

IBM Storage as a Service for IBM DS8000 Offering Guide

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Introduction

Ever-increasing storage demands continue to affect IT budgets and complicate storage infrastructure management. Organizations are looking for ways to use their storage resources more efficiently while reducing the operational overhead of managing complex enterprise storage environments.

IBM® Storage as a Service for IBM DS8000® (IBM STaaS for IBM DS8000) addresses these challenges by delivering enterprise-class block storage through a flexible, consumption-based model. Rather than requiring large upfront capital investments and complex capacity planning, the service enables organizations to acquire storage capacity on demand and align costs with actual business consumption.

This offering guide provides an overview of how IBM STaaS for IBM DS8000 works, its performance tiers, lifecycle management model, pricing structure, and security capabilities. It also describes the IBM DS8000 technologies included with the service and the planning considerations required for successful deployment.

The offering supports FCP and FICON connectivity, IBM Z® storage environments, IBM Copy Services technologies, and cyber resiliency features such as Safeguarded Copy.

Purpose of this document

This document provides an overview of IBM® Storage as a Service for IBM DS8000® (IBM STaaS for IBM DS8000), a consumption-based enterprise block storage offering. It describes the service model, performance tiers, lifecycle management, pricing, security, and planning considerations for storage architects, IT managers, and procurement teams evaluating this offering.

The focus is on helping organizations understand how IBM STaaS for IBM DS8000 delivers enterprise-class DS8000 capabilities through a flexible, OpEx-funded consumption model—without the need for upfront capital expenditure.

Who should read this document

This document is intended for the following audiences:

- Storage architects and IT architects evaluating consumption-based storage models for mission-critical workloads, including IBM Z® and open systems environments.
- IT managers and procurement teams assessing the financial and operational benefits of transitioning from CapEx to OpEx storage funding.
- IBM Business Partners positioning IBM STaaS for IBM DS8000 to enterprise customers.

You should have working knowledge of enterprise storage concepts, including capacity planning, replication, and high availability, and a general familiarity with IBM DS8000 storage systems.

Section overview

Overview of IBM STaaS for IBM DS8000

Overview of IBM STaaS for IBM DS8000, including key features and benefits, comprehensive lifecycle services, solution customization options, and the underlying IBM Enterprise Block Storage technology.

Drivers and customer expectations

The business and technical drivers for consumption-based storage, typical customer requirements, and the three DS8000 performance tiers with their IOPS-per-TB specifications.

Lifecycle, pricing, and metering

IBM's responsibilities throughout the service lifecycle, the flexible consumption and pricing model, and how capacity is metered using IBM Storage Insights Pro—including the server instance, data collector, and security considerations.

Security, cyber resiliency, and operational considerations

A summary of data-at-rest and in-flight security capabilities, cyber resiliency with Safeguarded Copy, high availability options, and the division of responsibilities between IBM and the customer.

Reacting to changes, planning, and DS8000 solutions

How the service adapts to faster-than-expected growth, tier changes, capacity reductions, and data compression scenarios; physical planning prerequisites; and a full overview of IBM DS8000 system capabilities and key included technologies.

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Feedback

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Introduction to IBM Storage as a Service for IBM DS8000

IBM® Storage as a Service for IBM DS8000® (IBM STaaS for IBM DS8000) delivers enterprise-class block storage through a flexible, consumption-based operating model. By eliminating the need to overprovision hardware for future growth, it allows organizations to acquire capacity on demand and tightly align costs with actual business requirements.

Traditional storage acquisitions require organizations to estimate future capacity and performance needs years in advance. This often results in underutilized hardware, inflated upfront costs, and complex upgrade planning. The offering eliminates these challenges by providing a scalable, consumption-based model that allows teams to focus on business outcomes rather than infrastructure management.

As IT modernization accelerates, organizations expect predictable service levels and flexible procurement. This service addresses these demands by providing Tier-1 enterprise storage capabilities funded through operating expenses (OpEx) rather than traditional capital investments (CapEx).

