CTA and CTA/VE 10.0 SP3.1 Interoperability Matrix

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This document provides interoperability information intended for use as a reference guide in qualifying compatibility with customer environments and configurations. This document is for planning purpose only and the content may change at any time, because hardware and software versions vary and numerous combinations are possible.

CTA and CTA/VE Technical Considerations

Notes

1. CTA supports 500 million archived files per appliance with G8 hardware. If two CTAs are deployed, the total number of supported archived files between the two systems becomes 1 billion with G8 hardware. CTA with G7 and G6 hardware has the 250 million file limitation. If multiple CTAs are deployed, a file server (e.g., VNX/Celerra blade) must be owned by a single CTA and cannot be shared by mutiple CTAs. For environments that require CTA-HA for recall high availability, each CTA requires a CTA-HA pair.
2. CTA/VE supports 500 million archived files per virtual appliance. If multiple CTA/VEs are deployed, a VNX/Celerra file system must be owned by a CTA/VE and cannot be shared by multiple CTA/VEs.
3. Client hosts supported by VNX/Celerra FileMover or NetApp Fpolicy are supported by CTA and CTA/VE.
4. VNXe1 and VNXe2 do not currently support FileMover and therefore cannot be used as the archive source.
5. Isilon and Windows do not provide API for file retrieval and therefore cannot be used as the archive source.
6. CTA/VE-HA is a virtual HA appliance that can serve as the failover appliance for either CTA or CTA/VE primary.
7. ViPR Data Services is supported. ViPR/REST protocol can be added to CTA as an Atmos server. See Release notes and Table 3 below.
    a. Retention is not supported on ViPR as Atmos
    b. ViPR/CAS protocol is not supported.
8. ECS 2.0 and associated ECS 2.0 Service Packs only, is supported with CTA 10.0 SP3.1[only]. ECS/ATMOS-REST can be added to CTA as an Atmos server.
   See Table 3 below.
    a. Retention is not supported on ECS/ATMOS-REST
    b. ECS/CAS protocol is not supported.
    c. ECS/S3 protocol is not supported.
9. VNX support shown below applies for both VNX1 and VNX2 array families.
10. CTA File Migration supports NDMPv3 only. NDMPv4 is not supported.

Table 1: Source and Destination Servers and Tiers for Archiving

Notes

1. Example, when NetApp is the source storage, HA appliance is always required for non-disruptive recall due to limitation of Fpolicy
2. Any destination platform can be a middle tier in a multi-tier archive

Supported Source	Supported Destination
VNX/Celerra	VNX/Celerra
NetApp	VNX/Celerra
VNX/Celerra	VNXe1 (Note: VNXe3200 is not supported with CTA)
NetApp	VNXe1 (Note: VNXe3200 is not supported with CTA)
VNX/Celerra	Isilon
NetApp	Isilon
VNX/Celerra	Centera
NetApp	Centera
VNX/Celerra	Atmos; Atmos/ViPR; Atmos/ECS
NetApp	Atmos; Atmos/ViPR; Atmos/ECS
VNX/Celerra	Data Domain
NetApp	Data Domain

Supported Source	Supported Destination
VNX/Celerra	Microsoft Windows
NetApp	Microsoft Windows
VNX/Celerra	NetApp
NetApp	NetApp
VNX/Celerra	Amazon S3
NetApp	Amazon S3
VNX/Celerra	MS Azure
NetApp	MS Azure

Table 2: Source and Destination Servers for File Migration

Supported Source	Supported Destination
VNX/Celerra	VNX/Celerra
Windows *Windows Cluster is not supported	VNX/Celerra
NetApp	VNX/Celerra
VNX/Celerra *VDM version > 7.1 is not supported	VNXe1 (Note: VNXe3200 not supported)
NetApp	VNXe1 (Note: VNXe3200 not supported)

Table 3: File Storage Interoperability

Supported Platforms	Operating System Level	Transport Protocol	Comments
EMC VNX	VNX OE for File 8.1 7.1 7.0	CIFS and NFS	
EMC VNXe1	VNXe1 OE 2.x	CIFS and NFS	Supported as a destination only.
EMC Celerra	DART 6.0 DART 5.6	CIFS and NFS	Celerra Deduplication with Compression is supported.
EMC Isilon	OneFS 6.5.4.x (6.5.4.10 or later) OneFS 7.0 (7.0.1.4 or later) OneFS 7.1.x.x for Archive Destination OneFS 7.2.1.x for Archive Destination	CIFS and NFS	Supported as a destination only. See Table 7 Administration – CTA Repository Migration.
EMC Centera	CentraStar 4.3.x CentraStar 4.2.x CentraStar 4.1.x Centera Virtual Archive 1.1	Centera SDK	Supported as a destination only. See Table 7 Administration – CTA Repository Migration.
EMC Atmos	Atmos 2.3.x Atmos 2.2.x Atmos 2.1.X Atmos 2.0.x Atmos 1.4.x	REST	Supported as a Destination only. REST API is used to archive/recall from CIFS/NFS file systems to Atmos. Atmos 2.0.x includes Atmos CAS. CTA does not support Atmos CAS. See Table 7 Administration – CTA Repository Migration.
ViPR Data Services	ViPR 2.1 Data Services Atmos REST API	REST	Supported as a destination only. REST API Retention is not supported
ECS 2.0 and associated ECS 2.0 Service Packs only	ECS 2.0 Atmos REST API	REST	Supported as a destination only. REST API Retention is not supported ECS/CAS and ECS/S3 are not supported
EMC Data Domain & Data Domain Archiver	DD OS 5.1.x DD OS 5.2.x DD OS 5.4 DD OS 5.5 DD OS 5.6	NFS NFS NFS and CIFS NFS and CIFS NFS and CIFS	Supported as a destination only. See Table 7 Administration – CTA Repository Migration. DDOS 4.9.1.5 and above is required for customers wanting to use the Data Domain replication feature for disaster recovery.

