



# IBM Cloud Object Storage System HDD features deliver additional storage capacities for IBM Cloud Object Storage Slicestors

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## At a glance

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IBM<sup>(R)</sup> Cloud Object Storage System hardware is comprised of the following components:

- IBM Cloud Storage System Manager
- IBM Cloud Storage System Accesser<sup>(R)</sup>
- IBM Cloud Storage System Slicestor<sup>(R)</sup>

These servers are all based on industry-standard, x86 bare-metal hardware. The servers have been certified to perform their functions appropriately.

IBM Cloud Storage System Manager is an out-of-band component, meaning that it is important in setting up, provisioning, managing, and monitoring the system, but does not have active participation in the ingress, writing, or reading of the data. The manager delivers the following functions:

- Fault management
- Reporting
- Provisioning
- Performance monitoring
- Storage configuration

IBM Cloud Storage System Accesser is a stateless component that delivers the following functions:

- Slices data
- Disperses data
- Retrieves data

IBM Cloud Storage System Slicestor delivers the following functions:

- Storage for slices
- Rebuilds slices

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## Overview

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The following HDD options are available for ordering on IBM Cloud Object Storage Slicestor models S01, S02, and S03:

- 4 TB 7.2K 3.5-inch HDD Enterprise (feature code AJ0Y)
- 6 TB 7.2K 3.5-inch HDD Enterprise (feature code AJ0Z)
- 8 TB 7.2K 3.5-inch HDD Enterprise (feature code AJ10)
- 10 TB 7.2K 3.5-inch HDD Enterprise (feature code AJ11)

In addition, a short-range 40 GbE SFP+ (feature code AJ16) is available for ordering on IBM Cloud Object Storage Accesser models A00, A01, and A02, and IBM Cloud Object Storage Slicestor models S01 and S02.

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## Key prerequisites

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An IBM Cloud Object Storage Slicestor model S01, S02, or S03.

IBM Cloud Object Storage System hardware servers must be loaded with the appropriate subset of the IBM Cloud Object Storage System software that is designed for that server type.

These certified hardware servers can be deployed in a single site or across multiple, geographically-dispersed locations, connected by public or private networks.

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## Planned availability date

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March 10, 2017

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## Description

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IBM Cloud Object Storage HDDs deliver workload equivalents of 550 TB of data being written to, or read from, the HDD each year. This ensures that IBM Cloud Object Storage customers are being provided with the most reliable drives in the industry.

The Quad Small Form-factor Pluggable (QSFP) is a compact, hot-pluggable transceiver used for data communications applications. The form factor and electrical interface are specified by a multi-source agreement under the authority of the Small Form Factor Committee. QSFP is an industry format jointly developed and supported by many network component vendors, enabling data rates from 4 Gbps to 10 Gbps. This will enable you to take advantage of 40 Gb networking (requires ClevOS release 3.10.0).

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### Accessibility by people with disabilities

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A US Section 508 Voluntary Product Accessibility Template (VPAT) containing details on accessibility compliance can be found on the [IBM Accessibility](#) website.

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## Product number

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The following are newly announced features on the specified models of the IBM System Storage<sup>(R)</sup> 3401 and 3403 machine types:

Description	Machine type	Model	Feature
Short Range 40 GbE SFP+	3401	A00	AJ16
Short Range 40 GbE SFP+	3401	A01	AJ16

<b>Description</b>	<b>Machine type</b>	<b>Model</b>	<b>Feature</b>
Short Range 40 GbE SFP+	3401	A02	AJ16
Short Range 40 GbE SFP+	3401	S01	AJ16
4TB 7.2K 3.5" HDD Enterprise	3401	S01	AJ0Y
6TB 7.2K 3.5" HDD Enterprise	3401	S01	AJ0Z
8TB 7.2K 3.5" HDD Enterprise	3401	S01	AJ10
10TB 7.2K 3.5" HDD Enterprise	3401	S01	AJ11
Short Range 40 GbE SFP+	3401	S02	AJ16
4TB 7.2K 3.5" HDD Enterprise	3401	S02	AJ0Y
6TB 7.2K 3.5" HDD Enterprise	3401	S02	AJ0Z
8TB 7.2K 3.5" HDD Enterprise	3401	S02	AJ10
10TB 7.2K 3.5" HDD Enterprise	3401	S02	AJ11
4TB 7.2K 3.5" HDD Enterprise	3401	S03	AJ0Y
6TB 7.2K 3.5" HDD Enterprise	3401	S03	AJ0Z
8TB 7.2K 3.5" HDD Enterprise	3401	S03	AJ10
10TB 7.2K 3.5" HDD Enterprise	3401	S03	AJ11
Short Range 40 GbE SFP+	3403	A00	AJ16
Short Range 40 GbE SFP+	3403	A01	AJ16
Short Range 40 GbE SFP+	3403	A02	AJ16
4TB 7.2K 3.5" HDD Enterprise	3403	S01	AJ0Y
6TB 7.2K 3.5" HDD Enterprise	3403	S01	AJ0Z
8TB 7.2K 3.5" HDD Enterprise	3403	S01	AJ10
10TB 7.2K 3.5" HDD Enterprise	3403	S01	AJ11
Short Range 40 GbE SFP+	3403	S01	AJ16
4TB 7.2K 3.5" HDD Enterprise	3403	S02	AJ0Y
6TB 7.2K 3.5" HDD Enterprise	3403	S02	AJ0Z
8TB 7.2K 3.5" HDD Enterprise	3403	S02	AJ10
10TB 7.2K 3.5" HDD Enterprise	3403	S02	AJ11
Short Range 40 GbE SFP+	3403	S02	AJ16
4TB 7.2K 3.5" HDD Enterprise	3403	S03	AJ0Y
6TB 7.2K 3.5" HDD Enterprise	3403	S03	AJ0Z
8TB 7.2K 3.5" HDD Enterprise	3403	S03	AJ10

