

Solution Profile

Hitachi iQ Studio

The shortest distance from AI to ROI



Agent Creation & Orchestration

No/low-code agent builder, ready-to-use agent templates and agent orchestration for complex, multistep workflows

Enterprise Governance & Security

Configurable guardrails, sandbox environment for risk-free testing and compliance-ready audit trails, time-travel and conversation logs

Hitachi iQ Integration

Seamless connection to model serving frameworks, optimized vector database, self-service model manager, full-stack observability and monitoring

Simplify AI adoption and deliver meaningful results.

Organizations are constantly looking for ways to automate, accelerate time-to-market and develop new insights, products or innovations to propel their business forward. And now AI and generative AI (GenAI), technologies are revolutionizing industries by enhancing existing capabilities and transforming how quickly and creatively business problems can be solved.

But they also come with the challenges of designing and managing complicated systems and ensuring that the resulting solution meets their requirements and solves their business problems.

Hitachi iQ Studio software addresses a variety of workloads and use cases and can span from general-purpose AI capabilities to bespoke industry-specific applications.



Accelerate ROI

Generate business impact in weeks with pre-integrated components and industry algorithms.



Democratize AI

Teams with limited AI expertise can develop agents without learning to code.



Sovereign AI

Implement responsible AI practices while preserving control over models and processing

Hitachi iQ Studio

Hitachi iQ Studio is an enterprise AI development and deployment platform created to help organizations design, build and roll out general-purpose and industry-specific AI and ML solutions at scale.

The iQ Studio software and blueprint library accelerates time-to-value for advanced analytics, machine learning and AI. It combines the latest innovations in natural language processing (NLP), GenAI retrieval augmented generation (RAG) and reinforcement learning with AI development and deployment. This comprehensive studio is engineered to revolutionize the entire life cycle of general-purpose AI workloads and to address industry-specific AI use cases.

iQ Studio elevates AI infrastructures into complete, sovereign AI platforms helping maintain full control over data, models and AI operations while accelerating time to value. iQ Studio software is a software stack based on proven models, battle-tested industry algorithms and use cases that empower organizations to build both AI/ML applications as well as GenAI applications.

Design, Build and Deploy AI Agents

Hitachi iQ Studio includes GenAI accelerators and a self-service no/low-code agent builder to shrink skill gaps and fast-track insights. It integrates with the [NVIDIA® AI Data Platform](#) for intelligent, context-aware responses. MCP connectors

provide quick access to data, simplifying agent design and streamlining AI solutions from prototype to production in days.

For traditional AI/ML applications, this stack enables building and training of models, and deployment and management of those models at scale, while monitoring their performance in production. For GenAI applications, this stack allows for model and prompt management, data curation with feedback loop, monitoring and deployment.

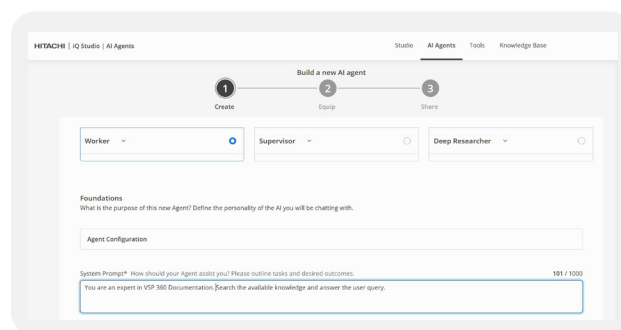


Figure 2:

Ensure AI Sovereignty and Governance

Hitachi iQ Studio, together with Hitachi iQ infrastructure, creates a governed, sovereign AI environment that keeps data, models and innovation under enterprise control. Customers own their platform, their data and their outcomes.

