

HP Storage Essentials

For the Windows® and Linux operating systems

Software Version: 9.70

Release Notes

Document Release Date: July 2014

Software Release Date: July 2014



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Acknowledgements

This product includes software developed by the Apache Software Foundation (<http://www.apache.org/>).

This product includes software developed by the JDOM Project (<http://www.jdom.org/>).

This product includes cryptographic software written by Eric Young (eay@cryptsoft.com).

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org/>).

This product includes software written by Tim Hudson (tjh@cryptsoft.com).

This product includes an interface of the 'zlib' general purpose compression library, which is Copyright © 1995-2002 Jean-loup Gailly and Mark Adler.

Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
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Storage Essentials and Reporter Release Notes

Software version: 9.70

Publication date: July 2014

This document is an overview of the changes made to Storage Essentials (). It contains important information that is not included in books or Help. You can find information about the following in this document:

- [What's New in This Release](#)
- [Support Matrix](#)
- [Installation Requirements](#)
- [Requested Enhancements](#)
- [Fixed Defects](#)
- [Known Issues and Workarounds](#)
- [Limitations](#)
- [Documentation Updates](#)

What's New in This Release?

Version 9.70 is a new release of the management server, CIM extensions, CLI, and reporting engine software. In addition to support for new elements and inclusion of new features, issues from past releases have been corrected.

Version 9.70 is a full release which can be installed on a new system. Migration and upgrade from previous releases are supported.

Note: Based on the license keys you received, you might have access to only certain features. See the List of Features to determine if you have access to all features. The List of Features is accessible from the Documentation Center (**Help > Documentation Center**).

- HP Storage Essentialsnow supports the following database types:
 - PostgreSQL – This is embedded with HP Storage Essentials.
 - Customer supplied Oracle RAC – This must be installed, configured, and maintained by the customer.
- Devices Support
 - EMC Isilon
 - VNX Filer
 - VNX Block Performance Pack

Release Notes

Storage Essentials and Reporter Release Notes

- Clariion Performance Pack
- HP StoreEasy X3830/3840 NAS Gateway
- Support for new firmware, operating systems, software levels and configurations
 - HP StoreOnce B6500
 - EMC Solutions Enabler 7.6 (64-bit CIMOM)
 - IBM XIV 11.1, SVC/V7000 performance policy
 - Windows 2012 and RHEL 6.4
 - Windows 2012 R2

For more details, see the *HP Storage Essentials Support Matrix*.

Storage Essentials Support Matrix

You can find the Support Matrix for this product that lists all software and hardware requirements at this location: [HP Support matrices](#).

Note: Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract. To find more information about support access levels, go to [Access levels](#).

To register for an HP Passport ID, go to [HP Passport Registration](#).

Installation Requirements

You can find the requirements and steps to install HP Storage Essentials in the *HP Storage Essentials Installation Guide* on the product installation media under the `docs` folder available in the top-level directories of the installer DVD. For example, if you are installing HP Storage Essentials on a Windows operating system, the *HP Storage Essentials Installation Guide* is available at the following location:

```
HP_SE_9.70 DVD\ManagerCDWindows\docs\installation_guide.pdf.
```

After installation, the *Storage Essentials Installation Guide* is available at this location:

```
<Install_Dir>\JBossandJetty\server\appiq\webapp\appiq\help\HPSA\docs\
```

In this instance, `<Install_Dir>` is the HP Storage Essentials installation location.

Summary of Installation Steps

Following is a quick summary of installation steps. For detailed instructions on installation, migration, and upgrade, see the *HP Storage Essentials Installation Guide*.

1. Mount the DVDs for the management server and Reporter on the server. If you are installing only the management server or only Reporter, then mount only the corresponding DVD.
2. If you plan to use external oracle RAC as the database, follow these steps:
 - a. Create and configure Oracle RAC database for HP Storage Essentials and Reporter. See the *Installation Guide* for information on configuration details.
 - b. Install and configure Oracle client on the server. (Only for Reporter installation or if you require failover support for the management server database).
3. (Linux Only) Make sure that your X11 DISPLAY settings are correct.
4. Run `setup.exe` (Windows) or `setup.bin` (Linux) to launch the Installation Wizard.
5. Follow the instructions on the Installation Wizard to complete the installation.

