

HP Storage Essentials

Software Version: 9.6.0

Release Notes

Document Release Date: May 2013

Software Release Date: May 2013



Legal Notices

Warranty

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

For information about third-party and/or open source license agreements, see the \Licenses directory on the product installation media.

Restricted Rights Legend

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notice

© Copyright 2002 - 2013 Hewlett-Packard Development Company, L.P.

Trademark Notices

Adobe™ is a trademark of Adobe Systems Incorporated.

Java is a registered trademark of Oracle and/or its affiliates.

Microsoft® and Windows® are registered trademarks of Microsoft Corporation.

Oracle is a registered trademark of Oracle Corporation.

UNIX® is a registered trademark of the Open Group.

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).

Release Notes

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.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

To check for recent updates or to verify that you are using the most recent edition of a document, 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>

Or click the **New users - please register** link on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

Support

Visit the HP Software Support Online web site at:

<http://www.hp.com/go/hpsoftwaresupport>

This web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract. To register for an HP Passport ID, go to:

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

To find more information about access levels, go to:

http://h20230.www2.hp.com/new_access_levels.jsp

Contents

Release Notes	1
Contents	6
Storage Essentials and Reporter Release Notes	7
What's New in This Release?	7
Storage Essentials Support Matrix	8
Installation Requirements	9
Hardware and Software Requirements	9
Enhancement Requests	10
Fixed Defects	12
Known Issues and Workarounds	14
Limitations	16
Documentation Updates	20
We appreciate your feedback!	21

Storage Essentials and Reporter Release Notes

Software version: 9.6.0

Publication date: April 2013

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 9.6.0 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 9.6.0 is a full release which can be installed on a new system. Migration from previous releases are supported.

Note: 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**).

- **IPv6 support**
HP Storage Essentials now supports dual stack IPv4 and IPv6 environment to communicate with various devices, such as switches, storage systems, and NAS devices on your network.
- **Certificate-based authentication**
HP Storage Essentials now supports certificate-based authentication, such that the users can log on to the management server using the certificates provided by the organization. The account information in the certificate is used by the management server to authenticate your account. After you log on, all the features and functionalities in the management server are available as per your role and account type.

Release Notes

Storage Essentials and Reporter Release Notes

- **Devices support**
 - VNX block storage: With HP Storage Essentials 9.6.0, you can only manage the block storage of a VNX storage system (CLARiiON block storage array).
 - Brocade Access Gateway: HP Storage Essentials now supports Brocade Access Gateway discovery.
- Thin provisioning support for HP P6000 EVA storage systems.
- New and simplified installer wizard for installing the product on the Windows platform.
- Enhanced Hewlett-Packard storage support for HP 3PAR storage arrays running InForm OS v3.1.2.
- Updated versions of management server components, including Oracle 11.2.0.3 and SAP Business Objects version XI 3.1 SP5.
- Support for additional elements, new firmware, operating system, and software levels, and configurations (as outlined in the 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 Installation Guide is available at the following location:

```
HP_SE_9.6.0 DVD\ManagerCDWindows\docs\installation_guide.pdf.
```

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

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

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

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
QCCR1G38812	Enhancement request for HTTPS (secure access) single sign-on to Report Optimizer, currently get the message "Security Alert: You are about to leave a secure internet connection" when launching Report Optimizer from an SSL only web site
QCCR1G42872	Enhancement request for the Linux CIM Extension (Host Agent) to use Java 1.6.0
QCCR1G45472	Enhancement Request - Management server software should be able to manage, display, and report on CLARiiON CX4-480 arrays with flare code version 04.30.000.5.509
QCCR1G46277	Enhancement Request: Management server software should be able to discover, manage, and report on Brocade switches in Access Gateway mode using N_Port ID Virtualization (NPIV)
QCCR1G47033	Enhancement Request: Management server software should display and report on EMC CLARiiON storage pools for Clariion Flare code version 6.30 and 6.31
QCCR1G47034	Enhancement Request: Management server software should report on Thin Pools for Clariion arrays
QCCR1G47894	Storage management software should show Cisco ports with hardware failures
QCCR1G48115	Enhancement request to report on thin provisioned volumes on EVA storage systems
QCCR1G48429	Enhancement request to support IBM AIX 7 OS from the Management Server.
QCCR1G48433	Enhancement Request: Management server software should be able to discover, manage and report on Clariion devices with Navisecli using security setting of Medium
QCCR1G48484	Enhancement Request for the Management Server to support NetApp ONTAP 8.1
QCCR1G48491	Enhancement Request to support IE 9 as a browser platform
QCCR1G48506	Enhancement Request to support EMC VNX Block from the Management Server.

