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## Transform your network into a business accelerator with Kyndryl Network Modernization

### Overview

As enterprises seek to accelerate digital transformation, AI deployment and cloud adoption, critical challenges relating to legacy networks are threatening performance, security and competitive advantage.

By working with Kyndryl to modernize their networks, organizations can gain the secure, reliable, low-latency connectivity required to support real-time business processes, faster decision-making and AI-driven innovation.

## Growing network challenges

Many organizations today require secure, reliable, low-latency networking to support real-time business processes, decision-making and – increasingly – AI tools. The most demanding use cases include:

- High-frequency trading and real-time fraud detection in financial services
- Remote surgery, AI-assisted diagnostics and connected medical devices in healthcare
- Edge AI, digital twins and autonomous robotics in manufacturing
- Real-time inventory, personalized engagement and dynamic pricing in retail
- Secure critical infrastructure and citizen services in government

In modern hybrid cloud environments, networks and business processes may span multiple locations and great distances, making it vital to maximize reliability and minimize latency. Equally, regulations such as DORA, PCI DSS and HIPAA require continuous compliance and robust data protection across distributed architectures.

Low network performance and unreliable connections are damaging enough when they delay employees or negatively impact customer experience. When they interrupt real-time business processes and break workflows between critical applications, these network issues can cause huge financial losses, destroy customer trust and even put lives at risk.

Network security is equally vital, with information security spend set to rise more than 11% year-on-year until 2028 and 17% of cyberattacks to involve GenAI by 2027.<sup>1,2</sup>

What's more, the challenges around networking are only going to grow as data volumes rise in the age of AI.

Legacy networks create data bottlenecks that starve AI models, leaving high-cost GPU clusters idle and stalling new initiatives. In addition to being expensive and difficult to run, these unmodernized networks cannot meet the high-bandwidth, low-latency demands of agentic AI and real-time inference workloads. They also lack the granular visibility and zero-trust segmentation necessary to protect distributed data across cloud, edge and partner platforms. As AI-powered cyberattacks ramp up, the security risks are growing fast.

In a recent survey, just 13% of organizations reported that they exclusively use the public cloud; most run across a hybrid of private and public.<sup>3</sup> This creates tooling silos and limits cross-environment visibility, making most organizations prime candidates for network modernization. Further demand for network is seen in the fact that 30% of enterprises plan to automate more than half of their network activities by 2026, an increase from under 10% in mid-2023.<sup>4</sup>



# Kyndryl Network Modernization

Kyndryl Network Modernization empowers enterprises to modernize their IT infrastructure for efficiency, growth and competitive advantage. Built on zero-trust security principles, our end-to-end services transform networks from bottlenecks into business enablers — designed to unlock AI, accelerate digital initiatives and secure the enterprise.

## 1. Strategic Planning and Modernization

- Provide strategic advice to evaluate current network infrastructure, identify gaps, and create modernization roadmaps to enhance performance, cut downtime, and unlock scalability.
- Conduct lifecycle health checks to identify obsolete hardware/software and plan smooth, low-risk transitions to new technology.
- Simplify IT by rationalizing and integrating networks to remove complexity and streamline operations.

## 2. Intelligent and Automated Operations

- Integrate AI into network operations for real-time insights, predictive analytics, and self-healing capabilities.
- Introduce telemetry, automation, and machine learning for adaptive networks that optimize performance and respond to changing conditions.
- Eliminate manual processes through policy-based automation and orchestration to improve agility, reduce errors, and accelerate deployment.
- Deliver full-stack observability to detect, diagnose, and remediate issues before they impact users.

## 3. Advanced Security and Compliance

- Implement zero-trust architectures with robust verification across users, devices, and workloads.
- Apply micro-segmentation to limit lateral movement and reduce attack surfaces.
- Deploy SASE to converge SD-WAN with cloud-native security for secure, seamless access anywhere.
- Ensure quantum-safe networking for long-term data integrity.
- Operate Security Network Operations Centers (SNOC) for faster threat detection, enhanced cyber resilience, and 24/7 visibility.
- Embed compliance requirements into network design for regulatory readiness.

## 4. Cloud, Edge and Multi-Cloud Enablement

- Optimize networks for cloud-first enterprises with elastic scaling and OPEX-aligned models.
- Enable edge and edge AI workloads for low-latency, high-performance processing close to data sources.
- Integrate multi-cloud environments for seamless connectivity and consistent performance across public and private clouds.

