

# DATA MANAGEMENT



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POWERFUL DATA PROTECTION AND DATA MANAGEMENT SOLUTIONS



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### **General Information**

#### Presentation:

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- New information in this document is shown in **blue**.
- End of Life components are shown in **red**. They are still supported in the current version but will not be supported in the following version.
- Legacy components that are no longer widely used are marked with icon L.







Operating System	Version	Architecture
	Red Hat Enteprise Linux 7	
	Red Hat Enteprise Linux 8	
	Red Hat Enteprise Linux 9	
	CentOS 7	
	Debian 10	
	Debian 11	
Linux <sup>1</sup>	Ubuntu 20.04 LTS	x86-64
	Ubuntu 22.04 LTS	
	Alma Linux 8	
	Rocky Linux 8	
	Oracle Linux 8	
	Alma Linux 9	
	Rocky Linux 9	

<sup>1</sup>Security-Enhanced Linux (SELinux) in "Enforcing" mode is supported.





Operating System	Version	Architecture	
	Server 2012 R2		
Microsoft Windows	Server 2016	x86-64	
	Server 2019	x80-04	
	Server 2022		





Operating System	Version	Architecture
	Red Hat Enteprise Linux 7	
	Red Hat Enteprise Linux 8	
	Red Hat Enteprise Linux 9	x86-64 & ARM64
	CentOS 7	
1	EulerOS v2.0	
Linux <sup>1</sup>	Debian 10	x86-64
	Debian 11	x86-64 & ARM64
	Ubuntu 20.04 LTS	
	Ubuntu 22.04 LTS	x86-64
	Alma Linux 8	
	Rocky Linux 8	
	Oracle Linux 8	
	Alma Linux 9	x86-64 & ARM64
	Rocky Linux 9	
macOf	macOS Big Sur (11)	x86-64 & ARM64 <sup>2</sup>
macOS	macOS Monterey (12)	100-04 & ANIVI04-

<sup>1</sup>Security-Enhanced Linux (SELinux) in "Enforcing" mode is supported.

<sup>2</sup>Requires Rosetta 2 Emulation. ARM64-based Macs cannot be used as Agent/Data Mover when Erasure Coding is enabled.



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Operating System	Version	Architecture		•
	Server 2012 R2		)	)••
Microsoft Windows	Server 2016	x86-64		•
	Server 2019	700-04		
	Server 2022			





Operating System	Version	Architecture
	Server 2012 R2	
Microsoft Windows	Server 2016	
	Server 2019	
	Server 2022	x86-64
	Windows 8	
	Windows 10	
	Windows 11	

The Administration Console is marked end-of-life. It is strongly recommended to use the Web interface.





Hiria Web Connector	• • • •	
Operating System	Version	Architecture
	Red Hat Enteprise Linux 8	
	Red Hat Enteprise Linux 9	
	Debian 10	
	Debian 11	
	Ubuntu 20.04 LTS	
Linux macOS1	Ubuntu 22.04 LTS	x86-64
	Alma Linux8	
	Rocky Linux 8	
	Oracle Linux 8	
	Alma Linux 9	
	Rocky Linux 9	
	macOS Catalina (10.15)	
	macOS Big Sur (11)	x86-64 & ARM642
	macOS Monterey (12)	
	Server 2016	
Microsoft Windows	Server 2019	x86-64
	Windows 10	
	Windows 11	

<sup>1</sup>If Miria Server is only accessible in HTTPS, WebConnector is not compatible with Safari client-side, because of a Safari limitation. <sup>2</sup>Requires Rosetta 2 Emulation



