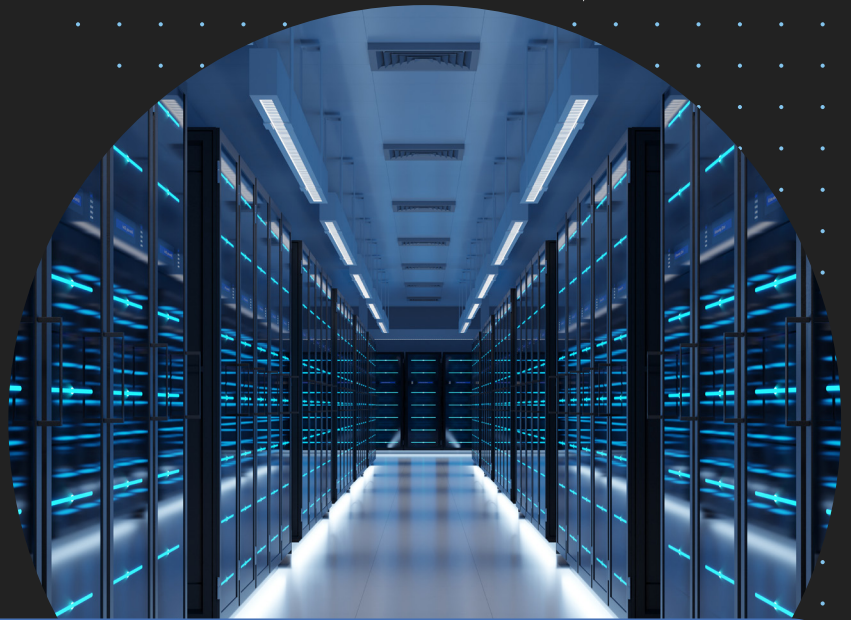*Solution Profile*

# Hitachi iQ

**Accelerating Success: Custom AI Solutions
That Deliver Industry-Specific Outcomes**

## *Fast and Efficient Results*

Harness the power of validated and seamlessly integrated industry-leading AI technologies to accelerate your transformation journey and quickly gain insights.

## *Timely and Accurate Decisions*

Ensuring data is relevant and accessible for AI applications and analytics, while prioritizing security and compliance.

## *Industry Relevant, Meaningful Outcomes*

Recognizing not all organizations possess the AI skills for their industry, we bring our expertise to help bridge the gap, creating cutting-edge AI applications, accelerating your outcomes.

## Unlocking AI Potential with Robust Data Infrastructure

A robust data infrastructure is pivotal for the success of artificial intelligence (AI) systems. It ensures the efficient collection, storage, and management of data, which is essential for training accurate and reliable AI models. By facilitating streamlined data integration and accessibility, a well-constructed data infrastructure enhances the scalability and adaptability of AI solutions across various applications. Furthermore, it supports rigorous data governance and security measures, crucial for maintaining data integrity and compliance with regulatory standards, thereby fostering trust and enabling more innovative AI deployments.

## Deliver fully integrated solutions that enable organizations to leverage AI technology no matter where your data resides

Organizations are constantly looking for ways to automate their business, accelerate time-to-market and develop new insights, products, or innovations to propel their business forward. Hitachi iQ allows organizations to automate, expedite, and streamline their business through intelligent, performant, scalable and flexible AI and GenAI solutions.

Unlike conventional AI offerings, Hitachi iQ transcends basic integration and storage capabilities by also layering industry- specific AI outcomes within the AI solution. This approach ensures outcomes are finely tuned to each organization's unique needs and objectives.

Hitachi iQ is the only accelerated solution on the market that provides unified access to data irrespective of where it resides while ensuring explainability, lineage, data accuracy, security, and traceability at any given point for mission critical solutions.

Optimize AI deployments with an end-to-end software-defined AI and data analytics software to streamline development and deployment of production-grade AI applications, from pilot to production.

### Hitachi iQ is the flagship AI portfolio from Hitachi, powered by NVIDIA® technologies.

Finance

Energy

Transportation

Media & Entertainment

Manufacturing

Healthcare

Hitachi iQ leverages its deep domain experience with 110+ years of experience in the Operational Technology (OT) market in industries such as finance, transportation, energy, media & entertainment, manufacturing, and healthcare.

