

HP Server Automation Storage Visibility and Automation SE Connector

for the Red Hat Enterprise Linux, Solaris, and Windows® operating systems

Software Version: 7.83

Release Notes

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1 What's New in SE Connector 7.83

SE Connector is a storage scanner component in the Storage Visibility and Automation feature that collects data from Storage Essentials (SE) about SAN elements and inventory, and their connectivity. These SAN elements include storage arrays, fabrics, switches, and NAS filers. This storage data is transferred to the SA core and stored in the Model Repository.

The following sections describe all new features, enhancements, and changes in SE Connector.



In 7.83, the content described in the [SE Connector Content](#) section is installed as part of the patch installation. You do *not* need to install the content using HP Live Network connector (LNC) as you did in previous versions.

Storage Essentials Support

The following support was added in SE Connector:

- Support for Storage Essentials 6.2.1
- Co-existence of support for Storage Essentials CMS versions 6.1.1, 6.2, and 6.2.1

SE Connector Content

The following content (which will be installed when you install the patch) was added to the patch uploader for the SE Connector:

- *SE Storage Scanner - Full SE Connector with SE Client Libraries* (6.1.1, 6.2, and 6.2.1).
- *SE Connector Update for 6.1.1 - SE 6.1.1 Client Libraries*.
- *SE Connector Update for 6.2 - SE 6.2 Client Libraries*.
- *SE Connector Update for 6.2.1 - SE 6.2.1 Client Libraries*.
- SE Storage Essentials 6.2.1

Remediation

The following mandatory remediation functionality was added to SE Connector:

- **To communicate with SE 6.1.1 CMS**, remediate with the SE Storage Scanner Policy (Base policy with 6.1.1 SE client libraries).
- **To communicate with SE 6.2 CMS**, remediate with the Storage Scanner Policy and then with the SE Connector Update for 6.2.0 policy.
- **To communicate with SE 6.2.1 CMS**, remediate with the Storage Scanner Policy and then with the SE Connector Update for 6.2.1 policy.

Documentation Available

The following documentation is provided with this release:

- *Storage Visibility and Automation Release Notes*
- *SE Connector Release Notes*
- *Storage Visibility and Automation Support Matrix*
- *Server Automation Release Notes*
- *Server Automation Support Matrix*

For information about new features, and fixed and known problems in previous releases, see the *SE Connector Release Notes* for those releases. Go to:

<http://h20230.www2.hp.com/selfsolve/manuals>

This site requires that you register for an HP Passport and sign in. To register for an HP Passport ID, go to:

<http://h20229.www2.hp.com/passport-registration.html>



For information about new or modified features for HP Server Automation (SA), Service Automation Visualizer (SAV), Service Automation Reporter (SAR), and Storage Essentials (SE) please refer to separate *Release Notes* for those products.

What Was New in 7.82

Storage Essentials Support

The following support was added in SE Connector:

- Support for Storage Essentials 6.2
- Support for Storage Essentials Replication
- Co-existence of support for Storage Essentials CMS versions 6.1.1 and 6.2

SE Connector Content

The following content was added to SE Connector:

- SE Storage Scanner - This consists of the full SE Connector with default SE Client Libraries (6.1.1.72).
- SE Connector Update for 6.2.0 - This consists of only SE 6.2 Client Libraries.



This content must be installed using HP Live Network connector (LNc), which is available from the BSA Essentials Network (BSAEN). LNc enables you to download and import SE Connector (as a software policy) in a core. To access the LNc home page, go to <https://h20034.www2.hp.com/>. To access the BSAEN home page, go to www.hp.com/go/bsaenetwork.

See the *SE Connector Installation Guide* for more information.

Remediation

The following remediation functionality was added to SE Connector:

- **For communicating with SE 6.1.1 CMS**, you must remediate with the SE Storage Scanner Policy (Base policy with 6.1.1 SE client libraries).
- **For Communicating with SE 6.2 CMS**, you must first remediate with the Storage Scanner Policy and then with the SE Connector Update for 6.2.0 policy.