Upgrade/Migration Matrix

Existing Configuration	Automatic upgrade to 9.70 using wizard*	Manual upgrade (Migration) to 9.70**
Management Server 9.5.1 (Stand-alone)	Recommended for Windows Not Supported on Linux	Supported
Management Server 9.6.1 (Stand-alone)	Recommended	Supported
Reporter 9.5.1 (Stand-alone)	Not Supported	Supported
Reporter 9.6.1 (Stand-alone)	Recommended	Supported

Existing Configuration	Automatic upgrade to 9.70 using wizard*	Manual upgrade (Migration) to 9.70**
Management Server and Reporter 9.5.1 (Single-server)	Not Supported	Supported
Management Server and Reporter 9.6.1 (Single-server)	Recommended	Supported
* Automatic Upgrade is supported only for Windows 2008 and SUSE 11.		
** Back up your data manually, run the Installation Wizard and select the Migration option.		

Note: Any version lower than 9.5.1 should be upgraded to 9.5.1 or 9.6.1 before starting with upgrade or migration to version 9.70.

Migrating Storage Essentials

Following is a quick summary of installation steps. For detailed instructions on installation, migration, and upgrade, see the *HP Storage Essentials Installation Guide*.

1. Run Pre-Migration Assessment Tool available in the DVD to identify devices not supported in 9.70.
2. Backup the existing license file and configurations files. Refer installation guide for details.
3. Export the database using the Administration Utility available in the DVD.
4. Export RO BIAR file using the ExportBIARFile utility available in the DVD.
5. Uninstall the existing product using the removeAll.cmd or removeAll.sh script available in the DVD.
6. Reboot the server. This is mandatory.
7. Follow steps (1) to (5) in the [Installation Steps](#) provided earlier. During the installation, select the check box for migration in the Installation Wizard and provide the path to the folder where you have taken the database and BIAR back up. Refer to the *HP Storage Essentials Installation Guide* for more information.

Upgrading Storage Essentials

Follow steps (1) to (5) in the [Installation Steps](#) provided earlier.

Note: If you are upgrading Reporter use the Reporter upgrade DVD for your operating system.

Hardware and Software Requirements

For the list of supported devices, hardware platforms, operating systems, and databases, see the *HP Storage Essentials Support Matrix* available at the following URL:
http://h20230.www2.hp.com/sc/support_matrices.jsp.

Enhancement Requests

This section lists the enhancement requests addressed in this release. The reference number for each defect is the Quality Center Change Request (QCCR) number. For more information about pending enhancement requests, visit [HP Software Support Online](#), or contact your HP Support representative directly.

Enhancement ID	Description
QCCR1G47803	Management server software should be able to discover, manage, and report on EMC VNX Filer/NAS
QCCR1G48315	Create report objects for HDS array with Host Mode 2
QCCR1G47405	Links are not shown between VMware hosts and core Cisco switches when hosts are connected to Cisco switches in NPV mode.
QCCR1G49733	Enhancement request for support for VXVM version 6.0.000.000
QCCR1G51051	Enhancement request to have Policy Manager performance policies for IBM SVC & IBM V7000
QCCR1G50672	Enhancement request for storage system volume "Record Created" property to be available in Reporter universe
QCCR1G51206	Enhancement Request to support for IBM XIV Firmware version 11.x
QCCR1G52236	Enhancement Request for RO to support IE10 browser
QCCR1G52798	Show Blank Topology for a Storage System if Front End HOST Dependencies are not available.
QCCR1G52571	Enhancement Request to use external Oracle databases for the Management Server.
QCCR1G52474	Enhancement request to support 3PAR File Controller in SE
QCCR1G50859	Enhancement Request to discover Windows Server 2012 from the Management Server.
QCCR1G51353	ER to support RedHat 6.4 for managed nodes
QCCR1G51659	Enhancement request to support Veritas NetBackup version 7.5 from the Management Server

Fixed Defects

The section lists the defects fixed in this release. The reference number for each fixed defect is the Quality Center Change Request (QCCR) number. For more information about fixed defects, visit [HP Software Support Online](#), or contact your HP Support representative directly.

- **Controllers, Controller Ports, Storage Pools, Volumes are No Longer Displayed in the Elements Tree in the Left Pane of Performance Manager for the 3PAR Array**
- **Windows 2008 R2 host discovered using CIME does not stitch to the underlying ESX server**
- **In IPv6 environments Hosts discovered via Host Agents does not stitch to underlying ESX server.**
In IPv6 environments the hosts discovered via Host Agent is stitched to underlying ESX server.

Known Issues and Workarounds

This section lists the known problems in this release. For more information about open defects, visit [HP Software Support Online](#), or contact your HP Support representative directly.