			CTA supports NFS protocol only for DDOS 5.1 and 5.2. The NFS protocol is used to archive/recall from CIFS/NFS primary file systems to Data Domain. All CIFS metadata (ACLs or ADS) is retained in the stub file itself. CTA supports NFS and CIFS protocols to archive/recall from DD OS 5.3 targets.
Microsoft Windows	Windows Server 2008 R2 Windows Server 2003 R2	CIFS	Supported as a destination only for archiving, and as a source only for migration.
NetApp	ONTAP 8.2.x 7-mode (Note: ONTAP 8.x in Clustered mode is not supported) ONTAP 8.1.x 7-mode ONTAP 8.0.x 7-mode ONTAP 7.3.x	CIFS and NFS	NetApp Fpolicy is used when NetApp is the source. Fpolicy requires CIFS access. ONTAP Fpolicy pass-through read option is supported. Advanced Single Instance Storage (A-SIS) is supported. SnapLock is supported when Netapp is used as a destination. vFiler support requires CTA access to the host filer. vFiler support also requires that the main filers and vFilers are in the same IP space. File migration from NetApp 8.x 7-mode is not supported due to NetApp NDMPv4 support only.
Amazon	S3	REST	REST API is used to archive/recall from CIFS/NFS file systems to S3. Supported as a destination only. See Table 7 Administration – CTA Repository Migration.
Microsoft	Azure	REST	REST API is used to archive/recall from CIFS/NFS file systems to Azure. Supported as a destination only. See Table 7 Administration – CTA Repository Migration.

Table 4: Internet Browser Interoperability

Supported Browsers	Version Level	Operating System Level	Comments
Microsoft Internet Explorer	7.0 or later	Windows	
Chrome	18 or later	Windows and Linux	Does not support online help
FireFox	10 or later 4.0	Windows or Linux	

Table 5: Windows Domain Controller Interoperability

Windows Operating System Level	Comments
Windows 2008 R2 Windows Server 2003 R2	Kerberos is supported, but will fall back to NTLM v1/v2 on failure. SMB signing is not supported.

Table 6a: VMware vSphere ESXi/ESX Server Interoperability with CTA/VE and CTA/VE HA

Virtual Appliance	VMware ESXi/ESX Server	Comments
CTA/VE	ESXi 5.5, 5.1, 5.0	4 virtual CPU, 16 GB of virtual RAM, 1 TB of virtual disk space, A minimum of 2.5GB available disk space is required for VE Install.
CTA/VE HA	ESXi 5.5, 5.1, 5.0	**4 virtual CPU, 4 GB of virtual RAM, 100 GB of virtual disk space, 2 Gigabit virtual interfaces** are reserved.

Table 6b: Cloud Tiering Appliance Hardware Models

Hardware Generation	Server Model	CTA	CTA-HA
Gen6	Dell 2950	FMA6-APL	FMA6-HA-APL
Gen7	Dell R710	CTA-APL; FMA7-APL	CTA-APL-HA; FMA7-APL-HA
Gen8	Intel C1U	CTA8-APL	CTA8-HA-APL

Table 7: Administration - CTA Repository Migration

Note: Repository migration supports any destination platform to another.

IMORTANT: If the Repository Source supports Retention, a Repository Destination, that supports Retention, should be selected.

Supported Repository Source	Supported Repository Destination
All Valid Destination for Archiving	VNX/Celerra
All Valid Destination for Archiving	VNXe1 (Note: VNXe3200 is not supported)
All Valid Destination for Archiving	Isilon
All Valid Destination for Archiving	Centera
All Valid Destination for Archiving	Atmos, Atmos/ViPR, Atmos/ECS
All Valid Destination for Archiving	Data Domain
All Valid Destination for Archiving	Windows
All Valid Destination for Archiving	NetApp
All Valid Destination for Archiving	Amazon S3
All Valid Destination for Archiving	MS Azure

CTA Repository is the destination server for archiving and file storage used to archive content.

Table 8: Administration – Archiving System Conversion to CTA

Supported Conversion	Comments
Centera File Archiver	CFA 4.0 SP1 patch 2 or later (CTA 10.0 only. Not supported with CTA 10.0 SP1 forward)
DiskXtender for NAS	DX-NAS 3.1 or later

Refer to the TS Kit that includes the Practitioner's Guide to convert from Centera File Archiver (CFA) or DiskXtender for NAS (DX-NAS) to CTA.

For More Information

Please contact your local Unified Storage Specialist TC to review specific site requirements. This document represents the most commonly known customer environments that have been qualified. In general, CTA and CTA/VE do not provide support for product versions that are no longer supported by the respective vendors themselves.

For configurations that are not covered in this document, please go to the EMC Online Support Service Center to file a service request.

https://support.emc.com/servicecenter/

For complete CTA 10.0 documentation, go to the EMC Online Support by Product site.

https://support.emc.com/products

For either the Cloud Tiering Appliance or the Cloud Tiering Appliance/VE product, select Documentation.