

SEAMLESS MULTI-SITE CONNECTIVITY

A Resilient Global Network Foundation for Modern Manufacturing



**A GTT SOLUTION BRIEF
MANUFACTURING**

SEAMLESS MULTI-SITE CONNECTIVITY

A Resilient Global Network Foundation for Modern Manufacturing Operations

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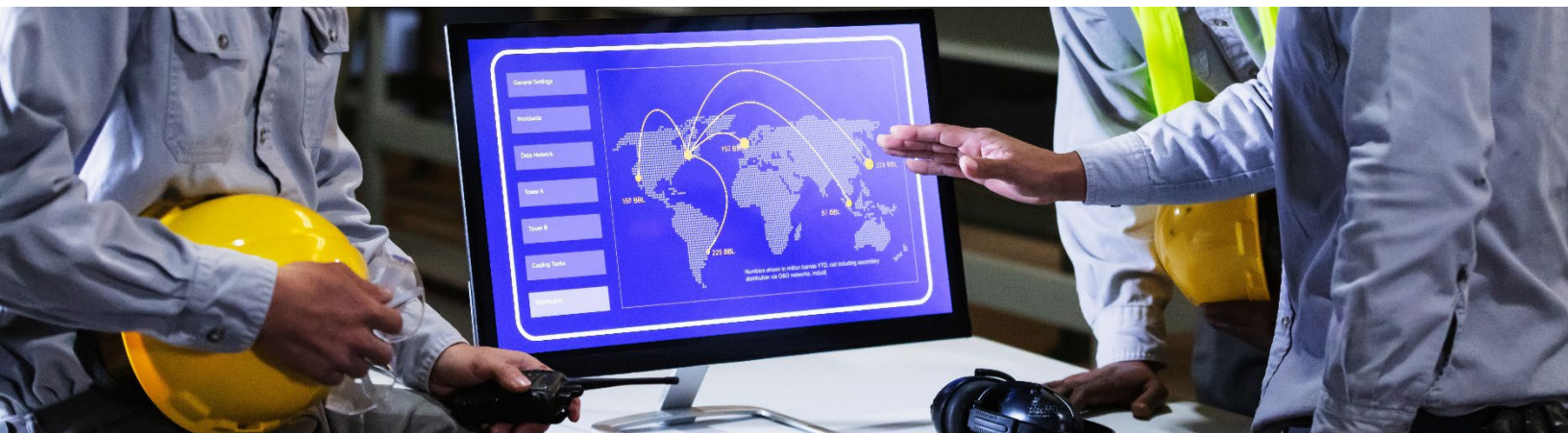
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THE LANDSCAPE

Innovation is Outpacing the Infrastructure for Modern Manufacturing

Modern manufacturing has moved beyond aspiration into active deployment. AI-assisted process control, predictive maintenance informed by real-time sensor data. Digital twins that reflect live production conditions. Edge analytics that reduce latency between data and decision. Industrial Internet of Things (IIoT) systems that connect machines, lines and suppliers in ways that make the whole operation more responsive and more legible. These are not aspirational concepts — they are active investment priorities across the sector.

While 81% of manufacturers say external and internal pressures are accelerating digital transformation, only 20% have scaled smart manufacturing. 56% remain stuck in the piloting phase, often due to gaps in governance, data readiness and organizational alignment.¹ The challenge compounds when manufacturers attempt to operationalize these technologies across production environments. At that stage, network performance becomes critical: latency, inconsistent throughput, and unreliable connectivity between edge, plant, and cloud can degrade the real-time data flows that AI models depend on, undermining accuracy and decision quality at scale.²