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Vendor	Product	Status	Primary Storage	Secondary Storage	Snapstor Storage	FastScan & Snapshot Connector
(Any)	On-premises NAS offering CIFS / NFS access <sup>1</sup>		$\checkmark$	$\checkmark$		
Avid	Unity MediaNetwork / Nexis2		$\checkmark$	$\checkmark$		
	GridScaler		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
DDN	ExaScaler		$\checkmark$	$\checkmark$		$\checkmark$
	IntelliFlash		$\checkmark$	$\checkmark$		$\checkmark$
	Celerra / VNX		$\checkmark$	$\checkmark$		
DELL EMC	Centera <sup>3</sup>	2		$\checkmark$		
DELE LING	Data Domain4 /PowerProtect			$\checkmark$		
	PowerScale/Isilon		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Exanet	ExaStore Clustered NAS		$\checkmark$	$\checkmark$		
Facilis <sup>5</sup>	TerraBlock server series		$\checkmark$	$\checkmark$		
FAST LTA	Silent Cube Storage		$\checkmark$	$\checkmark$		
Harmonic	MediaGrid <sup>6</sup>		$\checkmark$	$\checkmark$		

<sup>1</sup>Selecting a CIFS or NFS acces is dependent upon the OS used by Miria Agent to access the NAS. Select CIFS for Miria agents running on Windows and NFS for agents running on macOS or Linux/Unix. Public clouds NAS offerings are excluded. Refer to dedicated entries.

<sup>2</sup>Avid Nexis compability guide is taken into account. The gateway can be a Windows or a macOS – not Linux nor Unix. If using this storage with a tape library, only AMM can be used. Refer to the section describing Avid Interplay compatible storage.

<sup>3</sup>EMC Centera is only supported when the compliance mode is not enabled. No macOS support for the EMC Centera (no API).

<sup>4</sup>Data Domain De-duplication Storage Systems are only supported as storage targets with NFS/CIFS.

 $^5\mbox{Validated}$  with Miria using version 5.0.3.5 running native Facilitis file system and AVIDFS emulation.

<sup>6</sup>Miria Agent local mount points only.



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Vendor	Product	Status	Primary Storage	Secondary Storage	Snapstor Storage	FastScan & Snapshot Connector
Hitachi	HNAS		$\checkmark$	$\checkmark$		
Hualu	Optical disk library		$\checkmark$	$\checkmark$		
	OceanStor V5 series		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Huawei	OceanProtect X Series		$\checkmark$	$\checkmark$		
	Optical disk library		$\checkmark$	$\checkmark$		
Incom / HIT	HIT NAS Archive Appliance Series 1035 / 2105 / 3350 / 3560			$\checkmark$		
NetApp	FAS Series		$\checkmark$	$\checkmark$		
Nutanix	Nutanix for Files		$\checkmark$	$\checkmark$		$\checkmark$
Panasas <sup>1</sup>	PanFS		$\checkmark$	$\checkmark$		
Panzura	Panzura Cloud Storage		$\checkmark$	$\checkmark$		
Permabit	Permabit Enterprise Archive		$\checkmark$	$\checkmark$		
1 cmabit	Permabit Cloud Storage		$\checkmark$	$\checkmark$		
Qumulo			$\checkmark$	$\checkmark$	$\checkmark$	
Sony	Optical Disc Archive (ODA)2			$\checkmark$		
VAST	VAST Universal Storage <sup>3</sup>		$\checkmark$	$\checkmark$		
Weka	WekaFS		$\checkmark$	$\checkmark$		

<sup>&</sup>lt;sup>1</sup>Validated with Miria using PanFS version 4.1.2 to version 10.0. Certified using: CIFS connection from Windows, NFS connection from Linux/Unix/macOS. Now supporting DirectFlow on Linux. <sup>2</sup>Note that ODA is supported both on a Windows or Linux Miria controlled platform. <sup>3</sup>Not available for NFSv4.





