

The following technologies and products are covered in our research. All matrices and products are updated with announcements and product changes. **Last updated: June 2018**

## Comparison Matrices (Standard PDF & Interactive)

- Archive Software
- Archive Systems
- Data Protection Systems Virtual
- Data Protection Systems (Entry, Midrange, High End)
- Hyperconverged
- NAS Storage (Entry, Midrange, High End)
- Object Storage
- Scale-out Data Protection
- SAN Storage (Entry, Midrange, High End)
- Software Defined Storage
- Storage Virtualization Solutions
- Storage Resource Management

## Evaluation Guides

- Archive Software
- Archive Systems
- Data Protection Systems
- Hyperconverged
- NAS Storage
- Object Storage
- SAN Storage
- Scale-out Data Protection
- Software Defined Storage
- Storage Virtualization
- Storage Characteristics and Tiering
- Storage for VDI

## Product Selection Guide

- Archive Software for Files
- Data Protection Systems
- Hyperconverged
- NAS
- Object Storage
- SAN Storage
- Scale-out Data Protection
- Software Defined Storage
- Storage Resource Management
- Storage Virtualization

## SAN Storage

- Dell EMC Compellent Storage Center, EqualLogic Storage System, Unity, VMAX All Flash, VMAX3, VNX SAN, XtremIO
- Fujitsu ETERNUS DX Systems, DX8700-8900 S3, DX500 S3, DX600 S3, DX200 S3, DX100 S3
- HDS VSP G-1500 and F-1500, VSP Midrange, HUSVM HPE StoreServ 3Par 20000, 10000, 8000 (All Flash),
- HPE StoreServ 8000, 20000, XP7, StoreVirtual 4000, MSA 2040
- Huawei OceanStor 1800, 6800, S2200T
- IBM DS8000, XIV, V7000, V5000, V3700, DCS3700, DS3500
- IBM FlashSystem 900
- IBM FlashSystem A9000 and A9000R
- InfiniDAT InfiniBox
- NetApp AFF, FAS, EF550 Flash Array, EF560 Flash Array, E2800 Storage System, FAS2500, FAS8000 & AFF8000 E2600, E2700, E5400, E5500, E5600 SolidFire
- HPE Nimble AF Series, CS Series
- Nimbus Data Gemini
- Oracle FS1
- Pure Storage FlashArray
- Tegile IntelliFlash (bought by Western Digital)
- Tintri VMStore
- Violin Memory All-Flash Array (Archived)
- X-IO iglu blaze

## NAS Storage

- Cohesity Data Platform
- Dell EMC Compellent FS8600, PowerVault NX
- Dell EMC Celerra (archived), Isilon Systems IQ Series, Unity VNX(e) NAS, VMAX3, VMAX All-Flash
- Fujitsu ETERNUS DX Systems DX100/200/500/600/8700/8900 S3
- Hitachi HNAS, HUS
- HPE StoreEasy, 3PAR StoreServ 7000/8000 All Flash/20000
- Huawei OceanStor 9000/2600-2200/6800/18000
- IBM Scale Out NAS-SONAS (Archived), ESS
- Microsoft Windows Storage System (WSS)
- NetApp AFF, FAS, FAS2000/2500, FAS3200/V3200, FAS6000/V6000/6200/V6200, FAS8000
- Oracle ZFS
- Pure Storage FlashBlade
- Tintri VMStore

## Object Storage

- Caringo Swarm
- Cloudian Hyperstore
- Data Direct Networks Web Object Scaler
- Dell EMC Atmos (archived)
- EMC Centera (archived)
- EMC ECS
- Hitachi Content Platform
- HGST ActiveStore (formerly Active Archive)
- IBM COS
- NetApp StorageGRID Webscale
- Quantum Lattus
- Scality RING Organic Storage
- SwiftStack Swift

## Archive Systems & Software

- Atempo Digital Archive
- Caringo Swarm (see Object)
- CommVault Simpana OnePass
- EMC Centera (archived)
- HGST ActiveStore (see Object)
- HP StoreAll (Archived)
- Hitachi Content Platform (see Object)
- IBM Information Archive (Archived)
- Komprise
- NEC HYDRAsTOR HS6-4000 (see Data Protection)
- NetApp SnapLock
- Nexsan Assureon (archived)
- Quantum StorNext
- Rocket Arkivio Autostor
- Veritas Enterprise Vault
- ZL Tech Unified Archive

## Data Protection Systems

- Cohesity Data Platform
- Commvault Simpana 10
- Dell AppAssure
- Dell EMC Avamar
- Dell EMC Data Domain
- Dell EMC RecoverPoint
- Exagrid Backup Storage Appliance
- Hitachi Protection Platform
- HP D2D StoreOnce
- IBM ProtecTier
- NEC HYDRAsTOR
- Quantum DXi Series
- Rubrik (planned 2018)
- Veritas NetBackup Appliance