Key features and benefits

IBM STaaS for IBM DS8000 provides a modern consumption-based approach to enterprise storage while retaining the performance, availability, security, and resiliency expected from IBM Storage DS8000 systems. IBM STaaS for IBM DS8000 provides the following key benefits:

- Cloud-like consumption: Scale storage up or down based on real-time business needs.
- Financial flexibility: Transition storage spending from capital expenditure (CapEx) to predictable, transparent OpEx billing.
- Enterprise-class availability and resiliency: Support mission-critical workloads with IBM DS8000 reliability, IBM HyperSwap®, and advanced business continuity capabilities.
- Cyber resiliency: Strengthen protection against ransomware and logical corruption with IBM Safeguarded Copy.
- Business continuity: Use IBM Copy Services technologies, including IBM FlashCopy®, Metro Mirror, and Global Mirror.
- End-to-end lifecycle services: Deployment, maintenance, proactive support, and secure asset retirement are completely managed by IBM.
- Continuous technology refreshes: Built-in upgrade planning ensures your infrastructure always runs on modern hardware without disruptive migration cycles.
- Flexible capacity growth: Expand storage resources as requirements evolve while maintaining predictable costs.

Comprehensive lifecycle services

IBM and its Business Partners handle the sizing, installing, maintaining, and monitoring of the solution. The service includes the following components:

- Solution deployment and implementation
- Ongoing monitoring and managed support
- Capacity planning and optimization via IBM Storage Insights Pro
- Technology refresh planning
- Secure asset retirement and disposal services

Customizing your solution

When selecting the service, customers define their specific operational baseline by specifying the following options:

- Performance tier: Aligned with workload demands
- Storage capacity: Tailored to current requirements with room to grow
- Subscription duration: Flexible commitment timelines
- Connectivity and encryption: Configured to meet enterprise security, availability, and networking requirements
- Enterprise resiliency: Designed for mission-critical workloads requiring high availability, business continuity, and cyber resiliency

IBM Enterprise Block Storage technology

IBM STaaS for IBM DS8000 brings enterprise-class capabilities into your data center via a consumption-based storage experience, eliminating the need for up-front capital expenditure (CapEx). Purpose-built for mission-critical enterprise environments — including IBM Z®, LinuxONE, and large-scale open systems workloads — IBM DS8000 systems deliver high performance, near-zero downtime availability, and advanced replication. Additionally, the platform provides robust cyber resiliency and data protection capabilities, such as Safeguarded Copy, to support your most demanding enterprise service-level objectives.

For proactive growth management, capacity usage is continuously monitored through IBM Storage Insights Pro, enabling data-driven capacity planning and seamless, proactive growth management.

Note: IBM STaaS for IBM DS8000 is purpose-built for enterprise block storage workloads. The offering supports FCP and IBM FICON® connectivity, IBM Z storage environments, IBM Copy Services technologies, and advanced cyber resiliency features like Safeguarded Copy. Note that file services are not included in the DS8000 portfolio. Customers who require file-based or object-based storage solutions should consider other IBM Storage as a Service offerings, such as those built on IBM Storage Scale and IBM Storage Ceph.

Drivers and customer expectations for IBM STaaS for IBM DS8000

Organizations increasingly expect consumption-based models for enterprise infrastructure. Rather than managing storage hardware lifecycles, capacity planning, and technology refreshes, customers are focused on business outcomes, service-level objectives, availability, security, cyber resiliency, and operational simplicity.

IBM® STaaS for IBM DS8000® addresses these requirements by combining enterprise storage capabilities with a flexible consumption-based delivery model. The offering enables customers to retain the security, control, and performance advantages of on-premises infrastructure while benefiting from a cloud-like operational experience.

