



Telestream



# Release Notes

**Release 8.2**

**Version 1.2**

This document provides product release information for the DIVA Core Suite releases 8.x.

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**Note:** Read this documentation before installing and using DIVA Core.

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## Overview

This guide is written for video professionals who are familiar with configuring and using the DIVA Core Suite of products. It includes information on new and improved features and functionality. You should have knowledge of the DIVA Core products to successfully upgrade your installation. If you are not familiar with the DIVA Core products, we suggest that you review the DIVA Core Supported Environments Guide, DIVA Core Installation and Configuration Guide, and DIVA Core Operations Guide as needed.

## Installing, Configuring, or Updating DIVA Core

Contact Telestream Support for assistance installing, updating, or configuring DIVA Core. The Telestream Support Contacts Global Directory can be found at:

<https://www.telestream.net/telestream-support/diva/support.htm>

For more information, see the DIVA Core documentation set for this release located at:

<https://www.telestream.net/telestream-support/diva/support.htm>.

## Options and Licensing

DIVA Core 8.x requires a license. DIVA Core will not start without a valid license in the Core Database. The details of the license, and tool used to create the license have been updated. The license can be imported as part of the DIVA Core installer if you create the license before DIVA Core is installed. If DIVA Core is already installed, a license can be imported using the Configuration Utility. In addition to enabling DIVA Core, the license includes a set of options that are necessary to enable the associated features in DIVA Core. The following table identifies DIVA Core options and licensing metrics.

Description	Licensing Metric
DIVA Core System	Per Server
DIVA Core Single	Per Server
DIVA Core Actor	Per Server
DIVA Core Avid Connector	Per Avid Archive Provider
DIVA Core Partial File Restore	Per System
DIVA Core Analytics	Per Server
DIVA View	Per Concurrent User
Managed Storage Capacity	Per 500 TB Block
Unlimited Storage Capacity	Per System

## Security

Telestream recommends keeping the operating system up to date with the latest security patches. However, Telestream cannot guarantee that all patches will operate correctly with DIVA Core because the operating system security patches are independent of the DIVA Core application.

You should determine the acceptable operating system security patch level for your environment. Contact Telestream Support for assistance in determining operating system patch level compatibility if necessary.

## What's New in DIVA Core Suite 8.2

DIVA Core 8.2 includes the following new features and enhancements:

### New Terminology

The following terminology has been updated to reflect standardization efforts across all DIVA and Kumulate applications. There will be some variations in the documentation compared to the interface until everything is switched over to the new terminology; the documentation uses the new terms wherever possible.

- Running Requests are now called Jobs
- Request History is now called Job History
- Libraries are now called Managed Storage
- Datahub is now called Actor
- Proxyhub is now called Proxy Actor
- DIVA Core and DIVA Manager are now called DIVA Core / Core / Core Manager
- Category is now called Collection
- Source/Destination is now called Unmanaged Storage Repository
- Storage Repository is now called Managed Storage Repository
- Object is now called Virtual Object
- Group is now called Tape Group
- Link is now called Storage Link
- Storage Plan Manager is now called Storage Policy Manager
- Drop Folder Monitor (DFM) is now called Watch Folder Monitor (WFM)
- DIVA Command and Control Panel are now called System Management App
- DIVA Analytics and DIVAProtect are now called Analytics App

### Support for Oracle 19c

Oracle 19c can be used with DIVA Core 8.0 and later, and supports the following Windows and Linux Oracle packages:

- OracleDivaDB\_3-2-0\_19\_3\_0\_0\_0\_SE2\_Windows\_64-bit
- OracleDivaDB\_3-3-0\_19\_3\_0\_0\_0\_SE2\_Linux\_x86\_64

### System Management App, Control GUI, & Configuration Utility

The decision was made to revert back to the original DIVA Core Configuration Utility and to deprecate DIVA Command. The Configuration Utility and Control GUI are now named System Management App.

## System Management App

DIVA Core System Management App is installed as part of DIVA Core 8.2.0.255 installer (or later). It is hosted by the Core Manager Service. Installing the DIVA Core and the REST API Data services will automatically configure it. Refer to the REST API Installation and Configuration section in the DIVA Core 8.2 Installation and Configuration Guide for instructions.

The REST API Discovery and Gateway services do not need to be installed to use DIVA Core System Management App.

## Notification Service (RabbitMQ)

RabbitMQ has been integrated into the DIVA Core windows installer starting with release 8.2.0.91 (and later). The DIVA Core installer identifies it as Notification Service instead of RabbitMQ because RabbitMQ is just an implementation.

The Notification Service is required for the System Management App to function properly.

## Added HCP (Hitachi Content Platform) Support

Added support for Hitachi Content Platform (HCP). This is a new kind of S3 Supported Virtual Object Storage. See the DIVA Core 8.2 Supported Environments Guide for more details.