Discovery step 3 throws replication errors for 3Par Array with InFORM OS 3.1.2 (MU3) version

Problem	Replication errors are shown while discovering the 3PAR arrays in Storage Essentials.
Description	While discovering 3PAR arrays with 3PAR InForm OS 3.1.2 (MU3), replication errors are shown while discovering the array if there are hosts on the array that do not have any LUNs assigned to them. This is due to a bug in the SMI-S provider of 3PAR InForm OS 3.1.2 (MU3).
Workaround	Remove the hosts that do not have any LUNs presented to them through the 3PAR InForm Management Console and then discover the 3PAR array.

X3000: Show Impact of the x3000 storage system is not shown in system manager page & observed NPE in Java console.

For an X3830 StoreEasy device, the System Manager displays only the path between connected hosts and the storage system and the path between a connected switch and a storage system. It does not display the path between the switch and the backend storage system.

Capacity Values for VNX Filer is double counted as it is listed along with the Storage System "VNX Block" in Capacity Dashboard

The capacity values for VNX Filer that are displayed in Capacity Dashboard are twice the actual capacity value.

RCR on External Oracle: In Last refresh summary, Refresh start/end refresh time should be from SE CMS server side

When you perform Report Cache Refresh (RCR) on Storage Essentials with Oracle RAC database where the servers are on different time zones, the timestamps displayed in the Refresh Summary are not of the management server. The timestamps for Refresh Start and Refresh End time are of the server where Oracle RAC is running. However, the timestamps for the Batch Update Start and End time, and the Path Calculation End Time are of the management server.

ERROR Volume is allocated from multiple pools: <pool_name>

When a meta volume is comprised of LUNs from different storage pools for EMC CLARiiON and VNX device, the volume is presented as belonging to one single pool in HP Storage Essentials. You can ignore this error.

HP Storage Essentials does not collect real-time performance data on disk drives for VNX/CLARiiON. However, scheduled collection (historical) on disk drives continue to collect the performance data.

Unsupported devices are not captured in the PreMigrationAssessment tool reports

The following devices are not supported in HP Storage Essentials version 9.70. However, these might not be captured in the PreMigrationAssessment tool reports.

- X9000(IBRIX) – 5.4.104.7
- Cisco Switches – MDS 9216, MDS 9120, MDS 9140, MDS 9216i
- EMC Solutions enabler – 7.2, 7.3, 7.5.1

In a dual-server type of configuration, when the management server is installed to use external Oracle RAC as the database, the Administration utility on Reporter server might fail to connect to the Oracle RAC database.

In such a case, you must create and configure the `<ADMIN_HOME>/server/appiq/deploy/appiq-oracle-ds.xml` file manually.

To create and configure the `appiq-oracle-ds.xml` file, follow these steps:

1. Under the `<ADMIN_HOME>/server/appiq/deploy` folder, locate the `appiq-oracle-ds-oracle.xml` file. Rename the `appiq-oracle-ds-oracle.xml` file to `appiq-oracle-ds.xml`.
2. Edit the `<ADMIN_HOME>/server/appiq/deploy/appiq-oracle-ds.xml` file to change the content of the following XML element:

```
<connection-url>jdbc:oracle:thin:@localhost:1521:APPIQ</connection-url>
```

Make the following modifications:

- Change `localhost` to the host name or the IP address of the Oracle RAC machine.
 - Change `APPIQ` to the Oracle RAC SID name.
 - Change `1521` to the Oracle RAC SID listener port number.
3. Save the `<ADMIN_HOME>/server/appiq/deploy/appiq-oracle-ds.xml` file.

Limitations

This section lists the limitations in this release. For more information about open defects, visit [HP Software Support Online](#), or contact your HP Support representative directly.

The Product is Not Completely Localized

Problem	HP Storage Essentials is not completely localized.
Description	After you change the locale using the Locale settings (Configuration>Locale) in the management server, English might be displayed in some areas of the product instead of the local language.

Isilon replication pairs information is not shown after the GAED when Isilon storage systems are in different discovery groups.

Problem	Isilon replication pair information is not shown if the Isilon storage systems are in different discovery groups.
Description	Isilon devices must be in the same discovery group to view the replication pairs information. As a workaround, move the Isilon devices to the same discovery group before you start GAED.

SE CLI: Event type table in the CLI guide needs to be updated with the new event types

Problem	SE CLI: Event type table in the CLI guide needs to be updated with the new event types
Description	The event types that are new in Storage Essentials version 9.70 are not supported with <code>appiqlist</code> and <code>appiqshow</code> commands that accept <code><eventtype></code> as argument. Refer to the <i>HP Storage Essentials CLI Guide</i> for list of event types that are supported with CLI.

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