



Telestream



Analytics App

User Guide

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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 Core 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. |
| Telestream, LLC | <p>Web Site: www.telestream.net</p> <p>Sales and Marketing Email: info@telestream.net</p> <p>Telestream, LLC 848 Gold Flat Road, Suite 1 Nevada City, CA USA 95959</p> |
| International Distributor Support | <p>Web Site: www.telestream.net</p> <p>See the Telestream Web site for your regional authorized Telestream distributor.</p> |
| Telestream Technical Writers | <p>Email: techwriter@telestream.net</p> <p>Share comments about this or other Telestream documents.</p> |

Preface

This book describes installation, configuration, and operation of the Analytics App system. This document is intended for the Telestream Installation Team, System Administrators, and system users.

Topics

- [Documentation Accessibility](#)
- [Access to Telestream Support](#)
- [Related Documents](#)
- [Document Updates](#)

Documentation Accessibility

For information about Telestream's commitment to accessibility, visit the Telestream Support Portal located at:

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

Access to Telestream Support

Telestream customers that have purchased support have access to electronic support through the Telestream Support Portal located at:

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

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>.

For information on Oracle Storage Cloud visit the following links.

For information regarding metered and non-metered accounts:

<http://docs.oracle.com/en/cloud/get-started/subscriptions-cloud/csgsg/>

For up to date Cloud information:

<http://docs.oracle.com/cloud/latest/>

For further assistance:

http://docs.oracle.com/cloud/latest/storagecs_common/index.html

Document Updates

The following table identifies updates made to this document.

| Date | Update |
|----------------|--|
| May 2022 | Updated Copyright information. Updated book for release 8.2. Migrated book to Telestream format Updated terminology to new standards (see the Overview for updated terms) |
| June 2022 | Fixed footnote errors. |
| August 2022 | Minor terminology updates. |
| September 2022 | Minor formatting corrections. Updated terminology and title page graphic. |

Overview

This chapter describes an overview of the Analytics App, new and enhanced features and functionality, and includes the following information:

Topics

- [Analytics App Overview](#)
- [Analytics App Principles of Operation](#)
- [New Terminology](#)
- [New and Enhanced Features and Functionality](#)

Analytics App Overview

The Analytics App is a DIVA Core option that constantly monitors the digital storage infrastructure, and warns about media or tape drive degradation before it results in reduced performance or possible data loss. The Analytics App provides long term content protection, management, and security to DIVA Core.

The Analytics App features include:

- Continuous monitoring of tape drives and media
- Complete history of drive and media performance
- Full integration with DIVA Core
- Detailed Performance Analysis
- Preventive and corrective maintenance aid
- System Journal
- System Metrics

The Analytics App gives you information regarding current and past performance numbers for various system components. You can use the information to project present and future system requirements based on various premises, and plan for appropriate system evolutions.

The Analytics App collects quality and performance data in real time within the archive environment. You can use the information as an aid for selective migration of content, recycling of defective media, preventative hardware maintenance, network and storage system integrity, and content availability.

The Analytics App performs the following tasks:

- Gather operational facts from the following sources:
 - DIVA Core System (software components and equipment)
 - Platforms (servers and operating system)
 - Exchanged Data
- Process operational facts into metrics by sampling, filtering, normalizing, counting, and aggregating data.
- Maintain a view of the system's current and past performance.
- Collect and verify checksum data to expose disk and tape errors, and report Disk, Tape, and Server failures.
- Assist in managing large volumes of data.
- Provide billing data for customers offering DIVA Core as a service to other customers.
- Predict operational conditions of interest (for example, end of life of a tape or a drive).
- Provide low-level diagnostic information to assist support staff investigations.

- Answer a broad range of questions about:
 - Optimal performance (what can the system deliver in an optimal context?).
 - Current performance (is the system performing at its best?).
- Causes of the current state. That is, what led to the current state. For example, how did so many tapes get consumed in the last month?
- History (for example, evolution of the capacity, throughput, activity, and so on).
- Possible solutions or adjustments (for example, what needs fixing or relocation, what should be replaced, what should be reconfigured, and so on).
- What If scenarios (that is, what is the impact of a proposed change in the system, capacity planning, and so on).
- Use of the system at various levels (DIVA Core system, DIVA Core component, request type, tape, library, tape drive, disk, Collection, and so on) as a basis for billing (that is, who, what, when, how much, how many, how long).

Analytics App Principles of Operation

The primary purpose of the Analytics App is to collect operational data generated by activity in the archive system (Archive, Restore, Copy, Insert Tapes, and so on). Each activity generates events, for example, a TAPE READ or a DELETE INSTANCE. Events are collected in real time and stored in the database.

Each event has various information attached to it. For example, the size of a transfer, its duration, the Actor used, and so on. These are referred to as Event Parameters.

Metrics are generated and updated by processing event parameters using background Requests scheduled every hour. You can break down (AGGREGATE) event data according to various resources or attributes (for example, Virtual Object name, tape barcode, storage device, and so on), and per hour, day, week, month, or year interval. You can also use no interval to collect a lifetime metric. Various aggregation functions are provided; for example, Count, Sum, and Average.

For example, the TAPE_DRIVE_READ_WRITE_DAY built-in metric sums the transfer sizes of TAPE READ and TAPE WRITE events and breaks down the values per device, and per day.

The Analytics App supports additional data retrieval such as DIVA Core Resource Statistics and Quick Response Data (QRD), detailed in the [Collecting Quick Response Data \(QRD\)](#) section. This data is processed separately and is not available in Metric Definitions.

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

New and Enhanced Features and Functionality

This section describes new and enhanced features and functionality. These changes became effective in the DIVA Core 7.5 release.

Events

The Analytics App Archive, Copy, Copy As, Restore, and Partial File Restore request events will populate the Transfer Size and Duration fields.

The ANALYZE_END and ANALYZE_ERR events were removed from the predefined Analytics App events.

Metrics

To standardize the Metric ID across all DIVA Core installations, all predefined metrics have a hard-coded Metric ID instead of using a database sequence. All user defined metrics start with Metric ID 1001. The database upgrade scripts handle this migration for you during upgrades from DIVA Core 7.4 to release 8.0. If you already had any user-defined metrics, they are automatically assigned a new Metric ID starting with 1001.

The following pre-defined metrics were removed in DIVA Core 7.5. However, there is no impact for earlier releases and customers currently using them; those metrics will continue to exist, update, and are not removed during the upgrade process to the 8.0 release. This only affects new installations of DIVA Core 7.6 and later.

- ANALYZE_NUMBER_DAY
- ANALYZE_NUMBER
- ANALYZE_ABORTED_NUMBER_DAY
- ANALYZE_ABORTED_NUMBER
- ANALYZE_DATA_DAY
- ANALYZE_DATA
- ANALYZE_AVG_THROUGHPUT_DAY
- ANALYZE_AVG_THROUGHPUT
- ANALYZE_MIN_THROUGHPUT_DAY
- ANALYZE_MIN_THROUGHPUT
- ANALYZE_MAX_THROUGHPUT_DAY
- ANALYZE_MAX_THROUGHPUT
- ANALYZE_TIME_DAY
- ANALYZE_TIME
- MEDIA_OBJECT_INSTANCE_CREATE_DELETE_DAY
- MEDIA_OBJECT_INSTANCE_CREATE_DELETE

New Predefined Metrics

The following predefined metrics were added in the DIVA Core 7.5 release. See Metric Definitions for a complete list.

- ACTOR_READ_WRITE_MONTH
- ACTOR_READ_WRITE_NUMBER_MONTH
- ACTOR_TIME_ALL_OPERATION_MONTH
- ACTOR_TIME_READ_MONTH
- ACTOR_TIME_WRITE_MONTH
- DISK_AVG_TRANSFER_RATE_READ_MONTH
- DISK_AVG_TRANSFER_RATE_WRITE_MONTH
- DISK_CHECKSUM_FAILURE_COUNT_MONTH
- DISK_NUMBER_READ_ABORTED_MONTH
- DISK_NUMBER_READ_MONTH
- DISK_NUMBER_WRITE_ABORTED_MONTH
- DISK_NUMBER_WRITE_MONTH
- DISK_READ_MONTH
- DISK_TIME_ALL_OPERATION_MONTH
- DISK_TIME_READ_MONTH
- DISK_TIME_WRITE_MONTH
- DISK_WRITE_MONTH
- DIVA_CORE_SYSTEM_ACTIVE_ARCHIVE_NUMBER_MONTH
- DIVA_CORE_SYSTEM_ACTIVE_COPY_AS_NUMBER_MONTH
- DIVA_CORE_SYSTEM_ACTIVE_COPY_NUMBER_MONTH
- DIVA_CORE_SYSTEM_ACTIVE_RESTORE_NUMBER_MONTH
- DIVA_CORE_SYSTEM_AVG_READ_WRITE_NUMBER_MONTH
- DIVA_CORE_SYSTEM_NUMBER_OBJECT_ARCHIVE_MONTH
- DIVA_CORE_SYSTEM_NUMBER_OBJECT_CREATED_MONTH
- DIVA_CORE_SYSTEM_NUMBER_OBJECT_DELETED_MONTH
- DIVA_CORE_SYSTEM_NUMBER_OBJECT_INSTANCE_COPY_MONTH
- DIVA_CORE_SYSTEM_NUMBER_OBJECT_INSTANCE_CREATED_MONTH
- DIVA_CORE_SYSTEM_NUMBER_OBJECT_INSTANCE_DELETED_MONTH
- DIVA_CORE_SYSTEM_NUMBER_OBJECT_RESTORE_MONTH
- DIVA_CORE_SYSTEM_OBJECT_EXPORT_NUMBER_MONTH
- DIVA_CORE_SYSTEM_OBJECT_IMPORT_NUMBER_MONTH
- DIVA_CORE_SYSTEM_OBJECT_INSTANCE_EXPORT_NUMBER_MONTH

- DIVA_CORE_SYSTEM_OBJECT_INSTANCE_IMPORT_NUMBER_MONTH
- DIVA_CORE_SYSTEM_READ_WRITE_ABORTED_NUMBER_MONTH
- DIVA_CORE_SYSTEM_READ_WRITE_MONTH
- DIVA_CORE_SYSTEM_READ_WRITE_NUMBER_MONTH
- MEDIA_ARCHIVED_OBJECT_DATASIZE_MONTH
- MEDIA_DATA_SIZE_DAY
- MEDIA_DATA_SIZE_MONTH
- MEDIA_OBJECT_INSTANCE_EXTERN_MONTH
- MEDIA_OBJECT_INSTANCE_ONLINE_MONTH
- MEDIA_READ_WRITE_MONTH
- MEDIA_READ_WRITE_NUMBER_MONTH
- MEDIA_RESTORE_OBJECT_DATASIZE_MONTH
- MEDIA_TAPE_EXPORT_NUMBER_MONTH
- MEDIA_TAPE_IMPORT_NUMBER_MONTH
- SD_ARCHIVE_OBJECT_DATASIZE_MONTH
- SD_READ_MONTH
- SD_READ_NUMBER_MONTH
- SD_RESTORE_OBJECT_DATASIZE_MONTH
- SD_TIME_MONTH
- SD_WRITE_MONTH
- SD_WRITE_NUMBER_MONTH
- TAPE_DRIVE_DATA_RATE_MONTH
- TAPE_DRIVE_ERROR_RATE_MONTH
- TAPE_DRIVE_NUMBER_READ_WRITE_ABORTED_MONTH
- TAPE_DRIVE_OPERATION_TOTAL_TIME_MONTH
- TAPE_DRIVE_READ_WRITE_MONTH
- TAPE_DRIVE_READ_WRITER_NUMBER_MONTH
- TAPE_DRIVE_TIME_ALL_OPERATION_MONTH
- TAPE_DRIVE_TIME_READ_MONTH
- TAPE_DRIVE_TIME_WRITE_MONTH
- TAPE_LIBRARY_NUMBER_DISMOUNT_ABORTED_MONTH
- TAPE_LIBRARY_NUMBER_MOUNT_ABORTED_MONTH
- TAPE_LIBRARY_NUMBER_MOUNT_MONTH
- TAPE_LIBRARY_NUMBER_READ_MONTH
- TAPE_LIBRARY_NUMBER_WRITE_MONTH

- TAPE_LIBRARY_READ_MONTH
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- TRANSCODE_DATA_MONTH
- TRANSCODE_NUMBER_MONTH
- TRANSCODE_TIME_MONTH
- MEDIA_OBJECT_INSTANCE_CREATE_DAY
- MEDIA_OBJECT_INSTANCE_DELETE_DAY
- MEDIA_OBJECT_INSTANCE_CREATE
- MEDIA_OBJECT_INSTANCE_DELETE
- MEDIA_OBJECT_INSTANCE_CREATE_MONTH
- MEDIA_OBJECT_INSTANCE_DELETE_MONTH
- MEDIA_OBJECT_INSTANCE_EXTERN_DATASIZE_DAY
- MEDIA_OBJECT_INSTANCE_EXTERN_DATASIZE_MONTH
- MEDIA_OBJECT_INSTANCE_ONLINE_DATASIZE_DAY

Configuration

This chapter describes the Analytics App configuration, and includes the following information:

Topics

- [Main Configuration](#)
- [Configuring Analytics App Events and Metrics](#)

Main Configuration

You must perform the main configuration tasks described in this section. You configure the Analytics App on the Analytics App tab in the System Management App.

