

Mission-Ready Infrastructure

Building the Foundation for AI, Resiliency,
and Modern Government Operations

HITACHI

Executive Summary

Federal agencies are entering a new era where infrastructure has once again become strategic.

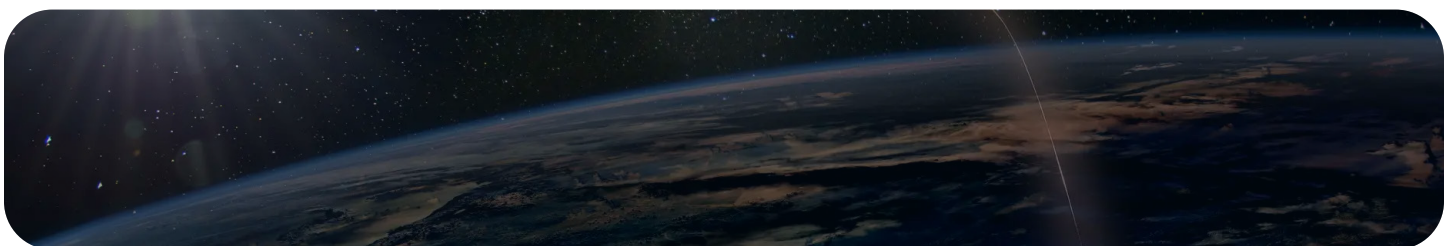
The rapid acceleration of artificial intelligence (AI), cyber resiliency mandates, hybrid cloud operations, and explosive data growth is fundamentally reshaping the requirements placed on modern infrastructure environments. Infrastructure decisions that were once viewed primarily as operational IT concerns now directly impact mission readiness, operational continuity, AI scalability, cybersecurity posture, and long-term modernization success.

Industry analysts and government modernization initiatives increasingly recognize that infrastructure maturity will determine which organizations successfully operationalize AI and which organizations struggle under the weight of fragmented architectures, operational silos, and aging systems.

Federal modernization initiatives such as Zero Trust, cloud modernization, AI enablement, and cyber resiliency all ultimately rely on a modern infrastructure foundation capable of efficiently storing, moving, protecting, managing, and operationalizing data to deliver mission outcomes.

Mission-Ready Infrastructure is Hitachi Federal's framework for helping agencies modernize the infrastructure layer supporting modern mission operations. Rather than forcing agencies into disconnected point solutions or rigid proprietary architectures, Hitachi Federal delivers integrated infrastructure solutions designed to simplify operations, improve resiliency, support AI initiatives, and enable long-term scalability across increasingly complex environments.

Through solutions spanning unified data infrastructure, compute, AI infrastructure, cyber resiliency, networking, hybrid cloud operations, Infrastructure-as-a-Service, and unified operations management, Hitachi Federal serves as a strategic infrastructure partner helping agencies modernize the operational foundation behind mission success.



Why Infrastructure Matters Again

For years, infrastructure was often viewed as a back-office operational necessity, important but secondary to applications, analytics, and mission systems.

That has changed.

Today, infrastructure has become one of the most strategic layers in modern government IT because every modernization initiative now depends on data, and every data strategy ultimately depends on infrastructure.

Whether agencies are pursuing AI, cyber resiliency, analytics modernization, digital services, mission systems modernization, or hybrid cloud operations, infrastructure has become the operational foundation enabling those capabilities.

At the same time, infrastructure environments are becoming more complex. AI workloads require accelerated compute, scalable storage, high-performance networking, and operationalized data pipelines. Cyber resiliency initiatives require immutable storage, recovery architectures, and centralized operational visibility. Hybrid cloud adoption continues expanding infrastructure operations across on-premises, edge, colocation, and cloud environments.

The result is growing infrastructure sprawl, fragmented operations, disconnected management tools, and increasing integration complexity.

Agencies can no longer thrive with disconnected infrastructure products.

They need integrated, mission-ready infrastructure architectures.