Description	Machine type	Model	Feature
10TB 7.2K 3.5" HDD Enterprise	3403	S03	AJ11
HVB 12S01 Full 4TB	3403	A00	AJEB
HVB 12S01 Full 4TB	3403	M01	AJEB
HVB 12S01 Full 4TB	3403	S01	AJEB

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## Business Partner information

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If you are a Direct Reseller - System Reseller acquiring products from IBM, you may link directly to Business Partner information for this announcement. A PartnerWorld<sup>(R)</sup> ID and password are required (use IBMid).

[BP Attachment for Announcement Letter 117-018](#)

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## Publications

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No publications are shipped with the announced products.

To access the IBM Publications Center Portal, go to the [IBM Publications Center](#) website.

The Publications Center is a worldwide central repository for IBM product publications and marketing material with a catalog of 70,000 items. Extensive search facilities are provided. A large number of publications are available online in various file formats, which can currently be downloaded.

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## Services

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### Global Technology Services

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IBM services include business consulting, outsourcing, hosting services, applications, and other technology management.

These services help you learn about, plan, install, manage, or optimize your IT infrastructure to be an on-demand business. They can help you integrate your high-speed networks, storage systems, application servers, wireless protocols, and an array of platforms, middleware, and communications software for IBM and many non-IBM offerings. IBM is your one-stop shop for IT support needs.

For details on available services, contact your IBM representative or go to the [IBM Global Technology Services<sup>\(R\)</sup>](#) website.

For details on available IBM Business Continuity and Recovery Services, contact your IBM representative or go to the [Resiliency Services](#) website.

Details on education offerings related to specific products can be found on the [IBM authorized training](#) website.

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## Technical information

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### Specified operating environment

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#### Hardware requirements

An IBM Cloud Object Storage Slicestor model S00, S01, S02, or S03.

An IBM Cloud Object Storage System must have one and only one manager, at least two Accessers, and at least nine Slicestors to be put into production. The Manager and Accessers can run as virtual instances, docker instances, or on bare metal. The Slicestors must be bare metal appliances.

### **Software requirements**

An IBM Cloud Object Storage System contains three separate and distinct operating systems, one each that runs on the Manager, the Accessers, and the Slicestors. In order to build a complete Object Storage System, each of the functions must be in place.

### **Planning information**

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#### **Cable orders**

Not applicable

#### **Security, auditability, and control**

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The customer is responsible for evaluation, selection, and implementation of security features, administrative procedures, and appropriate controls in application systems and communications facilities.

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## **IBM Electronic Services**

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IBM has transformed its delivery of hardware and software support services to help you achieve higher system availability. Electronic Services is a web-enabled solution that offers an exclusive, no-additional-charge enhancement to the service and support available for IBM servers. These services are designed to provide the opportunity for greater system availability with faster problem resolution and preemptive monitoring. Electronic Services comprises two separate, but complementary, elements: Electronic Services news page and Electronic Services Agent.

The Electronic Services news page is a single internet entry point that replaces the multiple entry points traditionally used to access IBM Internet services and support. The news page enables you to gain easier access to IBM resources for assistance in resolving technical problems.

The Electronic Service Agent™ is no-additional-charge software that resides on your server. It monitors events and transmits system inventory information to IBM on a periodic, client-defined timetable. The Electronic Service Agent automatically reports hardware problems to IBM. Early knowledge about potential problems enables IBM to deliver proactive service that may result in higher system availability and performance. In addition, information collected through the Service Agent is made available to IBM service support representatives when they help answer your questions or diagnose problems. Installation and use of IBM Electronic Service Agent for problem reporting enables IBM to provide better support and service for your IBM server.