Note: Some configuration options require logging in with the Engineer user account, which is reserved for Telestream Support.

Configure the following options, contacting Telestream Support as necessary:

- **System Management App GUI: Enable/Disable Analytics App Configuration**
This option enables you to view the Analytics App panel in the System Management App. The Engineer log in is required to modify this parameter; contact Telestream Support.
- **DB: Maximum Possible History of Events in Months**
This option identifies the maximum number of events that can be stored in the system. After this number is exceeded, the Analytics App removes the oldest entries using an automated database Request that executes every hour.
- **DB: Maximum Possible Number of Metrics**
This option identifies the maximum number of metrics that can be stored in the system. After this number is exceeded, the Analytics App removes the oldest entries using an automated database Request that executes once per day, every day.
- **DIVA Core: Enable/Disable Analytics App Data Collection**
This option enables or disables the Analytics App Data Collection. The Engineer log in is required to modify this parameter; contact Telestream Support.
- **DIVA Core: Size Triggering Event Queue DB flush (nb events)**
This option identifies the number of events collected and stored in memory before saving them to the database.
- **DIVA Core: Time Delay Triggering Event Queue DB flush (seconds)**
This option identifies the maximum time interval for saving events to the database. If this interval is reached before the Size Triggering parameter is reached, the events are saved to the database regardless of how many have been collected.

Analytics App Resources

The System Management App includes configuration elements specific to the Analytics App as follows:

- **Tape Drives**
You edit the drive serial number in the Drive Edit dialog box. This is useful if the information was either not retrieved, or entered improperly, during a Sync DB process. The firmware of the drive is displayed in a uneditable field. The firmware infor-

mation is obtained from the Actors when they scan for tape drive devices. You can view this information in the System Management App.

- Actors

The Actors panel in the System Management App displays the First Utilization Date in a uneditable field. There is no additional Analytics App configuration necessary for the Actors.

- Managed Storage

The Managed Storage panel in the System Management App includes an editable Name field to enter (or edit) the library description, and a uneditable First Utilization Date field. There is no additional Analytics App configuration necessary for the Managed Storage.

Configuring Analytics App Events and Metrics

The Event Definitions panel displays the list of event definitions available for use in the metrics. Event definitions are factory set and cannot be modified. See [Event Definitions](#) for a list of predefined event definitions.

You can double-click an event definition to display a dialog box listing its associated parameters.

The Metric Definitions panel lists the available metrics. Built-in metrics (DIVAPROTECT* metrics) cannot be edited, and therefore do not appear in the Metric Definitions panel. See [Metric Definitions](#) for a list of predefined metric definitions.

You can double-click a [Metric Definition](#) to display an edit dialog box where you can examine or modify the metric. This has the same effect as selecting a metric in the list, and then clicking the Edit button. The + and - buttons allow adding or deleting a metric.

You can enter a description of the metric in the Description field that is displayed next to the Metric Name in the Metric Definitions panel. The description is also displayed in the System Management App when you pause your mouse over an entry in the Metric Definition menu list.

The Enabled check box enables (selected) or disables (deselected) data collection for the metric.

The Collection Type fields specify which event parameter (for example, Transfer Size) is collected as the data, and the statistical computation operated on it (for example, Sum). The available statistics are as follows:

- Average
- Count
- Maximum
- Minimum
- Sum
- Weight Based Average

The Weighted By field specifies the divider parameter for Weight Based Average collection (for example, Duration).

The Collected Event list specifies the events from which the collected event parameter is retrieved. The list only displays event types suitable for the parameter specified in the second field for the Collection Type. Event types with no such parameter attached are absent from the listing.

The Resource menu list specifies which resource to use to break down the data. For example, if you select Drive Serial Number, the Analytics App generates separate metrics for each drive.

The Interval field specifies the interval for metric calculation. For example, selecting 1 Day generates a metric daily (if corresponding data is available). The metric calculation is based on the associated events that occurred in the last 24 hours.

Sample Metric Configuration

This is a sample configuration procedure to create your own metric that captures the average duration of read and write operations on a tape in a DIVA Core system. You use the following procedure to capture this data:

1. Open the System Management App and navigate to the Analytics App tab.
2. Locate the Metric Definitions panel and click + to begin adding a new metric.
The Metric Definition dialog box is displayed.
3. Enter a unique name for the metric in the Name field. For example, `ACTOR_READ_WRITE_ABORTED_NUMBER_SD`.
4. Add a description in the Description field, and then enable it by selecting the Enabled check box.
5. Set both Collection Type fields, and the Weighted By field as appropriate.
If you select Weight Based Average in the first list for the Collection Type, it enables the Weighted By field. You must then select a value to weigh the metric definition. The values for the Weighted By field are identical to those in the second Collection Type field (for example, Event ID).
6. Select the events to collect using the Collected Event check boxes.
7. Use the menu list top select the Aggregation Resource type.
8. You can use the menu list to set the Aggregation Interval, but it can be left at the default (one hour).
9. Click OK to complete the process.

Operations

The Analytics App module is an analytical and monitoring option integrated into the DIVA Core Suite, bringing long-term content protection, management, and security to DIVA Core systems. Analytics App includes reporting through the Journal using various metrics as described in the following sections. The following operational information is included in this chapter:

Topics

- [Collecting Operational Events](#)
- [Collecting Hardware Resource Statistics](#)
- [Collecting Quick Response Data \(QRD\)](#)
- [Collecting Drive and Managed Storage Alert Logs](#)
- [Collecting and Calculating Metrics](#)
- [Monitoring Use and Statistics in the GUI](#)
- [Tracking Checksum Error Events in the Analytics App Journal](#)

Collecting Operational Events

Operational events are the primary events collected by the Analytics App. The following three tables identify event fields and the types of events associated with them. There are three tables only due to the amount of entries. Locate the desired field on the top row of the table, and then follow down the column to identify which events are valid for the selected field.

| Event | Event Type | Tape Type | Tape Barcode | Drive Type | Drive Name | Disk Name | Drive Serial Number | Library Serial Number | SD Name | Actor Name |
|-----------------------------|------------|-----------|--------------|------------|------------|-----------|---------------------|-----------------------|---------|------------|
| TAPE_INSERT | Yes | Yes | Yes | | | | | Yes | | |
| TAPE_INSERT_ERR | Yes | | | | | | | Yes | | |
| TAPE_MOUNT | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_MOUNT_ERR | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_POSITION | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_POSITION_ERR | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_READ | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_READ_ERR | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_WRITE | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_WRITE_ERR | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| DISK_READ ¹ | Yes | | | | | Yes | | | | Yes |
| DISK_READ_ERR ¹ | Yes | | | | | Yes | | | | Yes |
| DISK_WRITE ¹ | Yes | | | | | Yes | | | | Yes |
| DISK_WRITE_ERR ¹ | Yes | | | | | Yes | | | | Yes |
| SD_READ | Yes | | | | | | | | Yes | Yes |
| SD_READ_ERR | Yes | | | | | | | | Yes | Yes |
| SD_WRITE | Yes | | | | | | | | Yes | Yes |
| SD_WRITE_ERR | Yes | | | | | | | | Yes | Yes |
| TAPE_UNLOAD | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_UNLOAD_ERR | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_DISMOUNT | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | |
| TAPE_DISMOUNT_ERR | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | |
| TAPE_EJECT | Yes | Yes | Yes | | | | | Yes | | |
| TAPE_EJECT_ERR | Yes | Yes | Yes | | | | | Yes | | |
| END_OF_TAPE | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| TAPE_REPACK | Yes | | | | | | | Yes | | |
| ARCHIVE_REQUEST | Yes | | | | | | | | Yes | |
| COPY_REQUEST | Yes | | | | | | | | | |

| Event | Event Type | Tape Type | Tape Barcode | Drive Type | Drive Name | Disk Name | Drive Serial Number | Library Serial Number | SD Name | Actor Name |
|--------------------------------|------------|-----------|--------------|------------|------------|-----------|---------------------|-----------------------|---------|------------|
| COPY_AS_REQUEST (to new) | Yes | | | | | | | | | |
| CREATE_INSTANCE | Yes | | | | | | | | | |
| RESTORE and PARTIAL_RESTORE | Yes | | | | | | | | Yes | |
| DELETE_OBJECT | Yes | | | | | | | | | |
| DELETE_INSTANCE | Yes | | | | | | | | | |
| TRANSCODE_END | Yes | | | | | | | | | Yes |
| TRANSCODE_ERR | Yes | | | | | | | | | Yes |
| STOPPED_ON_CANCEL | Yes | | | | | | | | | |
| CHECKSUM_ERROR_TA PE | Yes | Yes | Yes | Yes | Yes | | Yes | Yes | | Yes |
| CHECKSUM_ERROR_DIS K | Yes | | | | | Yes | | | | Yes |
| CHECKSUM_ERROR_SD | Yes | | | | | | | | Yes | Yes |
| TAPE_IMPORT | Yes | | Yes | | | | | | | |
| TAPE_EXPORT | Yes | | Yes | | | | | | | |

1. The transcoder work directory is not a DIVA Core disk. No DISK READ or DISK WRITE events are created when accessing this directory.