Customers typically expect the following capabilities from a Storage as a Service offering:

- Clear and predictable pricing
- Flexible capacity growth
- Full lifecycle management by IBM
- Enterprise-class availability and resiliency
- Security and compliance capabilities
- Reduced operational overhead
- Technology refresh without major disruption
- Flexible consumption aligned with business requirements

Three performance tier levels

IBM STaaS for IBM DS8000 provides multiple performance options to address different workload requirements. The service offers three performance tiers, differentiated by the number of I/O operations per second (IOPS) available per terabyte of provisioned capacity. Table 1 shows the DS8000 performance levels.

Table 1. DS8000 performance levels

Performance Level	IOPS per TB	Usage
Balanced	1,200	General-purpose production workloads
Premium	2,300	Sequential write-intensive workloads, IBM FlashCopy®, and Safeguarded Copy environments
Extreme	5,500	Performance-sensitive workloads deployed on smaller capacities

Note: These IOPS-per-TB allocations represent the defined performance baselines for the standard IBM STaaS tier specifications for enterprise storage.

Configuration of an IBM STaaS for IBM DS8000 solution

Initial solution sizing and configuration are performed by IBM or an authorized IBM Business Partner using IBM Storage Modeler (StorM). The sizing process considers factors such as required storage capacity, performance objectives, workload characteristics, connectivity requirements, resiliency requirements, and expected growth. Based on these inputs, the appropriate IBM Storage DS8000 configuration, performance tier, and capacity allocation are selected to meet the customer's business and technical requirements. For more information about IBM Storage Modeler and DS8000 sizing considerations, see the [IBM Storage Modeler documentation](#).

Lifecycle, Pricing, and Metering

Lifecycle of the solution

IBM® installs and configures the storage systems at the customer site and provides ongoing hardware and software support throughout the duration of the service. Predictive support capabilities are provided through IBM Storage Insights Pro, and a Technical Account Manager is assigned to assist with service management activities. Capacity utilization is monitored on a regular basis to support proactive growth planning. As storage consumption increases, additional capacity can be added to help maintain service-level objectives and accommodate business growth. Customers can also request capacity expansions to support new applications or changing workload requirements. IBM is responsible for lifecycle management activities, including software maintenance, updates, hardware support, and periodic technology refreshes as required to maintain the agreed service levels and operational objectives.

Flexible consumption and pricing model

IBM STaaS for IBM DS8000® uses a transparent consumption-based pricing model that combines a base subscription capacity with flexible growth capacity. This approach enables customers to align storage consumption with business requirements while maintaining predictable costs and avoiding large upfront capital investments.

The pricing model includes the following key characteristics:

- Pricing based on usable storage capacity
- A base subscription combined with flexible growth capacity
- Consistent pricing for both committed and growth capacity
- The ability to expand capacity as business requirements evolve

- Lifecycle management and technology refreshes included as part of the service
- The ability to move to a higher performance tier when workload requirements change

For current pricing tiers and service details, refer to the [IBM Storage as a Service website](#).

Metering

IBM measures the capacity usage by using IBM Storage Insights Pro. This product is included in the offering but requires a supported server environment with internet connectivity. For supported operating systems and hardware requirements, see the [IBM Storage Insights data collector documentation](#). IBM Storage Insights Pro is discussed in more detail in the [IBM Storage Insights](#) section below.

IBM Storage Insights

IBM Storage Insights is available in two editions:

- IBM Storage Insights: A no-charge offering for IBM storage systems that provides support integration, analytics, monitoring, and recommendations to help optimize storage operations.
- IBM Storage Insights Pro: A subscription-based Software-as-a-Service (SaaS) offering that extends IBM Storage Insights with advanced resource management capabilities, including performance monitoring, alerting, reporting, and capacity planning. IBM Storage Insights Pro is included with IBM STaaS for IBM DS8000 and provides the monitoring and reporting capabilities required to support the service.

For more information about the IBM Storage Insights offering, see the [IBM Storage Insights documentation](#).

IBM Storage Insights consists of two types of components:

1. Server instance, which runs in the IBM Cloud®.
2. One or more data collectors deployed in the customer data center.

Server instance

Each IBM STaaS for IBM DS8000 subscription includes an IBM Storage Insights Pro instance that runs in the IBM Cloud. The instance is provisioned at the start of the subscription and remains available for the duration of the service term.

