

Hitachi Ops Center Protector v7.7

Support Matrix: Storage Devices

The following matrices apply to both physical servers and to virtual machines with physical raw device mapping (for VMware) or pass-through disks (for Microsoft® Hyper-V®). Application consistent protection is provided through the use of an Protector agent installed on the application server for the following applications:

- [Oracle](#)
- [Supported Protection Types](#)

Crash consistent protection can be achieved without the use of an agent and can be applied to any application and OS supported by the storage device, i.e. Protector orchestrated crash consistent protection is not limited to the list above.

Storage Device Support

The following devices and CCI/Firmware versions are supported as the minimum versions for use with Protector. However not all features supported by Protector are necessarily supported by the below combinations. Please refer to the specific arrays support matrices to determine support.

Ops Center Protector supports ⁽¹⁾⁽²⁾:

- Hitachi VSP E Series with microcode versions:
 - 93-03-2x
 - 93-04-02
- Hitachi VSP 5100, 5500, 5100H, 5500H models with microcode versions:
 - 90-04-07-x
 - 90-05-02-x
- Hitachi VSP F350, F370, F700, F900 and VSP G130 (select APAC markets), G350, G370, G700, G900 models with microcode version:
 - 88-07-02-x
- Hitachi VSP G200, G400, G600, G800 and VSP F400, F600, F800 models with microcode versions:
 - 83-05-39-x
 - 83-06-11-x
- Hitachi VSP G1000, G1500, F1500 models with microcode version:
 - 80-06-83-x
- Hitachi VSP N400, N600, N800 models with microcode version:
 - 83-06-11-x

Technology Support

The following technologies and configurations are supported by Protector however not all arrays and CCI/Firmware versions support all of the following. Please refer to the specific arrays support matrices to determine support.

Technology	Configurations	Adoptable
Thin Image Snapshot	Fully provisioned Floating Hybrid Pools Snap-on-Snap (cascade, mount only)	No
Thin Image Replication	Fully provisioned Hybrid Pools	No
ShadowImage	Up to 3 L1 clones Up to 6 L2 clones (up to 2 per L1 clone)	Yes
TrueCopy	2DC 3DC 3DC Delta Resync	Yes

Universal Replicator	2DC 3DC	Yes
Global Active Device	2DC 3DC (requires Delta Resync)	Yes

Cascade Support on Dataflow

An operation of type....	May cascade directly into an operation of type.....
Global-Active Device (Continuous only)	Continuous/Batch ShadowImage Failover Universal Replicator Batch/Snapshot Thin Image
ShadowImage	Batch ShadowImage (only if upstream is L1) Batch TrueCopy Batch Universal Replicator Batch/Snapshot Thin Image
Thin Image	None (Snap on Snap available for mount/restore only)
TrueCopy	Continuous ShadowImage (only if upstream is Continuous) Continuous/Failover Universal Replicator (only if upstream is Continuous) Batch ShadowImage Batch Universal Replicator Batch/Snapshot Thin Image
Universal Replicator	Continuous ShadowImage (only if upstream is Continuous) Batch ShadowImage Batch TrueCopy (only if upstream is Batch) Batch/Snapshot Thin Image

Cascading from Failover Universal Replicator is technically possible, but achieves nothing without the corresponding Continuous Universal Replicator, which (together with the TrueCopy or Global-Active Device link between their sources) form the complete 3DC with Delta Resync dataflow.

- (1) Note: Support only where standard vendor support is available
- (2) Known maximum versions will be added when a breaking change is discovered

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