The presence of Optional in the following table indicates that it is optional. New Instance IDs are only generated after the final write to the destination media. Instance ID is not available in the following cases:

- Temporary instances created in cache disk by an Archive request
- SD READ or SD WRITE during the transcode phase of an archive when transferring to or from the transcoder work directory
- Cache DISK READ or DISK WRITE when performing a tape to tape Copy request
- Tape positioning before a tape write (Archive request)
- End Of Tape (EOT exception) encountered during an Archive request

| Event | Virtual Object Name ¹ | Virtual Object Collection ¹ | Virtual Object Instance ¹ | Media (Tape Group or Array) | Request ID | Event End Time | Event Duration | Transfer Size | Transfer Rate |
|-----------------------------|----------------------------------|--|--------------------------------------|-----------------------------|------------|----------------|----------------|---------------|---------------|
| TAPE_INSERT | | | | | | Yes | Yes | | |
| TAPE_INSERT_ERR | | | | Yes | | Yes | | | |
| TAPE_MOUNT | | | | Yes | | Yes | Yes | | |
| TAPE_MOUNT_ERR | | | | Yes | | Yes | | | |
| TAPE_POSITION | Yes | Yes | Optional | Yes | Yes | Yes | Yes | | |
| TAPE_POSITION_ERR | Yes | Yes | Optional | Yes | Yes | Yes | | | |
| TAPE_READ | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TAPE_READ_ERR | Yes | Yes | Yes | Yes | Yes | Yes | | Yes | |
| TAPE_WRITE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes |
| TAPE_WRITE_ERR | Yes | Yes | | Yes | Yes | Yes | | Yes | |
| DISK_READ ² | Yes | Yes | Optional | Yes | Yes | Yes | Yes | Yes | Yes |
| DISK_READ_ERR ² | Yes | Yes | Optional | Yes | Yes | Yes | | Yes | |
| DISK_WRITE ² | Yes | Yes | Optional | Yes | Yes | Yes | Yes | Yes | Yes |
| DISK_WRITE_ERR ² | Yes | Yes | | Yes | Yes | Yes | | Yes | |
| SD_READ | Yes | Yes | Optional | | Yes | Yes | Yes | Yes | Yes |
| SD_READ_ERR | Yes | Yes | Optional | | Yes | Yes | | Yes | |
| SD_WRITE | Yes | Yes | Optional | | Yes | Yes | Yes | Yes | Yes |
| SD_WRITE_ERR | Yes | Yes | | | Yes | Yes | | Yes | |
| TAPE_UNLOAD | | | | Yes | | Yes | Yes | | |
| TAPE_UNLOAD_ERR | | | | Yes | | Yes | | | |
| TAPE_DISMOUNT | | | | Yes | | Yes | Yes | | |
| TAPE_DISMOUNT_ERR | | | | Yes | | Yes | | | |
| TAPE_EJECT | | | | | | Yes | Yes | | |
| TAPE_EJECT_ERR | | | | | | Yes | | | |

| Event | Virtual Object Name ¹ | Virtual Object Collection ¹ | Virtual Object Instance ¹ | Media (Tape Group or Array) | Request ID | Event End Time | Event Duration | Transfer Size | Transfer Rate |
|-----------------------------|----------------------------------|--|--------------------------------------|-----------------------------|------------|----------------|----------------|---------------|---------------|
| END_OF_TAPE | Yes | Yes | Optional | Yes | Yes | Yes | | | |
| TAPE_REPACK | | | | | Yes | Yes | | | |
| ARCHIVE_REQUEST | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | |
| COPY_REQUEST | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | |
| COPY_AS_REQUEST (to new) | Yes | Yes | | Yes | Yes | Yes | Yes | Yes | |
| CREATE_INSTANCE | Yes | | Yes | Yes | Yes | Yes | | Yes | |
| RESTORE and PARTIAL_RESTORE | Yes | Yes | Yes | Yes | Yes | Yes | Yes | Yes | |
| DELETE_OBJECT | Yes | Yes | | | Yes | Yes | | | |
| DELETE_INSTANCE | Yes | Yes | Yes | Yes | Yes | Yes | | Yes | |
| TRANSCODE_END | Yes | Yes | Yes | | Yes | Yes | Yes | Yes | Yes |
| TRANSCODE_ERROR | Yes | Yes | Yes | | Yes | Yes | | | |
| STOPPED_ON_CANCEL | Yes | Yes | | | Yes | Yes | | | |
| CHECKSUM_ERROR_TAPE | Yes | Yes | Optional | Yes | Yes | Yes | | | |
| CHECKSUM_ERROR_DISK | Yes | Yes | Optional | Yes | Yes | Yes | | | |
| CHECKSUM_ERROR_SD | Yes | Yes | Optional | | Yes | Yes | | | |
| TAPE_IMPORT | | | | Yes | | Yes | | | |
| TAPE_EXPORT | | | | Yes | Yes | Yes | | | |

1. Virtual Object information is not provided for Repack requests.
2. The transcoder work directory is not a DIVA Core disk. No DISK READ or DISK WRITE events are created when accessing this directory.

| Event | Transfer Error Rate | Error Code | Error Message | Transcoder or Analyzer Name | Number of Archive Operations | Data Size |
|--------------------------------|---------------------|------------|---------------|-----------------------------|------------------------------|-----------|
| TAPE_INSERT | | | | | | |
| TAPE_INSERT_ERR | | Yes | Yes | | | |
| TAPE_MOUNT | | | | | | |
| TAPE_MOUNT_ERR | | Yes | Yes | | | |
| TAPE_POSITION | | | | | | |
| TAPE_POSITION_ERR | | Yes | Yes | | | |
| TAPE_READ | Yes | | | | | |
| TAPE_READ_ERR | | Yes | Yes | | | |
| TAPE_WRITE | Yes | | | | | |
| TAPE_WRITE_ERR | | Yes | Yes | | | |
| DISK_READ ¹ | | | | | | |
| DISK_READ_ERR ¹ | | Yes | Yes | | | |
| DISK_WRITE ¹ | | | | | | |
| DISK_WRITE_ERR ¹ | | Yes | Yes | | | |
| SD_READ | | | | | | |
| SD_READ_ERR | | Yes | Yes | | | |
| SD_WRITE | | | | | | |
| SD_WRITE_ERR | | Yes | Yes | | | |
| TAPE_UNLOAD | | | | | | |
| TAPE_UNLOAD_ERR | | Yes | Yes | | | |
| TAPE_DISMOUNT | | | | | | |
| TAPE_DISMOUNT_ERR | | Yes | Yes | | | |
| TAPE_EJECT | | | | | | |
| TAPE_EJECT_ERR | | Yes | Yes | | | |
| END_OF_TAPE | | | | | | |
| TAPE_REPACK | | | | | | |
| ARCHIVE_REQUEST | | | | | Yes | |
| COPY_REQUEST | | | | | Yes | |
| COPY_AS_REQUEST (to new) | | | | | Yes | |
| CREATE_INSTANCE | | | | | | |
| RESTORE and PARTIAL_RESTORE | | | | | Yes | |
| DELETE_OBJECT | | | | | | |
| DELETE_INSTANCE | | | | | | |

| Event | Transfer Error Rate | Error Code | Error Message | Transcoder or Analyzer Name | Number of Archive Operations | Data Size |
|---------------------|---------------------|------------|---------------|-----------------------------|------------------------------|-----------|
| TRANSCODE_END | | | | Yes | | |
| TRANSCODE_ERR | | Yes | Yes | Yes | | |
| STOPPED_ON_CANCEL | | | | | | |
| CHECKSUM_ERROR_TAPE | | | | | | |
| CHECKSUM_ERROR_DISK | | | | | | |
| CHECKSUM_ERROR_SD | | | | | | |
| TAPE_IMPORT | | | | | | Yes |
| TAPE_EXPORT | | | | | | Yes |

1. The transcoder work directory is not a DIVA Core disk. No DISK READ or DISK WRITE events are created when accessing this directory.

Collecting Hardware Resource Statistics

The Analytics App collects hardware information from the tape drives and direct-attached Managed Storage sent by the Actors. Managed Storage information is unavailable if a Managed Storage Server is used instead of direct-attached Managed Storage. The information, called Resource Statistics, is updated in real time in the Analytics App. The information is populated in the Drive Alert and Library Alert logs, and updates the tape drive's firmware information in the DIVA Core database. These special events are not available for use in Metric Definitions.

The following table lists the data sent by the Actors for each Quick Response Event type:

| Event | Clean Alert ¹ | Tension Alert ² | Drive Alert | Drive Firmware | Library Alert |
|-----------------------------|--------------------------|----------------------------|-------------|----------------|---------------|
| Time-stamp | X | X | X | X | X |
| Event ID | X | X | X | X | X |
| Request ID | | | X | | |
| Drive Serial Num | X | X | X | | |
| Library Serial Num | | | | | X |
| Tape Name (barcode) | | X | X | | |
| Tape Type | | X | | | |
| Alert Log List ³ | | | X | | X |
| Drive List ⁴ | | | | X | |

1. The Actor issues Clean Alerts when a drive indicates it needs cleaning. These alerts are typically trapped by the library, or the library server, and the cleaning process is handled by those components. For this reason, DIVA Core does not include a drive cleaning mechanism.
2. The Actor issues a Tension Alert when a drive indicates it requires re-tensioning.
3. The Alert Log List is a variable length list of tape drive or library alerts. Each alert includes a parameter, a severity, and a text message.
4. The Drive List is a variable length list of drive information Virtual Objects. Each information Virtual Object includes the Serial Number, Drive Name, and Firmware Release level. The Firmware Release level is saved in the database.

Collecting Quick Response Data (QRD)

The Analytics App maintains a set of statistics about the archive system resources called Quick Response Data (QRD). QRD is not based on events, it is calculated from information available in the DIVA Core database, and updated every hour through an automated database Request.

The following is a list of the QRD available, listed by resource:

Actors, Transcoders, and Analyzers

The QRD collected for these resources is the First Utilization Date.

Arrays

The QRD collected for arrays is as follows:

- Total used space - this is the exact sum of used space across all disks in the array, both online and offline.
- Total online Virtual Object used space
- Total externalized (offline) Virtual Object used space

Disks

The QRD collected for disks is as follows:

- First Utilization Date
- Last Access, Last Read, and Last Write dates

Tape Groups

The QRD collected for Tape Groups is as follows:

- Total used space - this is the exact sum of used space across all disks in the array, both online and offline.
- Total online Virtual Object used space
- Total externalized (offline) Virtual Object used space

Managed Storage

The QRD collected for Managed Storage is as follows:

Note: Currently, a tape is considered offline only when it is ejected. After a tape is ejected it is not considered as part of the library.

- First Utilization Date
- Total number of tapes
- Total number of Nearline (online) tapes
- Total number of offline tapes

- Total number of blank tapes
- Total number of non-writable (write protected) tapes
- Total data stored in library
- Total data stored Nearline (online)
- Total data stored offline
- Total storage capacity (online and offline total)
- Total Nearline (online) capacity
- Total offline capacity
- Total free space capacity (online and offline total)
- Total number of Virtual Objects archived to the tapes in the associated library
- Total number of Virtual Objects Nearline (online)
- Total number of Virtual Objects offline

Media

The QRD collected for media is as follows:

- First utilization Date
- Last Utilization Date
- Used space - this is the sum of offline and online instance sizes.

Virtual Objects

The QRD collected for Virtual Objects is the Last Read Date.

Virtual Object Instances

The QRD collected for Virtual Object instances is the Last Verify Date.

System

The QRD collected for the system is the First Use Date.

Server

The QRD collected for Servers is the First utilization Date.

Tapes

The QRD collected for tapes is as follows:

- First Insertion Date - this is the date it first appeared in the system.
- First Utilization Date - this is the date it was first mounted.

Collecting Drive and Managed Storage Alert Logs

Drive and Managed Storage Alert Logs contain a history of the codes that have been generated by the hardware. The Actors read the codes during normal operation. The information is saved to the database whenever reported by the hardware.

The following table is an extract of the Sony SAIT-1 Tape Drive Specification. Refer to your manufacturer's manual for your particular hardware.

| Code | Flag | Type | Client Message |
|------|---------------|----------|---|
| 01h | Read Warning | Warning | The drive is having problems reading data. No data has been lost, but there has been a reduction in the performance of the medium. |
| 02h | Write Warning | Warning | The drive is having problems writing data. No data has been lost, but there has been a reduction in the capacity of the volume. |
| 03h | Hard Error | Warning | The operation has stopped because an error has occurred while reading or writing data, which the drive cannot correct. |
| 04h | Media | Critical | Your data is at risk: <ol style="list-style-type: none"> 1. Copy any data you require from this cartridge. 2. Do not use this tape again. 3. Restart the operation with a different cartridge. |

Collecting and Calculating Metrics

This section describes how metrics are collected and calculated.