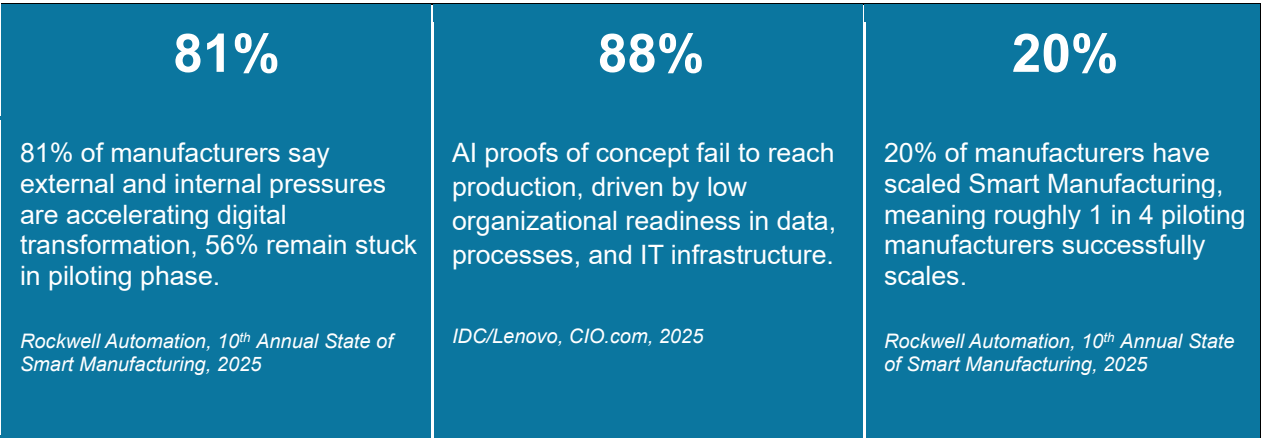
¹ Rockwell Automation, 10th Annual State of Smart Manufacturing Report, 2025 ² IDC/Lenovo, as reported in CIO.com, March 2025

For manufacturers ready to move from pilot to production, the constraint becomes structural: the network.

Operating across multiple countries exposes this problem. A global manufacturer is simultaneously managing relationships with local carriers in a dozen markets, enforcing policies that were defined centrally but implemented independently, running management tools that were procured at different times for different parts of the estate, and trying to get a coherent picture of performance across a network that was never designed to operate as one.

McKinsey research indicates that only 30% of businesses have supply chain transparency beyond their tier-one suppliers.³ That gap reflects the structural limitations of networks built market by market, without the consistency required to support global operations. Only one in five manufacturers has scaled smart manufacturing beyond pilots, with architectural inconsistency and fragmented governance cited as the primary barriers.⁴ Regulatory requirements add further complexity — GDPR and NIS2 across Europe, data localization mandates in Southeast Asia, sovereign network requirements in the Middle East — the architecture decisions made at the network level have direct compliance and operational consequences.

³ McKinsey, supply chain visibility research, 2024 (cited via Z2Data) ⁴ Rockwell Automation, 10th Annual State of Smart Manufacturing Report, 2025



THE PROBLEM IS NOT THE TECHNOLOGY. IT IS THE NETWORK IT RUNS ON.



Consistent global performance, centralized visibility and clear accountability are not features most manufacturing networks were designed to deliver — and that is precisely where modernization stalls

Fragmented carrier relationships

Different providers produce inconsistent SLAs, unpredictable performance and no unified view of the global estate.

Configuration drift across sites

Independently implemented policies result in inconsistency that is difficult to remediate at scale.

Failed replication

Smart factory initiatives succeed locally and fail to scale because the network lacks consistency.

WHERE GTT COMES IN

Built Specifically for the Complexity of Global Manufacturing Networks

GTT manages network and security infrastructure for manufacturers across automotive, food and beverage, and industrial automation to name a few — across Europe, the Americas, Asia-Pacific, the Middle East and Africa. We understand the operational reality of distributed sites, multiple local carriers, varying compliance obligations and overburdened IT teams.

We make consistent delivery achievable at this scale with GTT's top-ranked Tier 1 global IP backbone — with 400+ points of presence across six continents, including markets where reliable local connectivity is genuinely difficult to source independently. The platform that makes global visibility and governance operationally achievable is GTT Envision. And GTT can take accountability for deployment, standardization and in-life service management across the entire estate, so internal teams are not absorbing the coordination complexity themselves.

In manufacturing, GTT connects every site reliably, secures their network environments and simplifies the complexity of managing it all across every country, every sub-vertical and every stage of the modernization journey.



THE APPROACH

Why Seamless Multi-Site Connectivity Is a Platform Argument, Not a Product Selection

Manufacturers evaluating network modernization typically begin with point solutions — SD-WAN, MPLS, cloud connectivity — assembled across multiple vendors. This results in a functionally fragmented network with multiple consoles and escalation paths.

GTT delivers an integrated architecture. GTT Envision enables all of it, providing connectivity and networking at the edge while delivering unified visibility, policy control and compliance reporting from a single interface. This is the operational difference between a network that requires constant internal management and one that runs with consistent performance and governance built in.