Data collector

The data collector is lightweight software that runs in the customer environment. It gathers configuration, capacity, and performance information from the storage systems and securely transmits the information to the associated IBM Storage Insights Pro instance. Multiple data collectors can be deployed to support redundancy or multiple data centers.

Data collector and IBM Storage Insights security

Communication between the data collector, the storage systems, and the IBM Storage Insights Pro instance is secured. For detailed information about security, connectivity requirements, proxy support, encryption, and privacy considerations, see [IBM Storage Insights Security](#).

Setting up and adding storage

After subscribing to IBM STaaS for IBM DS8000, a Technical Account Manager (TAM) is assigned to the account. The TAM assists with the initial deployment of IBM Storage Insights Pro and the installation of the data collector software.

After the environment is configured, storage systems are added to IBM Storage Insights Pro for monitoring and management. The TAM can assist with onboarding newly installed storage systems as required.

Metering the used capacity

IBM Storage Insights Pro is used to monitor storage consumption and capacity utilization within the IBM STaaS for IBM DS8000 offering. Capacity information is collected automatically and provides the basis for capacity planning, growth management, and service administration.

Storage consumption model

IBM STaaS for IBM DS8000 uses a consumption-based model that combines a committed base capacity with flexible growth capacity. This approach enables organizations to align storage costs with actual business needs while avoiding large upfront capital expenditures.

Customers typically choose a performance tier, a base capacity commitment, and a subscription term. Additional capacity can be added as business requirements grow, while capacity utilization is monitored through IBM Storage Insights Pro.

CapEx and OpEx considerations

Traditional storage acquisitions are typically funded as capital expenditures (CapEx), requiring organizations to estimate future capacity and performance requirements in advance. In contrast, IBM STaaS for IBM DS8000 is delivered as a service and aligns costs with ongoing business consumption, helping organizations simplify procurement and reduce infrastructure planning complexity.

Base and variable capacity

A core concept of IBM STaaS for IBM DS8000 is the distinction between base capacity and variable capacity.

Base capacity represents the minimum committed capacity established at the beginning of the subscription term. Variable capacity represents storage consumption above the committed base level.

To accommodate future growth, IBM deploys additional installed capacity beyond the committed base level. Capacity utilization is monitored continuously, and additional capacity can be added as required to support business growth and maintain service levels.

Subscription term

Customers select a subscription term that aligns with their operational and financial objectives. At the end of the subscription period, the service can be renewed, extended, or transitioned to a new agreement based on current business requirements.

Security, Cyber Resiliency, and Operational Considerations

This section describes the points to consider when you set up data security and high availability.

Data security

IBM® STaaS for IBM DS8000® includes enterprise security capabilities designed to protect data throughout its lifecycle.

Data-at-rest encryption is supported through DS8000 encryption technologies and self-encrypting drives. Organizations can also integrate with supported key management solutions to meet enterprise security and compliance requirements.

IBM Fibre Channel Endpoint Security protects data in flight for both IBM FICON® and Fibre Channel Protocol (FCP) environments. For additional information about DS8000 security, refer to the following IBM Redbooks® publications:

- *LDAP Authentication for IBM DS8000 Systems: Updated for DS8000 Release 10.1*, REDP-5460.
- *IBM Storage DS8A00 Architecture and Implementation Guide: Updated for Release 10.1*, SG24-8559.

Cyber resiliency

IBM DS8000 provides advanced cyber resiliency capabilities through IBM Safeguarded Copy technology. Safeguarded Copy creates immutable recovery copies that cannot be modified or deleted by production workloads, helping organizations recover from ransomware attacks, operational errors, and malicious actions. For additional information about cyber-resiliency planning and implementation, see *IBM Storage DS8000 Safeguarded Copy: Updated for DS8000 Release 10.1*, REDP-5506.