Calculating Metrics Based on Operations Events

Metrics are calculated and updated every hour by an automated database Request running in the background. Each metric's calculation is based on a selection of Event Types (for example, SD READ, SD WRITE) from which a common event parameter is extracted (for example, Transfer Size), and processed by a statistical operation (for example, Sum). The metric takes into account events collected over a particular interval that depend on the Metric Type:

- Hourly
- Daily
- Monthly
- Yearly
- Lifetime

A Metric is calculated based on associated events that occurred within the previous hour. If none of the associated events occurred, the metric is not calculated nor updated. If some associated events occurred, the metric is calculated or updated. All of the Metric Types are based upon these hourly calculations.

For example, if an associated event occurs at 10:00 AM on February 1st, 2017 the following Metrics (if they are defined) will be calculated or updated:

- 10:00 AM Hourly Metric
- 2/1/2017 Daily Metric
- February 2017 Monthly Metric
- 2017 Yearly Metric
- Lifetime Metric

The following is a list of collection types:

- Sum Collection Type
This collection type calculates a metric by adding event parameter values.
- Count Collection Type
This collection type calculates a metric by counting event parameter values.
- Minimum Collection Type
This collection type calculates a metric using the minimum event parameter value.
- Maximum Collection Type
This collection type calculates a metric using the maximum event parameter value.

- **Average Collection Type**
This collection type calculates a metric by averaging the event parameter values.
- **Weight Base Average Collection Type**
This collection type calculates a metric by dividing the sum of the event parameter values by a weight factor, in contrast to the standard average calculation being divided by the count of event parameter values. Metrics configured with this collection type must specify a weight factor, otherwise the following error is generated:
`ORA-20200 Weight Factor to calculate Weight based average is not mentioned.`

The following is a sample Weight Based Average calculation:

Metric Name

DIVA_CORE_SYSTEM_AVG_READ_WRITE_DAY

Collection Type

Weight Based Average

Collection Field

Transfer Size

Weight Factor

Duration

Calculation for Hourly Metrics

SIZE (SUM of Transfer Size) / TIME (SUM of Transfer Duration) = V (Velocity)

Calculation for Day, Month, Year and Lifetime Metrics

SUM (Velocity * Time) / SUM (Time)

Calculating Built-in Metrics

The Analytics App comes with built-in metrics that do not appear in the System Management App, and cannot be edited. The built-in metrics are available in the System Management App with the standard ones. Built-in metrics names all start with DIVAPROTECT. The following are several of the built-in metrics. In each example, the first command is for daily counts, and the second command is for lifetime counts.

How many times was the Analytics App executed?

The following metrics count how many times the Analytics App has been executed. They update each time the Analytics App runs the hourly database Request.

[DIVAPROTECT_EXECUTION_COUNT_DAY](#)
[DIVAPROTECT_EXECUTION_COUNT](#)

How many events did the Analytics App process?

The following metrics count how many events the Analytics App has processed while calculating metrics. They are updated each time the Analytics App processes an event.

[DIVAPROTECT_EVENTS_PROCESSED_DAY](#)
[DIVAPROTECT_EVENTS_PROCESSED](#)

How many metrics did the Analytics App process?

This defines how many metrics the Analytics App has calculated or updated. These metric values are updated each time a metric is calculated or updated in the DIVA Core system.

[DIVAPROTECT_METRIC_PROCESSED_DAY](#)
[DIVAPROTECT_METRIC_PROCESSED](#)

What is the number of the Analytics App internal errors?

The following metrics count the total number of the Analytics App errors that have occurred while calculating or updating a metric. They are updated each time an error occurs.

[DIVAPROTECT_INTERNAL_ERROR_DAY](#)
[DIVAPROTECT_INTERNAL_ERROR](#)

Monitoring Use and Statistics in the GUI

You can view the Analytics App Journal and Metrics through the System Management App. Click the appropriate icon under the Analytics tab to display either the Journal View or Metrics View.

System Events (Journal)

The Analytics App metrics are continually gathered and written to a temporary table in the database. Once per hour the metrics are removed from the temporary table and committed to a permanent table.

The Journal View provides a set of filters to narrow down data retrieval, and a list view for the retrieved information. You can filter by Event Definition, Drive Serial Number, Begin Date/Time, End Date/Time, and enter search keywords into the appropriate fields.

You can search for a particular Barcode, Actor Name, Server, Virtual Object Collection, Virtual Object Instance Number, Error Code (including warnings, errors, and so on) and Error Message. You click Refresh on the top right of the display to apply your filters and perform the search.

To disable a filter, you can enter the wildcard character (an asterisk) for a text field, select the ALL value in a menu list, or deselect the check box to disable date and time filtering.

You can recall a previously used set of filters using the Previous Queries list (located in the lower right corner of the Journal view). The menu list remembers the last 10 used filter sets.

The Journal view uses a color chart to identify the severity of each event:

- Blue indicates information.
- Orange indicates a warning.
- Red indicates an error.

The columns displayed in the Journal View are as follows:

- Severity
This column displays the severity of the event.
- ID
This column displays the ID used to identify the event internally.
- Request ID
This column displays the Request ID associated with the event.
- Start Time
This column displays the event start time.

- **Event Time**
This column displays the time the event occurred.
- **Duration**
This column displays the total duration of the event in seconds.
- **Event**
This column displays the type of event.
- **Tape Barcode**
This column displays the tape barcode associated with the event.
- **Drive Serial Number**
This column displays the serial number of the drive associated with the event.
- **Library Serial Number**
This column displays the serial number of the library associated with the event.
- **Disk Name**
This column displays the name of the disk associated with the event.
- **Actor Name**
This column displays the name of the Actor associated with the event.
- **Server**
This column displays the name of the Server associated with the event.
- **Virtual Object Name**
This column displays the name of the Virtual Object associated with the event.
- **Virtual Object Collection**
This column displays the Collection of the Virtual Object associated with the event.
- **Virtual Object Instance**
This column displays the instance number of the Virtual Object associated with the event.
- **Transfer Size**
This column displays the total data transfer size, in bytes, for the event.
- **Transfer Rate**
This column displays the rate of transfer, in bytes, for the event.
- **Error Rate**
This column displays the number of errors per Gigabyte of data transferred. These errors are automatically recovered by the tape drive.
- **Error Code**
This column displays the internal error code, when applicable, for the event.
- **Error Message**
This column displays a standardized error message, when applicable, for the event.

You can double-click any entry in the list to display its properties. A context menu is accessible for events specifically related to a request by right-clicking the entry in the Journal view. The context menu enables you to quickly navigate to the corresponding Logged Requests view or Request Properties dialog box.

Library Alert Logs Information

The Library Alert Logs View lists errors reported by directly-attached, SCSI protocol Managed Storage. This information is vendor specific and varies depending on the library make and model.

A set of filters is available to narrow down searches. You can filter the results by Severity by selecting (display), or deselecting (do not display), the appropriate check box for Information, Warnings, and Critical Errors. You can also filter by Message, Begin Date/Time, End Date/Time, and Alert ID, and enter search keywords into the appropriate fields. You click Refresh on the top right of the display to apply your filters and perform the search.

To disable a filter, you can enter the wildcard character (an asterisk) for a text field, or deselect the check box to disable date and time filtering.

The columns displayed in the Library Alert Logs View are as follows:

- Severity
This column displays the severity of the alert (*Informational, Warning or Error*).
- Date/Time
This column displays the date and time of the occurrence.
- Alert ID
This column displays the alert ID number as reported by the library, and is vendor specific.
- Message
This column displays the message field as reported by the library, and is vendor specific.

Drive Alert Logs Information

The Drive Alert Logs View lists errors reported by tape drives. This information is vendor specific and varies depending on the make and model. A set of filters is available to narrow down searches. For example, instance errors are viewable related to a particular tape.

A set of filters is available to narrow down searches. You can filter the results by Severity by selecting (display), or deselecting (do not display), the appropriate check box for Information, Warnings, and Critical Errors. You can also filter by Tape Barcode, Request ID, Begin Date/Time, End Date/Time, and Alert ID, Drive Serial Number, and Message, and then enter search keywords into the appropriate fields. You click Refresh on the top right of the display to apply your filters and perform the search.

To disable a filter, you can enter the wildcard character (an asterisk) for a text field, or deselect the check box to disable date and time filtering.

The columns displayed in the Drive Alert Logs View are as follows:

- Severity
This column displays the severity of the alert (Informational, Warning or Error).
- Date/Time
This column displays the date and time of the occurrence.
- Drive Serial Number
This column displays the drive that reported the alert.
- Tape Barcode
This column displays the barcode of the tape that was mounted when the alert was reported.
- Alert ID
This column displays the alert ID number as reported by the library, and is vendor specific.
- Message
This column displays the message field as reported by the library, and is vendor specific.
- DIVA Core Request ID
This column displays the ID number of the request related to the alert (if applicable).

System Analytics (Metrics) Information

You can examine The Analytics App Metrics in the System Management App Metrics View. The Metrics View provides a set of filters to narrow down searches. You can filter information by Metric Definition, Interval, Aggregation Item, Resource Name, Value, Count, Start Date, and Last Update Date. The Metric Definition menu list contains the metrics defined in the System Management App, and the built-in metrics (that start with DIVAPROTECT*). You click Refresh on the top right of the display to apply your filters and perform the search.

Hovering over a metric produces a dialog box that includes the metric Name, Description, Collecting (the event parameter selected metric is collecting), Resource, Type, and Included Events.

Double-clicking an entry in the list will display its properties dialog box.

Right-clicking an entry displays a context menu enabling you to reset the current value or hit count of the metric to zero. You must be logged in the System Management App as Administrator for these options to be enabled.

The columns displayed in the Metrics View are as follows:

- **Metric ID**
This column displays the internal ID used to identify the metric.
- **Start Date**
This column displays the date and time the collection of the metric started.
- **Last Update**
This column displays the last date and time the metric collection was updated.
- **Metric Name**
This column displays the name of the Metric Definition.
- **Interval**
This column displays the metric collection interval.
- **Resource**
This column displays the type of resource involved in the events the metric is based on.
- **Collecting**
This column displays the event parameter the metric is collecting.
- **Resource Name**
This column displays the name of the resource involved in the events the metric is based on.
- **Value**
This column displays the current metric value.
- **Count**
This column displays the number of times the metric was calculated or updated.

System QRD (Quick Response Data) Information

System QRD (Quick Response Data) includes the First Utilization Date and is displayed in the Information dialog box. You click DIVA Core Information under the System Management App Analytics tab to access this information.

Server QRD (Quick Response Data) Information

You view the Server QRD (Quick Response Data) information in the System Management App Server View. The information includes the First Utilization Date. You double-click an entry in the list to display additional information.

Media QRD (Quick Response Data) Information

You view the Media QRD (Quick Response Data) in the System Management App Media View. The metrics displayed in the Media View are as follows:

- First Utilization Date
This displays the date and time the media was first mounted.
- Last Utilization Date
This column displays the last date and time the media was used.
- Used Space
This column displays the sum of the used space on all online and offline media.

Library QRD (Quick Response Data) Information

You view the Library QRD (Quick Response Data) and Serial Numbers in the System Management App Library View. Double-clicking an entry in the list displays additional information in a dialog box.

The metrics displayed in the Library View are as follows:

Note: All offline values mentioned are not supported in this DIVA Core release. Currently, a tape is considered offline only when it is ejected. After a tape is ejected it is not considered to be part of the Library.

- Type
This column displays the type of library.
- First Utilization Date
This column displays the date and time the library was first used.
- Total Tapes
This column displays the total number of tapes in the library.
- Total Data Stored
This column displays the total amount of data stored in the library (in megabytes).
- Total Capacity
This column displays the sum of the total capacity of all tapes in the library (in gigabytes).
- Free Capacity
This column displays the sum of the total amount of free space on all tapes in the library (in gigabytes).
- Total Virtual Objects
This column displays the sum of the total number of Virtual Objects stored on all tapes in the library.