Release Notes

Enhancement Requests

Enhancement ID	Description
QCCR1G48605	Enhancement request to provide a patch that enables the Management Server to support newer releases of 3Par software
QCCR1G49277	Enhancement Request to support MC Service Guard A.11.20.00 from the Management Server.
QCCR1G49320	Oracle version used with management server software must be 11.2.0.3 in order to get security patches
QCCR1G49403	Enhancement Request : The management server does not support metalun replication for Clariion arrays
QCCR1G49593	Enhancement Request - Request that SE Management Server forward SNMP traps in SNMPv3 format to other applications
QCCR1G49601	Enhancement Request to use TLSv1 cipher suites instead of SSLv3.
QCCR1G49633	Enhancement Request: Management server software should be able to discover, manage, and report on HDvM version 7.3
QCCR1G49672	ER: support for 3Par remote replication support
QCCR1G50115	Enhancement Request to support X9000 models running Fusion Manager 6.1.2

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.

Linux Agentless: Build Regression: Update Element Data on the host is throwing some replicating errors

Problem	Update Element Data on a Linux host discovered through agentless does not work
Description	<p>The Update Element Data feature does not work for Linux hosts discovered through agentless discovery. If you use the Update Element Data feature on a Linux host that was discovered through the agentless discovery method, HP Storage Essentials displays replication errors resembling the following in the View Logs page and does not update data for the element:</p> <pre>[2011-09-20 17:44] Getting Element Details in progress for Discovery Group 4: rondo [2011-09-20 17:44] Updating access point caches... [2011-09-20 17:44] Thread 1 (Discovery Group 4): Getting details for rondo [2011-09-20 17:45] Discovery Group 4: ERROR replicating ":LinuxComputerSystem.Name=\"rondo\", CreationClassName=\"LinuxComputerSystem\" : CIM_ COMPUTERSYSTEM CIM_SYSTEMDEVICE CIM_ DISKDRIVE null null true 2 1 9 true associations [2011-09-20 17:46] Discovery Group 4: ERROR replicating ":LinuxComputerSystem.Name=\"rondo\", CreationClassName=\"LinuxComputerSystem\" : CIM_ COMPUTERSYSTEM CIM_SYSTEMDEVICE CIM_ STORAGEEXTENT null null true 2 1 9 true associations</pre>

Capacity Manager: Used Capacity value shown for the discovered Centera Storage System does not matching with the Capacity Manager "Used Capacity" value

Problem	Used Capacity value for Centera arrays differs in Capacity Manager and in the Capacity Dashboard
Description	<p>The Used Capacity value is calculated differently in Capacity Manager and in the Capacity Dashboard, as follows:</p> <ul style="list-style-type: none"> Capacity Dashboard: Is the capacity used to store the actual user data and overhead containing metadata. Capacity Manager: Is the capacity used to store the actual user data. It does not include overhead containing metadata.

Stitching missed between a virtual machine and P4000 array

Problem	Missed stitching sometimes occurs between VM Windows hosts and P4000 arrays.
Description	System Manager sometimes displays missed stitching between VM Windows hosts and P4000 arrays. The following error message is displayed: <code>java.lang.NullPointerException: com.appiq.service.topology.service.PathServiceTask</code>

MSA1000: Properties Page URL link does not launch the ACU

Problem	Link on Properties page for the MSA1000 does not launch ACU
Description	The Management URL link on the properties page for the MSA1000, does not launch the Array Configuration Utility (ACU). The workaround is to launch the ACU by copying the link into a Web browser or to go to a host on the fabric with ACU installed and launch ACU.

"Map Usage Summary" report displays incorrect MAP count when compared to the HP Storage Essentials license page MAP count

Problem	Incorrect MAP count in the "Map Usage Summary" report
Description	The "Map Usage Summary" report displays an incorrect MAP count when compared to HP Storage Essentials License page MAP count.

DP Agentless: Backup manager topology is not overwritten for a DP agentless host upgraded from v6.11 to v6.2 after GAED is performed

Problem	A duplicate backup topology is displayed after the Data Protector agentless host is upgraded
Description	When a Data Protector agentless host is upgraded from v6.11 to v6.2, the Backup Manager topology shows the previous and upgraded versions of Data Protector cell managers separately.

DP Agentless: Protection time/Expiration of media time not shown in Report Optimizer

Problem	Data Protector: Missing information for media protection date
Description	For Data Protector, the media protection date (protection time/expiration of media time) is not displayed in Report Optimizer.

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.

DPR installer stops importing BIAR file with log entry "Product: SAP BusinessObjects Enterprise XI 3.1 SP5 -- Installation operation failed."