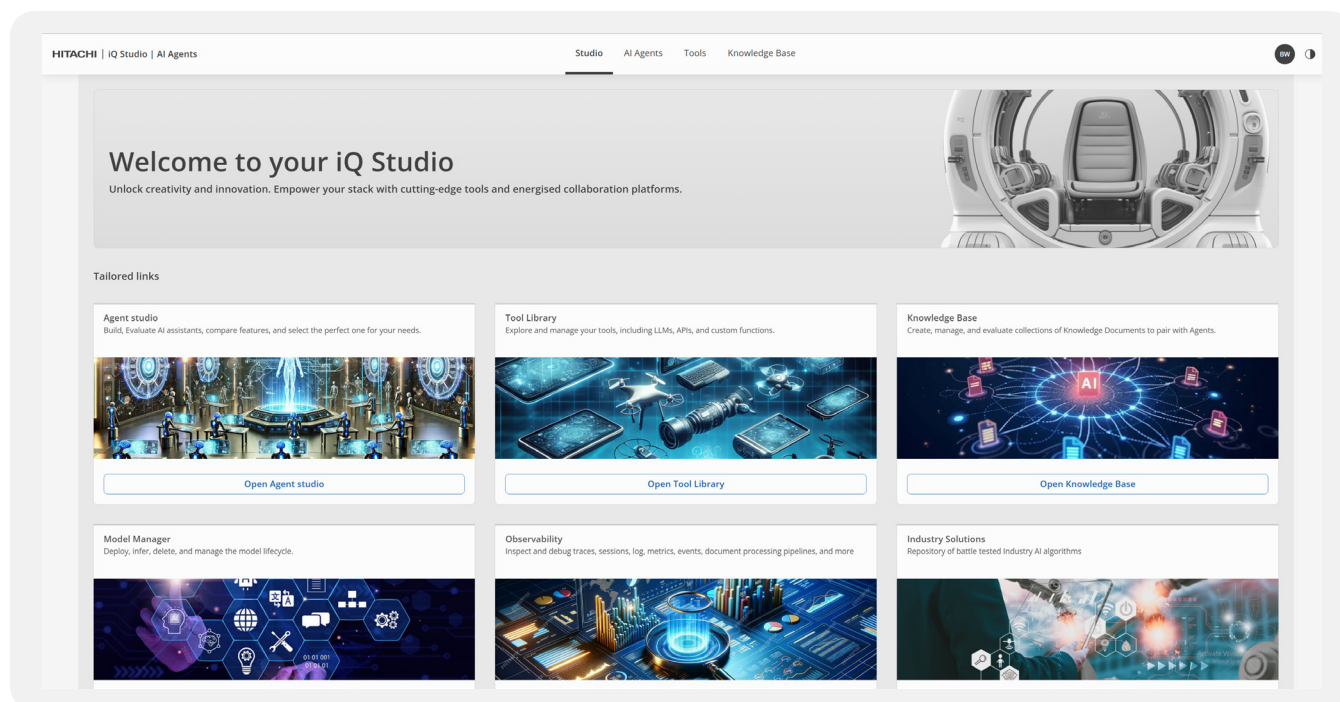
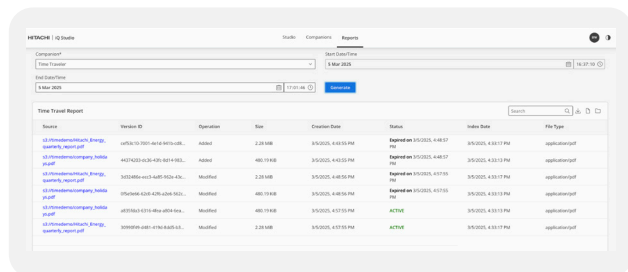


Figure 1: Hitachi iQ Studio user interface.

Validated models running on Hitachi iQ infrastructure help maintain ownership and control of data by running sovereign AI stacks on premises for complete control over data to ensure AI governance and security. Configurable guardrails prevent harmful or biased outputs. A sandbox environment offers risk-free testing before agent deployment. And compliance-ready audit trails, time-travel and conversation logs provide auditability and explainability of AI outputs.



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Figure 3:

Lay the Foundation for AI Solutions

Hitachi iQ Studio with Hitachi iQ infrastructure delivers the tools to tackle almost any AI workload, from general-purpose to industry-specific use cases. General use cases include:

- **Data Analysis and Transformation.** Process data into meaningful insights and convert data to new formats, making it more usable and accessible for different applications.
- **Process Automation and Optimization.** Streamline, enhance and automate a variety of business processes, resulting in improved productivity and reduced costs.
- **Conversational AI and Virtual Assistants.** Create instinctive and intelligent communication systems that can interact with others through natural language, to save time and improve customer service and satisfaction.
- **Information Exploration and Decision Support.** Discover, analyze and interpret data to make more informed and insightful decisions.
- **Content Generation and Personalization.** Produce tailored content that meets the specific requirements and preferences of individual users, leading to increased customer engagement and fulfillment.

In our industry-specific use cases, our 100 years of domain expertise in industries such as rail, energy, manufacturing, transportation and more can help deliver outcome-led designs engineered with bespoke customization and delivery.

Solutions for Scalable Performance and Resiliency

Hitachi iQ integrated solutions deliver extreme performance and resiliency at scale and make your AI infrastructure simpler and faster to design, deploy and manage.

Whether building specific AI solutions or just starting to identify general-purpose capabilities, Hitachi iQ has the power to automate your business processes and improve your AI experience, regardless of your chosen AI projects.

Unlock the full potential of your AI initiatives with Hitachi Vantara today.

Learn more →

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.

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