High availability and business continuity

IBM STaaS for IBM DS8000 supports a comprehensive set of business continuity and disaster recovery technologies:

- IBM HyperSwap® provides continuous availability across geographically separated storage systems and supports non-disruptive failover capabilities.
- IBM Copy Services technologies, including IBM FlashCopy®, Metro Mirror, and Global Mirror, support local and remote data protection requirements.
- IBM Copy Services Manager provides centralized management and automation of replication and recovery operations.

For more information, refer to the IBM Redbooks publication *IBM DS8000 Copy Services: Updated for IBM DS8000 Release 10.1*, SG24-8367.

Supporting the solution

IBM STaaS for IBM DS8000 combines enterprise-class storage technology with IBM-managed lifecycle services to simplify operations and help customers focus on business priorities rather than infrastructure management.

Throughout the subscription term, IBM provides ongoing support, maintenance, and capacity management services for the deployed DS8000 environment. A Technical Account Manager (TAM) is assigned to each customer and serves as the primary point of contact for service-related activities, capacity growth planning, and operational guidance. IBM Storage Insights Pro, which is included with the offering, provides monitoring and analytics capabilities that help support proactive capacity planning and operational visibility. Capacity utilization is monitored regularly to help ensure that sufficient capacity is available to meet business requirements and service-level objectives.

IBM is responsible for the following lifecycle management activities associated with the service:

- Solution deployment and initial configuration
- Hardware maintenance and support
- Software maintenance and updates
- Predictive support through IBM Storage Insights Pro
- Capacity growth planning and management
- Technology refresh activities, as required
- Secure asset retirement and disposal at the end of the service lifecycle

Customers are responsible for the following tasks:

- Providing suitable rack space, power, cooling, and network connectivity
- Managing applications, hosts, and operating systems attached to the storage environment
- Defining and implementing data protection, retention, and disaster recovery policies
- Creating and managing storage resources based on business requirements
- Managing user access and security policies within the environment
- Coordinating planned infrastructure changes with IBM when required

The combination of IBM-managed services, proactive monitoring, and enterprise-class DS8000 capabilities enables organizations to maintain highly available and resilient storage environments while reducing day-to-day operational overhead.

Reacting to changes, planning, and DS8000 solutions

Reacting to changes

This section describes the most common change scenarios in IBM® STaaS for IBM DS8000®.

Faster than expected growth

It is not a problem if you grow faster than originally expected. IBM monitors your usage through IBM Storage Insights Pro with a target alert threshold of 85% of usable capacity. When this threshold is reached, IBM proactively contacts you to discuss capacity expansion options. Additional capacity can be provided by adding storage capacity features or, when required, expanding the DS8000 configuration with additional hardware resources or a new storage system frame to maintain the required performance and service-level objectives (SLOs).

Changes to your contract or renegotiations are not required to consume the available variable capacity. The variable capacity billing rate per TB remains aligned with the contracted base capacity rate. You do not need to proactively increase your committed baseline capacity; however, you can work with IBM to adjust your baseline as business requirements evolve. When you increase your committed capacity, the overall price per TB may decrease based on the updated capacity commitment.

Switching to a higher tier

If you realize that your workload demands higher performance after deploying the solution, you can work with IBM or your Business Partner to upgrade to a higher performance tier. Because the DS8000 is a highly customized, enterprise-frame installation, tier changes do not require a disruptive hardware replacement. Instead, they are seamlessly accommodated through coordinated microcode updates or feature activation changes performed by IBM, minimizing operational impact on the active environment.

Technical Account Manager

Each IBM STaaS for IBM DS8000 customer is assigned a Technical Account Manager (TAM), who serves as the primary point of contact for operational and service-related activities throughout the subscription term.