- Virtual Object Storage Type: Hitachi Content Platform (HCP)
- Protocol: S3
- Supported Storage Classes: Standard
- Managed Storage: Yes
- AXF Reference-File: Yes
- Server: Yes
- Disk Instance Recovery: Currently not tested

## Support for LTFS\_AXF\_1.1 Format

This new format offers the same features as AXF\_1.1 on an LTFS formatted Tape Group and is only supported on tape. This format is not recommended for complex Virtual Objects because it would generate very large LTFS indexes. The following features are supported by LTFS AXF:

- Spanning
- Drive compression
- Drive encryption is supported but not recommended if there is no procedure to export and load encryption keys to the LTFS software.

See the DIVA Core 8.2 Operations Guide for more information.

## Updated Support for AXF\_RF\_1.1

This format allows a user to see the files of a Virtual Object on disk or cloud. When archiving complex Virtual Objects with small files, performances are better using AXF\_1.1 because the files are wrapped into an AXF container (this is the reason of the note). When this format is chosen for a cloud storage array, there are limitations on the server side to the size of file that can be created. This limitation is around 5TB per file. If a DIVA Core Virtual Object contains a file larger than 5TB, it is recommended to use AXF\_1.1 instead of AXF\_RF\_1.1.

## Updated Support for AXF\_1.1

When this format is selected for cloud storage, DIVA Core will create a new AXF segment every 500GB not to compromise multipart upload performances. Some Virtual Object storage vendors limit the number of parts per Virtual Object to 10000. This 500GB AXF segment limit is to keep a reasonable size for each part. This is the recommended format when archiving complex Virtual Objects.

## AWS Glacier Instant Retrieval Support

Added glacier-instant-retrieval to the list of supported storage classes for AWS S3.

# What's New in DIVA Core Suite 8.1

DIVA Core 8.1 includes the following new features and enhancements:

## System Management App Interface

The new System Management App interface replaces the DIVA Core Configuration Utility.

## SMB Support With Linux-based Actors

Linux-based Core Actors support CIFS Servers for transfers and accessing a CIFS remote Vantage transcode cache folder starting with DIVA Core 8.0. A Linux Core Actor can now be used with Vantage transcoding. See the DIVA Core Installation and Configuration Guide for more detailed information.

## Flashnet Migration Tool

The Flashnet Migration Tool leverages a hidden REST API endpoint that reads from the Flashnet Database and writes to the Core Database. This initial tool release supports only Flashnet installs with SONY ODA media and Virtual Objects archived by Avid or IPWS clients.

## Metadata Database (MDS)

To effectively operate with large volumes of files and folders and other metadata, DIVA Core stores the metadata separately from the Oracle database in the Core Metadata Database.

Prior to DIVA Core 8.1, the Core Metadata Database consisted of a flat file, and stored information for Complex Virtual Objects components only. The directory that contains these files is the Metadata Database Root Folder.

Starting with DIVA Core 8.1, the Core Metadata Database is now stored in MongoDB. The data files should be treated with the same caution as the Oracle database, and should be backed up at regular intervals using the DIVA Core Backup Service. See the Operations Guide for detailed information.

## Backup Service (BKS)

Legacy DIVA Core uses Oracle Database Engine. The addition of MDS and underlying MongoDB required changes to support Database Data files backups for these 2 Database engines.

The DIVA Core Backup Service is now referred to as *BKS*. The Backup Service is comprised of two types of services, DIVA Core Backup Service and one or more DIVA Core DBAgent Services. See the DIVA Core Operations Guide for detailed information.

The Backup Service controls command execution, DIVA Core archives, synchronization and configuration.



The DBAgent Service performs database specific tasks (that is, backups and restores), monitors their progress, and reports disk usage. See the DIVA Core Operations Guide for detailed information.

## Avid AM (Archive Manager) Updater Tool

The AM Updater is used to be able to migrate the AAF files into the AM (Archive Manager) Database. The AM Database is needed to be able to initiate restores from Avid using AMC. The AM Updater application is a migration/utility tool designed to import AAF metadata files into the Avid Interplay | Production Archive Engine database. The primary scope is to import the AAF files generated by Flashnet in a scenario without Archive Engine into the database of a new fresh installed Archive Engine.

## New Terminology

DIVA Core 8.1 release introduces new terminology for various components as follows (this has been changed in release 8.2. See [New Terminology](#) in the [What's New in DIVA Core Suite 8.2](#) section).

