

*For Spectrum Connect matrix pages
output files*



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GDPR and IBM systems

Refer to the following white paper for details about the impact of the General Data Protection Regulation (GDPR) on systems and storage.

 [Impact of GDPR on systems and storage](#)

To view a PDF file, you need the Adobe Acrobat Reader. You can download it at no charge from the [Adobe web site](#).

Videos and blogs

Watch videos and read blogs to learn more about IBM storage solutions and Spectrum Connect cloud integration system.

Videos

Table 1. Videos about IBM storage solutions and Spectrum Connect (English only)

Video	Summary
(12:15) IBM Spectrum Connect A9000 VMware Intro and Setup	Joshua Blumert, IBM Certified Consulting IT Specialist, and Andrew Greenfield, Global Storage & Network Engineer, show the ease of use and value of IBM Spectrum Connect, which enables a VMware admin full VMware control of the IBM FlashSystem A9000 Array from within VMware's vCenter. Publication date: 3 March 2019
(3:27) What IBM Spectrum Connect can do for your business	Harald Seipp, IBM Certified Consulting IT Specialist, describes how to use the IBM Spectrum Connect suite for easy and fast integration of IBM block storage in multiple cloud environments. Publication date: 13 May 2018
(42:50) IBM Spectrum Storage™ and Flash: Foundation for Multi-Cloud and AI	Eric Herzog, Vice President Marketing for IBM® Storage Systems, provides an in-depth overview about multi-cloud and AI environments that can integrate IBM flash storage. Publication date: 28 February 2018
(5:29) IBM Storage and VMware: Partnership and Synergy for the Cloud Era	Executives and subject matter experts from both IBM Storage and VMware discuss their close working relationship and how they ensure integration of our products to improve data economics while delivering efficiencies and ease of use for our end users. Publication date: 5 February 2016

Table 1. Videos about IBM storage solutions and Spectrum Connect (English only) (continued)

Video	Summary
(4:14) VMware Virtual Volumes with IBM Storage - The Power of Integration	Ben Meadowcroft, Senior Product Manager (VMware) and Yossi Siles, Principal Offering Manager (IBM), explain how VMware Virtual Volumes deliver and enable the right storage service levels according to the specific requirements of individual VMs. Publication date: 16 December 2015
(5:49) Datastore Creation: IBM Spectrum Control Base Edition and VMware vRA	This video illustrates how to create a datastore upon a user request from VMware vRealize Automation platform and IBM Spectrum Control Base Edition, currently known as IBM Spectrum Connect. Publication date: 1 October 2015

Blogs

Table 2. Blogs about IBM Spectrum Connect and its cloud interfaces (English only)

Blog	Summary
IBM DS8880F: Deploy containers with confidence	Calline Sanchez, Vice President, IBM Enterprise Systems Storage, presents a convincing case for using IBM DS8880F storage systems and IBM Spectrum Connect to run stateful containerized applications. Last updated: 18 January 2019
Advancing Hybrid Cloud Adoption with IBM and VMware	David Lapp, Vice President, Vice President, Marketing - IBM Cloud Platform, provides an update from VMworld Europe 2018, describing new solutions and capabilities from IBM Cloud and VMware. Last updated: 5 November 2018
IBM Spectrum Connect – One stop integration for storage and modern server environments	Cedric Cook, Principal Solutions Offering Manager - IBM Storage IBM Systems, provides an overview of the IBM Spectrum Connect storage integration solution. Last updated: 21 February 2018
Making container technology work for persistent microservices	Heiko Ludwig, IBM Research staff member, introduces Ubiquity, a container-persistence service for IBM storage that the IBM Storage Enabler for Containers plugin is based on. Last updated: 21 December 2017

Table 2. Blogs about IBM Spectrum Connect and its cloud interfaces (English only) (continued)	
Blog	Summary
IBM Storage systems go cloud native	Sam Werner, Director, Offering Management, IBM Software-Defined Storage, focuses on IBM approach to container technology. Last updated: 8 November 2017
IBM Spectrum Access for IBM Cloud Private	Shaluka Perera, Program Director for Storage & Software Defined Infrastructure Solutions, provides insights into IBM Spectrum Access solutions for IBM Cloud Private platform. Last updated: 27 October 2017

VMware compatibility matrix

This page details supported combinations of IBM storage system software versions supported by at least one version of IBM Spectrum Connect and various VMware products.