The New Infrastructure Requirement

Mission-Ready Infrastructure:

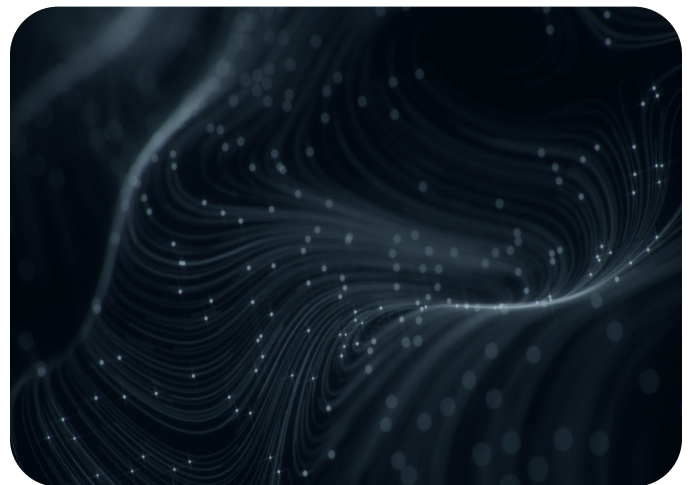
Mission-Ready Infrastructure is Hitachi Federal's framework for designing and modernizing the infrastructure foundation that enables modern mission operations.

It represents an integrated approach to infrastructure that brings together storage, compute, networking, cyber resiliency, AI infrastructure, data management, hybrid cloud operations, and unified observability into a cohesive operational architecture built for the realities of modern government environments.

Mission-Ready Infrastructure is designed not only to support today's mission-critical enterprise workloads, but also to enable the next generation of AI-driven operations, advanced analytics, cyber operations, high-performance computing, and data-intensive mission systems.

This shift is significant because infrastructure is no longer simply supporting the mission behind the scenes. Infrastructure has become a direct enabler of mission readiness itself.

Modern agencies must support increasingly complex environments while maintaining flexibility. Government organizations do not want rigid proprietary architectures or infrastructure strategies that force them into closed ecosystems.



They need infrastructure platforms capable of integrating across existing enterprise technologies, cloud platforms, AI frameworks, cybersecurity tools, and mission applications.

Mission-Ready Infrastructure is intentionally designed around this reality.

Rather than forcing agencies to choose between modernization and flexibility, Mission-Ready Infrastructure emphasizes interoperability, integration, and operational simplicity.



It enables agencies to modernize incrementally, integrate across existing ecosystems, and simplify infrastructure operations while preparing for future growth.

Ultimately, Mission-Ready Infrastructure creates a more unified operational foundation designed to simplify management, improve resiliency, accelerate modernization, and allow agencies to focus more on mission outcomes instead of infrastructure complexity.

Why Hitachi Federal for Mission-Ready Infrastructure

The Infrastructure Partner for Modern Government:

Hitachi Federal is uniquely positioned to help agencies modernize the infrastructure layer supporting mission operations.

Unlike vendors focused on a single infrastructure category, Hitachi Federal delivers a comprehensive infrastructure portfolio spanning unified data infrastructure, compute, AI infrastructure, cyber resiliency, networking, hybrid cloud operations, Infrastructure-as-a-Service, and unified operations management.

More importantly, Hitachi Federal approaches infrastructure differently.

Rather than forcing agencies into isolated product silos, Hitachi Federal delivers integrated infrastructure solutions intentionally engineered to work across modern enterprise ecosystems.

Designed for Integration — Not Lock-In:

Government agencies operate highly diverse environments, and modern infrastructure must integrate with existing enterprise architectures and strategic technology investments.

Hitachi Federal solutions are intentionally engineered to integrate across modern enterprise ecosystems, enabling agencies to modernize infrastructure without disrupting existing operations or investments. This includes seamless integration with widely deployed enterprise technologies and platforms from providers such as Oracle, SAP, VMware, Cisco, Red Hat, and NVIDIA, while also supporting Kubernetes environments, hybrid cloud platforms, and existing storage and compute infrastructures already operating across the enterprise.

