



hp Storageworks Application Recovery Manager Zero Downtime Backup & Instant Recovery Support Matrix

Version: 1.1

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AppRM is a tool to manage replication technologies using the VSS framework or direct array control. The main purpose of replication in the product is backup and recovery. It integrates with any backup application in which it would automate the replication control and let the backup application control the tape action. It is based on Data Protector Functionality thus the functionality of both products will be kept in sync with potential small delays. The objective is to provide Zero Downtime Backup & Instant Recovery for different Storage arrays and Backup Applications based on Microsoft VSS framework.

From the operating system level Windows 2003 (32-bit, Itanium and x64) is supported for the backup and the application host. The Windows 2003 version must either be Itanium on both or IA-32 on both or x64 (64-bit) on both.

This will be extended to other platforms in the future versions. Following are the details of platform support:

Server & Client Platform support		
Platform	Cell Manager	Client
Windows 2003 32-bit	Supported	Supported
Windows 2003 64-bit (Itanium)	Not Supported	Supported
Windows 2003 64bit (X64)	Supported	Supported

Only the EVA providers have been tested with AppRM and are supported by AppRM.

Apart from the Hardware providers, AppRM also has a dependency on the Command View and Firmware versions of the EVA array.

Following is a list of Command View, Firmware and EVA provider versions supported with AppRM:

Supported Firmware & Provider versions			
CV/VCS/XCS	VSS/VDS Provider		SMI-S Provider
	4.01.10	4.01.27	
CV4.x/VCS4.0.x	Supported	Supported	4.0.x/4.1.x
CV4.x/XCS5.0.x	Supported	Supported	4.0.x/4.1.x
CV5.0.3/VCS4.0.x	Supported	Supported	5.0.1
CV5.0.3/XCS5.1.x	Supported	Supported	5.0.1

supported agent functionalities		
Agent Functionality	Zero Downtime Backup	Instant Recovery
Snapclone	Supported	Supported

Transportable snapshots are supported only with MS Windows Server 2003 Enterprise and Data Center Edition. The VSS/VDS Hardware Provider must be installed and configured on Application and Backup Server.

Instant recovery can only be performed if a supported VDS Hardware Provider is installed and configured on Application Server (for local backup) and on the Backup Server as well (for transportable backup) .

Terminology:

Single Host BC corresponds to Local Backups

Dual Host BC corresponds to Transportable Backups

supported configurations		
integrations on Windows 2003 (32-bit)	single-host BC	dual-host BC
Raw disk	ZDB with IR	ZDB with IR
NTFS file system	ZDB with IR	ZDB with IR
Microsoft Exchange2003 ⁶	Not Supported	ZDB with IR
Microsoft SQL2000	Not Supported	ZDB with IR
Microsoft SQL2005	Not Supported	ZDB with IR

supported configurations		
integrations on Windows 2003 (64-bit)	single-host BC	dual-host BC
Raw disk	ZDB with IR	ZDB with IR
NTFS file system	ZDB with IR	ZDB with IR
Microsoft SQL2000	Not Supported	ZDB with IR
Microsoft SQL2005	Not Supported	ZDB with IR

Disk Manager is the Volume Management product that is supported. Dynamic Disks are not supported. Only MBR disks are supported.

Supported Backup Topologies

The HP StorageWorks Enterprise Virtual Array integration can be used in different backup topology scenarios, without any user interference or special configuration:

- One application system, one disk array, one backup system
- One application system, multiple disk arrays, one backup system
- Multiple application systems, one or multiple disk arrays, one backup system
- Single system (filesystem, disk image and Oracle backup only)

The supported high-availability configurations are:

1. Clustered Application hosts, stand-alone backup host.
2. Clustered Application hosts and clustered backup hosts
3. Stand-alone Application hosts and clustered backup hosts