WITH DISCONNECTED POINT PRODUCTS	WITH GTT SEAMLESS MULTI-SITE CONNECTIVITY
Multiple point-product vendors, each managing their own segment of the network.	A single partner with end-to-end accountability — one SLA, one escalation path, one operations team.
Performance policies set regionally, enforced inconsistently across sites.	Centralized policy control via GTT EnvisionCORE, propagated to every site simultaneously.
Network visibility is assembled from multiple dashboards with no single source of truth.	Unified real-time view via GTT EnvisionDX — one accurate, real-time view across the global estate.
Site onboarding is managed separately per region, often requiring local project teams.	Standardized onboarding playbooks, managed centrally, with GTT field engineering support globally.
Compliance evidence gathered manually from fragmented systems before audits.	Continuous SLA reporting and audit-ready data available on demand—collected across GTT EnvisionEDGE and GTT EnvisionCORE and accessible on demand through GTT EnvisionDX.

THE SOLUTION

One AI-Enabled Platform. One Networking Experience. One Strategic Partner

GTT’s seamless multi-site connectivity is built on a single integrated architecture, delivering the performance, visibility and governance that distributed manufacturing operations require.

Unlike providers that aggregate regional carriers, GTT delivers connectivity on a Tier 1 global IP backbone that allows up to 80% of customer traffic to remain on-net, reducing interconnection handoffs and enabling consistent SLAs across continents. In markets where local carrier quality is variable and procurement frameworks are complex — across Southeast Asia, West Africa and the Middle East — GTT’s on-net architecture eliminates the need for manufacturers to navigate local carrier relationships independently. The impact: more predictable outcomes across both mature and rapidly developing markets.

Core Capabilities Supporting Multi-Site Manufacturing:

- Dedicated Internet Access (DIA)

■ 5G or satellite connections

■ Ethernet or MPLS

■ Managed SD-WAN
- Managed Routers

■ Security

■ 24/7 Global NOC Support

THE PLATFORM ADVANTAGE

Unified Visibility and Control Across Every Site

The GTT Envision Platform delivers operational visibility without adding complexity. It adapts to the operational realities of each site while maintaining centralized governance.

- GTTENVISIONEDGE

Centralized policy orchestration and standardized change control. A configuration change made at headquarters propagates to every site simultaneously, eliminating the drift when regional teams implement independently.

GTTENVISIONCORE

Real-time telemetry at every plant edge. Network events, latency variations and performance issues are visible as they occur, enabling GTT to act before production is affected.

GTTENVISIONDX

Executive-ready performance dashboards, SLA trendlines and usage analytics across all locations. Operations and IT leadership share the same current view of network health — without manual reporting cycles.

THE PROOF

What Manufacturing Customers Achieve with GTT

The manufacturers below have deployed seamless multi-site connectivity with GTT across globally distributed operations. Their results are drawn from verified, publicly available case studies and direct customer accounts. No figures here are estimates or projections.

Röchling

RÖCHLING AUTOMOTIVE | Automotive Components — Global Manufacturing

Röchling operates a highly distributed global manufacturing footprint with plants and technical offices across multiple regions. Legacy network variability across countries created inconsistent application performance and impacted collaboration between engineering, production and administrative teams. GTT deployed a fully managed global WAN — including SD-WAN, managed routers and centralized service management — standardizing connectivity across Röchling’s worldwide sites.

“Shifting to GTT Managed SD-WAN has led to a twofold increase in bandwidth and a 20% reduction in incidents across our global network, underpinning our smooth transition to Smart Manufacturing.” — IT Manager, Network & Datacenter Global, Röchling Automotive





HMY

HMY GROUP | Industrial & Retail Equipment Manufacturing — Europe, LATAM, Asia, Middle East

HMY Group designs, manufactures and installs retail environments for global brands, coordinating production and logistics across sites in 16 countries. Legacy MPLS connectivity restricted bandwidth, limited visibility across regions and slowed the company's ability to bring new locations online as it expanded into new markets. GTT upgraded HMY Group's network to GTT Managed SD-WAN across four continents — doubling bandwidth at each location, reducing network costs by 22% and delivering the transition on time with no technical issues or downtime.

"GTT's Managed SD-WAN service enables us to increase the available bandwidth for our cloud applications and gives us the flexibility and security that we need to support our business operations around the world."

— Group IT manager, HMY Group



CONNECT



SECURE



SIMPLIFY



WHY GTT

Built for the Demands of Global Manufacturing

Most network and security providers can deploy technology reliably in a single environment. The challenge that determines whether a global manufacturing transformation program succeeds is different. Can a provider own end-to-end execution across hundreds of sites and multiple continents — coordinating local carriers in thirty countries, scheduling deployments within tight factory change windows, enforcing consistent technical standards without local deviation and then managing the run environment with full service accountability — while the internal IT team continues to run day-to-day operations without disruption?