Replication

The following replication functionality was added to SE Connector:

- A *replication pair* consists of the source volume and the target (or copy) volume, including properties that describe the type of replication used to back up or copy the source volume. Replication can be either *local* (where source and target volumes are on the same array) or *remote* (where source and target volumes are on different arrays).
- A new Replication tree control is available on the Inventory ► Storage panel. A replication pair consists of the source volume and the target (or copy) volume, along including properties that describe the type of replication used to back up or copy the source volume. To find detailed information on replication pairs, perform the following steps:
 - 1 From the Navigation pane, select Devices ► Storage ► SAN Arrays.
Or
Select Devices ► Storage ► NAS Filers.
 - 2 In the content pane, select a storage system and then open it.
 - 3 In the San Array or NAS Filer browser, select Inventory ► Storage ► Replication.
See [Storage Visibility and Automation Release Context-sensitive \(F1\) Help](#) on page 15 for descriptions of information displayed in this panel.

Table 1 describes the storage array models and replication types that SE Replication supports with SE Connector.

Table 1 Supported Storage Arrays and Replication Types

Array	Model	Replication Pair Type	Replication Technology/Name
EVA	6200/4100	Local	Business Copy (BC) Snapshots Snapclones
		Remote	Continuous Access (CA)
HP XP	XP24k/XP12K	Local	Business Copy (BC) Snapshots
		Remote	Continuous Access (CA) Continuous Access Journal (CA Journal)
HDS	HDS990V/USB	Local	Shadowimage C.O.W. Snapshot

Table 1 Supported Storage Arrays and Replication Types (cont'd)

Array	Model	Replication Pair Type	Replication Technology/Name
		Remote	TrueCopy Universal Replicator
EMC Symmetrix	Symm48:3830 SymmDMX800	Local	Business Continuous Volumes (BCV)
		Remote	RDF
NetApp	FAS270	Local	Snapshot SyncMirror
		Remote	Snapshot

2 What's Fixed in SE Connector 7.83



For information about fixed defects for Server Automation (SA), Service Automation Visualizer (SAV), Service Automation Reporter (SAR), and Storage Essentials (SE), please refer to the *Release Notes* for those products or features.

QCCRID 93313

Description: When you create a new access control, you are prompted for the case-sensitive username for an existing user in Storage Essentials. If you enter the username in the wrong case, and later try to use the SE Scanner to reenter the same username in the correct case, your changes are not implemented in the new access control.

Platform: Independent

Subsystem: SE Connector

Symptom: You cannot change the case of existing access-control usernames using the SE Scanner.

Resolution: Fixed.

QCCRID 93316

Description: When you create a new access control, you are prompted for the case-sensitive password for an existing user in Storage Essentials. If you enter the password in the wrong case, and later try to use the SE Scanner to reenter the same password in the correct case, your changes are not implemented in the new access control.

Platform: Independent

Subsystem: SE Connector

Symptom: You cannot change the case of existing access-control passwords using the SE Scanner.

Resolution: Fixed.

3 Known Problems, Restrictions, & Workarounds in SE Connector 7.83



For information about known defects for Server Automation (SA), Service Automation Visualizer (SAV), Service Automation Reporter (SAR), and Storage Essentials (SE), please refer to the *Release Notes* for these products or features.

QCCRID 88755

Description: There is no Target and Target Volume information displayed for a LUN.

Platform: Independent

Subsystem: SE Connector

Symptom: Target and Target Volume display "-" for a LUN in the storage volume access path view.

Workaround: None.

QCCRID 91582

Description: Provisioning changes on a volume or pool for an EVA array might not immediately display in its corresponding inventory view.

Platform: Independent

Subsystem: SE Connector

Symptom: When you perform a provisioning operation for an HP EVA array (such as create, delete, or modify a volume or pool), the changes for the volume or pool might not be immediately available in SA after running the "Update from Storage Essentials" process.