- Actor is now named Datahub
- Proxy Actor is now named Proxyhub
- Production System is now named Network
- Source/Destination is now named Server

# What's New in DIVA Core Suite 8.0

DIVA Core 8.0 includes the following new features and enhancements:

## Documentation Update

Starting with DIVA Core 8.0 some documents have been merged into the Operations Guide and the Installation and Configuration Guide. This was done to achieve a smaller library, making it easier to find the information you are looking for. Previous standalone documents that have been merged and are no longer being published are as follows:

- Security Guide has been merged into the Installation and Configuration Guide
- Cluster Manager Installation and Configuration has been merged into the Installation and Configuration Guide
- Database User's Guide has been merged into the Installation and Configuration Guide
- Checksum Support User's Guide has been merged into the Installation and Configuration Guide
- DIVA Core Migrate Utility installation and configuration sections have been merged into the Installation and Configuration Guide. The Operations and Error Handling sections have been merged into the Operations Guide.
- Export/Import User's Guide has been merged into the Operations Guide

## Operating Systems

DIVA Core 8.0 supports system installations in Windows 2012 R2, 2016, and 2019, and Oracle Linux 7 x86\_64 or later (64-bit) environment.

Windows 2008 server is no longer supported. Windows Server 2008 R2 end-of-life mainstream supported ended on January 13, 2015. On January 14, 2020, Microsoft ended all support for Windows Server 2008 R2.

## Core Database Communications

Secure communication with Oracle Database requires the following minimum versions:

- Windows: OracleDivaDB\_3-1-0\_12\_2\_0\_1\_0\_SE2\_Windows\_64-bit
- Linux: OracleDivaDB\_3-1-0\_12\_2\_0\_1\_0\_SE2\_OEL7\_x86\_64

## Servers and Storage

The following new Servers are supported in DIVA Core 8.0:

### Google Cloud Storage Accounts

DIVA Core 8.0 includes support for GCS (Google Cloud Storage). GCS is the Virtual Object storage service offered by Google to Google Cloud account owners. Like any other Virtual Object storage service, GCS offers an interface to create buckets and Virtual Objects under buckets. For security reasons, do not directly use a Google

account for the Virtual Object storage interface. DIVA Core needs to be associated with a service account and a specific role/permission.

### **Azure Blob Storage Accounts**

DIVA Core 8.0 includes support for Azure Blob Storage. Azure Blob Storage is the Virtual Object storage service offered by Microsoft to Azure account owners. Like any other Virtual Object storage service, Azure Blob Storage offers an interface to create blobs (Virtual Objects) under buckets. The configuration of AZCS (Azure Cloud Storage) is similar to the configuration of other cloud storage in DIVA Core.

### **Sony ODA Gen3**

Sony ODA Gen 3 is now supported. The new drive type is ODS-D380F. The new drive supports the new ODC5500R cartridge, which has a 5.5 TB capacity. This is a WORM drive and is still R/W compatible with ODC3300R and read-only compatible with older cartridge types.

### **IBM TS1160**

The IBM TS1160 drive is now supported.

Refer to the DIVA Core Installation and Configuration Guide for more details on these storage and Servers.

## **Array Custom Bucket Names**

DIVA Core 8.0 supports Custom Bucket Names for arrays.

With an AXF Reference file, it may be useful to specify a custom bucket name by specifying it in the storage options. When you specify a custom bucket name, all instances will be written into the same bucket. If you specify a custom bucket name, the maximum number of instances per bucket is unlimited. If you allow DIVA Core to generate the bucket name, then DIVA Core will only put the configured maximum number of instances per bucket before creating a new bucket.

## **Native File and Folder Support**

Users can see their files and folders in native format on archive devices rather than as an AXF container files. You can also access files and folders on storage devices like Virtual Object storage. This access opens the archive to the use of third party software to perform operations on the archive (for example, metadata collection, face recognition, transcoding, and so on).

## **Transcoders**

There are several updates to transcoder upgrading and configuration. See Chapter 13 in the DIVA Core Installation and Configuration Guide for detailed information on these procedures.

## **Partial File Restore Request Options**

Partial File Restore now supports optional parameters when submitting requests. The options are available on the Edit Partial Restore Setting dialog box and can be found in Chapter 9 of the Installation and Configuration Guide.

## **SMB Support With Linux-based Actors**

Linux-based Actors now supports CIFS Servers for transfers and accessing a CIFS remote Vantage transcode cache folder. A Linux Core Actor can now be used with Vantage transcoding. See the DIVA Core Installation and Configuration Guide for more detailed information.

## Restricted Use of Included Oracle Software Components

The Oracle database included with the DIVA Core system is limited to use only for the operation of the DIVA Core software.

## Related Documents

For more information, see the DIVA Core documentation set for this release located at <https://www.telestream.net/telestream-support/diva/support.htm>.

## Documentation Accessibility

For information about Telestream's commitment to accessibility, visit the Telestream Support Portal at <https://www.telestream.net/telestream-support/diva/support.htm>.

## Access to Telestream Support

Telestream customers who have purchased support have access to electronic support through the Telestream Support Portal at <https://www.telestream.net/telestream-support/diva/support.htm>.

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