- Total Virtual Objects Online
This column displays the sum of the total number of Virtual Objects stored on all online tapes in the library.
- Total Virtual Objects Offline
This column displays the sum of the total number of Virtual Objects stored on all offline tapes in the library.

Extended Tape Drive QRD Information

You view the Tape Drive QRD (Quick Response Data) in the System Management App Drives View. This information includes drive Serial Numbers and Firmware level. The Serial Number is displayed in the main view.

Right-click a drive to display additional information in a dialog box. The Properties tab in the dialog box includes the Firmware Level and other basic information about the drive. The Usage tab in the dialog box includes the following columns:

- Installation Date
This column displays the date and time the drive was initially installed.
- First Utilization Date
This column displays the date and time the drive was first mounted.
- Last Upgrade Date
This column displays the date and time of the last drive upgrade.
- Last Cleaning Date
This column displays the date and time of the last time the drive was cleaned.

Extended Tape QRD Information

You view the Tape QRD (Quick Response Data) in the System Management App Tapes View under the Home tab. You double-click your selected tape to open the Tape Properties dialog box to view additional information.

The QRD fields (specifically) displayed in the Tape Properties dialog box are as follows:

- First Insertion Date
This field displays the date and time the tape was first inserted into the library.
- First Utilization Date
This field displays the date and time the tape was first mounted.

Extended Disk QRD Information

You view the Disk QRD (Quick Response Data) in the System Management App Disks View under the Home tab.

The QRD columns (specifically) displayed in the Disks View are as follows:

- First Utilization Date
This column displays the date and time the disk was first used.
- Last Access Date
This column displays the last date and time the disk was accessed.
- Last Read Date
This column displays the last time a read operation was performed on the disk.
- Last Write Date
This column displays the last time a write operation was performed on the disk.

Extended Virtual Object and Virtual Object Instance Information

You view the Last Read Date (and time) for an Virtual Object in the System Management App Archived Virtual Objects View.

You can view the Last Verify Date for an Virtual Object in the Instances panel under the Virtual Object Properties View. You double-click the Virtual Object you want to view in the Archived Virtual Objects list to open the Virtual Object Properties dialog box.

Extended Actor Information

You view extended information for your Actors in the Usage, Transcoders and Analyzer tabs of the Actor Properties dialog box in the System Management App. You display the Actor Properties dialog box by right-clicking an Actor in the Actors View, under the Home tab, and selecting Properties from the context menu.

Note: Linux-based Actors only support Telestream Vantage transcoding operations.

The Usage tab in the Actor Properties dialog box contains the First Utilization Date field. This field displays the date and time when the selected Actor was first used.

The Transcoders tab in the Actor Properties dialog box contains the following columns:

- Name
This column displays the transcoder name.
- Version
This column displays the transcoder release level.

- **Type**
This column displays the transcoder type.
- **First Utilization Date**
This column displays the date and time the transcoder was first used with the selected Actor.

The Analyzer tab in the Actor Properties dialog box contains the following fields:

- **Version**
This field displays the analyzer release level.
- **First Utilization Date**
This field displays the date and time the analyzer was first used.

Tracking Checksum Error Events in the Analytics App Journal

You view Checksum Error Events in the Analytics App Journal under the System Management App Analytics tab. The following table identifies the Checksum Event Types:

| Event ID | Event Name | Event Description | Severity |
|----------|---------------------|---|----------|
| 180 | CHECKSUM_ERROR_TAPE | A checksum verification produced an error reading for the tape. | 2 |
| 181 | CHECKSUM_ERROR_DISK | A checksum verification produced an error reading for the disk. | 2 |
| 182 | CHECKSUM_ERROR_SD | A checksum verification produced an error reading for the Server. | 2 |

Frequently Asked Questions

This chapter contains frequently asked questions about the Analytics App, and includes the following information:

How often are metrics updated?

The Analytics App calculates and updates the data metrics every hour through an automated database Request running in the background.

How is the Analytics App installed in a new DIVA Core installation?

The Analytics App is automatically installed with DIVA Core; no additional installation is required.

Can you choose not to install the Analytics App?

You cannot select to bypass the Analytics App installation. The Analytics App is a mandatory subsystem built into DIVA Core. However, you can disable the Analytics App data collection and computation after the system has been installed.

Can the Analytics App be disabled?

Yes, you can disable the Analytics App functionality through proper configuration. See [Main Configuration](#) for detailed configuration options.

How is Engineering Mode accessed?

You must contact Telestream Support to access the system in Engineering Mode. Engineering Mode is only accessible to Telestream Support personnel to avoid accidental misconfiguration of the system. Misconfiguration can possibly result in degradation of DIVA Core operations.

Event and Metric Definitions

The following table identifies the Analytics App event and metric definitions.

Topics

- [Event Field Definitions](#)
- [Event Definitions](#)
- [Metric Definitions](#)

Event Field Definitions

The following table identifies the Analytics App Event Field Definitions:

| Event Field ID | Displayed Name | Aggregatable Resource? | Collectible? | Type | Quantifier |
|----------------|----------------------------------|------------------------|--------------|--------|---------------|
| 1 | Event ID | No | Yes | Number | |
| 2 | Event Definition ID | Yes | No | Number | |
| 3 | Tape Type | Yes | No | String | |
| 4 | Tape Barcode | Yes | No | String | |
| 5 | Drive Type | Yes | No | String | |
| 6 | Drive Name | Yes | No | String | |
| 7 | Drive Serial Number | Yes | No | String | |
| 8 | Actor Name | Yes | No | String | |
| 9 | Object Name | Yes | No | String | |
| 10 | Object Collection | Yes | No | String | |
| 11 | Object Instance | No | No | Number | |
| 12 | Media | Yes | No | String | |
| 13 | Request ID | No | No | Number | |
| 14 | Event End Time | No | No | Date | |
| 15 | Event Duration | No | Yes | Number | Seconds |
| 16 | Transfer Size | No | Yes | Number | Bytes |
| 17 | Transfer Rate | No | Yes | Number | Mbps |
| 18 | Transfer Error Rate | No | Yes | Number | Errors per GB |
| 19 | Error Code | Yes | No | Number | |
| 20 | Error Message | No | No | String | |
| 21 | Disk Name | Yes | No | String | |
| 22 | Library Serial Number | Yes | No | String | |
| 23 | SD Name | Yes | No | String | |
| 24 | Transcoder Name Analyzer Name | Yes | No | String | |

| Event Field ID | Displayed Name | Aggregatable Resource? | Collectible? | Type | Quantifier |
|-----------------------|------------------------|-------------------------------|---------------------|-------------|-------------------|
| 25 | Local DIVA Core System | Yes | No | String | |
| 26 | Number of Operations | No | Yes | Number | |
| 27 | EV_SIZE | No | Yes | Number | Bytes |

Event Definitions

The following table identifies the Analytics App Event Definitions:

| Event ID | Name | Description | Severity |
|----------|---------------------------|---------------------------------|----------|
| 1 | TAPE_INSERT | Tape insert event | 3 |
| 2 | TAPE_INSERT_ERR | Tape insert error event | 2 |
| 10 | TAPE_MOUNT | Tape mount event | 4 |
| 11 | TAPE_MOUNT_ERR | Tape mount error event | 2 |
| 20 | TAPE_POSITION | Tape position event | 4 |
| 21 | TAPE_POSITION_ERR | Tape position error event | 2 |
| 30 | TAPE_READ | Tape read event | 4 |
| 31 | TAPE_READ_ERR | Tape read error event | 2 |
| 40 | TAPE_WRITE | Tape write event | 4 |
| 41 | TAPE_WRITE_ERR | Tape write error event | 2 |
| 50 | TAPE_DISMOUNT | Tape dismount event | 4 |
| 51 | TAPE_DISMOUNT_ERR | Tape dismount error event | 2 |
| 60 | TAPE_EJECT | Tape eject event | 3 |
| 61 | TAPE_EJECT_ERR | Tape eject error event | 2 |
| 70 | TAPE_UNLOAD | Tape unload event | 4 |
| 71 | TAPE_UNLOAD_ERR | Tape unload error event | 2 |
| 72 | TAPE_IMPORT | Tape import event | 3 |
| 73 | TAPE_EXPORT | Tape export event | 3 |
| 80 | TAPE_DRIVE_CLEAN_ALERT | Tape drive clean event | 3 |
| 81 | TAPE_DRIVE_TENSION_NOTIFY | Tape drive tension notify event | 2 |
| 82 | TAPE_DRIVE_LOG_ALERT | Tape drive log alert event | 4 |
| 83 | TAPE_DRIVE_LIST | Tape drive list event | 4 |
| 84 | TAPE_END_OF_TAPE | End of tape event | 4 |
| 90 | TAPE_REPACK | Tape repack event | 3 |
| 91 | TAPE_REPACK_ERR | Tape repack error event | 2 |
| 103 | DISK_READ | Disk read event | 4 |
| 104 | DISK_READ_ERR | Disk read error event | 2 |
| 105 | DISK_WRITE | Disk write event | 4 |

| Event ID | Name | Description | Severity |
|----------|---------------------------|---|----------|
| 106 | DISK_WRITE_ERR | Disk write error event | 2 |
| 110 | SD_READ | Server read event | 4 |
| 111 | SD_READ_ERR | Server read error event | 2 |
| 112 | SD_WRITE | Server write event | 4 |
| 113 | SD_WRITE_ERR | Server write error event | 2 |
| 120 | ARCHIVE_REQUEST | Archive Virtual Object event | 4 |
| 122 | COPY_REQUEST | Copy Instance event | 4 |
| 124 | COPY_AS_REQUEST | Copy As event | 4 |
| 126 | RESTORE | Restore Virtual Object event | 4 |
| 130 | DELETE_OBJECT | Delete Virtual Object event | 4 |
| 132 | CREATE_INSTANCE | Create Instance event | 4 |
| 134 | DELETE_INSTANCE | Delete Virtual Object Instance event | 4 |
| 141 | TRANSCODE_END | Transcode event | 4 |
| 142 | TRANSCODE_ERR | Transcode error event | 2 |
| 160 | REQUEST_STOP_ON_CANCEL | Request Cancel event | 4 |
| 161 | REQUEST_STOP_ON_INTERRUPT | Request Interrupt Event | 4 |
| 170 | LIBRARY_LOG_ALERT | Library Log alert event | 4 |
| 180 | CHECKSUM_ERROR_TAPE | Checksum verification error reading from tape | 2 |
| 181 | CHECKSUM_ERROR_DISK | Checksum verification error reading from disk | 2 |
| 182 | CHECKSUM_ERROR_SD | Checksum verification error reading from Server | 2 |
| 190 | PARTIAL_RESTORE | Partial File Restore event | 4 |

Metric Definitions

The following list describes the DIVA Core metrics definitions. All listed metrics are enabled.