Workaround: After 30 minutes has lapsed, run the "Update from Storage Essentials" process again. See the *Storage Essentials SRM Software User Guide* for information about provisioning EVA arrays.

QCCRID 103996

Description: In the Storage Scanner panel, the 6.2 Storage Scanner is displayed twice for a managed server on which 6.2 SE Scanner is deployed.

Platform: For all OS supported for SA core

Subsystem: SE Connector

Symptom: When a managed server on which SE Connector is running is directly deactivated and deleted, stale entries of storage scanners will display in the Storage Scanner panel. The stale entries count will increase, depending on how many times the managed server is deactivated and deleted from the SA core.

Workaround: Manually delete the inactive storage scanner entries from the Storage Scanner panel by using the Remove menu option for each entry.

QCCRID 105953

Description: An EMC Symmetrix array that is discovered through SE Connector can report more than one storage volume with the same LUN number presented to a managed server. Running the storage snapshot specification on the managed server will succeed; however, the Inventory ► Storage ► File Systems and Inventory ► Storage ► Managed Software panels will be empty.

Platform: Independent

Subsystem: SE Connector

Symptom: The Inventory ► Storage ► File Systems and Inventory ► Storage ► Managed Software panels will be empty. Also, some host volumes with a LUN service type will not be displayed in the Storage ► Inventory ► Volumes panel. For the EMC storage array in the Relationships ► Storage Initiators panel for this managed server, there will be more than one volume that has the same LUN number.

Workaround: None

4 Documentation Errata

This chapter updates information in the Storage Visibility and Automation user documentation.

Storage Visibility and Automation Release Context-sensitive (F1) Help

A new Replication Pairs panel was added in the 7.82 release. This window provides the following information:

Copy Type—The type of association between source and target, such as Async, Sync, UnSyncAssoc, UnSync, UnAssoc, and Migrate

Replica Type—The type of replication, such as Full Copy, Before Delta, After Delta, Log, and Not specified.

Source Device—The name of the source device.

Source Volume—The name of the source volume.

Status—The State of the association between source and target, such as Initialized, PrepareInProgress, Prepared, ResyncInProgress, Synchronized, FractureInProgress, QuiesceInProgress, Quiesced, RestoreInProgress, Idle, Broken, Fractured, Frozen, and CopyInProgress.

Target Device—The name of the target device.

Target Volume—The name of the target volume.



There is no online Help available for this new panel. When you press F1, an empty page displays.

Replication

The following replication functionality was added to SE Connector:

- A *replication pair* consists of the source volume and the target (or copy) volume, including properties that describe the type of replication used to back up or copy the source volume. Replication can be either *local* (where source and target volumes are on the same array) or *remote* (where source and target volumes are on different arrays).
- A new Replication tree control is available on the Inventory ► Storage panel. A replication pair consists of the source volume and the target (or copy) volume, along including properties that describe the type of replication used to back up or copy the source volume. To find detailed information on replication pairs, perform the following steps:
 - 4 From the Navigation pane, select Devices ► Storage ► SAN Arrays.

Or

Select Devices ► Storage ► NAS Filers.

5 In the content pane, select a storage system and then open it.

6 In the San Array or NAS Filer browser, select Inventory ► Storage ► Replication.

Table 2 describes the storage array models and replication types that SE Replication supports with SE Connector.

Table 2 Supported Storage Arrays and Replication Types

Array	Model	Replication Pair Type	Replication Technology/Name
EVA	6200/4100	Local	Business Copy (BC) Snapshots Snapclones
		Remote	Continuous Access (CA)
HP XP	XP24k/XP12K	Local	Business Copy (BC) Snapshots
		Remote	Continuous Access (CA) Continuous Access Journal (CA Journal)
HDS	HDS990V/USB	Local	Shadowimage C.O.W. Snapshot
		Remote	TrueCopy Universal Replicator
EMC Symmetrix	Symm48:3830 SymmDMX800	Local	Business Continuous Volumes (BCV)
		Remote	RDF
NetApp	FAS270	Local	Snapshot SyncMirror
		Remote	Snapshot