Last updated: 31 May 2021

Refer to the [Spectrum Connect Lifecycle and support matrix](#) to see which IBM storage system versions are supported by your version of Spectrum Connect.

The following table includes information about VMware vCenter Site Recovery Manager (SRM) which uses the IBM Spectrum Accelerate Family, IBM DS8000 Family, and Spectrum Virtualize Family Storage Replication Adapters (SRAs) to run site-to-site failovers together with supported IBM storage systems. For information about these add-ons, see relevant product publications in [IBM Documentation](#):

- [IBM Spectrum Accelerate Family SRA](#)
- [IBM DS8000 Family SRA](#)
- [IBM Spectrum Virtualize Family SRA](#)

Note that the SRM information does not apply to Spectrum Connect. For information about the VMware platforms that Spectrum Connect supports, refer to the Spectrum Connect release notes for the version of interest.

Note:

- For updated information about VMware products storage compatibility and certification, check the VMware compatibility guides. To display information relevant to IBM products, select **IBM** in the Partner Name scroll box.
 - [vSphere APIs for Storage Awareness \(VASA\)](#)
 - [vSphere APIs for Virtual Volumes](#)
 - [vRealize Operations](#)
 - [vRealize Orchestrator](#)
 - [Site Recovery Manager \(SRM\)](#)
- All VMware Site Recovery Manager (SRM) instances refer to Windows OS, unless indicated with an asterisk (*) next to a specific version number. These versions support both Windows and Photon OS.
- Spectrum Virtualize Family SRA 3.5.0 is VMware certified to support SRM 8.4. VMware certification for SRA 3.6.0 is not yet available.

Click on a storage system name to navigate to the relevant section.

- [IBM DS8880](#)
- [IBM DS8900](#)
- [IBM FlashSystem® 5000, 5100](#)
- [IBM FlashSystem 7200](#)
- [IBM FlashSystem 9100, 9200](#)
- [IBM FlashSystem A9000, A9000R](#)
- [IBM FlashSystem V9000](#)
- [IBM Spectrum Virtualize Family](#)
- [IBM Spectrum Virtualize as software only](#)
- [IBM Spectrum Virtualize for Public Cloud](#)
- [IBM Storwize® V7000 Unified](#)
- [IBM Spectrum Accelerate, as a deployable software](#)
- [IBM XIV® Storage System](#)

Table 3. IBM DS8880							
Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.5.x	2.0, 3.0 (without replication)	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	N/A	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1
8.4.x	2.0, 3.0 (without replication)	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	N/A	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1
8.3.x	2.0, 3.0 (without replication)	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	N/A	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1
8.2.x	2.0, 3.0 (without replication)	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	N/A	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1
8.1.x	2.0, 3.0 (without replication)	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	N/A	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1
8.0.1	N/A	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	N/A	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1

Table 4. IBM DS8900							
Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
9.1	2.0, 3.0 (without replication)	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	N/A	6.0, 6.5, 6.7, 7.0	Photon: 8.2, 8.3, 8.4
9.0.0	2.0, 3.0 (without replication)	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	N/A	6.0, 6.5, 6.7, 7.0	8.1, 8.2* Photon: 8.3, 8.4

Table 5. IBM FlashSystem 5000 and 5100							
Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.4.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.3.1	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 6. IBM FlashSystem 7200							
Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.4.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 6. IBM FlashSystem 7200 (continued)

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.3.1	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 7. IBM FlashSystem 9100 and 9200

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.4.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.3.x (FlashSystem 9200 only supports version 8.3.1)	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.2.x (only applies to FlashSystem 9100)	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 8. IBM FlashSystem A9000, A9000R

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
12.3.x	1.0, 2.0	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.1	6.0, 6.5, 6.7, 7.0	6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
12.2.x	1.0, 2.0	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.1	6.0, 6.5, 6.7, 7.0	6.1, 6.5, 8.1
12.1.x	1.0, 2.0	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1
12.0.x	1.0, 2.0	N/A	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1

Table 9. IBM FlashSystem V9000

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.3.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.2.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.1.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 9. IBM FlashSystem V9000 (continued)

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
7.8.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 10. IBM Spectrum Virtualize Family (IBM Storwize V3000 Family, IBM Storwize V5000 Family, IBM Storwize V7000 Family, SAN Volume Controller)