ACTOR_READ_WRITE

- Description: Actor - the amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Actor Name
- Collection Interval: Lifetime

ACTOR_READ_WRITE_ABORTED_NUMBER

- Description: Actor - number of ABORTED READ and ABORTED WRITE operations with drives.
- Events: TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Actor Name
- Collection Interval: Lifetime

ACTOR_READ_WRITE_ABORTED_NUMBER_DAY

- Description: Actor - number of ABORTED READ and ABORTED WRITE operations with drives.
- Events: TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Actor Name
- Collection Interval: Day

ACTOR_READ_WRITE_ABORTED_NUMBER_SD

- Description: Actor - number of ABORTED READ and ABORTED WRITE operations with Server.
- Events: SD_READ_ERR, SD_WRITE_ERR
- Operation: Count

- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Actor Name
- Collection Interval: Lifetime

ACTOR_READ_WRITE_ABORTED_NUMBER_SD_DAY

- Description: Actor - number of ABORTED READ and ABORTED WRITE operations with Server.
- Events: SD_READ_ERR, SD_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Actor Name
- Collection Interval: Day

ACTOR_READ_WRITE_DAY

- Description: Actor - amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Actor Name
- Collection Interval: Day

ACTOR_READ_WRITE_MONTH

- Description: Actor - amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Actor Name
- Collection Interval: Month

ACTOR_READ_WRITE_NUMBER

- Description: Actor - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null

- Collection Field: Event ID
- Aggregation Field: Actor Name
- Collection Interval: Lifetime

ACTOR_READ_WRITE_NUMBER_DAY

- Description: Actor - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Actor Name
- Collection Interval: Day

ACTOR_READ_WRITE_NUMBER_MONTH

- Description: Actor - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Actor Name
- Collection Interval: Month

ACTOR_TIME_ALL_OPERATION

- Description: Actor - time in all operations.
- Events: DISK_READ, DISK_READ_ERR, DISK_WRITE, DISK_WRITE_ERR, SD_READ, SD_READ_ERR, SD_WRITE, SD_WRITE_ERR, TAPE_END_OF_TAPE, TAPE_MOUNT_ERR, TAPE_POSITION, TAPE_POSITION_ERR, TAPE_READ, TAPE_READ_ERR, TAPE_UNLOAD, TAPE_UNLOAD_ERR, TAPE_WRITE, TAPE_WRITE_ERR
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Lifetime

ACTOR_TIME_ALL_OPERATION_DAY

- Description: Actor - time in all operations.
- Events: DISK_READ, DISK_READ_ERR, DISK_WRITE, DISK_WRITE_ERR, SD_READ, SD_READ_ERR, SD_WRITE, SD_WRITE_ERR, TAPE_END_OF_TAPE, TAPE_MOUNT_ERR, TAPE_POSITION, TAPE_POSITION_ERR, TAPE_READ, TAPE_READ_ERR, TAPE_UNLOAD, TAPE_UNLOAD_ERR, TAPE_WRITE, TAPE_WRITE_ERR
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Day

ACTOR_TIME_ALL_OPERATION_MONTH

- Description: Actor - time in all operations.
- Events: DISK_READ, DISK_READ_ERR, DISK_WRITE, DISK_WRITE_ERR, SD_READ, SD_READ_ERR, SD_WRITE, SD_WRITE_ERR, TAPE_END_OF_TAPE, TAPE_MOUNT_ERR, TAPE_POSITION, TAPE_POSITION_ERR, TAPE_READ, TAPE_READ_ERR, TAPE_UNLOAD, TAPE_UNLOAD_ERR, TAPE_WRITE, TAPE_WRITE_ERR
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Month

ACTOR_TIME_READ

- Description: Actor - time in READ operations.
- Events: DISK_READ, SD_READ, TAPE_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Lifetime

ACTOR_TIME_READ_DAY

- Description: Actor - time in READ operations.
- Events: DISK_READ, SD_READ, TAPE_READ
- Operation: Sum

- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Day

ACTOR_TIME_READ_MONTH

- Description: Actor - time in READ operations.
- Events: DISK_READ, SD_READ, TAPE_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Month

ACTOR_TIME_WRITE

- Description: Actor - time in WRITE operations.
- Events: DISK_WRITE, SD_WRITE, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Lifetime

ACTOR_TIME_WRITE_DAY

- Description: Actor - time in WRITE operations.
- Events: DISK_WRITE, SD_WRITE, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Day

ACTOR_TIME_WRITE_MONTH

- Description: Actor - time in WRITE operations.
- Events: DISK_WRITE, SD_WRITE, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null

- Collection Field: Duration
- Aggregation Field: Actor Name
- Collection Interval: Month

DISK_AVG_TRANSFER_RATE_READ

- Description: Disk - average transfer rate of READ.
- Events: DISK_READ
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_AVG_TRANSFER_RATE_READ_DAY

- Description: Disk - average transfer rate of READ.
- Events: DISK_READ
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_AVG_TRANSFER_RATE_READ_MONTH

- Description: Disk - average transfer rate of READ.
- Events: DISK_READ
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_AVG_TRANSFER_RATE_WRITE

- Description: Disk - average transfer rate of WRITE.
- Events: DISK_WRITE
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate

- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_AVG_TRANSFER_RATE_WRITE_DAY

- Description: Disk - average transfer rate of WRITE.
- Events: DISK_WRITE
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_AVG_TRANSFER_RATE_WRITE_MONTH

- Description: Disk - average transfer rate of WRITE.
- Events: DISK_WRITE
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_CHECKSUM_FAILURE_COUNT_DAY

- Description: Disk - checksum failure operations count.
- Events: CHECKSUM_ERROR_DISK
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_CHECKSUM_FAILURE_COUNT_MONTH

- Description: Disk - checksum failure operations count.
- Events: CHECKSUM_ERROR_DISK
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name

- Collection Interval: Month

DISK_NUMBER_READ

- Description: Disk - total number of READ operations.
- Events: DISK_READ, DISK_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_NUMBER_READ_ABORTED

- Description: Disk - total number of ABORTED READ operations.
- Events: DISK_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_NUMBER_READ_ABORTED_DAY

- Description: Disk - total number of ABORTED READ operations.
- Events: DISK_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_NUMBER_READ_ABORTED_MONTH

- Description: Disk - total number of ABORTED READ operations.
- Events: DISK_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_NUMBER_READ_DAY

- Description: Disk - total number of READ operations.
- Events: DISK_READ, DISK_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_NUMBER_READ_MONTH

- Description: Disk - total number of READ operations.
- Events: DISK_READ, DISK_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_NUMBER_WRITE

- Description: Disk - total number of WRITE operations.
- Events: DISK_WRITE, DISK_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_NUMBER_WRITE_ABORTED

- Description: Disk - Total number of ABORTED WRITE operations.
- Events: DISK_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_NUMBER_WRITE_ABORTED_DAY

- Description: Disk - Total number of ABORTED WRITE operations.
- Events: DISK_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_NUMBER_WRITE_ABORTED_MONTH

- Description: Disk - Total number of ABORTED WRITE operations.
- Events: DISK_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_NUMBER_WRITE_DAY

- Description: Disk - Total number of WRITE operations.
- Events: DISK_WRITE, DISK_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_NUMBER_WRITE_MONTH

- Description: Disk - Total number of WRITE operations.
- Events: DISK_WRITE, DISK_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_READ

- Description: Disk - total amount of data READ.
- Events: DISK_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_READ_DAY

- Description: Disk - total amount of data READ.
- Events: DISK_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_READ_MONTH

- Description: Disk - total amount of data READ.
- Events: DISK_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_TIME_ALL_OPERATION

- Description: Disk - total time of all operations.
- Events: DISK_READ, DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_TIME_ALL_OPERATION_DAY

- Description: Disk - total time of all operations.
- Events: DISK_READ, DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_TIME_ALL_OPERATION_MONTH

- Description: Disk - total time of all operations.
- Events: DISK_READ, DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_TIME_READ

- Description: Disk - total time of READ operations.
- Events: DISK_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_TIME_READ_DAY

- Description: Disk - total time of READ operations.
- Events: DISK_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_TIME_READ_MONTH

- Description: Disk - total time of READ operations.
- Events: DISK_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_TIME_WRITE

- Description: Disk - total time of WRITE operations.
- Events: DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_TIME_WRITE_DAY

- Description: Disk - total time of WRITE operations.
- Events: DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_TIME_WRITE_MONTH

- Description: Disk - total time of WRITE operations.
- Events: DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Disk Name
- Collection Interval: Month

DISK_WRITE

- Description: Disk - total amount of data WRITE.
- Events: DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Disk Name
- Collection Interval: Lifetime

DISK_WRITE_DAY

- Description: Disk - total amount of data WRITE.
- Events: DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Disk Name
- Collection Interval: Day

DISK_WRITE_MONTH

- Description: Disk - total amount of data WRITE.
- Events: DISK_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Disk Name
- Collection Interval: Month

SYSTEM_ACTIVE_ARCHIVE_NUMBER

- Description: DIVA Core System - number of active Archive requests.
- Events: ARCHIVE_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_ACTIVE_ARCHIVE_NUMBER_DAY

- Description: DIVA Core System - number of active Archive requests.
- Events: ARCHIVE_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_ACTIVE_ARCHIVE_NUMBER_MONTH

- Description: DIVA Core System - number of active Archive requests.
- Events: ARCHIVE_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_ACTIVE_COPY_AS_NUMBER

- Description: DIVA Core System - number of active Copy As New Virtual Object requests.
- Events: COPY_AS_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_ACTIVE_COPY_AS_NUMBER_DAY

- Description: DIVA Core System - number of active Copy As New Virtual Object requests.
- Events: COPY_AS_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_ACTIVE_COPY_AS_NUMBER_MONTH

- Description: DIVA Core System - number of active Copy As New Virtual Object requests.
- Events: COPY_AS_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_ACTIVE_COPY_NUMBER

- Description: DIVA Core System - number of active Copy requests.
- Events: COPY_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_ACTIVE_COPY_NUMBER_DAY

- Description: DIVA Core System - number of active Copy requests.
- Events: COPY_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_ACTIVE_COPY_NUMBER_MONTH

- Description: DIVA Core System - number of active Copy requests.
- Events: COPY_REQUEST
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_ACTIVE_RESTORE_NUMBER

- Description: DIVA Core System - number of active Restore requests.
- Events: RESTORE
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_ACTIVE_RESTORE_NUMBER_DAY

- Description: DIVA Core System - number of active Restore requests.
- Events: RESTORE
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_ACTIVE_RESTORE_NUMBER_MONTH

- Description: DIVA Core System - number of active Restore requests.
- Events: RESTORE
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Number of operations
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_AVG_READ_WRITE

- Description: DIVA Core System - average amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: WAVG
- Weight Factor: Duration
- Collection Field: Transfer Size
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_AVG_READ_WRITE_DAY

- Description: DIVA Core System - average amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: WAVG
- Weight Factor: Duration
- Collection Field: Transfer Size
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_AVG_READ_WRITE_MONTH

- Description: DIVA Core System - average amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: WAVG
- Weight Factor: Duration
- Collection Field: Transfer Size
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_NUMBER_OBJECT_ARCHIVE

- Description: DIVA Core System - number of Virtual Objects archived.
- Events: ARCHIVE_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_NUMBER_OBJECT_ARCHIVE_DAY

- Description: DIVA Core System - number of Virtual Objects archived.
- Events: ARCHIVE_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_NUMBER_OBJECT_ARCHIVE_MONTH

- Description: DIVA Core System - number of Virtual Objects archived.
- Events: ARCHIVE_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_NUMBER_OBJECT_CREATED

- Description: DIVA Core System - number of Virtual Objects created.
- Events: ARCHIVE_REQUEST, COPY_AS_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_NUMBER_OBJECT_CREATED_DAY

- Description: DIVA Core System - number of Virtual Objects created.
- Events: ARCHIVE_REQUEST, COPY_AS_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_NUMBER_OBJECT_CREATED_MONTH

- Description: DIVA Core System - number of Virtual Objects created.
- Events: ARCHIVE_REQUEST, COPY_AS_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_NUMBER_OBJECT_DELETED

- Description: DIVA Core System - number of Virtual Objects deleted.
- Events: DELETE_OBJECT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_NUMBER_OBJECT_DELETED_DAY

- Description: DIVA Core System - number of Virtual Objects deleted.
- Events: DELETE_OBJECT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_NUMBER_OBJECT_DELETED_MONTH

- Description: DIVA Core System - number of Virtual Objects deleted.
- Events: DELETE_OBJECT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_NUMBER_OBJECT_INSTANCE_COPY

- Description: DIVA Core System - number of Virtual Objects instance copied.
- Events: COPY_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_NUMBER_OBJECT_INSTANCE_COPY_DAY

- Description: DIVA Core System - number of Virtual Objects instance copied.
- Events: COPY_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_NUMBER_OBJECT_INSTANCE_COPY_MONTH

- Description: DIVA Core System - number of Virtual Objects instance copied.
- Events: COPY_REQUEST
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_NUMBER_OBJECT_INSTANCE_CREATED