To learn how Electronic Services can work for you, go to the [IBM Electronic Support](#) website.

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## **Terms and conditions**

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### **MES discount applicable**

Equal to the volume commitment discount

### **Field installable feature**

Yes

### Warranty period

Machine type 3401: One year

Machine type 3403: Three years

To obtain copies of the IBM Statement of Limited Warranty, contact your reseller or IBM. An IBM part or feature installed during the initial installation of an IBM machine is subject to the full warranty period specified by IBM. An IBM part or feature that replaces a previously installed part or feature assumes the remainder of the warranty period for the replaced part or feature. An IBM part or feature added to a machine without replacing a previously installed part or feature is subject to a full warranty. Unless specified otherwise, the warranty period, type of warranty service, and service level of a part or feature are the same as those for the machine in which it is installed.

### Customer setup

Yes

### Machine code

Same license terms and conditions as base machine

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## Prices

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The following are newly announced features on the specified models of the IBM System Storage 3401 machine type:

Description	Model number	Feature numbers	Initial / MES / Both / Support	CSU	RP MES
Short Range 40 GbE SFP+	A00	AJ16	Both	Yes	No
Short Range 40 GbE SFP+	A01	AJ16	Both	Yes	No
Short Range 40 GbE SFP+	A02	AJ16	Both	Yes	No
Short Range 40 GbE SFP+	S01	AJ16	Both	Yes	No
4TB 7.2K 3.5" HDD Enterprise	S01	AJ0Y	Both	Yes	No
6TB 7.2K 3.5" HDD Enterprise	S01	AJ0Z	Both	Yes	No
8TB 7.2K 3.5" HDD Enterprise	S01	AJ10	Both	Yes	No
10TB 7.2K 3.5" HDD Enterprise	S01	AJ11	Both	Yes	No
Short Range 40 GbE SFP+	S02	AJ16	Both	Yes	No
4TB 7.2K 3.5" HDD Enterprise	S02	AJ0Y	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
6TB 7.2K 3.5" HDD Enterprise	S02	AJ0Z	Both	Yes	No
8TB 7.2K 3.5" HDD Enterprise	S02	AJ10	Both	Yes	No
10TB 7.2K 3.5" HDD Enterprise	S02	AJ11	Both	Yes	No
4TB 7.2K 3.5" HDD Enterprise	S03	AJ0Y	Both	Yes	No
6TB 7.2K 3.5" HDD Enterprise	S03	AJ0Z	Both	Yes	No
8TB 7.2K 3.5" HDD Enterprise	S03	AJ10	Both	Yes	No
10TB 7.2K 3.5" HDD Enterprise	S03	AJ11	Both	Yes	No

The following are newly announced features on the specified models of the IBM System Storage 3403 machine type:

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
Short Range 40 GbE SFP+	A00	AJ16	Both	Yes	No
Short Range 40 GbE SFP+	A01	AJ16	Both	Yes	No
Short Range 40 GbE SFP+	A02	AJ16	Both	Yes	No
4TB 7.2K 3.5" HDD Enterprise	S01	AJ0Y	Both	Yes	No
6TB 7.2K 3.5" HDD Enterprise	S01	AJ0Z	Both	Yes	No
8TB 7.2K 3.5" HDD Enterprise	S01	AJ10	Both	Yes	No
10TB 7.2K 3.5" HDD Enterprise	S01	AJ11	Both	Yes	No
Short Range 40 GbE SFP+	S01	AJ16	Both	Yes	No
4TB 7.2K 3.5" HDD Enterprise	S02	AJ0Y	Both	Yes	No
6TB 7.2K 3.5" HDD Enterprise	S02	AJ0Z	Both	Yes	No
8TB 7.2K 3.5" HDD Enterprise	S02	AJ10	Both	Yes	No

<b>Description</b>	<b>Model number</b>	<b>Feature numbers</b>	<b>Initial / MES / Both / Support</b>	<b>CSU</b>	<b>RP MES</b>
10TB 7.2K 3.5" HDD Enterprise	S02	AJ11	Both	Yes	No
Short Range 40 GbE SFP+	S02	AJ16	Both	Yes	No
4TB 7.2K 3.5" HDD Enterprise	S03	AJ0Y	Both	Yes	No
6TB 7.2K 3.5" HDD Enterprise	S03	AJ0Z	Both	Yes	No
8TB 7.2K 3.5" HDD Enterprise	S03	AJ10	Both	Yes	No
10TB 7.2K 3.5" HDD Enterprise	S03	AJ11	Both	Yes	No
HVB 12S01 Full 4TB	A00	AJEB	Initial	N/A	No
HVB 12S01 Full 4TB	M01	AJEB	Initial	N/A	No
HVB 12S01 Full 4TB	S01	AJEB	Initial	N/A	No

CSU = Customer setup

RP MES = Returnable parts MES

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