



## **DataKeeper for Windows**

**v7.2**

**Release Notes**

**January 2012**

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# DataKeeper for Windows Version 7.2 Release Notes

## Version 7.2

### *Important!!*

***Read This Document Before Attempting To Install Or Use This Product!***  
***This document contains last minute information that must be considered before, during and after installation.***

## Introduction

SteelEye DataKeeper for Windows is a host-based, block-level volume replication software solution that allows any data to be replicated across a WAN or LAN. Various configuration options are supported, such as one-to-one, many-to-one or one-to-many replication targets.

## New Features of SteelEye DataKeeper for Windows v7

Feature	Description
<b>New in This Release (DataKeeper Version 7 Update 2)</b>	
Microsoft Data Protection Manager support	DataKeeper 7.2 supports Microsoft Data Protection Manager 2010 on Windows Server Failover Clustering 2008.
Microsoft System Center Virtual Machine Manager support	DataKeeper 7.2 supports Microsoft System Center Virtual Machine Manager.
Automatic creation of a DataKeeper Volume Resource in WSFC	DataKeeper 7.2 allows resource to be automatically assigned to WSFC Available Storage during mirror creation.
New EMCMD: CHANGEMIRRORENDPOINTS	DataKeeper 7.2 added this command to simplify moving a DataKeeper protected volume to another network location.
DataKeeper Online Help Enhancements	“Extending a Traditional 2-Node WSFC Cluster to a Third Node via DataKeeper” added in the DataKeeper 7.2 Online Help.
LifeKeeper 7.2 compatibility	DataKeeper 7.2 is compatible with LifeKeeper 7.2.
Subscription-based licensing support	DataKeeper 7.2 supports subscription-based, time-limited licensing with an automatic license renewal option.
File Server Resource Manager support	DataKeeper 7.2 and later supports Disk Quota and File Screening functionality using File Server Resource Manager on Windows Server 2008 R2.
<b>New in DataKeeper Version 7 Update 1 Maintenance 2</b>	
2+ Node Support in an MSCS/WSFC cluster	Beginning with Cluster Edition 7.1.2, DataKeeper supports more than two nodes in an MSCS/WSFC cluster.
Mixed shared storage/replicated storage cluster support	Beginning with Cluster Edition 7.1.2, DataKeeper supports mixed shared storage/replicated storage clusters.
<b>New in DataKeeper Version 7 Update 1 Maintenance 1</b>	
Microsoft System Center Virtual Machine Manager 2008 R2* support	DataKeeper v7.1.1 and later supports Microsoft System Center Virtual Machine Manager 2008 R2**  <b>Note:</b> Microsoft System Center Virtual Machine Manager 2008 is not compatible with SteelEye DataKeeper Cluster Edition v7.1.2 (see Known Issues for further information)
<b>New in DataKeeper Version 7 Update 1</b>	
One-to-many replication configurations	DataKeeper 7.1 and later supports one-to-many replication configurations.
<b>New in DataKeeper Version 7</b>	

Feature	Description
Windows 2008 R2 support	DataKeeper Version 7 supports Windows 2008 R2.
Windows Server 2003 MSCS support	DataKeeper Version 7 supports Windows Server 2003 MSCS for multi-site clusters.
File Share Resources type support	DataKeeper Version 7 supports File Share Resources type in WSFC.
Integration with SteelEye LifeKeeper v7	DataKeeper Version 7 is now integrated with LifeKeeper v7
Localized for Japan	DataKeeper Version 7 is now localized for Japan

## Product Definitions and Platforms

### Product Requirements

**Important:** SIOS Technology Corp. recommends that users use Domain accounts that have local admin privileges on all servers running DataKeeper. If local accounts are being used, the usernames and passwords must match on all servers running DataKeeper. This recommendation is for all editions and all platforms.

Product	Operating Systems	Additional Software
DataKeeper (Server Components)	Microsoft Windows: <ul style="list-style-type: none"> <li>• Server 2003 R1 and R2</li> <li>• Server 2008 R1 and R2</li> </ul>	n/a
DataKeeper (User Interface)	Microsoft Windows: <ul style="list-style-type: none"> <li>• Server 2003 R1 and R2</li> <li>• Server 2008 R1 and R2</li> <li>• Vista</li> <li>• XP</li> <li>• Windows 7</li> </ul>	Microsoft .Net Framework 3.5 SP1 MMC 3.0 (download from: <a href="http://support.microsoft.com/kb/907265">http://support.microsoft.com/kb/907265</a>
32- and 64-bit versions (x86 and x64, no Itanium) of all of the listed OS platforms are supported		

## Requirements for Windows 2008 (DataKeeper and DataKeeper Cluster Edition)

While installing SteelEye DataKeeper on Windows 2008, you will be prompted with a dialog box that asks you whether the installer should make the system configuration changes described below. If you do not allow the installer to make these changes, you will need to make them manually after installation is complete.

- Windows Firewall (see SteelEye DataKeeper Planning and Install Guide for additional information)
- The Distributed Link Tracking Client must be disabled

In addition, if your Windows 2008 servers are not in a domain, you must enable the Local Security policy setting "Network Access: Let Everyone permissions apply to anonymous users." If the servers are in a domain, then this setting is not required.

## SteelEye DataKeeper Cluster Edition Overview

SteelEye DataKeeper Cluster Edition is a highly optimized host-based replication solution which integrates seamlessly with Windows Server 2008/2008 R2 Failover Clustering as well as Windows Server 2003 Cluster Service. Features of Windows Server 2008/2008 R2 Failover Clustering such as cross-subnet failover and tunable heartbeat parameters make it easier for administrators to deploy geographically dispersed clusters. SteelEye DataKeeper provides the data replication mechanism which extends both versions of Windows Clustering, allowing administrators to take advantage of these advanced features to support non-shared disk high availability configurations.