- Description: DIVA Core System - number of Virtual Object instances created.
- Events: CREATE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_NUMBER_OBJECT_INSTANCE_CREATED_DAY

- Description: DIVA Core System - number of Virtual Object instances created.
- Events: CREATE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_NUMBER_OBJECT_INSTANCE_CREATED_MONTH

- Description: DIVA Core System - number of Virtual Object instances created.
- Events: CREATE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_NUMBER_OBJECT_INSTANCE_DELETED

- Description: DIVA Core System - number of Virtual Object instances deleted.
- Events: DELETE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_NUMBER_OBJECT_INSTANCE_DELETED_DAY

- Description: DIVA Core System - number of Virtual Object instances deleted.
- Events: DELETE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_NUMBER_OBJECT_INSTANCE_DELETED_MONTH

- Description: DIVA Core System - number of Virtual Object instances deleted.
- Events: DELETE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_NUMBER_OBJECT_RESTORE

- Description: DIVA Core System - number of Virtual Objects restored.
- Events: RESTORE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_NUMBER_OBJECT_RESTORE_DAY

- Description: DIVA Core System - number of Virtual Objects restored.
- Events: RESTORE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_NUMBER_OBJECT_RESTORE_MONTH

- Description: DIVA Core System - number of Virtual Objects restored.
- Events: RESTORE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_READ_WRITE

- Description: DIVA Core System - amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_READ_WRITE_ABORTED_NUMBER

- Description: DIVA Core System - number of ABORTED READ and ABORTED WRITE operations.
- Events: DISK_READ_ERR, DISK_WRITE_ERR, SD_READ_ERR, SD_WRITE_ERR, TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_READ_WRITE_ABORTED_NUMBER_DAY

- Description: DIVA Core System - number of ABORTED READ and ABORTED WRITE operations.
- Events: DISK_READ_ERR, DISK_WRITE_ERR, SD_READ_ERR, SD_WRITE_ERR, TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_READ_WRITE_ABORTED_NUMBER_MONTH

- Description: DIVA Core System - number of ABORTED READ and ABORTED WRITE operations.
- Events: DISK_READ_ERR, DISK_WRITE_ERR, SD_READ_ERR, SD_WRITE_ERR, TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_READ_WRITE_DAY

- Description: DIVA Core System - amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_READ_WRITE_MONTH

- Description: DIVA Core System - amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

SYSTEM_READ_WRITE_NUMBER

- Description: DIVA Core System - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

SYSTEM_READ_WRITE_NUMBER_DAY

- Description: DIVA Core System - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Day

SYSTEM_READ_WRITE_NUMBER_MONTH

- Description: DIVA Core System - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, SD_READ, SD_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Month

MEDIA_ARCHIVED_OBJECT_DATASIZE_DAY

- Description: Media - data size of all Virtual Objects archived.
- Events: ARCHIVE_REQUEST
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Media Name
- Collection Interval: Day

MEDIA_ARCHIVED_OBJECT_DATASIZE_MONTH

- Description: Media - data size of all Virtual Objects archived.
- Events: ARCHIVE_REQUEST
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Media Name
- Collection Interval: Month

MEDIA_OBJECT_INSTANCE_CREATE

- Description: Media - number of Virtual Object instance CREATE.
- Events: CREATE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Lifetime

MEDIA_OBJECT_INSTANCE_CREATE_DAY

- Description: Media - number of Virtual Object instance CREATE.
- Events: CREATE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Day

MEDIA_OBJECT_INSTANCE_CREATE_MONTH

- Description: Media - number of Virtual Object instance CREATE and DELETE.
- Events: CREATE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Month

MEDIA_OBJECT_INSTANCE_DELETE

- Description: Media - number of Virtual Object instance DELETE.
- Events: DELETE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Lifetime

MEDIA_OBJECT_INSTANCE_DELETE_DAY

- Description: Media - number of Virtual Object instance DELETE.
- Events: DELETE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Day

MEDIA_OBJECT_INSTANCE_DELETE_MONTH

- Description: Media - number of Virtual Object instance CREATE and DELETE.
- Events: DELETE_INSTANCE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Month

MEDIA_READ_WRITE

- Description: Media - amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Media Name
- Collection Interval: Lifetime

MEDIA_READ_WRITE_DAY

- Description: Media - amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Media Name
- Collection Interval: Day

MEDIA_READ_WRITE_MONTH

- Description: Media - amount of data READ and WRITE.
- Events: DISK_READ, DISK_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Media Name
- Collection Interval: Month

MEDIA_READ_WRITE_NUMBER

- Description: Media - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Lifetime

MEDIA_READ_WRITE_NUMBER_DAY

- Description: Media - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Day

MEDIA_READ_WRITE_NUMBER_MONTH

- Description: Media - number of READ and WRITE operations.
- Events: DISK_READ, DISK_WRITE, TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Month

MEDIA_RESTORE_OBJECT_DATASIZE_DAY

- Description: Media - data size of all Virtual Objects restored.
- Events: RESTORE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Media Name
- Collection Interval: Day

MEDIA_RESTORE_OBJECT_DATASIZE_MONTH

- Description: Media - data size of all Virtual Objects restored.
- Events: RESTORE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Media Name
- Collection Interval: Month

MEDIA_TAPE_EXPORT_NUMBER_DAY

- Description: Media - Number of tape EXPORT.
- Events: TAPE_EXPORT
- Operation: count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Day

MEDIA_TAPE_EXPORT_NUMBER_MONTH

- Description: Media - Number of tape EXPORT.
- Events: TAPE_EXPORT
- Operation: count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Month

MEDIA_TAPE_IMPORT_NUMBER_DAY

- Description: Media - Number of tape IMPORT.
- Events: TAPE_IMPORT
- Operation: count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Day

MEDIA_TAPE_EXPORT_NUMBER_MONTH

- Description: Media - Number of tape IMPORT.
- Events: TAPE_IMPORT
- Operation: count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Media Name
- Collection Interval: Month

SD_ARCHIVE_OBJECT_DATASIZE_DAY

- Description: Server - data size of all Virtual Objects archived.
- Events: ARCHIVE_REQUEST
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Day

SD_ARCHIVE_OBJECT_DATASIZE_MONTH

- Description: Server - data size of all Virtual Objects archived.
- Events: ARCHIVE_REQUEST
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Month

SD_CHECKSUM_FAILURE_COUNT_DAY

- Description: Server - checksum failure operations count.
- Events: CHECKSUM_ERROR_SD
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Server Name
- Collection Interval: Day

SD_READ

- Description: Server - amount of data READ.
- Events: SD_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Lifetime

SD_READ_DAY

- Description: Server - amount of data READ.
- Events: SD_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Day

SD_READ_MONTH

- Description: Server - amount of data READ.
- Events: SD_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Month

SD_READ_NUMBER

- Description: Server - number of READ operations.
- Events: SD_READ
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Server Name
- Collection Interval: Lifetime

SD_READ_NUMBER_DAY

- Description: Server - number of READ operations.
- Events: SD_READ
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Server Name
- Collection Interval: Day

SD_READ_NUMBER_MONTH

- Description: Server - number of READ operations.
- Events: SD_READ
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Server Name
- Collection Interval: Month

SD_RESTORE_OBJECT_DATASIZE_DAY

- Description: Server - data size of all Virtual Objects restore.
- Events: RESTORE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Day

SD_RESTORE_OBJECT_DATASIZE_MONTH

- Description: Server - data size of all Virtual Objects restore.
- Events: RESTORE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Month

SD_TIME

- Description: Server - time in operation.
- Events: SD_READ, SD_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Server Name
- Collection Interval: Lifetime

SD_TIME_DAY

- Description: Server - time in operation.
- Events: SD_READ, SD_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Server Name
- Collection Interval: Day

SD_TIME_MONTH

- Description: Server - time in operation.
- Events: SD_READ, SD_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Server Name
- Collection Interval: Month

SD_WRITE

- Description: Server - amount of data WRITE.
- Events: SD_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Lifetime

SD_WRITE_DAY

- Description: Server - amount of data WRITE.
- Events: SD_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Day

SD_WRITE_MONTH

- Description: Server - amount of data WRITE.
- Events: SD_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Server Name
- Collection Interval: Month

SD_WRITE_NUMBER

- Description: Server - number of WRITE operations.
- Events: SD_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Server Name
- Collection Interval: Lifetime

SD_WRITE_NUMBER_DAY

- Description: Server - number of WRITE operations.
- Events: SD_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Server Name
- Collection Interval: Day

SD_WRITE_NUMBER_MONTH

- Description: Server - number of WRITE operations.
- Events: SD_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Server Name
- Collection Interval: Month

TAPE_CHECKSUM_FAILURE_COUNT_DAY

- Description: Tape - checksum failure operations count.
- Events: CHECKSUM_ERROR_TAPE, TAPE_DISMOUNT_ERR, TAPE_MOUNT_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Day

TAPE_DRIVE_DATA_RATE

- Description: Tape Drive - data rate
- Events: TAPE_READ, TAPE_WRITE
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_DATA_RATE_MONTH

- Description: Tape Drive - data rate
- Events: TAPE_READ, TAPE_WRITE
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Drive Serial Number
- Collection Interval: Month

TAPE_DRIVE_ERROR_RATE

- Description: Tape Drive - internal error rate.
- Events: TAPE_READ, TAPE_WRITE
- Operation: Average
- Weight Factor: Null
- Collection Field: Error Rate
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_ERROR_RATE_MONTH

- Description: Tape Drive - internal error rate.
- Events: TAPE_READ, TAPE_WRITE
- Operation: Average
- Weight Factor: Null
- Collection Field: Error Rate
- Aggregation Field: Drive Serial Number
- Collection Interval: Month

TAPE_DRIVE_LAST_OPERATION_DATE

- Description: Tape Drive - date of last MOUNT, DISMOUNT, READ, or WRITE.
- Events: TAPE_DISMOUNT, TAPE_MOUNT, TAPE_READ, TAPE_WRITE
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Event Time
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_NUMBER_MOUNTS

- Description: Tape Drive - number of mounts.
- Events: TAPE_MOUNT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_NUMBER_MOUNT_DISMOUNT_ABORTED

- Description: Tape Drive - number of terminated MOUNT and DISMOUNT operations (together).
- Events: TAPE_DISMOUNT_ERR, TAPE_MOUNT_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_NUMBER_READ_WRITE_ABORTED

- Description: Tape Drive - number of terminated READ and WRITE operations (together).
- Events: TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_NUMBER_READ_WRITE_ABORTED_DAY

- Description: Tape Drive - number of terminated READ and WRITE operations (together).
- Events: TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_NUMBER_READ_WRITE_ABORTED_MONTH

- Description: Tape Drive - number of terminated READ and WRITE operations (together).
- Events: TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Drive Serial Number

- Collection Interval: Month

TAPE_DRIVE_OPERATION_TOTAL_TIME

- Description: Tape Drive - total time of drive operation.
- Events: TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_OPERATION_TOTAL_TIME_DAY

- Description: Tape Drive - total time of drive operation.
- Events: TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_READ_WRITE

- Description: Tape Drive - amount of data READ and WRITE (together).
- Events: TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_READ_WRITE_DAY

- Description: Tape Drive - amount of data READ and WRITE (together).
- Events: TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_READ_WRITE_MONTH

- Description: Tape Drive - amount of data READ and WRITE (together).
- Events: TAPE_READ, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Drive Serial Number
- Collection Interval: Month

TAPE_DRIVE_READ_WRITE_NUMBER

- Description: Tape Drive - number of READ and WRITE operations (together).
- Events: TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_READ_WRITE_NUMBER_DAY

- Description: Tape Drive - number of READ and WRITE operations (together).
- Events: TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_READ_WRITE_NUMBER_MONTH

- Description: Tape Drive - number of READ and WRITE operations (together).
- Events: TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Drive Serial Number
- Collection Interval: Month