Problem	"Product: SAP BusinessObjects Enterprise XI 3.1 SP5 -- Installation operation failed." Message
Description	The following message appears while installing Report Optimizer: Product: SAP BusinessObjects Enterprise XI 3.1 SP5 -- Installation operation failed.
Workaround	Temporarily disable the anti-virus software and then re-attempt to install Report Optimizer

Host/EVA: Duplicate access points are created when a host or EVA is discovered using both domain name and IP address

Problem	Duplicate EVAs or hosts are displayed when discovered through their IP address and domain name
Description	The access point from the first discovery is deleted on the Get Details (Discovery Step 3) web page when the duplicate device is discovered again through an IP address or DNS name.
Workaround	Discover an EVA or a host either through its IP address or DNS name. Do not discover the device twice through both methods. The device appears twice in the product when the device is discovered through its IP address and DNS name.

VLS9000: Update Element Data is not getting latest data for Cartridges and Slots

Problem	For VLS9000, Update Element Data does not provide the latest data for Cartridges and Slots
Description	After you run Update Element data on a discovered VLS9000 device, information related to cartridges and slots is not updated in HP Storage Essentials.
Workaround	Run Get Details to obtain the latest data for cartridges and slots.

Linux Agentless: One of VLS system is getting discovered as both Linux agentless host and VLS

Problem	Linux Agentless: VLS Systems Are Sometimes Discovered as a Linux Agentless Host and VLS
Description	The management server sometimes displays two access points for a VLS device: one access point is for the device and the other access point is for the agentless host. This issue sometimes occurs when the host and provider credentials are same.

Linux Agentless: One of VLS system is getting discovered as both Linux agentless host and VLS, continued

Workaround	The individual access points can be identified by viewing the Type property on the Step 2 - Get Topology page or Step 3 - Get Details page. The Type property displays the host for the agentless access point. You must select the appropriate access point to determine if you want to discover the device as a host or as a device. You can also delete an unwanted access point by selecting it and then clicking the Delete icon.
------------	---

HP P6000 EVA Thin Provisioning: HP Storage Essentials does not report the correct values for Available Size and Used Size of a storage pool

Problem	The Available Size and Used size of the Storage Pool is not shown correctly in the management server even after the HP P6000 EVA Storage Abstraction Layer is refreshed.
Description	This is a known issue with CIMOM.
Workaround	Restart the CIMOM service.

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.

Capacity Manager: Wrong actual used or unused capacity for pools that have meta members configured in the same Meta volume(s)

Problem	If a meta volume is created of LUNs from different storage pools, then a few pools show larger used capacity and some pools show lower used capacity.
Description	metaLUN on CLARiiON or VNX block storage systems can be created from LUNs that belong to more than one storage pool. In HP Storage Essentials, LUN is represented from a single storage pool only. As a result, the Capacity Manager will show larger used capacity for this storage pool, and the other pools will show lower capacity. However, the aggregated used capacity for all storage pools is represented correctly.

Capacity Manager: Incorrect mapped and unmapped values for VNX pools that have LUNs mapped internally to the file server Celerra

Problem	The block storage capacity for a VNX storage system that is mapped to the file component is incorrectly reported as unmapped.
Description	For the current release, HP Storage Essentials supports only the block storage component of a VNX storage system. You cannot manage the file component of the VNX storage system. HP Storage Essentials uses the SMI-S provider for communication with the VNS storage system. The SMI-S provider does not provide LUN masking records for LUNs mapped internally to the file component. As a result, these LUNs appear as unmapped in the management server, and the mapped and unmapped capacity of the storage pools where these LUNs belong to is inaccurate.

VCS on HP-UX: SE shows the Drive Type as local for shared VxFS file systems on HP-UX

Problem	HP Storage Essentials shows the drive type as local for a shared VxFS file systems on HP-UX.
Description	The EVA Virtual Controller Software on a HP-UX cluster has shared VxFS file systems across the cluster nodes. During the discovery of these cluster nodes, HP Storage Essentials shows the drive type as local for the shared file systems. As a result, the host cluster topology and the application topology does not show the connected switch and storage array.

Windows 2008 R2 host discovered using CIME does not stitch to the underlying ESX server

Problem	If a virtual machine running Windows operating system does not return the IP address with VMTools installed, then during the VMHost discovery using CIME, the VMHost does not reconcile with the virtual machine.
Description	A VMware virtual machine running Windows operating system with VMTools installed might not return its IP address even when the VMHost is discovered using CIME. In such cases, the virtual machine and the VMHost do not reconcile, and therefore HP Storage Essentials represents the virtual machine and VMHost separately. The virtual machine stitches to the underlying ESX server, whereas no stitching happens for the VMHost.

