RELEASE NOTES

EMC® VNXe® Storage Replication Adapter for
VMware® vCenter ™ Site Recovery Manager 5

Version 5.0.0

Release Notes
P/N 300-014-849
REV 01

January 2013

These release notes contain information on these topics:

EMC²

Revision history

The following table presents the revision history of this document:

Revision	Date	Description
01	January 2013	First release

Product description

EMC® VNXe® Storage Replication Adapter (VNXe SRA) for VMware® vCenter™ Site Recovery Manager 5 (SRM) is a software package that enables SRM to implement disaster recovery for VMware ESXi™ server virtual machines by using EMC VNXe storage systems.

New features and changes

This is the first release of VNXe SRA.

Fixed problems

This is the first release of VNXe SRA.

Environment and system requirements

The environment at both the protected (primary) and recovery (secondary) sites must meet the following requirements:

◆ Your EMC VNXe storage systems must be running Operating Environment version 2.4.0.21067 or later.

◆ One or more VMware ESXi 5.0 or ESXi 5.1 hosts must be connected to the EMC VNXe storage systems at each site.

◆ At least one replication session must be set up before you configure VNXe SRA. See "Installation and configuration" on page 3 for information.

◆ The following items must be installed, as described in "Installation and configuration" on page 3, in the order listed:

• The applicable version of VMware vCenter Server (version 5.0 for 32-bit systems or version 5.1 for 64-bit systems)

• The appropriate version of SRM (version 5.0 for 32-bit systems or version 5.1 for 64-bit systems)

• VNXe Unisphere® CLI version 1.5.1.1 or later

• VNXe SRA version 5.0.0 or later

Known problems and limitations

VNXe SRA supports VMware network file system (NFS) storage only. Shared folders or Common Internet File System (CIFS) storage is not supported.

Documentation

Part Number	Description
300-014-849	Release Notes for EMC VNXe SRA for VMware vCenter Site Recovery Manager 5

VNXe SRA allows SRM to automatically drive the setup, testing, and failover portions of the disaster recovery processes for VNXe storage systems. The following documents, available on the VMware website at http://www.vmware.com/support/pubs, provide additional information:

For SRM 5.0:

◆ *Site Recovery Manager Administration Guide*

For SRM 5.1:

◆ *Site Recovery Manager Installation and Configuration*

◆ *Site Recovery Manager Administration*

Software media, organization, and files

File Name	Description
EMC_VNXe_SRA_5_0_0_32bit.exe	Version 5.0.0 of installer for EMC VNXe SRA for VMware vCenter Site Recovery Manager 5.0 (32-bit version)
EMC_VNXe_SRA_5_0_0_64bit.exe	Version 5.0.0 of installer for EMC VNXe SRA for VMware vCenter Site Recovery Manager 5.1 (64-bit version)

Installation and configuration

Configure VNXe replication and then install the required software components in the order presented in this section.

Configure VNXe replication

At the protected site:

1. Open a web browser and connect to your VNXe.

2. In Unisphere, select **Storage › VMware**.

3. In the **VMware Storage** window, click **Create**.

4. At **Specify File System Type**, select **Network File System (NFS)** and click **Next**.

5. Select the desired storage provisioning options and **Shared File Server.**

6. At **Configure Host Access**, ensure that the protected-site storage is set to **Read/Write allow Root** for the ESXi host(s) where your protected virtual machines reside.

After you have completed storage provisioning at the protected site, configure replication at the recovery site as follows:

1. At the recovery site, open a web browser and connect to your VNXe.

2. In Unisphere, select **Storage › VMware** and then **Create Replication Destination**.

3. At the **Specify Replication Source** window, select the **Source System** (where the protected-site storage was created) and **Storage Resource** (the protected-site datastore).

4. In the **Configure Host Access** window, ensure that recovery-site storage is set to **No Access** or **Read-Only** to prevent access to the replication target.

