NTT DATA

Evolving for the future of healthcare with Edge as a Service

Enabling healthcare organizations
to engage everywhere and
deliver anywhere

Leveraging new technology to create greater opportunity for intelligent patient care

Healthcare is becoming more digitally driven, connected and reliant on data insights as the enterprise edge rapidly expands and the number of advanced network devices grows.

Industry-wide digital transformation is helping to identify, define and optimize advanced new use cases faster than ever. On top of this, emerging technologies are driving accelerated modernization.

This surge of new technological change means that healthcare organizations must create opportunities for better, more intelligent patient care and experiences.

It is critical for healthcare enterprises to position themselves at the forefront of edge solutions to accelerate their transformation and evolve to become the data-driven, digital healthcare companies of the future.

To do so, they require a partner that will deliver end-to-end full-stack Edge as a Service solutions, from edge computing to process data on the edge, private 5G networks to enable secure and fast connectivity, and IoT applications and devices to bring priority use cases to fruition.

With our help, healthcare organizations can intelligently modernize and digitize their capabilities while bridging the gap between IT and OT to drive real-time decision-making.

They will also gain enhanced tech capabilities, as well as the ability to unlock new use cases and create new business models and service lines that radically improve the patient experience.

How NTT's Edge as a Service capabilities deliver an improved patient experience

At NTT, we enable healthcare enterprises to accelerate digital transformation and leverage new and emerging tech that delivers edge-to-cloud solutions so organizations can gain a complete understanding of operations and perform complex analyses.

Through the **greater command and control of data**, we enable healthcare organizations to leverage learnings from the enterprise edge, where users, devices and critical use cases come together. And we distribute those learnings and data-driven insights back through the business via cloud to help meet wider requirements.

Our Edge as a Service offering is delivered and supported by secure connectivity from edge-to-cloud with a management layer for both, to allow greater visibility, cohesiveness and control. We enable **full visibility into all connected devices** and sensors through real-time analytics.

Because we own our global data centers, and leverage our advanced **Smart World Platform** for use case data analytics, we can **unify diverse data into a common structure quickly**, while delivering AI analytics and machine learning capabilities to support real-time decision-making.

Our **private 5G network solutions** deliver fast and secure network connectivity with high-speed, ultra-low latency bandwidth to enable mission-critical use cases and data analytics; maintaining enterprise security on the edge. Together with edge computing, we deliver full automation, advanced network and performance analytics, as well as predictive AI to support scalable delivery.

We provide **right-fit solutions and expertise from the start**, delivered as a complete service, from a single trusted partner and designed to evolve in line with business needs. This means we meet even the most complex and extreme digitization requirements with low latency, **while unifying data at every level of the business.**

Our Edge as a Service offering can support healthcare use cases including:

- Improved patient experiences with 5G-enabled remote and on-prem monitoring
- Patient fall detection and accident prevention with machine vision cameras and sensors
- Accurate, real-time equipment and inventory tracking in any environment with a network of secure IoT devices
- Automated data collection and analysis with advanced cloud, network and data center capabilities

Leverage the benefits of NTT Edge as a Service to accelerate digital transformation

We enable healthcare organizations to gain complete visibility and observability of all data to: unlock new use cases like mobile polysomnography, wireless patient rooms, mobile workspace connectivity, telesurgery or speech recognition for documentation supported by AI.

Through greater efficiency and agility, we help healthcare organizations achieve faster time to diagnosis, drive increased patient safety and satisfaction and support optimal healthcare outcomes.

We provide frontline healthcare staff with real-time patient insights to improve assurance and increase productivity through better responsiveness. And because we **can make data more readily available and securely shareable, we can increase the levels** of collaboration among care providers to help ensure better continuity of care.

Delivering operational efficiency, ROI and speed to value gains while being more secure

We help increase operational speed and enhance efficiency through real-time decision-making, ensuring faster time to market and faster time to ROI. By linking priority use cases enabled by edge solutions to business metrics, we can deliver increased performance insights and customer value.

We protect business operations too through built-in security from the network layer up, ensuring reliable uptime and protecting business reputation.

Enabling real-time decisions through greater insights, and command and control

We deliver increased observability at a global scale across the entire business to enable greater insights, command and control of enterprise edge-to-cloud solutions, to help organizations mitigate risk and become more resilient.

Our advanced, predictive network analytics help businesses pre-empt change and get ahead of potential threats to become more proactive. And we minimize the complexity of managing diverse environments to help empower decision-makers and keep the business' focus on critical strategic ambitions.

