

Deduplicating disk libraries

Vendor/Product name	Deduplication architecture	Deduplication process	Deduplication licensing		Asynch replication	Host interfaces	
						VTL	NAS
Copan Systems Single Instance Repository	Postprocess	Hash-based using SHA-1 with MD5 as secondary option. Compresses data postdedupe.	Capacity	Optional	Optional	✓	
Data Domain Inc. DDX Array	Inline	Hash-based using stream-informed segment layout (SISL). Compresses data postdedupe.	Per controller	Included	Optional	✓	✓
Diligent Technologies Corp. ProtectTier Data Protection Platform	Inline	Computational compare using HyperFactor. Compresses data postdedupe.	Capacity	Included	Included	✓	
ExaGrid Systems Inc. ExaGrid	Postprocess	Compresses daily backups prededupe. Dedupes backups only after next day's backups complete.	Capacity	Included	Included		✓
FalconStor Software Inc. VirtualTape Library	Postprocess	Hash-based using SHA-1 with MD5 as secondary option. Compresses data postdedupe.	Per node	Optional	Optional	✓	
NEC Corp. of America Hydrastor	Inline	Examines and dedupes variable-length data chunks using DataRedux. Compresses data postdedupe.	Per node	Included	Optional		✓
Network Appliance, Inc. NearStor	Postprocess and inline	Hash-based with byte-level compare.	Per system	Optional	Optional		✓
Quantum Corp. DXi-Series (DXi3500/DXi5500)	Parallel	Starts to dedupe data after data is on disk but before backup is finished. Compresses data postdedupe.	Capacity	Included	Optional	✓	✓
Sepaton Inc. S2100-ES2	Postprocess	Compresses daily backups prededupe. Dedupes backups only after next day's backups complete.	Capacity	Optional	Optional	✓	
Spectra Logic Corp. nTier appliance	Postprocess	Does byte-level compare on files, stores single instance of file then compresses file.	Capacity	Optional	Optional		✓