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.4.x (except for IBM Storwize V3000 Family and IBM Storwize V5000 Gen2)	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.3.x (except for IBM Storwize V3000 Family)	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.2.x (except for IBM Storwize V3000 Family)	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.1.x (except for IBM Storwize V3000 Family)	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 10. IBM Spectrum Virtualize Family (IBM Storwize V3000 Family, IBM Storwize V5000 Family, IBM Storwize V7000 Family, SAN Volume Controller) (continued)

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
7.8.0	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 11. IBM Spectrum Virtualize as software only

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.4.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.3.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.2.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
8.1.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4
7.8.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 12. IBM Spectrum Virtualize for Public Cloud

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
8.4.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1
8.3.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1
8.1.x	1.0, 2.0, 3.0 (without replication)	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	7.3, 7.4, 7.5, 7.6, 8.0	6.6, 6.7, 7.0, 7.5, 8.0, 8.1	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1

Table 13. IBM Storwize V7000 Unified

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	vCenter Server Appliance (VCSA)	VMware Site Recovery Manager
1.5.x	1.0, 2.0	ESXi 6.0, 6.5, 6.7, 7.0	6.0, 6.5, 6.7, 7.0	N/A	N/A	6.0, 6.5, 6.7, 7.0	6.0, 6.1, 6.5, 8.1, 8.2* Photon: 8.3, 8.4

Table 14. IBM Spectrum Accelerate

Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	VMware Site Recovery Manager
11.5.4.x	1.0, 2.0	N/A	6.0, 6.5, 6.7	7.3, 7.4, 7.5, 7.6	6.6, 6.7, 7.0, 7.5	6.0, 6.5, 8.1
11.5.3.x	1.0, 2.0	N/A	6.0, 6.5, 6.7	7.3, 7.4, 7.5, 7.6	6.6, 6.7, 7.0, 7.5	6.0, 6.5, 8.1
11.5.1.x	1.0, 2.0	N/A	6.0, 6.5, 6.7	7.3, 7.4, 7.5, 7.6	6.6, 6.7, 7.0, 7.5	6.0, 6.5, 8.1

Table 14. IBM Spectrum Accelerate (continued)						
Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	VMware Site Recovery Manager
11.5.0.x	1.0, 2.0	N/A	6.0, 6.5, 6.7	7.3, 7.4, 7.5, 7.6	6.6, 6.7, 7.0, 7.5	6.0, 6.5, 8.1

Table 15. IBM XIV Storage System						
Software version	VMware vSphere APIs for Storage Awareness (VASA)	VMware virtual volumes	VMware vSphere Web Client	VMware vRealize Orchestrator	VMware vRealize Operations Manager	VMware Site Recovery Manager
11.6.x	1.0, 2.0	ESXi 6.0, 6.5, 6.7	6.0, 6.5, 6.7	7.3, 7.4, 7.5, 7.6	6.6, 6.7, 7.0, 7.5	6.0, 6.1, 6.5, 8.1

Lifecycle and support matrix

The following table details the IBM Spectrum Connect (SC) lifecycle with compatible IBM storage system microcodes and supported cloud interfaces.

Last updated: 31 May 2021

Note:

- IBM Spectrum Virtualize Family storage systems run the IBM Spectrum Virtualize software. In addition, the IBM Spectrum Virtualize package is available as a deployable solution that can be run on any compatible hardware.
- Refer to the [VMware compatibility matrix](#) on IBM Docs for information about supported combinations of IBM storage system software versions supported by at least one Spectrum Connect version and various VMware cloud platforms.
- Refer to the matrix below to see which storage system versions are supported by your version of Spectrum Connect before referring to the VMware matrix page.
- Starting from Spectrum Connect 3.7.0, IBM Storage Enabler for Containers is no longer supported. For information on continuing Kubernetes support for IBM block storage, see [IBM block storage CSI \(Container Storage Interface\) driver](#).