AD/LDAP Authentication: LDAP Group Authentication Is Not Available on Linux HP Storage Essentials CMS

Problem	LDAP Groups support is not available on Linux management server
Description	Note the following AD/LDAP authentication available for the HP Storage Essentials CMS: Windows HP Storage Essentials CMS: <ul style="list-style-type: none"> • AD/LDAP support for Simple user, OU user, and Group user authentication is available. Linux HP Storage Essentials CMS: <ul style="list-style-type: none"> • AD support for Simple user, OU user, and Group user authentication is available. • LDAP support for Simple user and OU user authentication is available. • LDAP Group support is not available on LINUX HP Storage Essentials CMS.

VLS9000: Available cartridge size is not matching with the size shown in CV-VLS

Problem	VLS9000: Available Cartridge Size Is Not Matching with the Size Shown in CV-VLS
Description	The available capacity of the cartridge show in HP Storage Essentials for the VLS9000 does not match the cartridge capacity reported by the Command View Virtual Library System.

Windows Agentless: IPv6 agentless GAED takes more than double the time when compared with IPv4 agent-less discovery of the same set of hosts

Problem	The agentless discovery process for a Windows IPv6 host might take more time as compared to the discovery of a Windows IPv4 host.
Description	The Discovery Setup 'Step 1' and 'Step 3' page for agentless discovery of a Windows IPv6 host takes more time as compared to the discovery of a Windows IPv4 host.

Virtual application issues on clusters and cluster nodes

Problem	Virtual applications on cluster hosts are not supported.
Description	HP Storage Essentials does not support virtual applications on cluster hosts. System Manager sometimes displays missed stitching between VM Windows hosts and P4000 arrays.

Capacity Dashboard: Capacity Values are double counted for the Non global zones created on the solaris container

Problem	Capacity Values are Double Counted for the Non-Global Zones Capacity Dashboard.
Description	Capacity Values are counted twice for the non-global zones created on the Solaris container in the Capacity Dashboard.

HP P6000 EVA: On reducing the used capacity of a thin provisioned disk, the Actual Mapped value on the Post Raid Allocation page does not change

Problem	When you reduce the used capacity for a thin provisioned VDisk, the Actual Mapped value on the Post Raid Allocation page is not updated. This problem occurs because the Command View EVA does not reflect the changes in the Allocated value for the VDisk.
Description	This is a known limitation with the HP Command View EVA.

Host Security Group (HSG) creation fails with 'Invalid Logical UNIT ID' error message

Problem	HSG creation fails with IBM DS Storage System CIM Agent version 5.6.
Description	You cannot create HSG with IBM DS Storage System CIM Agent version 5.6. The following error message appears when you create a HSG: <code>Invalid Logical Unit ID</code>

Capacity Dashboard: Virtual applications are not considered in Capacity Dashboard

Problem	Virtual applications are not displayed in the Capacity Dashboard
Description	Information about virtual applications is not provided in the Capacity Dashboard.

Save and Restore Does Not Work on Host Cluster Instances

Problem	Save and restore does not work with host cluster instances for historical capacity of volumes.
Description	After a cluster instance is deleted and restored, the capacity statistics are restored in <code>host_logical_disks_stats</code> and in the corresponding roll-up tables for these cluster instances, but they do not appear in Capacity Manager. The restored entries still point to the old volume IDs (IDs of the volumes prior to the deletion). The entries do not point to the new volume ID which gets created after the cluster is re-discovered.

HP Storage Essentials does not support backup collection if Encrypted Control Communication (ECC) mode is enabled on Data Protector 6.2 or above

Problem	Backup collection fails if ECC mode is enabled on Data Protector Cell Manager.
Description	HP Storage Essentials does not communicate with Data Protector Cell Manager in encrypted mode. As a result, the backup collection fails, irrespective of the discovery type you use.

Documentation Updates

The first page of this document identifies the:

- Version number for the software.
- Software release date.

To check for recent updates or to verify that you are using the most recent edition, visit the [HP Software Product Manuals](#) web site.

To retrieve a document, select the:

1. **Product** name.
2. **Version** list.
3. **Operating System**.
4. Preferred **Language**.
5. Document title.
6. Click **Open** or **Download**.

You must have Adobe® Reader installed to view files in PDF format (*.pdf). To download Adobe Reader, go to the [Adobe](#) web site.

We appreciate your feedback!

If an email client is configured on this system, by default an email window opens when you click [here](#).

If no email client is available, copy the information below to a new message in a web mail client, and then send this message to se.help.feedback@hp.com.

Product name and version: HP Storage Essentials, 9.6.0

Document title: Release Notes

Feedback:

