape, and regulatory intensity.

A converged, cloud-native identity security framework powered by Saviynt and delivered with Trevonix's IMPACT methodology provides manufacturers with:

- A dramatically reduced attack surface
- Stronger supply chain security
- Simplified compliance across global markets
- Lower operational cost
- Accelerated digital transformation
- A secure foundation for AI-driven automation

**Modern identity is not a cost; it is the platform for manufacturing resilience and growth in the digital age.**



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