With Hitachi's OT and IT legacy, the Hitachi iQ portfolio integrates infrastructure and capabilities to deliver industry-specific AI solutions tailored to our customers' needs.
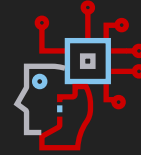
## General Purpose AI Use Cases

The possibility of AI and Generative AI in the market is endless.

The industry is using this for everything from creating art and graphic design elements to writing code and generating

marketing tag lines. The use cases are endless. These popular use cases can be used to provide immediate benefit to any organization.

Whether you are looking for industry specific AI solutions or just starting to identify general-purpose capabilities, AI has the power to automate your business processes and improve on your customer experience.

- **Customer Service Voice Assistant:** Customer services assistance revolutionizes customer service with its advanced voice recognition technology, offering real-time responses and personalized assistance. These virtual assistants streamline interactions, ensuring customer queries are handled efficiently and with a human touch.

- **LLM Recommender System:** Leveraging the power of Large Language Models, recommender systems deliver highly accurate, context-aware suggestions. It personalizes content, products, and services, making discovery seamless and engaging.

- **Coding and Development Copilot:** Copilots can act as an invaluable partner in the development process, offering real-time suggestions, debugging assistance, and code optimization. It accelerates development cycles and enhances code quality by leveraging advanced AI algorithms.

- **Automated Document Processing and Analysis:** This use case applies AI to streamline the processing, analysis, and management of large volumes of documents within enterprise environments. By automating tasks such as data extraction, categorization, and summarization, businesses can significantly reduce manual workloads, improve accuracy, and enhance decision-making processes across various departments like finance, HR, and legal.

- **Financial Reporting & Accounting:** By utilizing large language models that specialize in tax, accounting, cash flow, & more, these solutions can reduce the repetitive tasks that workers and consultants are required to do, helping streamline operations & reduce errors for data entry, transaction categorization, and invoice processing.

- **Edge Inference:** Edge Inference technology brings AI computing closer to the data source, minimizing latency and enhancing real-time decision making. It's ideal for applications requiring instant analysis and action, from autonomous vehicles to smart city infrastructure.
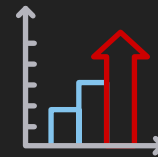


### PERSONALIZE YOUR AI
Built to meet the rigors of AI, engineered for industry outcomes, but customized to your needs.



### ACHIEVE FASTER INSIGHT
Accelerated architecture delivers massive performance starting at 600GB/s and 22M IOPs resulting in as much as a 20x improvement in GPU resource utilization through improved processing.



### SIMPLIFY TO SCALE
Validated designs and solution blueprints provide the flexibility and scale to rapidly develop, test, and deploy modern AI solutions while adapting to fluctuating customer workload demands.
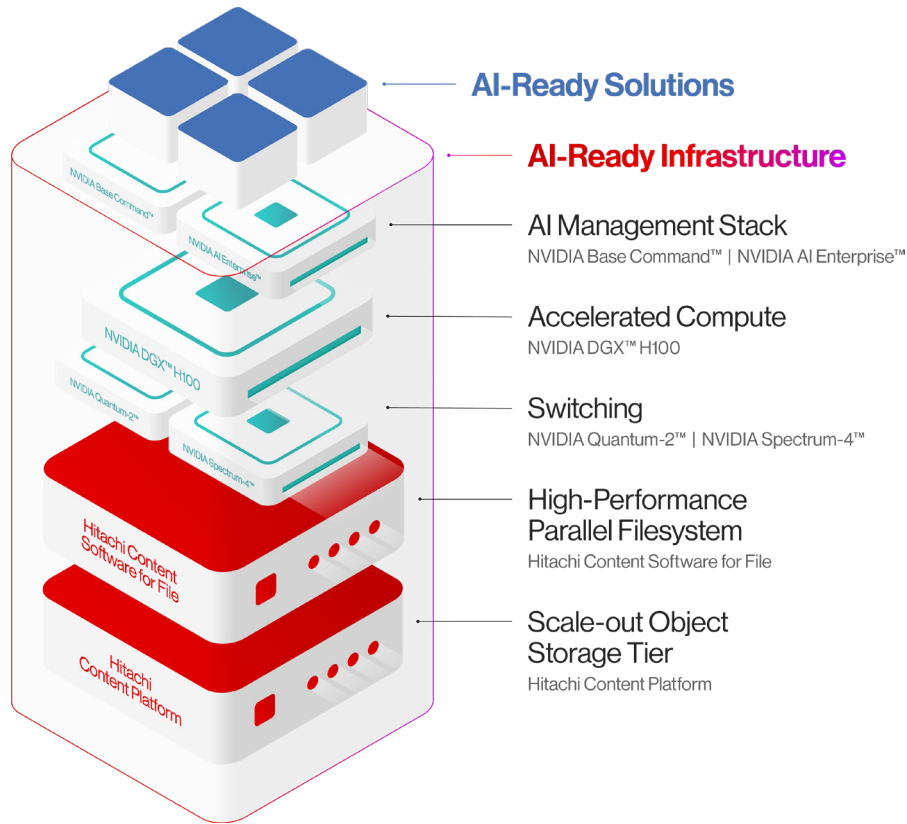