The TAM works closely with the customer to support the successful operation of the environment and to help ensure that service-level objectives are maintained. Typical responsibilities of the TAM include:

- Coordinating the deployment and onboarding of new storage systems
- Assisting with the implementation and configuration of IBM Storage Insights Pro
- Reviewing capacity utilization trends and supporting growth planning activities
- Recommending actions to help maintain performance, availability, and operational objectives
- Coordinating technology refresh, maintenance, and lifecycle management activities

- Assisting with support escalations and service-related issues
- Providing guidance on IBM best practices for storage operations, business continuity, and cyber resiliency
- Reviewing planned infrastructure changes and helping assess their impact on the storage environment

By providing proactive guidance and ongoing operational support, the TAM helps customers maximize the value of their IBM STaaS for IBM DS8000 investment while reducing administrative complexity and operational risk.

Capacity reduction scenarios

Projects might be canceled or consolidated, which results in less used capacity than originally anticipated. There are two possible consequences based on your actual footprint:

- **Variable capacity usage is reduced:** The billing for your overage drops accordingly. There is no extra charge, administrative fee, or penalty for using less variable storage than you did in previous billing cycles.
- **Used capacity drops below the contracted base capacity:** IBM commits to always making your agreed base capacity available with the chosen performance tier characteristics. In return, you commit to paying for that base capacity for the duration of the subscription term. In this scenario, you continue to pay for the agreed base level even if your actual physical usage falls below it.

Data does not compress well

Certain types of data do not compress efficiently. This typically occurs when files are already compressed or encrypted, or when the underlying data structure does not lend itself to reduction gains, such as binary data, video files, or pre-encrypted database volumes.

Because the IBM STaaS for IBM DS8000 offering is metered strictly on allocated usable capacity, there is no financial risk to your organization regarding unexpected capacity shortfalls or fluctuating underlying costs. With your contracted capacity, you know exactly what guaranteed physical footprint you can store:

If your data benefits from storage efficiency technologies : You can maximize and extend the overall effective capacity of the environment at no extra charge.

If your data does not benefit from these technologies : You simply continue to consume capacity predictably based on the allocated usable capacity, with no penalty rates.

Planning considerations

Successful deployment of IBM STaaS for IBM DS8000 requires careful planning for data center facilities, network connectivity, and storage growth requirements. Customers should collaborate with their IBM representative and Technical Account Manager (TAM) to evaluate prerequisites for rack space, power, cooling, connectivity, security, business continuity, and capacity growth. Because physical planning requirements vary depending on the selected DS8000 configuration and deployment model, IBM actively assists customers in determining the precise infrastructure specifications and capacity levels needed to meet their service-level objectives.

IBM DS8000 storage solutions

The IBM Storage DS8000 series includes high-performance enterprise storage systems designed to deliver the data resilience, performance, and availability required for mission-critical workloads. The offering is delivered using enterprise-class DS8000 systems (including the DS8900F family and the next-generation DS8A00 family: DS8A10 and DS8A50) that are chosen based on capacity, performance, and connectivity requirements. These systems provide comprehensive data protection capabilities designed for IBM Z, LinuxONE, and large open systems environments. Advanced replication and cyber resiliency technologies, including IBM Safeguarded Copy and IBM HyperSwap®, help ensure continuous availability and data protection.

Ultra-low application response times

Process huge volumes of transactions faster and unlock greater value for mission-critical workloads with ultra-low storage latencies through high-performance enterprise storage architectures.

High availability and disaster recovery

Achieve greater than seven 9s availability (99.999996%) with HyperSwap technology, which provides no-data-loss capabilities within metropolitan distances. IBM Geographically Dispersed Parallel Sysplex® (GDPS®) enables faster recovery times for IBM Z® environments, delivering superior RPO and RTO over long distances.

Cyber resilience with IBM Safeguarded Copy

Prevent your data from being modified or deleted due to user errors, malicious destruction, malware, or ransomware attacks with hundreds of immutable copies per volume. These copies serve as a trusted source for selective or full recovery of a production environment.

Transparent cloud tiering

Transparent Cloud Tiering enables IBM Z environments to use cloud storage for archive, backup, and disaster recovery use cases while maintaining enterprise security and operational efficiency.

