

Hitachi Data Instance Director (HDID) Support Matrix: Microsoft® SQL Server®

Introduction: Agent-based and Agentless protection

HDID can provide consistent protection either with or without the use of a host agent.

- Agent based protection performs the application interaction required to provide application aware consistency.
- Agentless protection protects the application data on disk and therefore provides crash consistency. It can also call pre-execution scripts and post-execution scripts as part of a policy to enable the use of user scripts to ensure application aware consistency.

This support matrix describes the environments supported by either method of protection.

Supported Application Versions

- SQL Server 2008
- SQL Server 2012
- SQL Server 2014
- SQL Server 2016 ⁽¹⁾

Agent Based Protection













Agent based protection provides application consistent protection support with the following operating systems and configurations.

Operating System		File system	Support Protection Types		
			Host Based	Storage Based	
			Repository	Hitachi VSP Family	Hitachi NAS Platform
Microsoft Windows	Server 2008 (64-bit) Server 2008 R2 (64-bit)	NTFS ReFS	✓	✓	✗
	Server 2012 (64-bit) Server 2012 R2 (64-bit)				
	Server 2016 (64-bit) ⁽²⁾				

Application Configurations	Host Based Backup		Hitachi VSP Family ⁽²⁾			Hitachi NAS Platform	
	Batch	Realtime/CDP	Snapshot (TI)	Live Replicate (SI /TC / UR ⁽⁴⁾ / global-active device)	Batch Replicate (TI / SI)	Directory Clone	File Replication
Standalone	✓	✓	✓	✓	✓	✗	✗
Active-Passive MS Fail-over Cluster	✓	✗	✓	✓	✓	✗	✗
AAG	✓	✗	✓	✗	✓	✗	✗

Agentless Support

Agentless protection provides crash consistent protection for any operating system version and configuration as follows (subject to operating system and application vendor support):

Configurations	Host Based Backup		Hitachi VSP Family ⁽³⁾⁽⁵⁾		Hitachi NAS Platform	
	Batch	Realtime/CDP	Snapshot (TI)	Replicate (TI / SI / TC / UR / global-active device)	Directory Clone	File Replication
"LDEV based"						
VMware						

(1) SQL 2016 is supported only with configurations compatible with SQL 2014. There is a known bug with the Microsoft SQL 2016 distribution. A dll is missing from the 64bit Assemblies folder. The following workaround has been approved by Microsoft:

COPY: "Microsoft.SqlServer.ConnectionInfo.dll"

FROM: "Program Files (x86)\Microsoft SQL Server\ 130 \SDK\Assemblies"

TO: "Program Files\Microsoft SQL Server\ 130 \SDK\Assemblies"

(2) Windows 2016 is supported only with features compatible with Windows 2012

(3) In virtual environments, the volumes must be VMWare physical Raw Device Mapping (pRDM) or for Hyper-V® N_Port ID virtualization (NPIV).

(4) Application consistent remote SI / TI are not supported in conjunction with UR

(5) A VMware proxy node must be configured on the master to support mounting to VMware Virtual machines

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