Vendor	Product	Versions
	GridScaler	4.x
DDN	ExaScaler	5.1, 5.2.x, 6.0, 6.1, 6.2, Lustre 2.12.5_ddnX, 2.12.6_ddnX, 2.12.8_ddnX, <b>2.12.9_ddnX</b> , 2.14.0_ddnX
	IntelliFlash	3-11-3-0.21, 3-11-4-0.38
DELL EMC	PowerScale/Isilon	OneFS 7.2, 8.x, 9.0 to 9.3
GPFS1		4.x, 5.x
Huawei <sup>2</sup>	OceanStor	V5, <b>6.1</b>
	OceanStor Dorado	6.1
Lustre Community	Open source (Vanilla)	2.12.3, 2.12.4, 2.12.5, 2.12.6, 2.12.7, 2.12.8, 2.14.0
Nutanix	Nutanix for Files	3.5, 4.x
Quantum	Stornext	6.4.1 to 7.0.3
Qumulo		2.8.5 to 5.2.x

<sup>1</sup>GPFS on Windows nodes is not supported.

 $^2\mbox{For the version 6.1, Snapshot Comparison feature of file system must be enabled.}$ 



# FastScan Lustre Server Operating System

GNU/Linux distributions using RPM:

- RHEL 7.x., 8.x.
- CentOS 7.x.

### Server specifications

If you install an FSL server, it is recommended to have:

- 1 CPU with 12 cores.
- 64 GB of memory, mainly for the database.
- 1 GB for the distribution of the product.
- 200 GB of disk space (sufficient to store 1 billion objects in the database).







Vendor	Product	Status	Primary Storage	Secondary Storage	Accelerate	Multipart	Lifecycle	Versioning	Object Lock
Alibaba Cloud	Object Storage Service		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
Amazon1	AWS S3 Storage		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
СЕРН	СЕРН		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
Cloudian	HyperStore Object Storage		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$
Datacore	SWARM		$\checkmark$	$\checkmark$			$\checkmark$	$\checkmark$	$\checkmark$
DataDirect	Web Object Scaler (WOS): REST Interface			$\checkmark$		$\checkmark$			
Networks	Web Object Scaler (WOS): WOS API			$\checkmark$					
Econocom	Econocloud S3		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
EMC	Elastic Cloud Storage (ECS)		$\checkmark$	$\checkmark$				$\checkmark$	$\checkmark$
Google	Google Cloud Storage		$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	
HDS2	HCP Object Storage & Cloud Storage								

<sup>1</sup>The Amazon S3 API is supported but no direct support for Glacier's specific API. The S3 lifecycle feature is used to manage data movement to/from Glacier. <sup>2</sup>Certified with HCP version 6.





Vendor	Product	Status	Primary Storage	Secondary Storage	Accelerate	Multipart	Lifecycle	Versioning	Object Lock
	FusionStorage1		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
Huawei	OceanStor 100D		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
	OceanStor Pacific		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
IBM	Object Cloud Object Storage		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
Microsoft	Azure Blob Storage		$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	
NetApp	StorageGrid <sup>2</sup>		$\checkmark$	$\checkmark$				$\checkmark$	$\checkmark$
OpenStack	Swift		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
Orange	Cloud Avenue		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$
Quantum	ActiveScale		$\checkmark$	$\checkmark$		$\checkmark$	$\checkmark$	$\checkmark$	$\checkmark$
Scaleway	Object Storage		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	
	RING sproxyd			$\checkmark$					
Scality	RING CDMI	0		$\checkmark$					
	RING S3		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$
Seagate	Lyve Cloud		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$
Storj	Decentralized Object Storage		$\checkmark$	$\checkmark$		$\checkmark$			

<sup>1</sup>Only S3 protocol is supported.

<sup>2</sup>Only S3 protocol is supported. Regarding Object Lock, only the Compliance mode is supported.



