



Release Notes

Release: 9.3

Revision: 0

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Telestream Contact Information

To obtain product information, technical support, or provide comments on this guide, contact us using our web site, email, or phone number as listed below.

Resource	Contact Information
DIVA Technical Support	<p>Web Site: https://www.telestream.net/telestream-support/diva/support.htm</p> <p>Depending on the problem severity, we will respond to your request within 24 business hours. For P1, we will respond within 1 hour. Please see the Maintenance & Support Guide for these definitions.</p> <ul style="list-style-type: none"> • Support hours for customers are Monday - Friday, 7am - 6pm local time. • P1 issues for customers are 24/7.
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Enhancements and Updates

Overview

Notes: Read this documentation before installing and using DIVA Core. Telestream has deprecated DIVA Command.

DIVA Release Notes is for administrators familiar with configuring the Telestream DIVA suite of products. It includes information on new and improved features. If you aren't familiar with the DIVA products, Telestream recommends that you review the *DIVA Installation and Configuration Guide*.

Note: Content Conductor - product name for release 9.0 and release 9.1 - has been re-branded to DIVA starting from version 9.2..

Related Documents

For more information, see the DIVA 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>

Restricted Use of Included Oracle Components

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

Installing, Configuring, or Updating DIVA

Contact Telestream Support for assistance installing, updating, or configuring DIVA Core. The Telestream Support contact information can be found on the [Telestream Contact Information](#) page.

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 9.x requires a license. DIVA doesn't start without a valid license in the Core database. Telestream has updated the details of the license and the tool used to create the license. You can import the license as part of the DIVA installer if you create the license before installing DIVA. If DIVA already is installed, you can import a license using the legacy Configuration Utility (although deprecated, it can be used for this sole purpose for DIVA version 9.1), or directly using the DIVA Web App (for DIVA version 9.2 onwards).

In addition to enabling DIVA, the license includes a set of options that are necessary for enabling the associated features in DIVA.

Contact your Telestream sales representative for details on the licensing model.

Security

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

You should determine the acceptable operating system security patch level for your environment. If necessary, contact Telestream Support for assistance in determining operating-system patch-level compatibility.

What's New in DIVA 9.3

This section provides an overview of the delta changes included in this DIVA release.

Embedded Version of MongoDB and Database Schema Changes

When upgrading an existing DIVA server to release version 9.3.0.111 select the following options in the *Choose Components* dialog:

- *Upgrade Metadata Database*: The DIVA Installer provides a new version of MongoDB: version v5.0.27

- *Upgrade Database Schema:* Postgres DIVA has multiple schema changes that need to be applied to an existing older version of DIVA 9.x.

DIVA Analytics Replaces Legacy DIVA Protect

The previous Analytics system used Postgres SQL tables to store and process event, drive, and library logs. This involved lengthy SQL queries and resulted in slower performance as data volume increased. The new Analytics service uses RabbitMQ for messaging and Elasticsearch for data storage and processing. This is more efficient for high-speed statistical analysis.

The DIVA Web App now includes new Analytics Charts in the Troubleshooting section. These charts support data downloads in CSV format and chart exports in PNG format.

BlackPearl Import into DIVA

BlackPearl is an S3 server with LTFS-based back-end storage. Content is stored in a Postgres database and duplicated on each tape as LTFS extended metadata.

Migrating to DIVA involves converting the database catalog, with DIVA reading the BlackPearl tapes directly, so no data migration is needed. The migration supports only tape back-end storage and has been tested with BlackPearl systems containing Avid Interplay clips. Other content types need evaluation for support.

Disk auto-indexing

This feature allows DIVA to synchronize and index the contents of a customer-managed directory by monitoring it as a watch folder. DIVA detects specific file-system operations--such as new, modified, deleted, or renamed files--and indexes the directory's content as AXF object instances. You can then use these objects in DIVA workflows, such as copies, restores, duplications, proxy creation, and metadata extraction.

Supported Functionalities:

- Disk auto-indexing can monitor directories from LOCAL, DISK, or CIFS unmanaged servers.
- Disk auto-indexing can store AXF metadata on disks connected locally or remotely, via SMB.
- For best performance, a dedicated disk array with a single disk is recommended.
- Disks used for auto-indexing can't be used for regular archives, and vice versa.
- Long path names are supported.
- Only SMB 3.0 is supported for network shares.

