



# Accelerate Your Journey to Industry 4.0 with Splunk and NTT DATA

## Too many systems. Not enough visibility.

Manufacturers face fragmented IT, operational technology (OT), and supply chain environments, each scattering data across machines, controllers, applications, and cloud platforms. This results in a lack of visibility that obscures what's really happening on the shop floor and throughout on-premises, cloud, and edge environments — widening the attack surface and inviting more sophisticated threats.

With limited, real-time visibility and manual monitoring, teams face an overwhelming flurry of alerts, often too many to handle. This creates a domino effect: Slow anomaly detection in equipment performance and process quality leads to unplanned downtime and costly production slowdowns. Teams then miss opportunities to optimize performance. Quality and compliance become harder to scale. The business suffers from constrained agility and stalled digital progress.

That's why manufacturers need partners who can help them shift from reactive firefighting to proactive, data-driven operations. NTT DATA's manufacturing expertise and Splunk's data-

driven visibility help manufacturers unlock modern, resilient manufacturing operations. The connected factory of the future combines an extensible data platform from Splunk with the NTT DATA Smart Management Platform to drive end-to-end, business-first outcomes.

Break through the noise, connect your environments, and accelerate your journey to Industry 4.0 with NTT DATA and Splunk.

## Fortify manufacturing operations with:



Unified data and visibility



Smart modernization



Efficient operations at scale

## Unify data from edge to enterprise

Today's manufacturing operations encompass all of the enterprise IT of a modern business, plus an entire universe of business-critical OT with supply chain and distribution tools. If left in silos, these tools engulf teams with alerts, slowing response and hindering real-time decision-making.

NTT DATA and Splunk bridge IT, OT, and supply chain data into a single view for operational agility. Splunk can ingest, normalize, and correlate machine data at scale — from logs and metrics to events and traces — to unify OT and enterprise IT. NTT DATA accelerates this value with reusable OT and IT connectors and contextual tagging through its Smart Management Platform, ensuring data is mapped to production processes, assets, and business outcomes.

Once unified, this data becomes actionable and supports plant-level optimization, cross-site KPI visibility, and executive-ready reporting. The result is a seamless data pipeline from the factory floor to the boardroom, incorporating resilience across every environment where manufacturers operate.

## Turn operational data into process modernization

Manual monitoring floods security and IT teams with alerts, masking early signs of equipment or system degradation and putting process quality at risk. The result is costly downtime, growing technical debt, and inefficiencies across plants.

Splunk helps manufacturers reduce tool sprawl by serving as a unifying platform for security, IT operations, observability, and hybrid cloud environments, bringing disparate signals into a single operational view. Paired with NTT DATA Smart Management Platform, organizations can contextualize this data around real production processes, assets, and performance objectives.

With a unified data pipeline, manufacturers can automate response and remediation using Splunk SOAR and apply predictive analytics and AI to identify bottlenecks, redundancies, and quality risks before they disrupt production. This continuous business and process monitoring surfaces what matters most so that you can unlock insights faster and turn operational data into measurable performance gains.

## Deliver scalable operations with expert support

It's hard to scale quality and compliance. Most manufacturers don't have the time or specialized teams to diagnose disconnected data issues across IT and OT that can jeopardize safety, quality, and compliance while keeping production running efficiently. But with the right platform and partners, modernization becomes practical, achievable, and tied to real operational outcomes.

Splunk and NTT DATA combine data-driven insights with deep manufacturing expertise to enable best-in-class processes across IT, OT, and hybrid environments. Splunk strengthens security through real-time visibility, advanced detection, and automated response, while NTT DATA applies that intelligence through its Smart Management Platform, reusable data models, and standardized KPIs. By partnering together, both make it easier to scale Industry 4.0 initiatives consistently across sites and regions.

Beyond technology, NTT DATA helps manufacturers sustain progress. Automated compliance reporting, frontline alerts enriched with conversational AI, and continuous improvement frameworks turn insight into action. Ongoing enablement, training, and managed services ensure systems evolve with the business and keep operations secure and optimized for a resilient future.

By unifying data, modernizing processes, and embedding manufacturing expertise, Splunk and NTT DATA help manufacturers move beyond reactive firefighting and confidently accelerate their journey to Industry 4.0.

The annual cost of downtime for manufacturing organizations is

**\$255 million** annually.

**76%**

of manufacturing organizations say data sprawl is one of their toughest obstacles to managing downtime.

Source: Splunk, The Hidden Costs of Downtime in Manufacturing, 2024