After you have completed storage provisioning at the protected site and configured replication at the recovery site, follow these steps:

1. At the protected-site VNXe, in Unisphere, select the protected-site datastore and click **Details**.

2. In the **VMware Storage Details** window, select **Replication** and click **Configure Replication to a Remote System**.

3. Select the destination array and destination datastore you created when you configured replication at the recovery site.

Note: The VNXe series product page and the *EMC VNXe Data Protection* white paper at https://support.emc.com provide additional information about how to create a replication session on VNXe systems.

Install vCenter Server

Install one of the following versions of vCenter Server on a supported host at both the protected and recovery sites:

◆ vCenter Server 5.0 for 32-bit systems

◆ vCenter Server 5.1 for 64-bit systems

For installation instructions, see *vSphere Installation and Setup* from VMware.

Install SRM

Install one of the following versions of SRM on a supported Windows virtual machine or physical server at both the protected and recovery sites:

◆ SRM 5.0 (for 32-bit systems)

◆ SRM 5.1 (for 64-bit systems)

The following VMware documents provide SRM installation instructions:

◆ *Site Recovery Manager Administration Guide* (for SRM 5.0)

◆ *Site Recovery Manager Installation and Configuration* (for SRM 5.1)

Install VNXe Unisphere CLI

Perform the following steps to install the VNXe Unisphere command line interface (CLI):

1. At the protected site, install version 1.5.1.1 or later of the CLI on each server where SRM is installed, with the **Include Unisphere CLI in Environment Path** option selected and **Verification Level** set to **Low**.

   The VNXe Unisphere CLI installer is available at:

   https://support.emc.com/downloads/

2. Repeat step 1 at the recovery site.

Install VNXe SRA and configure SRM

Note: Before installing VNXe SRA, ensure that your environment meets the requirements outlined in "Environment and system requirements" on page 2.

1. Unzip and run either the 32-bit or 64-bit VNXe SRA installer on both the protected and recovery SRM servers.

2. Launch VMware vSphere® Client on the protected VMware vCenter site.

3. Click **Site Recovery** in the **Solutions and Applications** section of the vSphere Client home page.

4. Connect the protected and recovery sites.

   The following VMware documents provide instructions for connecting the sites:

   • *Site Recovery Manager Administration Guide* (for SRM 5.0)

   • *Site Recovery Manager Installation and Configuration* (for SRM 5.1)

5. Set up inventory mappings.

   The following VMware documents provide instructions for setting up inventory mappings:

   • *Site Recovery Manager Administration Guide* (for SRM 5.0)

   • *Site Recovery Manager Administration* (for SRM 5.1)

6. Click the **Rescan SRAs** link.

7. Click **Array Managers** on the bottom of the left pane. For each site, click the **SRAs** tab in the right pane.

Note: If you did not create a replication session, as described in "Configure VNXe replication" on page 3, you cannot enable array pairs.

8. Create protection groups and recovery plans.

   The following VMware documents provide instructions:

   - *Site Recovery Manager Administration Guide* (for SRM 5.0)

   - *Site Recovery Manager Administration* (for SRM 5.1)

Troubleshooting and getting help

For additional information, see Everything VMware at EMC on the EMC Community Network at:

https://community.emc.com/community/connect/everything_vmware

The following resources provide additional information on configuration and best practices with SRM:

◆ VMware vCenter Site Recovery Manager Documentation Center:
  http://pubs.vmware.com/srm-51/index.jsp

◆ Getting Started with Site Recovery Manager Videos:
  http://www.vmware.com/products/site-recovery-manager/resource.html

EMC support, product, and licensing information can be obtained as follows:

◆ Product information

  For documentation, release notes, software updates, or information about EMC products, go to EMC Online Support at:

  https://support.emc.com

◆ Technical support

  Go to EMC Online Support and click Service Center. You will see several options for contacting EMC Technical Support. Note that to open a service request, you must have a valid support agreement. Contact your EMC sales representative for details about obtaining a valid support agreement or with questions about your account.

Log collection — Open SRM, select the first site under the **Sites** view, and click **Export System Logs** under the **Commands** heading. Repeat the process for the second site.

.