### LOWER TCO
Leverage lower cost, erasure coded, scale out object storage to safeguard data, catalog for re-use and store data long term while optimizing costs.



### IMPROVE ACCURACY
Increase quantity and quality of data to improve reliability of results. Identify, classify, transform, move, consolidate and prepare data to get the most value out of AI/ML initiatives.

## Hitachi iQ Integrated AI Solutions



**AI-Ready Solutions**

**AI-Ready Infrastructure**

AI Management Stack
NVIDIA Base Command™ | NVIDIA AI Enterprise™

Accelerated Compute
NVIDIA DGX™ H100

Switching
NVIDIA Quantum-2™ | NVIDIA Spectrum-4™

High-Performance
Parallel Filesystem
Hitachi Content Software for File

Scale-out Object
Storage Tier
Hitachi Content Platform

## Speeding AI Outcomes with Hitachi Content Software for File

Hitachi Content Software for File is engineered to boost AI, ML, and analytics capabilities by providing a high-performance filesystem optimized for these workloads. It seamlessly blends the speed of a POSIX-compliant file system with the scalability and cost-efficiency of Hitachi Content Platform's object storage, making it ideal for handling large-scale, diverse data sets essential for machine learning and data analytics. Hitachi's ability to support both file and object protocols simplifies data ingestion and management, while robust metadata-driven automation enhances data preparation, model training, and inference processes. This integration reduces deployment complexity and accelerates time to insight, positioning it as a valuable tool for advanced, data-intensive applications.

"Hitachi iQ will provide us with a seamless integration experience, allowing us to maximize efficiency without the need for extensive troubleshooting. It will streamline our processes and enhance reliability across our organization."

**George Stephen**
Digital Product Manager - Global Storage
Allstate Insurance Companies

**Allstate**®

## Optimizing AI Costs and Scalability with Hitachi Content Platform

The Hitachi Content Platform (HCP) excels in delivering high-performance object storage ideal for AI, machine learning, and analytics applications. It features robust hybrid cloud capabilities, facilitating seamless data management across different cloud environments and enhancing scalability and accessibility. Key features include comprehensive data protection measures like end-to-end encryption and compliance with public cloud APIs, which assure security and regulatory compliance. HCP also offers intelligent data management with advanced metadata handling and content intelligence capabilities, enabling effective data analysis and augmentation during ingestion. These features collectively make HCP a powerful tool for organizations looking to leverage complex AI algorithms and large datasets efficiently.

### *About Hitachi Vantara*

Hitachi Vantara is transforming the way data fuels innovation. A wholly owned subsidiary of Hitachi, Ltd., we're the data foundation the world's leading innovators rely on. Through data storage, infrastructure systems, cloud management and digital expertise, we build the foundation for sustainable business growth.

**Hitachi Vantara**
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