Migration Service MGS Tape Migration

DIVA 9.3 introduces TAPE migration functionality through three main components: the Migration Service, Manager, and Web App. The Migration Job Endpoints in the MGS REST API facilitate the migration process by allowing a list of tapes to be migrated to a Tape Group. Copying and moving TAPES are both implemented. Each migration task can handle up to 100 tapes. During tape migration, the MGS Service initiates a CopyTape job to the Manager. Each migration request includes a third-party ID that identifies the migration task.

MGS Migration is a licensed feature.

Licensing Changes

During a DIVA upgrade, the installer can't directly import the license. Instead, the license must be configured in the `manager.conf` file. When the manager service starts, it imports the license from `manager.conf`. However, during an upgrade from version 9.1 to 9.3, if there is already an active license from version 9.1, the manager skips importing the new 9.3 license provided by the user, even if it's configured during the upgrade.

If a file renaming operation fails because the renamed file already exists, the manager logs a warning. For example, if the license configured in `manager.conf` is set as `LICENSE_FILE=H:\license_DIVA_9_3_0_61_0.txt`, the manager first checks the signature of any existing active or candidate license. If the signature matches the one configured in `manager.conf`, no license import occurs. If the signatures differ, the manager imports the configured license and renames it to

```
H:\license_DIVA_9_3_0_61_0.txt.imported_by_manager.
```

Proxy Import And Playback Hosting Changes

The proxy import task involves exporting a CSV file containing paths to desired proxies and their object associations, then generating an import task to process this CSV. This method is versatile and can import proxies from any source capable of generating such a CSV. Migration of DIVAView proxies is one of many supported use cases.

LDAP Integration

This feature introduces LDAP authentication into DIVA, allowing users to authenticate against an LDAP server instead of the DIVA database. A single set of settings defines the LDAP configuration:

These settings are configured in the DIVA Web UI under Configuration/User Management/User Accounts, specifically in the *LDAP Configuration* menu.

Note: LDAP authentication must be enabled for this configuration to take effect.

What's New in DIVA 9.2

This section provides an overview of the delta changes included in DIVA release 9.2.

TAPE Scanning for Indexing Objects

The tape scan functionality allows a DIVA user to inspect the content of a tape and create new DIVA objects based on what is discovered. This is useful for importing a foreign LTFS tape and using its content after a two-minute scan.

This feature is implemented in the DIVA Manager module, and does the following for a given tape:

- Mounts a selected tape into a compatible drive
- Scans the content of the tape in order to add new objects or new instances of existing objects

The new objects/instances are available for other operations such as copy, restore, and metadata extraction.

Currently supported features include the following:

- The tape scan supports LTFS formatted tapes (version 2.4.0 or later). LTFS tapes are supported by LTO-5 (and later) drives and later and some recent IBM 3592 drives
- LEGACY, AXF and LTFS AXF tapes are not supported
- Simulated tapes are not supported
- Emulated tapes of SONY ODA and ALTO disk archive are not supported
- FlashNet LTFS tapes are not supported
- Kumulate LTFS tapes are not supported

Encryption with AXF LTFS Tapes

DIVA supports encryption with AXF LTFS. When encryption is enabled, DIVA encrypts the data partition only. The other blocks containing VOL1, LTFS label and LTFS index are not encrypted.

To be able to read an encrypted AXF LTFS tape, using a 3rd party LTFS software, the encryption must be enabled in mixed mode.

Metadata Extraction of Object Attachments Using Tika

Tika Server (Apache Foundation) is a standalone application that hosts an API to extract metadata from a long list of supported file types. In DIVA, it is used in conjunction with the (MDS) Metadata Service. During the attachment upload process of the MDS, Tika server extracts the uploaded files metadata in XML, which is then stored in MongoDB to facilitate the creation of the search index.

Note: This feature was made available in DIVA 9.1 with reduced functionality. Functionality is extended and made officially available in DIVA 9.2.

Metadata Attachment Archiving

The typical workflow for attachments simply uploads the files to be stored in MongoDB. To reduce the overall database size and avoid performance penalties, you may configure the archiving of these attachments.

When configured, DIVA archives attachments that are older than the specified number of hours as objects on a dedicated Attachment Array.

