

IBM Spectrum Virtualize Family Storage  
Replication Adapter  
4.0.0

*Release Notes*



**First Edition (August 2022)**

This edition applies to IBM Spectrum Virtualize Family Storage Replication Adapter 4.0.0 and to all subsequent releases and modifications until otherwise indicated in a newer publication. Newer document editions may be issued for the same product version in order to add missing information or amend typographical errors. The edition is reset to 'First Edition' for every new product version.

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# Overview

The IBM Spectrum Virtualize Family Storage Replication Adapter (SRA) is a software add-on that integrates with VMware vCenter Site Recovery Manager (SRM) solution and enables SRM to perform failovers together with supported storage systems.

The IBM Spectrum Virtualize Family SRA extends SRM capabilities and uses replication and mirroring as part of the SRM comprehensive Disaster Recovery Planning (DRP) solution. VMware administrators can automate the failover of a storage system at the protected (primary) SRM site to a storage system at a recovery (secondary) SRM site.



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## What's new in 4.0.0

IBM Spectrum Virtualize Family Storage Replication Adapter (SRA) 4.0.0 is a new software release. This release introduces the following enhancements:

### **Now uses a RESTful API server for invoking CLI**

The storage replication adapter now uses a RESTful API server (Representational State Transfer (REST) model application programming interface) instead of a CIM client for invoking the command-line interface.

### **Now supports single IP addresses in array pair configurations**

The storage replication adapter now supports single IP addresses as input in an array pair configuration. As a result, cross communication and providing a remote IP address during an array pair configuration is no longer required. It is important in this type of configuration for users to maintain different passwords for each storage system in an array pair configuration.

Starting from Spectrum Virtualize Family SRA 4.0.0, a full URL must be provided (for example, `https://10.11.11.10:7443/rest` or `https://10.11.11.10:7443/rest`).





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## Compatibility and requirements

The compatibility and requirements for IBM Spectrum Virtualize Family Storage Replication Adapter (SRA) 4.0.0 are documented in the following topics.

### Supported storage systems

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The IBM Spectrum Virtualize Family SRA supports the following IBM® Storage products.

Storage system	Microcode version	Compatibility notes
IBM SAN Volume Controller and IBM FlashSystem families built with Spectrum Virtualize software (including 5xxx, 7xxx, 9xxx, V5xxx, V7xxx)	8.5.x	SAN Volume Controller requires the Remote Mirror and FlashCopy® features to be enabled.

**Note:**

- Newer microcode versions may also be compatible. When a newer microcode version becomes available, refer to the [Lifecycle and support matrix page](#) in IBM Documentation to check whether the new microcode version is also supported.
- Spectrum Virtualize family (including Storwize, FlashSystem, and SAN Volume Controller) microcode version 8.5.x includes both LTS and Non-LTS releases. For more information, see [IBM Spectrum Virtualize FAQ for Continuous Development \(CD\) Release Model for software releases](#).
- Support for the following models and storage systems ends with version 8.5.0.x (LTS support only): SAN Volume Controller models DH8 and SV1; FlashSystem 5100, 5010, and 5030; Storwize V7000 G3, V5010E, V5030E, and V5100.

### Required VMware server software

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The following server software must be installed at both the protected (primary) and recovery (secondary) sites.

- VMware Site Recovery Manager 8.2 or later

**Note:** For more information about supported combinations of IBM storage system software versions and various VMware cloud platforms, see the [VMware compatibility matrix](#).

### Required VMware client software

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The following software must be installed on the administrator client station.

- VMware vSphere Web Client 6.0 U3 or later

**Note:** For more information about supported combinations of IBM storage system software versions and various VMware cloud platforms, see the [VMware compatibility matrix](#).



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# Change log

This section summarizes the changes made in different version releases of the IBM Spectrum Virtualize Family Storage Replication Adapter (SRA).

## 4.0.0 (August 2022)

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IBM Spectrum® Virtualize Family Storage Replication Adapter 4.0.0 introduces the following enhancements:

- Now uses a RESTful API server for invoking CLI
- Now supports single IP addresses in array pair configurations



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# Limitations

As opposed to known issues, limitations are functionality restrictions that are part of the predefined system design and capabilities in a particular version.

## **Spectrum Virtualize 8.5.x limitation**

The Storage Replication Adapter (SRA) does not support the Snapshot function that was introduced in IBM Spectrum Virtualize 8.5.1 release. For full VMware Site Recovery Manager (SRM) volume protection, do not use SRA on remote-copy relationships with snapshots as this might potentially result in an SRM operation failure.



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## Known issues

This section details the known issues in IBM Spectrum Virtualize Family Storage Replication Adapter (SRA) 4.0.0, along with possible workarounds (if workarounds are available).

<b>Ticket ID</b>	<b>Description</b>
<b>VMSS-260691</b>	<p>The direction of the GMCV replications shown in SRM will sometimes display incorrectly if devices are manually discovered after a Recovery operation. This issue only reproduces against GMCV.</p> <p>After a failover, the GMCV becomes idle, and SRM cannot detect the direction of the replication relationship. No other operations, such as Reprotect, however, are impacted.</p> <p><b>Workaround:</b> No workaround available.</p>
<b>SVCSRA-5161</b>	<p>If the vCenter/SRM/ESX server is down while the IBM storage is still working, the secondary recovery action might fail when the primary site is recovered.</p> <p><b>Workaround:</b> Stop the remote copies with the <b>access</b> option enabled on the storage system before running the secondary recovery.</p>

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## Related information and publications

You can find additional information and publications related to the IBM Spectrum Virtualize Family Storage Replication Adapter at the following websites:

- [IBM FlashSystem 5200, 5000, 5100, Storwize® V5100 and V5000E in IBM Documentation \(ibm.com®/docs/en/flashsystem-5x00\)](https://ibm.com/docs/en/flashsystem-5x00)
- [IBM FlashSystem 7300, 7200 and Storwize V7000 in IBM Documentation \(ibm.com/docs/en/flashsystem-7x00\)](https://ibm.com/docs/en/flashsystem-7x00)
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