

# Hitachi Data Instance Director (HDID)

## 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 HDID agent installed on the application server for the following applications:

- [Microsoft Exchange](#)
- [Microsoft SQL® Server](#)
- [Oracle](#)
- [SAP](#)
- [File System](#)

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., HDID orchestrated crash-consistent protection is not limited to the list above.

# Storage Device Support

Storage Device	CCI Version		Firmware Version	
	Minimum Version	Known Maximum Version <sup>(1)</sup>	Minimum Version	Known Maximum Version <sup>(1)</sup>
Hitachi Unified Storage VM	As per array spec.		As per array spec.	
Hitachi Virtual Storage Platform (VSP)	As per array spec.		As per array spec.	
VSP G1X00 and VSP F1500	01-41-03/03		83-03-30-00	
VSP Gx00 and VSP Fx00	01-41-03/03		83-03-30-00	
VSP G/F350, G/F370, G/F700, G/F900	As per array spec.		As per array spec.	
Hitachi NAS Platform (HNAS) <sup>(2)</sup> <ul style="list-style-type: none"> <li>• HNAS 3xxx</li> <li>• HNAS 4xxx</li> </ul> VSP G Unified NAS	N/A		12.2.3753.12	

## 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) Known maximum versions will be added when a break change is discovered
- (2) HNAS Multi-tenancy functionality is not supported

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