DIVA Web App Enhancements

Telestream has enhanced DIVA health System Services Status to monitor the full list of DIVA modules, as well as third-party components that DIVA relies on. These are:

- Mongo DB
- Elastic Search
- Tika Server

In addition, to add extra searchable items to Objects Metadata, DIVA supports Metadata Tags.

The *Job Property* page is updated live with the status of the DIVA jobs being processed.

Python Version of DivaScript

Telestream developed a new version of DivaScript in python. This supports sending commands via DIVA REST API. You can use it as a scripting-tool replacement for legacy divascript.

DivaScript supports most DIVA commands that are available via the DIVA API. For an exhaustive list, refer to the tool documentation.

What's New in Content Conductor 9.1

This section provides an overview of the delta changes included in this release of Content Conductor.

QOS Prioritization for Archives and Restores

The Quality of Service (QOS) parameter defines how a file is transferred to and from a tape, from a source, or to a destination. The QOS can be specified at a Media level.

Time-based Metadata Support

MDS now supports the addition of markers and segments. This is the back-end implementation for the corresponding features in the Web Management application. All of these types have binary files that are hosted in MongoDB.

Attachment Support

MDS now supports the addition of file attachments, with an upper limit of 100MB per file.

What's New in Content Conductor 9.0.1

This section provides an overview of the delta changes included in this Content Conductor release.

S3 Additional Checksum Verification

In order to provide more checksum verification options, the storage option `-disable_etag_verification` is replaced by `-additional_checksum_verification`.

The implemented values for this new option are:

- none
- md5_as_etag (default value)
- sha256
- sha1
- crc32

Content Conductor 9.0.1 Installer Supports Upgrading from 9.0.0.x and Later

When DB section is selected during an upgrade from 9.0.0.X onwards, Content Conductor installer will upgrade DBAgent and Manager service (if one was installed) 1st, then Manager Service will use DBAgent to upgrade the existing DB Schema to the latest one.

What's New in Content Conductor 9.0.0

This section provides an overview of the delta changes included in this Content Conductor release. There are numerous changes between the previous DIVA 8.3 release and the new Content Conductor 9.0 release as listed in the following sections.

Operating Systems

The initial Content Conductor release supports only Windows. There is no Linux release available at this time. Refer to the Content Conductor Supported Environments Guide in the Content Manager Documentation Library for detailed information.

New Installations Vs. Upgrades

There is an upgrade path from DIVA 8.3.1.41 to Content Conductor 9.0. Customers running a previous version of DIVA can still upgrade to DIVA 8.3 before upgrading to Content Conductor 9.0. There is not a direct path from previous DIVA releases prior to 8.3.

Content Manager Databases

Content Conductor changes the database from Oracle 19 to Postgres 14 and higher. Future releases will continue with the Postgres database.

Content Conductor also relies on MongoDB for MDS and Elastic Search for Metadata searching.

DIVA Web App

This release incorporates all Content Conductor functions into the Web App, and fully deprecates the original Configuration Utility and Control GUI Java-based applications.

The Web App is a browser-based user interface located at the following URL:

`<https://<web_app_ip>>:8765`

Documentation

The documentation for this release has been reworked to provide the readers a clearer understanding of the entire system functionality and include the following changes:

- Various new books have been created using information that was previously included in other books so that the original books were not so large (page-wise).
- All glossaries from the original books have been moved into a single book detailing Architecture, Concepts and Glossaries for the DIVA system.
- A Quick Start Guide has been created to give users an idea of what content is important for them to read and what is not. The items that are important to the reader depends on the reader's role for Content Manager.
- The Installation and Configuration Guide has been restructured to provide better continuity and workflow for installing and configuration Content Manager.

DIVA Windows Services

New DIVA Windows Services have been added to the existing DIVA Windows Services as follows:

- DIVA Proxy: it provides Proxy generation using external Transcode Vantage Workflow and Proxy playing available in the Web App
- DIVA Rosetta
- ElasticSearch integration for Metadata Search and Indexing, available in the DIVA Web App.

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 and DIVA Manager are now called DIVA / Core / Core Manager
- Category is now called Collection
- Source/Destination is now called Unmanaged Storage Repository
- Storage Repository is now called Managed Storage Repository
- 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 Configuration Utility and Control Panel are now called System Management App
- DIVA Analytics and DIVAProtect are now called Analytics App