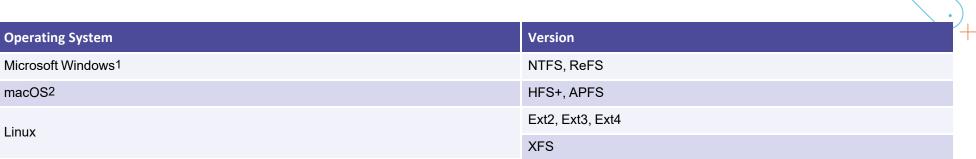
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Vendor	Product	Status	Primary Storage	Secondary Storage	Accelerate	Multipart	Lifecycle	Versioning	Object Lock	
Vastdata	Object Storage (S3)			$\checkmark$		$\checkmark$		$\checkmark$	√1	·+·
Wasabi	Object Storage		$\checkmark$	$\checkmark$		$\checkmark$		$\checkmark$	$\checkmark$	

Miria provides full S3 compatibility with the AWS API. If your S3 object storage is not listed above, Contact Atempo.

<sup>1</sup>Governance mode only.









# Media Manager (AMM)



The Media Manager needs to be installed in environments where the archiving target is tape.

It is the platform that enables Miria to access tape libraries and tape devices.

Atempo Media Manager can be installed on the same machine as the Miria agent or on a different machine. It is an option of the Miria agent setup.

Operating System	Version	Architecture	
	Red Hat Enteprise Linux 7		
	Red Hat Enteprise Linux 8	x86-64 & ARM64	
	Red Hat Enteprise Linux 9		
	CentOS 7		
	Debian 10	x86-64	
Linux1	Debian 11	x86-64 & ARM64	
	Ubuntu 20.04 LTS		
	Alma Linux 8	x86-64	
	Rocky Linux 8		
	Oracle Linux 8		
	Alma Linux 9	x86-64 & ARM64	
	Rocky Linux 9		
macOS	macOS Big Sur (11)	x86-64 & ARM642	
	macOS Monterey (12)		

<sup>1</sup>Security-Enhanced Linux (SELinux) in "Enforcing" mode is supported. <sup>2</sup>Needs Rosetta 2 Emulation



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Operating System	Version	Architecture	
	Server 2012 R2		)
Microsoft Windows	Server 2016	x86-64	+.
	Server 2019	X00-04	
	Server 2022		

### **Supported Libraries**

The following libraries are supported by the Media Manager.

### BDT:

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- MultiStak
- Flexstor
- Flexstor II

### DELL:

- Dell ML6000
- Dell 160T
- Dell TL2000/TL4000

### FUJITSU:

- Fujitsu-Siemens FibreCAT TX24
- Fujitsu-Siemens FibreCAT TX48





• Eternus LT260

### HP:

- HP StorageWorks 1x8 G2
- HP MSL 2024 / 4048 / 6000 / 8096
- HP 1/8 Thinstor
- HP MSL6480
- HP MSL3040

### HUALU:

- DA-BH7010
- DA-BH8010

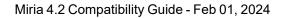
#### IBM:

- IBM TS3100 / TS3200 / TS3310
- IBM TS2900 / TS3500 / TS3576
- IBM TS4500
- IBM 3584

### NEC:

- NEC LL009F
- NEC T40A
- NEC T16A









- STK SL500
- STK L700 , Sun StorEdge L700
- STK L180 , Sun L180
- STK L20
- STK L40
- STK L80
- SUN STK SL3000
- StorageTek C4
- StorageTek SL24 / SL48 / SL150
- StorEdge L400
- All library using ACSLS (SL8500,...)

### **OVERLAND:**

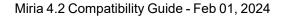
- NEO Series 2000 / 4000 / 8000 Arcvault Series
- NEOxl 40, 60 and 80
- NEOs T24 and NEOs StorageLoader

### QUALSTAR:

- Qualstar Q Series
- Qualstar XLS Series
- Qualstar TLS Series
- Qualstar RLS Series

