

HP Storage Essentials Standard Edition SRM Software white paper

Coexisting on the same-server with other software applications and providers



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Introduction

Purpose

This white paper describes how HP Storage Essentials Standard Edition SRM Software, HP Systems Insight Manager, and the Brocade SMI-S provider can be installed onto the same central management server (CMS). This same-server solution is available for customers where it is too cost-prohibitive for them to procure a dedicated management server for every software application or provider that they need in their environment. This white paper describes the steps needed to carry out this option and specifies the minimum software and OS platform versions that are supported.

Limitations and considerations

This procedure does have some limitations and considerations that should be understood before proceeding further with the configuration of this same-server solution. The following list is a summary of these limitations and considerations:

- The only version of HP Storage Essentials that is supported is Standard Edition SRM Software. Supporting this solution with HP Storage Essentials Enterprise Edition Suite Software may ultimately require the use of multiple CMSes and/or the reconfiguration of one or more software applications and providers.
- Ongoing efforts will be made to qualify additional software applications and providers to layer on a single CMS. This white paper will be updated accordingly to communicate any extensions to the supported software application and provider stack.
- The software applications and providers must be installed in the order indicated in this white paper. Any deviations may result in problems with the operation of the software applications and providers installed on the CMS.

Implementing the same-server solution on a “clean” system

This section describes how to install HP Storage Essentials Standard Edition SRM Software, HP Systems Insight Manager, and the Brocade SMI-S provider on the same “clean” CMS. Be sure to, first, remove any and all device management software, SMI-S providers, and so on that exist on this system before proceeding any further. The minimum supported software and OS platform versions are listed in the Software Version Support Matrix at the end of this white paper.

Overview

The high-level approach for installing the software applications on this “clean” CMS is as follows:

1. Install the HP Standard Edition SRM Software solution
2. Install the Brocade SMI-S provider

Important

The software applications and providers **must** be installed in the order indicated. Any deviations may result in problems with the operation of the software applications and providers installed on the CMS.

Install the HP Standard Edition SRM Software solution

The installation of the HP Standard Edition SRM Software solution can be broken down into the following **high-level** sub-tasks:

1. Prepare the CMS for installation of the HP Standard Edition SRM Software solution
2. Install the Oracle® Standard Edition 9i (v9.2.0.6) database
3. Install the HP Storage Essentials Standard Edition SRM Software management server
4. Install HP Systems Insight Manager
5. Install the HP SIM Connector

Perform this installation as documented in the HP Storage Essentials 5.1 Installation Guide for Enterprise and Standard Edition SRM Software under the “Installing the Management Server on Microsoft Windows” chapter.

Install the Brocade SMI-S provider

Install the Brocade SMI-S provider using the wizard or in silent mode as documented in the Brocade SMI Agent Installation Guide under the “Installing the SMI Agent” chapter.

If the WMI Mapper was installed as part of the installation of HP Systems Insight Manager¹, then the WMI Mapper will use port 5989 for secure CIMOM communication. The sub-sections that follow describe what must be done to get the Brocade SMI-S provider working correctly in this particular scenario.

Using the installation wizard

The installation wizard will prompt for a new HTTPS port to be entered. If this new port is not in use, then the Brocade SMI-S provider will use it for secure CIMOM communication, and installation of the provider will continue.

Installing in silent mode

During the creation of the SilentInstallation.properties file, be sure to specify a new port for the CIMOM_HTTPS_PORT parameter. If this new port is in use, then an error message about the configured HTTPS port being in use (StatusCode=-5) will be displayed in the installation log file. Otherwise, and assuming no other installation failures have occurred, the Brocade SMI-S provider should get installed successfully and use the specified port for secure CIMOM configuration.

Implementing the same-server solution on a system that already contains the Brocade SMI-S provider

This section describes how to implement the same-server solution when the Brocade SMI-S provider is already installed on the CMS.

Overview

In this scenario, the CMS contains the Brocade SMI-S provider and is using port 5989 for secure CIMOM communication, assuming that no other software applications or providers are installed and using this particular port. Because of the complexity involved with configuring a new HTTPS port for the WMI Mapper, it is strongly recommended that one of the following options be implemented before proceeding any further.

¹ The WMI Mapper is installed by default during a typical installation. During a custom installation, the WMI Mapper is an optional component.

Option #1: Uninstall the Brocade SMI-S provider

First, stop the Brocade SMI Agent (J WBEM Server) service and uninstall the Brocade SMI-S provider as documented in the Brocade SMI Agent Installation Guide under the “Uninstalling the Brocade SMI Agent” chapter. Then, install HP Storage Essentials Standard Edition SRM Software, HP Systems Insight Manager, and the Brocade SMI-S provider as described in the previous section of this white paper.

Option #2: Install the WMI Mapper on a separate Windows server

Install HP Storage Essentials Standard Edition SRM Software and HP Systems Insight Manager on the CMS that contains the Brocade SMI-S provider, and install the WMI Mapper on another Windows system in the network.

In the HP Systems Insight Manager installation wizard, be sure to select the “Custom Install” option and deselect the WMI Mapper, so that it **does not** get installed on the CMS. After launching HP Systems Insight Manager for the first time, provide the proxy information for the Windows system that the WMI Mapper is installed onto by following the instructions under the “Adding a WMI Mapper Proxy” in the HP Systems Insight Manager 5.1 User Guide.

Option #3: Do not install the WMI Mapper

Install HP Storage Essentials Standard Edition SRM Software and HP Systems Insight Manager on the CMS that contains the Brocade SMI-S provider, but choose **not** to install the WMI Mapper on either the CMS or on any other Windows system in the network.

While the WMI Mapper is not required, it enables HP Systems Insight Manager to discover and identify Windows systems using the WBEM/WMI protocol, which collects more information about them than what can be obtained from just the SNMP protocol alone. This option is **not recommended** for customers who extensively use HP Systems Insight Manager to monitor and manage their servers as specific data about their Windows servers will either be incomplete or missing altogether.

Software Version Support Matrix

For the most current information on supported software versions and OS platforms, see the Storage Essentials Standard Edition Support Matrix that is provided with the HP Storage Essentials Standard Edition software. The following table specifies the **minimum** supported software versions and OS platforms.

Software	Version	Operating System
HP Storage Essentials Standard Edition SRM Software	5.1.0	Microsoft® Windows® Server 2003, SP1 ² Windows Storage Server 2003 R2 ³
HP Systems Insight Manager	5.1	
Brocade SMI-S provider	110.5.0a	

² 32-bit Enterprise or Datacenter Edition on an x86/x64 platform

³ 32-bit Enterprise or Server Edition on an x86/x64 platform

For more information

- For more information on HP Storage Essentials, visit:
www.hp.com/go/storageessentials
- For more information on HP Storage Essentials Standard Edition SRM Software, visit:
<http://h18006.www1.hp.com/products/storage/software/std-suite/index.html>
- For more information on HP Systems Insight Manager, visit:
www.hp.com/go/hpsim
- For more information on the Brocade SMI-S provider, visit:
ftp://ftp.compaq.com/pub/products/storageworks/smisproviders/brocade_provider.pdf
- For more information on SMI-S provider troubleshooting, visit:
ftp://ftp.compaq.com/pub/products/storageworks/smisproviders/smis_troubleshooting.pdf

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4AA1-2845ENW, June 2007