This interoperability reduces integration burden and simplifies modernization. Agencies should not need to redesign their environments every time they modernize infrastructure. Instead, infrastructure should simplify integration and enable agencies to modernize incrementally while preserving existing investments.

Designed for Operational Simplicity:

As infrastructure environments become more integrated and distributed, agencies increasingly need operational models that simplify management, visibility, support, and lifecycle operations across the enterprise.

Hitachi Federal helps address this challenge through unified operations, centralized observability, and integrated support models designed to reduce operational complexity across modern infrastructure environments.

Solutions such as VSP 360 provide centralized operational visibility and infrastructure intelligence across storage, compute, networking, AI, and hybrid cloud operations, helping agencies simplify lifecycle management, improve operational insight, automate infrastructure operations, and reduce management silos.

Hitachi Federal also delivers infrastructure solutions and services specifically aligned to government operational requirements, including cleared U.S.-based support, secure supply chain alignment, federal infrastructure expertise, and mission-focused delivery.

Together, these capabilities help agencies simplify infrastructure operations while focusing more resources on mission execution instead of managing fragmented infrastructure ecosystems.

The Mission-Ready Infrastructure Portfolio

Modern government infrastructure is no longer a collection of isolated products.

It is an integrated operational ecosystem designed to move, protect, operationalize, and manage data across mission environments.

Hitachi Federal delivers infrastructure solutions spanning the full infrastructure lifecycle, helping agencies modernize data environments, operationalize AI, strengthen cyber resiliency, simplify hybrid operations, and improve operational visibility across increasingly distributed infrastructures.

Unified Data Infrastructure

The VSP One Platform:

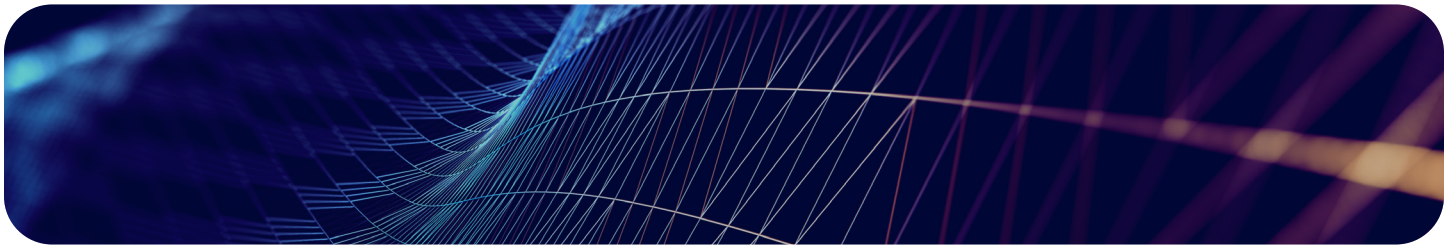
As agencies modernize for AI, hybrid cloud operations, cyber resiliency, and rapidly growing data environments, traditional storage architectures built around isolated platforms and operational silos are becoming increasingly difficult to manage and scale.

To address this challenge, Hitachi Federal delivers the VSP One platform, a unified data infrastructure platform designed to simplify how agencies store, manage, protect, and operationalize data across mission environments.



Rather than treating block, file, and object storage as separate infrastructure silos, VSP One brings these environments together through a consolidated architecture built on a common operating framework designed to improve operational consistency, simplify management, and support long-term scalability across the enterprise.

This unified approach helps agencies reduce operational complexity while supporting both traditional enterprise workloads and next-generation AI-driven operations.



Core Enterprise Block Infrastructure

VSP One Block:

Block infrastructure remains the operational foundation supporting many of the government's most mission-critical systems, including transactional databases, ERP platforms, virtualization environments, and mainframe operations.

Hitachi Federal delivers enterprise block infrastructure through VSP One Block and VSP One Block High End, platforms engineered to support mission-critical workloads requiring performance, resiliency, scalability, and continuous availability.

With capabilities including enterprise resiliency, operational consistency, external virtualization, integrated data reduction technologies, and support for mainframe environments, VSP One Block helps agencies modernize infrastructure while simplifying operations across core enterprise systems.

File Infrastructure for AI & High-Performance Data Operations

VSP One File:

AI, analytics, and high-performance computing initiatives are rapidly increasing the importance of scalable file infrastructure capable of supporting massive unstructured data environments.

Hitachi Federal delivers scalable file infrastructure through VSP One File and Hitachi Content Software for File, helping agencies support AI pipelines, research environments, collaborative operations, analytics platforms, and high-performance data workflows.

These solutions are designed to help agencies operationalize large-scale data environments while improving performance, scalability, and operational flexibility across distributed infrastructures.

Object Infrastructure for Data Growth & Modern Archives

VSP One Object:

Modern agencies are generating and retaining unprecedented amounts of unstructured data driven by AI operations, digital modernization initiatives, cyber resiliency requirements, and long-term archival demands.



Hitachi Federal delivers scalable object infrastructure through VSP One Object, helping agencies modernize archival environments, support hybrid cloud data strategies, simplify long-term retention, and operationalize large-scale unstructured data repositories.

As agencies continue modernizing for AI and operational resiliency, object infrastructure becomes an increasingly important component of long-term data strategy.

Compute Infrastructure

Modern Compute for AI, Data-Intensive Operations & Mission Scale:

Modern infrastructure environments are placing new demands on compute architecture. Agencies increasingly require compute environments capable of supporting enterprise workloads, virtualization, containerized applications, GPU-accelerated AI operations, edge environments, and large-scale research and HPC workloads.

Hitachi Federal supports modern compute infrastructure through integrated infrastructure architectures and strategic technology partnerships designed to help agencies simplify modernization while preparing for future AI-driven operations.

This includes strategic alliances with Supermicro and NVIDIA to deliver high-performance compute platforms supporting enterprise modernization, accelerated computing, AI infrastructure, and mission-scale operations.

Rather than deploying disconnected compute, storage, networking, and AI environments independently, Hitachi Federal helps agencies build integrated infrastructure platforms designed to operate more consistently across the enterprise while improving scalability, resiliency, and operational visibility.

AI Infrastructure & Agentic AI Operations

Hitachi iQ:

As agencies move from AI experimentation to operational AI deployments, infrastructure requirements are rapidly evolving. Successfully operationalizing AI at scale requires integrated infrastructure capable of supporting accelerated compute, scalable data architectures, high-performance networking, operationalized AI pipelines, and continuous infrastructure visibility.

Hitachi Federal addresses this challenge through Hitachi iQ, an integrated AI infrastructure platform designed to help agencies operationalize AI across mission environments.

Hitachi iQ brings together accelerated compute, high-performance storage, scalable networking, AI data infrastructure, and integrated operational architectures into a unified AI-ready environment designed for enterprise and government operations.

However, infrastructure alone is no longer enough.

This is where Hitachi iQ Studio becomes a critical differentiator.

Hitachi iQ Studio serves as the operational and agentic AI layer built on top of the infrastructure stack, helping agencies operationalize AI environments through orchestration, automation, workflow management, and intelligent operational action across infrastructure and data operations.

Rather than simply providing infrastructure to run AI workloads, Hitachi iQ Studio helps agencies interact with, operationalize, and take action across AI environments more intelligently.

Together, Hitachi iQ and Hitachi iQ Studio help agencies move beyond isolated AI infrastructure deployments toward operationalized AI ecosystems capable of supporting mission-scale AI initiatives.



Cyber Resiliency & Data Protection

Modern Data Protection Infrastructure:

Cyber resiliency has become a foundational requirement of modern infrastructure strategy. Agencies must ensure critical data and infrastructure environments can not only be protected, but also recovered and operationalized quickly in the event of disruption.

Modern resiliency strategies now extend far beyond traditional backup. Agencies require integrated architectures capable of supporting immutable storage, resilient recovery environments, operational continuity, compliance requirements, and centralized visibility across increasingly distributed infrastructures.

Hitachi Federal helps agencies strengthen cyber resiliency through modern data protection and recovery solutions designed to integrate directly into broader infrastructure operations. This includes Hitachi Data Protection Suite (HDPS), backup modernization strategies, immutable storage architectures, and resilient recovery environments designed to improve operational continuity while simplifying protection and recovery operations across the enterprise.

Rather than treating cyber resiliency as a standalone security function, Hitachi Federal helps agencies embed resiliency directly into infrastructure strategy — improving recovery readiness, reducing operational risk, and supporting mission continuity across increasingly complex environments.

Networking, Hybrid Cloud & Infrastructure Operations

Modern AI, HPC, virtualization, and enterprise workloads require high-performance connectivity infrastructure capable of supporting low-latency, high-throughput operations across increasingly distributed environments.

Hitachi Federal delivers integrated SAN and networking infrastructure solutions, including Brocade SAN technologies and high-performance connectivity architectures designed to support scalable data movement, AI operations, enterprise virtualization, and mission continuity.

At the same time, agencies increasingly require infrastructure environments capable of operating consistently across on-premises, edge, colocation, and cloud environments.

Hitachi Federal helps agencies simplify hybrid infrastructure operations through integrated infrastructure platforms and EverFlex Infrastructure-as-a-Service offerings designed to provide operational flexibility, predictable lifecycle management, and scalable infrastructure consumption without increasing operational complexity.

As infrastructure environments continue expanding across hybrid cloud, AI, edge, and distributed mission operations, agencies are also increasingly challenged by fragmented operational visibility and disconnected management tools.

Hitachi Federal addresses this challenge through VSP 360, Hitachi's unified infrastructure operations and observability platform designed to provide centralized visibility, operational intelligence, automation, and lifecycle management across integrated infrastructure environments.

By bringing together infrastructure analytics, observability, automation, and operational intelligence into a centralized operational framework, VSP 360 helps agencies simplify management, accelerate troubleshooting, improve operational efficiency, and maintain operational readiness across distributed infrastructures.

Customer Examples

Modernizing Multimedia Archives:

A federal organization modernized its archival infrastructure environment to support rapidly growing multimedia and digital records requirements while simplifying operations and improving long-term scalability.

Centralizing Regional Data and Records:

A government organization consolidated fragmented regional data environments into a centralized infrastructure architecture, improving operational consistency, resiliency, and data accessibility across the enterprise.





Reducing Data Center Footprint:

A federal customer modernized legacy infrastructure environments to significantly reduce physical data center footprint while improving performance, operational efficiency, and scalability.

Mission-Ready Infrastructure for What Comes Next

The demands placed on government infrastructure will continue accelerating.

AI adoption will expand. Data environments will continue growing in scale and complexity. Cyber resiliency requirements will intensify. Hybrid operations will become more distributed. And agencies will continue facing pressure to modernize while maintaining operational continuity across increasingly complex mission environments.

In this environment, infrastructure can no longer be viewed as a collection of isolated technologies operating behind the scenes. Infrastructure has become the operational foundation enabling mission readiness, AI modernization, cyber resiliency, data-driven operations, and long-term operational agility.

This is why Mission-Ready Infrastructure matters.

Modern agencies require infrastructure architectures capable of simplifying complexity while supporting integration, resiliency, scalability, and future modernization across the enterprise. They need infrastructure environments that can integrate across existing ecosystems, operationalize AI more effectively, improve visibility across distributed operations, and support mission continuity without introducing additional operational burden.

Hitachi Federal helps agencies address these challenges through integrated infrastructure solutions spanning unified data infrastructure, compute, networking, AI infrastructure, cyber resiliency, hybrid cloud operations, Infrastructure-as-a-Service, and unified operational management.

Rather than forcing agencies into rigid architectures or disconnected modernization paths, Hitachi Federal enables organizations to modernize incrementally while simplifying infrastructure operations across increasingly distributed environments.

The future of government modernization will depend on infrastructure environments capable of operationalizing data, AI, resiliency, and mission systems together.

And increasingly, infrastructure readiness will determine mission readiness itself.