Digitizing and modernizing business capabilities

We understand the rapid digitization requirements of today's businesses and can enable accelerated, business-wide transformation in even the most complex environments. We ensure a right-sized fit and deliver a CIO-friendly managed service pricing model to reduce investment risk and deployment flexibility.

Our fully managed, full-stack service grows with business requirements, combining complete solutions for edge computing, private 5G and IoT applications and devices to make organizations inherently more digital by default. And we can support innovation through advanced predictive analytics and decision-making such as AI and ML.

Empowering businesses to deploy edge use cases and evolve to be more adaptable

Through increased cohesion and new tech, we can expand emerging use cases while supporting businesses to identify the most relevant initiatives to drive growth. We help our clients build from a single use case and bring global availability and scalability to deploy learnings across the entire organization at speed.

We deliver continual innovation in a rapid, iterative way across every area of operations to accelerate the creation of new service offers and business models. And we enable increased adaptability and flexibility by providing optimized, secure access to SaaS apps.

Why is NTT the best partner for healthcare organizations

We bring a true as a service model to accelerate transformation and deliver more complete and cohesive operational efficiency and control for healthcare organizations. We're different because:

Our unique offering is delivered under a single framework

Our single framework aligns with the way businesses operate, offering customized cost management responsiveness and true flexibility. We offer a single point of contact with complete support while our packaged, full-stack offering is completely unified.

We manage the entire tech stack as a part of a close, trusted and collaborative partnership model, enabling us to modernize operations quickly and without disruption.

We bring unmatched global delivery capabilities with specialized local relationships

We provide the strength of a global presence with highly precise local delivery capabilities while our experienced and dedicated on the ground experts can operate as part of local teams, supporting new projects, tech and innovation.

With over 5,000 full-time research professionals and more than 17,000 patents, we're also globally recognized for our innovation and thought leadership

We use a collaborative model with scalability built in for global enterprises

We have an unmatched depth and breadth of edge expertise and understand major global enterprise requirements, so we can support complex workload management. And we bring enhanced capabilities through our unique relationships with private 5G partners such as Celona, Cisco and hyperscale HCI from Microsoft Azure and VMWare's edge computing stack.

We're an award-winning partner with a world-class network and global data centers

We provide uniquely powerful, award-winning and globally recognized Tier 1 network capabilities for extreme low latency and seamless integration with our partners to deliver the best possible technology across applications, cloud, data centers, networking and security.

A proven track record of success

We work with global businesses across a range of sectors including manufacturing, logistics, transportation, retail and healthcare.

HÔPITAUX ROBERT SCHUMAN

Award-winning Network Services

NTT DATA has been awarded a Leader position in Everest Group's 5G Engineering Services PEAK Matrix® 2023 Report

[**Read more**]

NTT has been recognized as a Leader in the 2023 Gartner ® Magic Quadrant™ for Network Services, Global* for the tenth consecutive year, and is positioned highest on Ability to Execute and furthest in Completeness of Vision for the third consecutive year.

Case study: Hôpitaux Robert Schuman

We partnered with Hôpitaux Robert Schuman (HRS) to leverage the speed and security of 5G to connect patients and doctors to health related Internet of Things (IoT) devices for faster diagnosis and treatment. This enabled HRS to:

- Connect apps, services and health-related IoT devices with an open digital health platform to exchange sensitive data
- Receive and share patient information securely and in real-time to diagnose and treat patients and improve patient outcomes
- Collate and analyze data to reveal important information about health trends
- Remotely monitor discharged patients with telemedicine to address problems early
- Lay the foundation for future 5G use cases with a fully-compliant platform

*Gartner, Magic Quadrant for Network Services, Global. Danellie Young, Karen Brown, Gaspar Valdivia, 22 February 2023

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Engage everywhere. Deliver anywhere.

Our complete Edge as a Service offering delivers end-to-end and full-stack edge-to-cloud solutions, including full integration and managed services for private 5G, IoT and edge computing.

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We help healthcare businesses like yours become faster, more cohesive and connected across every area of operations; while gaining complete control, command and visibility into data – everywhere.

We deliver all of these under a single framework for increased flexibility and bring world-class network capabilities, global data centers and unmatched worldwide delivery capabilities to drive accelerated transformation.

So you can engage everywhere and deliver anywhere.
Contact us now.

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