SC version	General availability	IBM FlashSystem A9000/A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.8.0	June 2021	12.0.x, 12.1.x, 12.2.x, 12.3.x Note: VVols are not supported.	XIV: 11.6.x Spectrum Accelerate: 11.5.0.x, 11.5.1.x, 11.5.3.x, 11.5.4.x	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x, 8.4.x, 8.5.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported. DS8900: 9.0.0 Note: VVols are not supported.	FlashSystem 5000: 8.3.1, 8.4.x FlashSystem 5100: 8.3.1, 8.4.x FlashSystem 5200: 8.4.0.x FlashSystem 7200: 8.3.1, 8.4.x FlashSystem 9100: 8.2.x, 8.3.x, 8.4.x FlashSystem 9200: 8.3.1, 8.4.x Storwize V3500, V3700: 7.8.x Storwize V5000 Gen2: 7.8.x, 8.1.x, 8.2.x, 8.3.x Storwize V5000E: 8.2.1, 8.3.x, 8.4.x Storwize V5100: 8.2.1, 8.3.x, 8.4.x Storwize V7000: 7.8.x, 8.1.x, 8.2.x, 8.3.x, 8.4.x SVC: 7.8.x, 8.1.x, 8.2.x, 8.3.x, 8.4.x FlashSystem V9000: 7.8.x, 8.1.x, 8.2.x, 8.3.x	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{2, 3} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5}
¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which each must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the IBM Storage Enabler for Containers documentation.						
12 For Spectrum Connect matrix pages output files						

SC version	General availability	IBM FlashSystem A9000/A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.7.0	February 2020	12.0.x, 12.1.x, 12.2.x, 12.3.x Note: VVols are not supported.	XIV: 11.6.x Spectrum Accelerate: 11.5.0.x, 11.5.1.x, 11.5.3.x, 11.5.4.x	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x, 8.4.x, 8.5.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported. DS8900: 9.0.0 Note: VVols are not supported.	FlashSystem 5000: 8.3.1, 8.4.x FlashSystem 5100: 8.3.1, 8.4.x FlashSystem 7200: 8.3.1, 8.4.x FlashSystem 9100: 8.2.x, 8.3.x, 8.4.x FlashSystem 9200: 8.3.1, 8.4.x Storwize V3500, V3700: 7.8.x Storwize V5000 Gen2: 7.8.x, 8.1.x, 8.2.x, 8.3.x Storwize V5000E: 8.2.1, 8.3.x, 8.4.x Storwize V5100: 8.2.1, 8.3.x, 8.4.x Storwize V7000: 7.8.x, 8.1.x, 8.2.x, 8.3.x, 8.4.x SVC: 7.8.x, 8.1.x, 8.2.x, 8.3.x, 8.4.x FlashSystem V9000: 7.8.x, 8.1.x, 8.2.x, 8.3.x Spectrum Virtualize as software only: 8.1.x, 8.2.x, 8.3.x Note: VVols are not supported.	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{3, 4} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4, 6} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5}
¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the IBM Storage Enabler for Containers documentation.						

SC version	General availability	IBM FlashSystem A9000/A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.6.3	August 2019	12.0.x, 12.1.x, 12.2.x, 12.3.x Note: VVols are not supported.	XIV: 11.5.2.x, 11.6.x Spectrum Accelerate: 11.5.x Note: Can be managed using Spectrum Connect RESTful APIs. VVols are not supported.	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x, 8.4.x, 8.5.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported.	Storwize V3500, V3700: 7.8.x Storwize V5000: 7.8.x, 8.1.x, 8.2.x, 8.3.0 Storwize V7000: 7.8.x, 8.1.x, 8.2.x, 8.3.0 SVC: 7.8.x, 8.1.x, 8.2.x, 8.3.0 FlashSystem 9100: 8.2.x, 8.3.0 FlashSystem V9000: 7.8.x, 8.1.x, 8.2.x, 8.3.0 Spectrum Virtualize as software only: 7.8.x, 8.1.x, 8.2.x, 8.3.0 Note: VVols are supported by version 7.8.x and above. However, they cannot be used with HyperSwap. Storwize V7000 Unified: 1.5.0 Note: Only block storage is supported. File shares and file systems are not supported. Flex System V7000: 7.1.0, 7.2.0	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{3, 4} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5, 7} IBM Storage Enabler for Containers ^{3, 5}
¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which each must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the IBM Storage Enabler for Containers documentation.						

