

# Hitachi Ops Center Protector v7.1

## Support Matrix: Supported Protection Types

### Introduction: Agent-Based and Agentless Protection

Protector 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 ensures the application data is protected on disk and therefore provides crash consistency. Pre-execution script- and post-execution scripts can be called as part of a policy to enable application aware consistency.

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

# Agent-Based Protection

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

Operating System <sup>(1)</sup>		Supported Protection Types		
		Host Based	Storage Based	
		Gen 1 Repository	Gen 2 Repository, Gen 2 HCP, Amazon S3	Hitachi Block
Microsoft Windows	Windows Server 2012 (64-bit) Windows Server 2012 R2 (64-bit) Windows Server 2016 (64-bit) <sup>(2)</sup> Windows Server 2019 <sup>(2)</sup>	✓ (NTFS, ReFS)	✓ (NTFS, ReFS)	✓ (NTFS, ReFS)
Microsoft Windows (Desktop)	Windows 8 and 8.1 Windows 10	✓ (NTFS)	✓ (NTFS)	✗
Linux <sup>(3)(4)(5)</sup>	RHEL 6 x64 (6.3 and newer) RHEL 7 x64 (7.0 and newer) RHEL 8 x64 (8.0 and 8.1 Only) OEL 6 x64 (6.3 and newer) OEL 7 x64 (7.0 and newer) OEL 8 x64 (8.0 and 8.1 Only) SUSE 11 x64 (11.3 and newer) SUSE 12 x64 (12.0 and newer) SUSE 15 x64(15.0 SP1 Only)	✓ (EXT3, EXT4, LVM, NFS, XFS,ASM)	✓ (EXT3, EXT4, LVM, NFS, XFS,ASM))	✓ (EXT3, EXT4,LVM,ASM)




NFS = network file system, EXT3 = third extended file system, EXT4 = fourth extended file system, LVM = logical volume manager, NFS = network file system, ZFS = zettabyte file system or z file system, HNAS = Hitachi NAS Platform, ASM = Automated Storage Management

Operating Systems <sup>(1)</sup>	Host-Based Backup	Hitachi Block Hardware <sup>(6)(7)</sup>		
	Batch Backup	Snapshot (TI)	Live Replicate (SI,TC, UR <sup>(8)</sup> · GAD)	Batch Replicate (TI, SI)
Microsoft Windows (Server)	✓	✓	✓	✓
Microsoft Windows (Desktop)	✓	✗	✗	✗
Linux(5)	✓	✓	✓	✓

TI = Hitachi Thin Image, SI = Hitachi ShadowImage, UR = Hitachi Universal Replicator, GAD = global-active device

# Agentless Protection

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

Application Configurations	Host-Based Backup		Hitachi Block Hardware	
	Batch	Snapshot (TI)	Replicate (SI, TC, UR, GAD)	
"LDEV Based"				
VMware	Not Applicable			

TI = Hitachi Thin Image, SI = Hitachi ShadowImage, UR = Hitachi Universal Replicator, GAD = global-active device

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- (1) Note: Support only where standard vendor support is available
  - (2) Supported only with features compatible with Windows 2012.
  - (3) It is recommended that Linux source nodes have a logical volume manager (LVM) on each volume group that is to be backed up. A minimum of 10GB of free space is required in the "unused" portion of the LVM, which is in addition to the required space for the allocated storage area. For example, if 100GB of usable storage is required, then the total disk size will be 110GB (100GB of usable storage and 10GB of unused storage).
  - (4) ACLs or extended attributes are not protected; if they are present on data that is backed up, then they will not be restored.
  - (5) Linux support for Intel x86 platforms only
  - (6) In virtual environments, the volumes must be VMware physical raw device mapping (pRDM) or Microsoft Hyper-V pass-through disks.
  - (7) A VMware proxy node must be configured on the master to support mounting to VMware Virtual machines.
  - (8) Operating-system-consistent remote SI/TI are not supported in conjunction with Hitachi Universal Replicator.

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