### QUANTUM:







- Adic Scalar i500
- Adic Scalar i2000
- Adic Scalar 24
- Adic Scalar 10k
- Adic Scalar 100
- Adic Scalar 1000
- Quantum Scalar i3/i6
- Quantum Scalar 50
- Quantum Scalar i40 / i80
- Quantum Scalar i500
- Quantum Scalar i2000, i6000
- Quantum SuperLoader3
- Quantum PX500 Series
- Quantum PX720
- ATL M1500, M4 DATA MagFile, M4 DATA MagStack 2-4, M4 DATA MagStack 5-10

### SPECTRA LOGIC:

- Spectra Logic T Series
  - T24 to T-Finity
  - (T50, T120, T200, T380, T680, T950,...)
- Spectra Stack

### SONY:

 PetaSite series using FC SCSI connection (PSC API not supported yet )







### TANDBERG/EXABYTE:

- Tandberg T-40<sup>1</sup>
- Exabyte Magnum 448, Tandberg StorageLibrary T48
- Exabyte Magnum 224, Tandberg StorageLibrary T24
- Exabyte Magnum 1x7 2U
- Exabyte Magnum20

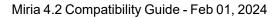
### **Supported Drives**

Technology	Model	WORM and Encrypted Drive
HP	HP LTO3, LTO4, LTO5, LTO6, LTO7, LTO8, LTO8M, LTO9	Yes
HUALU	Hardware mode: DA-BH7010, DA-BH8010 Software: AuroraGDAS version 3.1.14	Yes
IBM2	IBM LTO3, LTO4, LTO5, LTO6, LTO7, LTO8, LTO8M, LTO9 IBM TS1130, IBM TS1140, IBM TS1150, IBM TS1150, IBM TS1155, IBM TS1160	Yes
Oracle StorageTek	T10KA, T10KB, T10KC, T10KD T9840, T9940	No
Sony ODA	Minimum supported versions are: Drive ODA FC: ODS-D77F Firmware level 1688 ODA Driver: <b>5.4</b> Gen 1 & 2 & 3, SAN Support only supported on Linux	Yes (depending on media)

<sup>1</sup>No automatic detection of the library. A manual procedure is required. Contact Atempo Professional Services for more information.

 $^2\!\text{With}$  Advanced Path Failover support on both LTO and Jaguar tape drives where available.









### Supported Tape Formats



Tape Format	TAR (PAX)	LTFS1
Available using AMM	Yes	Yes from LTO5, LTO6, LTO7, LTO8, LTO8-M, LTO9
Metadata automatically Stored on Tape	Yes	No <sup>2</sup>
Tape Duplication	Yes	Yes
Tape Verify	Yes LTO5, LTO6, LTO7, LTO8, LTO8-M, LTO9	Yes LTO5, LTO6, LTO7, LTO8, LTO8-M, LTO9
WORM	Yes LTO5, LTO6, LTO7, LTO8, LTO8-M, LTO9	No

### **Library & Drive Limitations**

#### Drives

The type of drives supported are the ones listed as supported by Miria in the above section.

### Libraries

AMM only supports libraries that offer barcode management capabilities.

When barcode management is available, AMM supports the following library types:

- SCSI
- iSCSI
- Fiber Channel
- SAS (Linux and Windows only)
- RoCE

<sup>&</sup>lt;sup>1</sup>LTFS format is compliant with LTFS Format Version 2.5.1 standard <sup>2</sup>The LTFS standard does not normalize the storing of metadata on tape.





#### Devices

- No VTL support with Miria/AMM.
- Only tape libraries and tape drives in a library are supported (no standalone drives).
- Only tape libraries equipped with mailbox are supported (no autoloader).
- Only libraries with the serialization mechanism (drive serial numbers are reported by the library) are supported.
- Only devices with serial numbers are supported.
- Device names must not contain spaces as characters.
- Barcodes on cartridges are mandatory, must be reported by the library and must be unique in the Miria configuration.
- Cleaning of tape drives is not supported (cleaning must be managed by the library).
- Only one type of tape drive per library is supported (e.g. LTO) but a generation mix is allowed (e.g. LTO7+LTO8).
- Drive and library arm multipath are supported.