Reliable storage for mission-critical containers

IBM Storage DS8000 systems support enterprise workloads across IBM Z, LinuxONE, Power Systems, and open systems environments. Integration with modern application platforms and container environments enables organizations to extend enterprise storage services to cloud-native workloads.

Fibre Channel endpoint security

Ensure all data that is flowing on IBM FICON® and Fibre Channel Protocol (FCP) links from IBM Z® to DS8900F are encrypted and protected. IBM Fibre Channel Endpoint Security provides in-flight protection for all data, independent of the operating system, file system, or access method in use.

IBM Copy Services Manager

Simplify and automate the management of replication solutions and provide disaster recovery and high availability under a single point of control. IBM Copy Services Manager supports IBM FlashCopy®, Safeguarded Copy, and advanced disaster recovery functions with failover or failback operations across 2, 3, and 4 remote sites.

Cohesive mainframe and LinuxONE integration

The DS8000 series offers deep, hardware-level integration with IBM Z and IBM LinuxONE environments. Whether using the integrated footprint capabilities of the DS8900F series or deploying the highly dense, 19-inch rack-mountable architecture of the DS8A00 family (including DS8A10), the solution is engineered to minimize data center real estate. These flexible deployment options deliver an optimized, powerful end-to-end infrastructure footprint while maintaining strict compliance with standard data center racking specifications.

AI-driven management and proactive support

IBM Storage Insights can help you better understand trends in storage capacity and performance and expedite resolution when support is needed. Using AI-based analytics, it helps identify potential issues before they become problems. When support is needed, Storage Insights helps speed resolution by simplifying tickets and automating log uploads.

Key IBM Storage DS8000 technologies

The IBM STaaS for IBM DS8000 framework goes beyond providing simple raw storage capacity. It provides enterprise storage capabilities integrated into the subscription model. While IBM remains fully responsible for deploying, maintaining, and refreshing the physical hardware components, organizations retain complete administrative control over these advanced data management functionalities.

This turnkey approach ensures that mission-critical environments can immediately use advanced replication, mainframe connectivity, hardware-based encryption, and cyber resiliency tools without navigating separate feature licensing or infrastructure procurement cycles. Table 2 outlines the primary storage technologies natively available within the service to support enterprise application requirements.

Table 2. Key IBM Storage DS8000 technologies

Technology	Purpose
IBM Safeguarded Copy	Cyber resiliency and ransomware recovery
IBM HyperSwap	Continuous availability across geographically separated sites
IBM FlashCopy	Point-in-time enterprise data copies
IBM Metro Mirror	Synchronous remote replication
IBM Global Mirror	Asynchronous remote replication
IBM Copy Services Manager	Centralized replication and recovery management
FICON Connectivity	Deep IBM Z mainframe infrastructure integration
Fibre Channel Protocol (FCP)	Enterprise open systems connectivity
Fibre Channel Endpoint Security	Hardware-level data-in-flight protection
IBM Storage Insights Pro	AI-driven environment monitoring and capacity management

Note: IBM STaaS for IBM DS8000 is delivered using enterprise-class DS8000 systems that are selected based on capacity, performance, availability, and resiliency requirements. IBM is responsible for deploying, maintaining, and refreshing the underlying infrastructure to meet agreed service-level objectives throughout the subscription term.

Abbreviations

Abbreviation	Definition
CapEx	Capital Expenditure
DACH	Germany (Deutschland), Austria, and Switzerland (Schweiz)
FCP	Fibre Channel Protocol
FICON	Fibre Connection (IBM mainframe I/O architecture)
GDPS	Geographically Dispersed Parallel Sysplex
IOPS	Input/Output Operations Per Second
ITIL	IT Infrastructure Library
OEM	Original Equipment Manufacturer
OpEx	Operating Expenditure
PMP	Project Management Professional
RPO	Recovery Point Objective
RTO	Recovery Time Objective
SaaS	Software as a Service
SLO	Service-Level Objective
STaaS	Storage as a Service
TAM	Technical Account Manager
TB	Terabyte

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