# NetApp® Disaster Recovery Adapter 1.4.3 For use with VMware® vCenter Site Recovery Manager
# **Release Notes**

NetApp, Inc.
495 East Java Drive
Sunnyvale, CA 94089 USA
Telephone: +1 (408) 822-6000
Fax: +1 (408) 822-4501
Support telephone: +1 (888) 4-NETAPP
Documentation comments: doccomments@netapp.com
Information Web: http://www.netapp.com
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# What Disaster Recovery Adapter is

NetApp Disaster Recovery Adapter (disaster recovery scripts) is a storage vendor specific plug-in to VMware vCenter Site Recovery Manager that enables interaction between Site Recovery Manager and the storage controller.

The adapter interacts with the storage controller on behalf of Site Recovery Manager to discover storage arrays and replicated datastores, and to fail over or test failover the replicated datastores on which the virtual machines reside.

For more information about the new and enhanced features of Site Recovery Manager, see the Site Recovery Manager documentation.

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## What is new in this release

Disaster Recovery Adapter 1.4.3 is a unified adapter that you can use in either a NAS or a SAN environment.

Starting with Disaster Recovery Adapter 1.4.3, the following features are supported:

- Support for vFiler units as a storage array
- Support for non-quiesced Snapshot copy recovery by using the new `use_smvi_snapshot` option.

For more information about vFiler support and non-quiesced Snapshot copy recovery, see the NetApp Disaster Recovery Adapter 1.4.3 Installation and Administration Guide.

## System requirements for using Disaster Recovery Adapter

Before you run Disaster Recovery Adapter, ensure that you meet the system requirements.

The system requirements include the following:

- Data ONTAP 7.2.4 or later is installed on the following storage systems:
  - FAS200 series

- FAS20xx
- FAS30xx
- FAS31xx
- FAS60xx
- V30xx
- V31xx
- V60xx

For more information about supported platforms, see the supportability matrix on the NOW site.

**Note:** When upgrading to Disaster Recovery Adapter 1.4.3:

- In a SAN environment, you must ensure that your storage system is running Data ONTAP 7.2.4 or later.
- With MultiStore, you must ensure that your storage system is running Data ONTAP 7.3.2 or later.

- FlexClone license to test failover.
- SnapMirror license is enabled on the storage system running Data ONTAP.
- In a NAS environment, NFS services are running.
- In a SAN environment, iSCSI, FC, or both services are running.
- Site Recovery Manager is installed on Windows.

  Site Recovery Manager supports VMFS (iSCSI and FC), RDM (iSCSI and FC), and NFS storage environments.
- Perl 5.8 is installed in the system in which Site Recovery Manager is installed.

  **Note:** If the Site Recovery Manager installation does not include Perl 5.8, you can install Perl separately with the default configuration. For more information about downloading Perl, see the Perl download page.

  For more information about installing SSL on Perl, see the knowledgebase article on the NOW site.
- If you want to use secureHTTP, you must set up SecureAdmin and ensure that SSL or SSH is running.

  By default, the Perl script calls the Data ONTAP API over HTTP.

  **Note:** SecureAdmin does not require a license.
- To keep the corresponding port open, the firewall (if any) between Data ONTAP and Site Recovery Manager must be configured because SOAP, HTTP, or SSL is used.

### Related information

*Perl script download page*

*http://now.netapp.com*

# Limitations of Disaster Recovery Adapter

When you use Disaster Recovery Adapter (disaster recovery scripts) for Site Recovery Manager, exports with multiple replication destinations cannot be failed over. Also, SyncMirror replication is not supported.

- Exports or LUNs that have multiple replication destinations cannot be failed over.
- The TestFailover operation might fail if there is a volume with the same name that it tries to create. This step might destroy the existing volume during TestFailover cleanup.
- The TestFailover operation is not supported on traditional volumes because FlexClone technology is not available for traditional volumes.
- In NAS environment, exports from the storage array must have values in the `rw=` field of export permissions.

  The disaster recovery scripts do not discover exports that are exported as read-only by using `ro` or exports that are exported as read/write to all hosts from the `rw` field.
- SyncMirror replication between Site Recovery Manager sites (as in MetroCluster) is not supported.

  **Note:** A MetroCluster system might be either the source or destination of a SnapMirror relationship; however, Site Recovery Manager does not support management of SyncMirror failover between MetroCluster nodes.

For specific information about recommended configurations and best practices when using different replication modes, see the *Data ONTAP Data Protection Online Backup and Recovery Guide*.

# Known issues with Disaster Recovery Adapter 1.4.3

Disaster Recovery Adapter 1.4.3 fails under these circumstances: In an NFS environment without an initiator group of type `vmware` or in a SAN environment without an NFS license.

- During discovery of storage devices in an environment configured with only NFS storage devices and no initiator groups of type `vmware`, Disaster Recovery Adapter 1.4.3 displays the following error message:

  `"Could not find an igroup of ostype vmware"`

  To avoid such an issue, create a dummy iSCSI initiator group with the `ostype` option set to `vmware`. For more information about this issue, see Bug ID 398924 in Bugs Online, and NetApp KB article 58002.
- During discovery of storage devices in an environment configured with only SAN storage devices and without an NFS license, Site Recovery Manager fails.

  For more information about this issue, see Bug ID 422049 in Bugs Online, and NetApp KB article 58554.

### Related information

*Bugs Online*

*NetApp KB article 58002 - now.netapp.com/Knowledgebase/solutionarea.asp?id=kb58002*

*NetApp KB article 58554 - now.netapp.com/Knowledgebase/solutionarea.asp?id=kb58554*

## Upgrade and revert caution

In a NAS environment, if you are upgrading to Disaster Recovery Adapter 1.4.3 or reverting from 1.4.3 to an earlier version, you must reconfigure the protection groups and recovery plans on VMware vCenter Site Recovery Manager after the upgrade or revert operation.

For more information about reconfiguring protection groups and recovery plans on Site Recovery Manager, see the Site Recovery Manager documentation.

In a SAN environment, if you are upgrading to Disaster Recovery Adapter 1.4.3, you must ensure that your storage system is running Data ONTAP 7.2.4 or later.