SC version	General availability	IBM FlashSystem A9000/A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.6.2	May 2019	12.0.x, 12.1.x, 12.2.x, 12.3.x Note: VVols are not supported.	XIV: 11.5.2.x, 11.6.x Spectrum Accelerate: 11.5.x Note: Can be managed using Spectrum Connect RESTful APIs. VVols are not supported.	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x, 8.4.x, 8.5.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported.	Storwize V3500, V3700: 7.8.x Storwize V5000: 7.8.x, 8.1.x, 8.2.x Storwize V7000: 7.8.x, 8.1.x, 8.2.x SVC: 7.8.x, 8.1.x, 8.2.x FlashSystem 9100: 8.2.x FlashSystem V9000: 7.8.x, 8.1.x, 8.2.x Spectrum Virtualize as software only: 7.8.x, 8.1.x, 8.2.x Note: VVols are supported by version 7.8.x and above. However, they cannot be used with HyperSwap. Storwize V7000 Unified: 1.5.0 Note: Only block storage is supported. File shares and file systems are not supported. Flex System V7000: 7.1.0, 7.2.0	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{3, 4} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5, 7} IBM Storage Enabler for Containers ^{3, 5}

¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which each must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the [IBM Storage Enabler for Containers documentation](#).

SC version	General availability	IBM FlashSystem A9000/A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.6.1	March 2019	12.0.x, 12.1.x, 12.2.x, 12.3.x Note: VVols are not supported.	XIV: 11.5.2.x, 11.6.x Spectrum Accelerate: 11.5.x Note: Can be managed using Spectrum Connect RESTful APIs. VVols are not supported.	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x, 8.4.x, 8.5.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported.	Storwize V3500, V3700: 7.8.x Storwize V5000: 7.8.x, 8.1.x, 8.2.x Storwize V7000: 7.8.x, 8.1.x, 8.2.x SVC: 7.8.x, 8.1.x, 8.2.x FlashSystem 9100: 8.2.x FlashSystem V9000: 7.8.x, 8.1.x, 8.2.x Spectrum Virtualize as software only: 7.8.x, 8.1.x, 8.2.x VVols are supported by version 7.8.x and above. However, they cannot be used with HyperSwap. Storwize V7000 Unified: 1.5.0 Note: Only block storage is supported. File shares and file systems are not supported. Flex System V7000: 7.1.0, 7.2.0	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{3, 4} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5, 7} IBM Storage Enabler for Containers ^{3, 5}

¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which each must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the [IBM Storage Enabler for Containers documentation](#).

SC version	General availability	IBM FlashSystem A9000/A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.6.0	December 2018	12.0.x, 12.1.x, 12.2.x, 12.3.x Note: VVols are not supported.	XIV: 11.0.x, 11.1.x, 11.2.x, 11.3.x, 11.4.x, 11.5.x, 11.6.x Note: VVols are supported by version 11.5.1 and above. Spectrum Accelerate: 11.5.x Note: Can be managed using Spectrum Connect RESTful APIs. VVols are not supported.	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x, 8.4.x, 8.5.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported. Note: For IBM DS8000 Family, IBM Storage Enabler for Containers does not support IBM System Z (s390x) architecture.	Storwize V3500, V3700: 7.8.x Storwize V5000, V7000, SVC: 7.8.x, 8.1.x, 8.2.x FlashSystem 9100: 8.2.x FlashSystem V9000: 7.8.x, 8.1.x, 8.2.x Spectrum Virtualize as software only: 7.8.x, 8.1.x, 8.2.x VVols are supported by version 7.8.x and above. However, they cannot be used with HyperSwap. Storwize V7000 Unified: 1.5.0 Note: Only block storage is supported. File shares and file systems are not supported. Flex System V7000: 7.1.0, 7.2.0	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{3, 4} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5, 7} IBM Storage Enabler for Containers ^{3, 5}

¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which each must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the [IBM Storage Enabler for Containers documentation](#).

² In DS8000 Family products, only supported for DS8880 and DS8900.

³ Not supported for Flex System V7000.

SC version	General availability	IBM FlashSystem A9000/A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.5.0	August 2018	12.0.x, 12.1.x, 12.2.x, 12.3.x Note: VVols are not supported.	XIV: 11.0.x, 11.1.x, 11.2.x, 11.3.x, 11.4.x, 11.5.x, 11.6.x Note: VVols are supported by version 11.5.1 and above. Spectrum Accelerate: 11.5.x Note: Can be managed using Spectrum Connect RESTful APIs. VVols are not supported.	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported. Note: For IBM DS8000 Family, IBM Storage Enabler for Containers does not support IBM System Z (s390x) architecture.	Storwize V3500, V3700, V5000, SVC: 7.8, 8.1.x FlashSystem 9100: 8.2.x FlashSystem V9000, Storwize V7000: 7.8.x, 8.1.x, 8.2.x Spectrum Virtualize as software only: 7.8.x, 8.1.x VVols are supported by version 7.8.x and above. However, they cannot be used with HyperSwap. Storwize V7000 Unified: 1.5.0 Note: Only block storage is supported. File shares and file systems are not supported. Flex System V7000: 7.1.0, 7.2.0	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{3, 4} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5, 7} IBM Storage Enabler for Containers ^{3, 5}

¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which each must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the [IBM Storage Enabler for Containers documentation](#).

SC version	General availability	IBM FlashSystem A9000/ A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.4.1	June 2018	12.0.x, 12.1.x, 12.2.x Note: VVols are not supported.	XIV: 11.0.x, 11.1.x, 11.2.x, 11.3.x, 11.4.x, 11.5.x, 11.6.x Note: VVols are supported by version 11.5.1 and above. Spectrum Accelerate: 11.5.x Note: Can be managed using Spectrum Connect RESTful APIs. VVols are not supported.	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported. Note: For IBM DS8000 Family, IBM Storage Enabler for Containers supports x86 architecture only.	Storwize V3500, V3700, V5000, V7000, SVC, FlashSystem V9000: 7.8, 8.1.x Spectrum Virtualize as software only: 7.8.x, 8.1.x VVols are supported by version 7.8.x and above. However, they cannot be used with HyperSwap. Storwize V7000 Unified: 1.5.0 Note: Only block storage is supported. File shares and file systems are not supported. Flex System V7000: 7.1.0, 7.2.0	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{3, 4} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5, 7} IBM Storage Enabler for Containers ^{3, 5}

¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which each must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the [IBM Storage Enabler for Containers documentation](#).

SC version	General availability	IBM FlashSystem A9000/A9000R	XIV and Spectrum Accelerate	DS8000 Family	Spectrum Virtualize Family	Supported cloud interfaces ¹
3.4.0	March 2018	12.0.x, 12.1.x, 12.2.x Note: VVols are not supported.	XIV: 11.0.x, 11.1.x, 11.2.x, 11.3.x, 11.4.x, 11.5.x, 11.6.x Note: VVols are supported by version 11.5.1 and above. Spectrum Accelerate: 11.5.x Note: Can be managed using Spectrum Connect RESTful APIs. VVols are not supported.	DS8880: 8.0.1, 8.1.x, 8.2.x, 8.3.x Note: vSphere Web Client support is introduced by the bundle 88.1.xxx. VVols are not supported. Note: For IBM DS8000 Family, IBM Storage Enabler for Containers supports x86 architecture only.	Storwize V3500, V3700, V5000, V7000, SVC, FlashSystem V9000: 7.8, 8.1.x Spectrum Virtualize as software only: 7.8.x, 8.1.x VVols are supported by version 7.8.x and above. However, they cannot be used with HyperSwap. Version 8.1.2 does not support IBM Storage Management Pack for VMware vRealize Operations Manager. Storwize V7000 Unified: 1.5.0 Note: Only block storage is supported. File shares and file systems are not supported. Flex System V7000: 7.1.0, 7.2.0	IBM Storage Provider for VMware VASA IBM Storage Enhancements for VMware vSphere Web Client IBM Storage Plug-in for VMware vRealize Orchestrator ^{3, 4} IBM Storage Management Pack for VMware vRealize Operations Manager ^{3, 4} IBM Storage Automation Plug-in for PowerShell ^{3, 4, 5, 7} IBM Storage Enabler for Containers ^{3, 5}

¹ All listed cloud interfaces are included with the Spectrum Connect package except IBM Storage Automation Plug-in for PowerShell and IBM Storage Enabler for Containers, which each must be installed separately. For more information, refer to the IBM Storage Automation Plug-in for PowerShell chapter in the Spectrum Connect User Guide for your release version and the [IBM Storage Enabler for Containers documentation](#).

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- ⁴ Not supported for DS8000 Family products.
⁵ Not supported for Storwize V7000 Unified.
⁶ Not supported for FlashSystem A9000 or A9000R.
⁷ Not supported for XIV or Spectrum Accelerate.

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