This is the problem GTT is specifically built to solve. Three capabilities, aligned to GTT’s core commitment to connect, secure and simplify, combine to make that possible:

TIER-1 GLOBAL BACKBONE & CARRIER REACH	GTT ENVISION PLATFORM	END-TO-END PROGRAM OWNERSHIP
GTT’s top-ranked global IP backbone covers 400+ points of presence across six continents. In markets where sourcing reliable last-mile connectivity is genuinely difficult — parts of LATAM, the Middle East, Africa and Southeast Asia — GTT can source, manage and guarantee performance where regional-only providers cannot, often in markets where procurement frameworks require local partner relationships that GTT has already established. Manufacturers do not need to manage local carrier relationships in each country. GTT does.	The GTT Envision Platform is the operational difference between managing a global network and simply owning one. GTT EnvisionCORE enforces consistent policies across every site. GTT EnvisionEDGE detects issues at the plant edge before they affect production. GTT EnvisionDX provides real-time visibility for operations and leadership. Together, they mean a manufacturer with sites in four continents has one current, accurate view of network performance across all of them.	GTT’s teams own deployment, standardization and in-life service management across the entire network estate, not just the technical installation. This includes managed routers, centralized change management and 24/7 NOC support. Internal IT teams retain strategic direction. GTT retains accountability for delivery and performance.

MANUFACTURING SUB-VERTICALS SERVED

Capability Adapted Across Every Manufacturing Sub-Vertical

Seamless Multi-Site Connectivity addresses challenges across many different sub-verticals, with solution designs adapted to the operational, regulatory and technology environments of each:

Automotive & EV	Strict supplier connectivity requirements, TISAX compliance, low-latency connectivity for robotics and plant-to-plant coordination.
Food & Beverage	Multi-continent production networks, cloud-dependent supply chain coordination, global ERP performance across 100+ sites
Chemicals & Materials	Safety-critical OT environments, secure site-to-site communications, consistent connectivity across diverse regional markets, and compliance with hazardous-materials regulations including COMAH in the UK and SEVESO in Europe.
Packaging	Distributed manufacturing and logistics, SAP and cloud collaboration workloads, scalable architecture supporting expansion
Building Materials	Wide geographic dispersion, multi-cloud ERP and design tools, standardized network performance across Europe and beyond.
Industrial Equipment & Automation	Complex supplier ecosystems, engineering collaboration across continents, high-reliability connectivity for production and field service



NEXT STEPS



Starting the Conversation

The network is the foundation everything else depends on. To start your modernization journey:

- ✔ **Map the current network against production dependency:** Identify which applications—MES, ERP, digital twin, supplier portal—depend on network performance and where current connectivity gaps create operational risk.
- ✔ **Audit carrier and vendor complexity:** Count the number of active carrier relationships and network management tools across the global estate. This is the operational burden that a unified managed service removes.
- ✔ **Assess site onboarding velocity:** Evaluate how long it currently takes to bring a new facility onto the network to the required performance standard. This is one of the clearest measures of whether the current architecture can support growth.
- ✔ **Engage GTT:** Contact GTT to map Seamless Multi-Site Connectivity to your network environment and establish the consistent, globally governed foundation your modernization requires.

THE NETWORK IS THE FOUNDATION EVERYTHING ELSE DEPENDS ON.

GTT connects global manufacturers across every region and every stage of the modernization journey — with consistent performance, unified governance and a single point of accountability across the entire network estate.



ABOUT GTT

GTT is a leading networking and security as a service provider for multinational organizations, simply and securely connecting people and agents to data and applications — anywhere in the world. We serve thousands of organizations, bringing together the right people, partners and technology to reduce the burden on IT teams and solve the most pressing networking and security challenges. Built on our top-ranked global Tier 1 network, GTT Envision is a single global technology platform to connect, orchestrate, virtualize and automate enterprise networks, enabling customers with consumable solutions to achieve business missions and meet ongoing demand when, where and how needed. Our portfolio includes SASE, SD-WAN, security, internet, voice and other connectivity options, complemented by a suite of professional services and exceptional sales and support teams in local markets around the globe. We partner with our customers to deliver Greater Technology Together. For more information, visit www.gtt.net.