Once SteelEye DataKeeper Cluster Edition is installed, a new storage class resource type called DataKeeper Volume is available. This new SteelEye DataKeeper Volume resource can be used in place of the traditional Physical Disk shared storage resource to enable geographically dispersed clusters, also known as multi-site clusters.

## Product Requirements

Product	Operating Systems	Additional Software
DataKeeper Cluster Edition (DKCE)	Microsoft Windows: Server 2008 Enterprise Edition or DataCenter Edition 32- or 64-bit version, SP1 and SP2 Server 2008 R2 Enterprise Edition or DataCenter Edition 64-bit version	Hotfix – KB 951308 <a href="http://support.microsoft.com/kb/951308">http://support.microsoft.com/kb/951308</a> If protecting Hyper-V resources, Hotfix KB 958065 <a href="http://support.microsoft.com/?id=958065">http://support.microsoft.com/?id=958065</a> <b>Note:</b> These hotfixes are not required for Windows Server 2008 SP2 and Windows Server 2008 R2.
	Microsoft Windows: Server 2003 Enterprise Edition; 32- or 64-bit version	N/A



Make sure you verify the following settings prior to installing and configuring SteelEye DataKeeper Cluster Edition.

- **Important:** SIOS Technology Corp. recommends that users use Domain accounts that have local Admin privileges on all servers running DataKeeper. If you are using Local accounts, the username and passwords must match on all servers running DataKeeper. This recommendation is for all editions and all platforms.
- If using SteelEye DataKeeper Cluster Edition, the Windows Failover Cluster environment must be installed and configured prior to installing the SteelEye DataKeeper Cluster Edition software up to the point of creating your first cluster resource. Follow Microsoft best practices for deploying geographically dispersed clusters, including changing the quorum mode majority node set with a file share witness.

**Important:** If you fail to configure the basic Windows cluster before installing DataKeeper Cluster Edition, you will have to do a repair installation of DataKeeper Cluster Edition before you are able to create a DataKeeper cluster resource.

Known Issues

## Known Issues

**Issue:** When evaluating SteelEye DataKeeper v7.2, an error may occur if a new evaluation license key is not used. Evaluation licenses prior to January 1, 2011 will not work on this release.

**Recommended Action:** A new evaluation license key must be obtained. Restart the License Key Manager and enter the new, properly formatted license key.

**Issue:** In a Hyper-V host cluster, if a change is attempted to a setting of a virtual machine, such as adding a new NIC or setting a VLAN ID, an error will be received.

**Recommended Action:** In order to make such changes, remove the virtual machine from the failover cluster, provision a new virtual machine using Hyper-V Manager (not Failover Cluster Manager) based on the existing VHD file, make the desired changes, then add the virtual machine back into the cluster.

**Issue:** In Windows Failover Clustering, an MS DTC Resource fails to come online if configured with a DataKeeper volume resource.

Log Name: System

Source: Microsoft-Windows-FailoverClustering

Date: <Date Time>

Event ID: 1146

Task Category: Resource Control Manager

Description: The cluster resource host subsystem (RHS) stopped unexpectedly. An attempt will be made to restart it. This is usually due to a problem in a resource DLL. Please determine which resource DLL is causing the issue and report the problem to the resource vendor.

**Recommended Action:** Download and install the Microsoft Hotfix described in the following KB article: <http://support.microsoft.com/kb/978476>. This will allow the MS DTC resource to operate properly with a DataKeeper volume resource.

**Issue:** When File Server Resource Manager features such as Quota Management and File Screening are enabled on a DataKeeper mirrored volume, there are occasions when DataKeeper volume locking might fail. This occurs if the volume that is being locked contains open handles. When these features are used in a standalone configuration, with Windows Clustering or with SteelEye LifeKeeper, DataKeeper can be prevented from switching a mirror to another system.

**Recommended Action:** If switchover fails due to DataKeeper's inability to lock the volume, terminate any processes with open handles and retry the switchover operation.

**Issue:** Please note the following caveats associated with DataKeeper Cluster Edition support for Windows Server 2008 R2 SP1:

Mixed shared/replicated storage clusters using DataKeeper Cluster Edition are not supported on Windows Server 2008 R2 systems running the recently released SP1 for Windows Server 2008 R2. The unsupported cluster configurations included two or more nodes connected to shared storage replicating to one or more nodes.

**Recommended Action:** This issue is related to new features in SP1 that are supposed to make supporting multisite clusters easier. Multisite cluster solutions typically implement "custom" storage resource types (such as the DataKeeper Volume resource) in lieu of Physical Disk resources. However, SP1's new implementation of evaluating shared storage can cause conflicts with existing DataKeeper Volume resources. As such, we are recommending that DataKeeper Cluster Edition customers who are using a mix of shared and replicated storage NOT upgrade to Windows Server 2008 R2 SP1 at this time.

With SP1, we currently support cluster configurations that use only replicated disks, and we are working with Microsoft to provide a solution for DataKeeper Cluster Edition customers who want to run Windows Server 2008 R2 SP1 in a mixed shared/replicated storage environment.

**Issue:** When using WSFC 2008 R2 SP1, the procedure for Extending a Traditional 1x1 2-Node WSFC Cluster to a Shared-Replicated 3-Node Cluster has changed. The WSFC mmc GUI must not be used for adding a node that is hosting a DataKeeper shared volume.

**Recommended Action:** When using WSFC 2008 R2 SP1, additional nodes with shared DataKeeper volumes can be safely added to an existing cluster only with the WSFC Command line tool "cluster /add /node:<standby node name>". This is very important. Please refer to the topic *Extending a Traditional 2-Node Cluster to a Shared-Replicated Configuration* for more details.