#### **Other Limitations**

- Tape drives and tape libraries connected through NDMP are not supported.
- Drive sharing with other applications is not supported.
- Library sharing with other applications is not supported, but library splitting is supported.

#### **Other Media Manager Supported:**

- Sun StorageTek ACSLS 7.3, 8.x
- Sun StroageTek LibAttach 1.4.2

#### **ACSLS Support**

- The ACSLS server can be on any operating system. Check Oracle compatibility guide for more details.
- Only one library can be declared on the ACSLS server and Media Manager only supports the standard port for ACSLS clients.





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### **Transcoding For Video Asset Preview**

The transcoding for video asset preview feature creates a low-resolution version of an asset that can be viewed in a video player without retrieving the entire asset.

The license for this option is complimentary. It can be obtained free of charge by completing a request form upon configuring the Video proxy transcoding format in Miria Administration Console.

The transcoding option is only available with **Miria File Storage One to One located on the Miria Server**. All video formats/codecs supported by FFmpeg can be transcoded. However, if you intend to perform a Partial File Retrieval, some restrictions apply. See the Partial File Retrieval section for details.

The Preview Player is only available on Windows and macOS interfaces, while it is not accessible on java UI.

Partial retrieval can be performed directly from the Miria Preview Player on Windows interfaces only, without availability on macOS or the java UI.

Operating System	Version	Possible Preview File Format	Preview Player Available	Launch PFR from Preview Player
Linux		MPEG-1/QuickTime H.2641/QuickTime	Yes	Yes
macOS	See Agent compatibility	MPEG-1/QuickTime H.2641/QuickTime	Yes	Yes
Microsoft Windows		MPEG-1/QuickTime H.2641/QuickTime	Yes	Yes

<sup>1</sup>Provided that H.264 Cisco library has been installed on the agent. See Miria Administration guide for details.



## Partial File Retrieval (PFR)

The Partial File Retrieval (PFR) feature for the MXF and QuickTime (QT) formats is available via the Rich Media option that must be added to the Miria configuration.

PFR is only available in Agent Mode archiving, not in Client Mode.

The Rich Media Option also delivers automatic metadata import for media industry file formats such as MXF, DPX, etc. See the Metadata Import section for details.

### **Containers Supported By The PFR Option**

### QuickTime (QT)

No restriction concerning the essence supported.

#### MXF

Miria supports the wrappers, standards and essences listed below. In order to confirm that Miria is fully compatible with your flavor of MXF files, you can send links to samples file to be tested to: ada\_info@atempo.com.

- MXF wrappers: OP1a.
- Video standards: PAL, NTSC (drop/non drop frame).

and the following essences: MPEG-2 (including XDCAM, Long GOP), DV 25/50, DVCAM, DVCPRO, DNxHD, IMX 30/50, AVC-Intra, XAVC, JPEG 2000, Uncompressed, BWF, AES, IMX 30, 50, 50, Mpeg2, Mpeg2HD, Mpeg4, DV, DVCPro 25/50, DVCProHD, AVC-I, H.264, Jpeg2K, DNxHD, uncompressed, Tiff, Dpx, Bwf, Wave, Aiff, Aes2, Aes8, VBI, D-Cinema(DCI) support, DCP creation.

Concerning the support of "clip/frame wrapping" mode (video audio interleaved) by our Partial File Retrieve feature, here is the perimeter supported:

- In entry: MXF clip/frame wrapping is supported
- In output: MXF OP1a frame wrapped

Concerning Avid's MXF formats:

• Partial File Retrieve is fully supported in an Interplay configuration equipped with an Interplay Archive Server.



# Metadata Import

The Automatic Metadata Import feature delivers Automatic Metadata Import for media industry file formats (MXF, DPX...) or graphic file formats (AVI, JPG, MPEG, JPG2000...) depending on the option reference. It is available in the Rich Media Option. An additional license is required for this feature.