## Storage Resource Management (SRM)

- Aptare Storage Console
- Arxscan Arxview
- CA SRM
- Dell EMC ViPR SRM
- HPE Storage Essentials (now owned by MicroFocus)
- Hitachi Command Suite
- IBM Storage Insights
- IBM Tivoli Storage Productivity Center
- NetApp OnCommand
- SolarWinds Storage Manager
- Veritas InfoScale

## Storage Virtualization

- DataCore SANSymphony-V
- Dell EMC VPLEX, ViPR
- FalconStor FreeStor Storage Server
- Hitachi VSP G-Series Virtualization
- IBM SAN Volume Controller (SVC) / Spectrum Virtualize
- NetApp V-Series

## Software Defined Storage (Formerly Virtual SAN)

- Atlantis Computing USX
- DataCore SANSymphony-V
- Dell EMC ScaleIO
- Hedvig Distributed Storage Platform
- HPE StoreVirtual VSA
- IBM Spectrum Accelerate
- Maxta MxSP
- Microsoft Storage Spaces Direct
- NetApp SolidFire Element X
- Nexenta NexentaStor
- Quantum StorNext File System
- SoftNAS Cloud Storage Gateway
- StorMagic SvSAN
- VMware vSAN

## Open Storage Platform Hardware

- Open Storage Platform Server-based Storage Hardware
- SanDisk InfiniFlash IF150
- X-IO ISE

## Hyperconverged

- Atlantic Computing Hyperscale
- Cisco Hyperflex
- Dell XC Series
- EMC VxRail
- Hypergrid Hyperconverged Appliance
- HPE Hyperconverged 250/380 (archived)
- HPE Simplivity 380
- Maxta MaxDeploy
- Nutanix Enterprise Cloud Platform
- Pivot3 Hyperconverged Infrastructure
- Scale Computing HC3 Hyper-Converged Appliance
- VMware VSAN
- VMware Ready Nodes

## Scale-out Data Protection (New)

- Cohesity DataPlatform
- Commvault HyperScale Appliances
- ExaGrid EX Appliances
- Igneous Hybrid Storage Cloud
- NEC HYDRAsTOR
- Rubrik Appliances

## Comparison Matrices

The following is a list of products covered in each Comparison Matrix. Matrices are updated frequently and this information is subject to change. These are available as standard PDFs with an interactive, flash-based version available as well.

### Archive Software

- Arkivio (Rocket Software) AutoStor
- ASG (Atempo) Digital Archive
- Commvault File Archive
- EMC Cloud Tiering Appliance
- EMC SourceOne for Files
- IBM HSM
- Komprise Intelligent Data Management
- Moonwalk
- Quantum StorNext
- Veritas Enterprise Vault

### Archive Systems

- Caringo Swarm (formerly CAStor)
- Crossroads StrongBox (archived)
- EMC Centera (archived)
- HGST ActiveScale (archived)
- HPE StoreAll (archived)
- HDS HCP (achived)
- Imation Assureon (archived)
- NEC HYDRAsTOR HS6-4000/HS8-5000
- NetApp with Snaplock

### Data Protection Systems Virtual

- Dell EMC Data Domain
- FalconStor OBDVA
- HP StoreOnce VSA
- NEC HydraStor VA
- Quantum DXi V Series V1000 / V2000 / V3000

### Data Protection Systems Entry Level

- Dell EMC DD2200
- Exagrid EX1000-7000
- HPE StoreOnce 3000 / 3100 / 3520
- IBM ProtecTIER TS7620
- NEC HydraStor HS3
- Quantum DXi4700

### Data Protection Systems Mid Range

- Cohesity
- Dell EMC DD6300 / DD6800
- Exagrid EX1000E-32000E
- HP StoreOnce 3000/4000/5000
- FalconStor VTL-600
- FalconStor FDS-600
- HPE StoreOnce 3000 / 4000 / 5000 / 5500
- Quantum DXi4700
- HDS Protection Platform S1500
- Rubrik r-Series
- Veritas NetBackup 5230 / 5330

### Data Protection Systems High End

- Dell EMC DD9300 / DD9800
- FalconStor VTL/FDS
- Fujitsu ETERNUS CS8000
- HPE B6600
- Hitachi HDS Protection Platform S2500

- IBM TS7650G / TS7760
- NEC HS8-5000
- Quantum DXi8500 / DXi 6900
- Sepaton S2100-ES3

## Hyperconverged

- Atlantis Computing Hyperscale
- Cisco Hyperflex
- Dell EMC XC Series
- Dell EMC VxRail
- HPE Simplivity HC380
- IBM Hyperconverged System
- Lenovo ThinkAgile VX Series
- Lenovo Think AgileHX Converged Series
- Maxta MaxDeploy HC
- NetApp HCI
- Nutanix Enterprise Cloud Platform
- Pivot3 Hyperconverged Infrastructure
- Scale Computing HC Series
- VMware vSAN Ready Nodes

