

Advisory services for manufacturing operations

Observability and Monitoring Tools Assessment for Manufacturing

Manufacturing operations need effective, well-integrated monitoring and observability tools to keep production lines running smoothly and avoid costly downtime. As such, manufacturers make significant investments in tools that track machinery performance, factory network health and overall production efficiency. However, overlapping toolsets, underutilized software licenses, skills shortages and gaps in monitoring processes can limit the expected gains in performance and reliability. These inefficiencies can lead to unnecessary costs and operational slowdowns.

NTT DATA's Observability and Monitoring Tools Assessment helps manufacturers get more out of their investment in monitoring tools. We help you streamline production oversight and increase operational efficiency. Our assessment provides clear insight into your current observability strategy and implementation. We also deliver a roadmap to increase the efficiency and maturity of your observability strategy. This plan will help you minimize downtime and improve production throughput. Other benefits include:



Reduces operational costs.

Identifying redundant or inefficient monitoring tools helps you save money without compromising visibility into operations



Increases responsiveness to production needs.

Configuring monitoring tools to support critical production and business drivers improves your responsiveness to equipment failures or quality issues



Decreases downtime.

Learning how to deploy your existing tools more effectively minimizes disruptions and increases uptime

How we deliver for manufacturing

NTT DATA uses a consultative approach with a practical framework for manufacturing environments. Our assessment helps manufacturers understand the current state of their observability tools. This approach identifies gaps and redundancies that might be preventing your operation from achieving peak performance and cost efficiency.

Using a future-state roadmap, we partner with you to provide clear, actionable steps to help you streamline your monitoring tools while achieving better production and business outcomes.

Our Observability and Monitoring Tools Assessment includes:

- A current-state inventory and categorization of tools, along with an analysis of redundancies and gaps in manufacturing processes
- Recommendations on eliminating redundant tools and improving licensing to reduce operational costs in the context of factory operations
- An analysis of how tools are used in production and service management to identify opportunities for better tool utilization
- Strategies for improving service availability through more effective use of existing tools
- A high-level roadmap and future-state report with recommendations for achieving immediate, short-term and long-term improvements in service availability and operational effectiveness

The assessment also includes a comprehensive **tools category heatmap** that visually summarizes your current state. It highlights areas for improvement and helps you make informed decisions about tool optimization.

Tools category heatmap example

APM & End-to-end Inside-out monitoring of code end-to-end correlation	EUM/RUM Real user experience	Application synthetics 24/7 simulated user experience, availability, performance, functionality	Network & application synthetics 24/7 simulated user experience, network visibility, availability, performance, functionality
Log ingestion & analysis Application, infrastructure	Log concentration Aggregation, deduplication, routing	Infrastructure performance management Server, DB, storage	Infrastructure management systems Firmware, drivers, configs, servers, storage, network
Network performance monitoring SNMP, PCAP, flows	Network management systems Automation and topology	Network modeling & prediction	Network detection & response PCAP, threat intelligence
Tap & aggregate	Digital experience end-user experience	Correlation engine (AIOps)	OT, IT, & IOT sensing

Current state







 Capabilities fully implemented	 Capabilities redundantly implemented	 Capabilities not implemented and not owned in current toolset
 Capabilities incompletely implemented	 Capabilities not implemented but owned in current toolset	 Low priority at this time

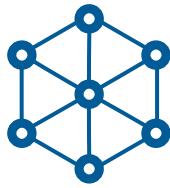
Figure 1: Sample tools category heatmap summarizing current state

Why NTT DATA



Global footprint:

We support over 47 technologies in 14 languages across 145 countries.



Integrated services platform:

Our automated AIOps have cross-cloud DevOps capability.



Leading skills and certifications:

NTT DATA holds the top manufacturing service provider partnerships with Microsoft Azure, Amazon Web Services and Google Cloud Platform. We're also the only company to combine those skills with SAP partnership and networking skills in 80 countries.



Recognized:

We're a Leader in the Gartner® Magic Quadrant™ for Managed Network Services.*

Unlock the full potential of your manufacturing operations

Maximize efficiency and reduce downtime with NTT DATA's tailored Observability and Monitoring Tools Assessment. Our expert team will help you optimize your tools, streamline your processes and improve your production outcomes.

To learn more, visit us at [Observability Services for Manufacturing](#)

*Gartner, Magic Quadrant for Managed Network Services, By Ted Corbett, Nauman Raja, Jon Dressel, Lisa Pierce, Karen Brown, Danellie Young, 14 October 2024

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