From the following graphical file formats (Files must be named with the precise file extension as indicated in the list provided):

ARW AVI AVS BMP CALS CIN CMYK CMYKA CRW CUR CUT DCM DCR DCX DIB DJVU DNG DPX EMF EPDF EPT EXR FAX FITS FPX GIF GRAY HALD HRZ SHTML ICO INFO INLINE JBIG JNG JP2 JPC JPEG MAT MIFF MONO MOV MNG M2V MPEG MPC MPR MRW MSL MTV MVG MXF NEF ORF OTB P7 PALM PAM PBM PCD PCDS PCL PCX PDB PEF PFA PFB PFM PGM PICON PICT PIX PNG PNG8 PNG24 PNG32 PNM PPM PS PSD PTIF PWP RAD RAF RGB RGBA RLA RLE SCT SFW SGI SHTML SUN SVG TGA TIFF TIM TTF TXT UIL UYVY VICAR VIFF WBMP WMF WPG X XBM XCF XPM XWD X3F YCbCr YCbCrA YUV

Many types of metadata can be collected in images generated by graphics software or in digital photos, including EXIF, IPTC and XMP metadata standard. If you want to know if a specific type of metadata can be collected, send an email to ada\_info@atempo.com with a sample file containing metadata and in the email body the list of metadata to look for.





### **Application Plugin**

Application	Version
Avid Interplay / MediaCentral Production	Avid Interplay Production versions 2.7 to 2017.2 Avid MediaCentral Production version 2018.6 to 2019.6 Using Production Archive Engine (DET v2.x API)
Primestream FORK Production Suite	Integration with Miria is delivered by Primestream as an option to FORK1.

### **API Platform**

АРІ Туре	Platform
C++ API	Refer to Miria Server platform list
Web Services	Web services are provided by Miria Server. Refer to Miria Server platform list.
REST API	REST API are provided by Miria Server. Refer to Miria Server platform list.

<sup>1</sup>Contact Primestream for more information on the option and service required to integrate with FORK.





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Interface	Languages	+
Web Interface (Administration & End-user)	English, French, Simplified Chinese	
Administration Console 1	English, French, Japanese, Korean, Simplified Chinese	
CLIs	English, French	

<sup>1</sup>The Administration Console is marked end-of-life. It is strongly recommended to use the Web interface.



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# Network And Protocols

- Supporting NFS v2.x, v3.x and v4.x
- Operating Systems of Miria Data Movers
  - ° **CIFS** access: Supporting **only Windows-based** Miria DataMovers/Agents
  - ° NFS access: Supporting only Linux-based or macOS-based Miria DataMovers/Agents
- No support for:
  - ° IPv6 host names are currently not supported
  - Parallel NFS (pNFS)
  - Apple File Protocol (AFP) is not supported
  - ° No CIFS support on Linux/Unix or macOS Agents
  - ° No NFS support on Windows Agents







- LDAP implementations supported<sup>1</sup>:
  - ° Microsoft Active Directory
  - ° OpenLDAP
  - ° 389 Project
  - ° Freelpa
- SAML v2.0 Providers:
  - ° Okta
  - ° Auth0
  - ° Azure Active Directory (Azure AD)
  - ° Microsoft 365 (through Azure AD)

Note: Any identity provider compliant with LDAP or SAML v2 standards should work.



<sup>&</sup>lt;sup>1</sup>Both LDAP over TLS (STARTTLS) and LDAP over SSL (LDAPS) are supported.





Vendor	Product	Version	+.
Thales	CipherTrust	2.2 to 2.13 LTS	



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This section is listing limitations related to IT environment and infrastructure not listed in above sections of this document:

- Disk Storage
  - ° Extraction / unplugging of a removable disk is not supported by Miria
- Virtual Tape Library/VTLs
  - ° Are not supported by Miria/AMM