## NAS Entry Level

- Dell NX400 / NX3000
- EMC VNXe3200
- Fujitsu ETERNUS DX100 S4 / DX200 S4
- HPE StoreEasy 1450 / 1550 / 1650 / 1850
- IBM N3600/N3400/N3220-N3240
- NetApp FAS2554 / FAS2552 / FAS2520
- NetApp FAS2650 / FAS2620

## NAS Mid Range

- Dell EMC Isilon NL400, 36NL, 72NL, 108NL
- Dell EMC Unity 300 / 400 / 500 / 600 and F Series
- Dell EMC VNX 5200 / 5400 / 5600 / VG2 Gateway
- Fujitsu ETERNUS DC500 S3/ DX600 S3
- HPE StoreServ 8000 / 9000
- HPE StoreEasy 3000
- HDS HNAS 4080 / 4060 / 3090 / 3080
- Huawei OceanStor 6800 v3
- NetApp AFF A300 / A200
- NetApp FAS8200
- NetApp FAS8040 / FAS8020
- Oracle ZFS Storage System

## NAS High End

- Dell EMC FS7610 / FS8600
- Dell EMC VNX 5800 / 7600 / 8000 / VG8 Gateway
- Dell EMC Isilon F800
- Dell EMC Isilon

- Dell EMC VMAX / eNAS Data Service
- HDS HNAS 4100
- HPE 3PAR StoreServ 20000
- Huawei OceanStor 9000 / 18000
- IBM Elastic Storage Server / Spectrum Scale
- NetApp FAS8060 / 8080 / 9000
- Oracle ZFS Storage System

## Object

- Caringo Swarm (formerly CASTor)
- Cloudian HyperStore
- Data Direct Networks Web Object Scaler (WOS)
- Dell EMC ECS Appliance
- HGST ActiveScale
- Hitachi Data Systems HCP
- IBM Cloud Object Storage
- NetApp StorageGrid Webscale
- Quantum Lattus
- Scality Ring
- SwiftStack Swift

## Software Defined Storage

- DataCore SANSymphony-V
- Dell EMC ScaleIO
- Hedvig Distributed Storage Platform
- HPE StoreVirtual VSA
- IBM Spectrum Accelerate
- Maxta MxSP
- Microsoft Storage Spaces Direct
- NetApp SolidFire Element X
- Nexenta NextentaStor
- StorMagic SvSAN
- VMware VSAN

## SAN Entry Level

- Dell EMC EqualLogic
- Dell EMC SCv3000 / 3020
- Dell EMC VNXe3200 / VNXe1600
- Fujitsu ETERNUS
- HPE MSA
- HPE StoreVirtual
- Huawei OceanStor 2600/2200 v3
- IBM DS3500 / DCS3700
- IBM Storwize V5000 / V3700
- NetApp FAS2500 / FAS2600
- NetApp E2800

## SAN Mid Range

- Dell EMC SC Systems
- Dell EMC Equallogic PS
- Dell EMC VNX
- Dell EMC Unity
- Fujitsu ETERNUS
- HDS VSP F-Series / G-Series
- HPE Nimble AF / CS
- HPE 3PAR StoreServ 8000 / StoreVirtual 4000
- Huawei OceanStor 6800 v3
- Huawei Dorado 5000 / 6000 v3
- IBM DCS3860
- IBM Storwize V7000 / V5000
- NetApp AFF A300 / A200
- NetApp FAS8000 / FAS8200
- NetApp E5700
- PureStorage //m

## SAN High End

- Dell EMC VMAX All Flash / VMAX3
- Dell EMC XtremIO
- Fujitsu ETERNUS DX8700 / DX900 S3
- HDS VSP G1500 / F1500 / HPE XP7
- HPE StoreServ 20000
- Huawei OceanStor 18000 V3
- IBM FlashSystem A9000 / V9000
- IBM FlashSystem V9000 / 900
- IBM DS8880 / DS8880F
- IBM XIV
- InfiniDAT InfiniBox
- Kaminario K2
- NetApp AFF / FAS9000
- NetApp SolidFire
- Oracle FS1
- Pure Storage FlashArray
- Tegile IntelliFlash
- Violin 7000

## Scale-out Data Protection (New)

- Cohesity DataPlatform
- Commvault HyperScale Appliances
- ExaGrid EX Appliances
- Igneous Hybrid Storage Cloud
- NEC HYDRAsTOR
- Rubrik Appliances

## Storage Resource Management

- Aptare StorageConsole
- Arxscan Arxview
- CA Storage Resource Manager (Mainframe, Open Systems)
- Dell EMC ViPR SRM
- HPE Storage Essentials Suite
- HDS Command Suite
- IBM Storage Insights
- IBM Spectrum Control
- NetApp OnCommand Unified Manager
- SolarWinds Storage Resource Monitor
- Veritas InfoScale Operations Manager

## Storage Virtualization

- Data Core SANsymphony-V
- Dell EMC FAST.X
- Dell EMC ViPR
- Dell EMC VPLEX
- FalconStor FreeStor
- HDS G Series
- IBM SVC and VCS
- NetApp FlexArray