## 5. Managed Services and Global Delivery

- Offer managed network services with flexible models — fully outsourced or co-managed — backed by rigorous SLAs and service assurance.
- Deliver consistent, scalable services globally through a strong local presence.
- Optimize cost and performance across hybrid and cloud environments.
- Benefit from a robust partner ecosystem for certified expertise across leading OEMs and service providers.

Kyndryl enjoys global recognition for the quality of our modernization services, including:

### 2025 Google Cloud Global Partner of the Year Award for Infrastructure Modernization:

“Kyndryl’s comprehensive infrastructure modernization services have allowed customers to improve some of their most foundational operations and set up for success with generative AI.”<sup>5</sup>

### Leader in IDC MarketScape Worldwide Hybrid IT Consulting and Integration Services 2025:

“Kyndryl’s ability to understand their customers’ business objectives, coupled with its capabilities for insights across the IT estate, was viewed favorably among customers and study participants, which rated Kyndryl highly for its ability to increase business agility, accelerate speed of deployment and improve compliance.”<sup>6</sup>

## Benefits

With Kyndryl Network Modernization, organizations can enhance their ability to compete in the AI-powered, cloud-first economy. Our deep expertise in mission-critical infrastructure, combined with AI-driven intelligence and global-scale delivery, positions us to create networks that unlock innovation, accelerate ROI and help secure the digital enterprise.

### 1. Accelerate AI Initiatives

- Enable real-time AI inference and training with high-bandwidth, low-latency connectivity.
- Support agentic AI workloads by handling unpredictable data flows.
- Optimize performance to cut AI deployment time and achieve higher ROI.

### 2. Strengthen Security and Resilience

- Protect against AI-powered attacks and emerging quantum threats.
- Reduce incident response times and simplify policy changes with unified security platforms.
- Ensure resilient, always-on networks to prevent costly outages.

### 3. Boost Efficiency and Lower Costs

- Automate network operations with self-healing capabilities to cut unplanned downtime.
- Accelerate provisioning through intelligent SDN platforms.
- Reduce infrastructure and operational costs via automation and simplified management, freeing capital for innovation.

### 4. Enhance Connectivity and Experience

- Deliver seamless, secure connectivity for hybrid workforces with SASE and SD-WAN.
- Enable real-time collaboration and productivity for distributed teams.
- Maintain consistent, high-quality connections to reduce customer abandonment and improve satisfaction.

## Kyndryl capabilities

As one of the largest global providers of IT infrastructure services, Kyndryl draws on decades of experience managing enterprise-grade systems in highly regulated industries. With mission-critical expertise across resiliency, cloud, network infrastructure and security, we have the right skills to modernize your networks.

Our comprehensive lifecycle approach – from assessment and design to implementation and continuous optimization – helps keep networks ready for whatever the future may hold. With local presence all around the world, we offer 24/7 global service delivery and consistent quality. Our automation accelerators allow for rapid, repeatable deployments that reduce time to value.

Kyndryl partners with leading technology providers, including Cisco, Fortinet, Nokia, Cloudflare, AWS, Azure and Google, to deliver best-in-class network modernization solutions.



## Why Kyndryl?

Kyndryl has deep expertise in designing, running, and managing the most modern, efficient and reliable technology infrastructure that the world depends on every day. We design, build, manage and modernize the world's critical technology systems. As the world's largest provider of IT infrastructure services, Kyndryl is committed to the health and continuous improvement of the vital systems at the heart of the digital economy. With our partners and thousands of customers worldwide, we co-create solutions to help enterprises reach their peak digital performance.

## Next steps

Ready to transform your network from a bottleneck into a business accelerator?

- Unlock AI at scale with high-performance, low-latency connectivity
- Enhance security and resilience against evolving cyber threats
- Accelerate digital transformation and competitive advantage
- Optimize costs while improving operational efficiency

Contact Kyndryl to schedule a [Network Modernization Assessment](#) and assess your network's readiness for AI transformation. [Learn more about our network modernization offerings.](#)

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4. [Gartner Says 30% of Enterprises Will Automate More Than Half of Their Network Activities by 2026](#), Gartner, September 2024
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