TAPE_DRIVE_TIME_ALL_OPERATION

- Description: Tape Drive - time in all operations.
- Events: TAPE_DISMOUNT, TAPE_EJECT, TAPE_INSERT, TAPE_MOUNT, TAPE_POSITION, TAPE_READ, TAPE_UNLOAD, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_TIME_ALL_OPERATION_DAY

- Description: Tape Drive - time in all operations.
- Events: TAPE_DISMOUNT, TAPE_EJECT, TAPE_INSERT, TAPE_MOUNT, TAPE_POSITION, TAPE_READ, TAPE_UNLOAD, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_TIME_ALL_OPERATION_MONTH

- Description: Tape Drive - time in all operations.
- Events: TAPE_DISMOUNT, TAPE_EJECT, TAPE_INSERT, TAPE_MOUNT, TAPE_POSITION, TAPE_READ, TAPE_UNLOAD, TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Month

TAPE_DRIVE_TIME_READ

- Description: Tape Drive - time in READ operation.
- Events: TAPE_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_TIME_READ_DAY

- Description: Tape Drive - time in READ operation.
- Events: TAPE_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_TIME_READ_MONTH

- Description: Tape Drive - time in READ operation.
- Events: TAPE_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Month

TAPE_DRIVE_TIME_WRITE

- Description: Tape Drive - time in WRITE operation.
- Events: TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Lifetime

TAPE_DRIVE_TIME_WRITE_DAY

- Description: Tape Drive - time in WRITE operation.
- Events: TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Day

TAPE_DRIVE_TIME_WRITE_MONTH

- Description: Tape Drive - time in WRITE operation.
- Events: TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Drive Serial Number
- Collection Interval: Month

TAPE_EXTERNALIZATION_NUMBER

- Description: Tape - number of externalizations.
- Events: TAPE_EJECT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_LAST_DISMOUNT

- Description: Tape - date of last DISMOUNT.
- Events: TAPE_DISMOUNT
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Event Time
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_LAST_EVENT_ID

- Description: Tape - the Analytics App Event ID of the last Tape or Drive operation.
- Events: TAPE_DISMOUNT, TAPE_DISMOUNT_ERR, TAPE_MOUNT, TAPE_MOUNT_ERR, TAPE_POSITION, TAPE_POSITION_ERR, TAPE_READ, TAPE_READ_ERR, TAPE_UNLOAD, TAPE_UNLOAD_ERR, TAPE_WRITE, TAPE_WRITE_ERR
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_LAST_MOUNT_DATE

- Description: Tape - date of last MOUNT.
- Events: TAPE_MOUNT
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Event Time
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_LAST_READ

- Description: Tape - date of last READ.
- Events: TAPE_READ
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Event Time
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_LAST_WRITE

- Description: Tape - date of last WRITE.
- Events: TAPE_WRITE
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Event Time
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_LIBRARY_NUMBER_DISMOUNT_ABORTED

- Description: Tape Library - total number of ABORTED DISMOUNT operations.
- Events: TAPE_DISMOUNT_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Lifetime

TAPE_LIBRARY_NUMBER_DISMOUNT_ABORTED_DAY

- Description: Tape Library - total number of ABORTED DISMOUNT operations.
- Events: TAPE_DISMOUNT_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Day

TAPE_LIBRARY_NUMBER_DISMOUNT_ABORTED_MONTH

- Description: Tape Library - total number of ABORTED DISMOUNT operations.
- Events: TAPE_DISMOUNT_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Month

TAPE_LIBRARY_NUMBER_MOUNT

- Description: Tape Library - total number of MOUNT operations.
- Events: TAPE_MOUNT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Lifetime

TAPE_LIBRARY_NUMBER_MOUNT_ABORTED

- Description: Tape Library - total number of ABORTED MOUNT operations.
- Events: TAPE_MOUNT_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Lifetime

TAPE_LIBRARY_NUMBER_MOUNT_ABORTED_DAY

- Description: Tape Library - total number of ABORTED MOUNT operations.
- Events: TAPE_MOUNT_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Day

TAPE_LIBRARY_NUMBER_MOUNT_ABORTED_MONTH

- Description: Tape Library - total number of ABORTED MOUNT operations.
- Events: TAPE_MOUNT_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Month

TAPE_LIBRARY_NUMBER_MOUNT_DAY

- Description: Tape Library - total number of MOUNT operations.
- Events: TAPE_MOUNT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Day

TAPE_LIBRARY_NUMBER_MOUNT_MONTH

- Description: Tape Library - total number of MOUNT operations.
- Events: TAPE_MOUNT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Month

TAPE_LIBRARY_NUMBER_READ

- Description: Tape Library - total number of READ operations.
- Events: TAPE_READ, TAPE_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Lifetime

TAPE_LIBRARY_NUMBER_READ_DAY

- Description: Tape Library - total number of READ operations.
- Events: TAPE_READ, TAPE_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Day

TAPE_LIBRARY_NUMBER_READ_MONTH

- Description: Tape Library - total number of READ operations.
- Events: TAPE_READ, TAPE_READ_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Month

TAPE_LIBRARY_NUMBER_WRITE

- Description: Tape Library - total number of WRITE operations.
- Events: TAPE_WRITE, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Lifetime

TAPE_LIBRARY_NUMBER_WRITE_DAY

- Description: Tape Library - total number of WRITE operations.
- Events: TAPE_WRITE, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Day

TAPE_LIBRARY_NUMBER_WRITE_MONTH

- Description: Tape Library - total number of WRITE operations.
- Events: TAPE_WRITE, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Library Serial Number
- Collection Interval: Month

TAPE_LIBRARY_READ

- Description: Tape Library - total amount of data READ operations.
- Events: TAPE_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Library Serial Number
- Collection Interval: Lifetime

TAPE_LIBRARY_READ_DAY

- Description: Tape Library - total amount of data READ operations.
- Events: TAPE_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Library Serial Number
- Collection Interval: Day

TAPE_LIBRARY_READ_MONTH

- Description: Tape Library - total amount of data READ operations.
- Events: TAPE_READ
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Library Serial Number
- Collection Interval: Month

TAPE_LIBRARY_WRITE

- Description: Tape Library - total amount of data WRITE operations.
- Events: TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Library Serial Number
- Collection Interval: Lifetime

TAPE_LIBRARY_WRITE_DAY

- Description: Tape Library - total amount of data WRITE operations.
- Events: TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Library Serial Number
- Collection Interval: Day

TAPE_LIBRARY_WRITE_MONTH

- Description: Tape Library - total amount of data WRITE operations.
- Events: TAPE_WRITE
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Library Serial Number
- Collection Interval: Month

TAPE_MOUNT_DISMOUNT_NUMBER

- Description: Tape - number of MOUNT and DISMOUNT operations (together).
- Events: TAPE_DISMOUNT, TAPE_MOUNT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_MOUNT_NUMBER

- Description: Tape - number of MOUNT operations.
- Events: TAPE_MOUNT
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_READ_WRITE_ABORTED_NUMBER

- Description: Tape - number of aborted READ and WRITE operations (together).
- Events: TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_READ_WRITE_ABORTED_NUMBER_DAY

- Description: Tape - number of aborted READ and WRITE operations (together).
- Events: TAPE_READ_ERR, TAPE_WRITE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Day

TAPE_READ_WRITE_NUMBER

- Description: Tape - number of READ and WRITE operations.
- Events: TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Lifetime

TAPE_READ_WRITE_NUMBER_DAY

- Description: Tape - number of READ and WRITE operations.
- Events: TAPE_READ, TAPE_WRITE
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Tape Barcode
- Collection Interval: Day

TAPE_REPACK_NUMBER

- Description: Tape - number of REPACK, REUSE and REFORMAT operations (together).
- Events: TAPE_REPACK
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Local DIVA Core System
- Collection Interval: Lifetime

TRANSCODE_ABORTED_NUMBER

- Description: Transcoder - number ABORTED TRANSCODE operations.
- Events: TRANSCODE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Lifetime

TRANSCODE_ABORTED_NUMBER_DAY

- Description: Transcoder - number ABORTED TRANSCODE operations.
- Events: TRANSCODE_ERR
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Day

TRANSCODE_AVG_DATA

- Description: Transcoder - average amount of data transcoded.
- Events: TRANSCODE_END
- Operation: Weighted Average
- Weight Factor: Duration
- Collection Field: Transfer Size
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Lifetime

TRANSCODE_AVG_DATA_DAY

- Description: Transcoder - average amount of data transcoded.
- Events: TRANSCODE_END
- Operation: Weighted Average
- Weight Factor: Duration
- Collection Field: Transfer Size
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Day

TRANSCODE_AVG_THROUGHPUT

- Description: Transcoder - average transcoding throughput.
- Events: TRANSCODE_END
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Lifetime

TRANSCODE_AVG_THROUGHPUT_DAY

- Description: Transcoder - average transcoding throughput.
- Events: TRANSCODE_END
- Operation: Average
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Day

TRANSCODE_DATA

- Description: Transcoder - amount of data transcoded.
- Events: TRANSCODE_END
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Lifetime

TRANSCODE_DATA_DAY

- Description: Transcoder - amount of data transcoded.
- Events: TRANSCODE_END
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Day

TRANSCODE_DATA_MONTH

- Description: Transcoder - amount of data transcoded.
- Events: TRANSCODE_END
- Operation: Sum
- Weight Factor: Null
- Collection Field: Transfer Size
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Month

TRANSCODE_MAX_THROUGHPUT

- Description: Transcoder - maximum transcoding throughput.
- Events: TRANSCODE_END
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Lifetime

TRANSCODE_MAX_THROUGHPUT_DAY

- Description: Transcoder - maximum transcoding throughput.
- Events: TRANSCODE_END
- Operation: Maximum
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Day

TRANSCODE_MIN_THROUGHPUT

- Description: Transcoder - minimum transcoding throughput.
- Events: TRANSCODE_END
- Operation: Minimum
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Lifetime

TRANSCODE_MIN_THROUGHPUT_DAY

- Description: Transcoder - minimum transcoding throughput.
- Events: TRANSCODE_END
- Operation: Minimum
- Weight Factor: Null
- Collection Field: Transfer Rate
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Day

TRANSCODE_NUMBER

- Description: Transcoder - number of TRANSCODE operations.
- Events: TRANSCODE_END
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Lifetime

TRANSCODE_NUMBER_DAY

- Description: Transcoder - number of TRANSCODE operations.
- Events: TRANSCODE_END
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Day

TRANSCODE_NUMBER_MONTH

- Description: Transcoder - number of TRANSCODE operations.
- Events: TRANSCODE_END
- Operation: Count
- Weight Factor: Null
- Collection Field: Event ID
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Month

TRANSCODE_TIME

- Description: Transcoder - time in TRANSCODE operation.
- Events: TRANSCODE_END
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Lifetime

TRANSCODE_TIME_DAY

- Description: Transcoder - time in TRANSCODE operation.
- Events: TRANSCODE_END
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Day

TRANSCODE_TIME_MONTH

- Description: Transcoder - time in TRANSCODE operation.
- Events: TRANSCODE_END
- Operation: Sum
- Weight Factor: Null
- Collection Field: Duration
- Aggregation Field: Transcoder Name or Analyzer Name
- Collection Interval: Month

Default Configuration Parameters

You configure the Analytics App parameters on the System Management App the Analytics App tab. The default the Analytics App configuration parameters are as follows:

| Parameter | Default | Values |
|--|-----------|---------------------|
| DIVA Core: Enable/Disable Analytics App Data Collection | Enabled | Enabled or Disabled |
| DIVA Core: Size Triggering Event Queue DB Flush (number of events) | 100 | Integer |
| DIVA Core: Time Delay Triggering Event Queue DB Flush (seconds) | 15 | Integer |
| Conf Utility GUI: Enable/Disable Analytics App Configuration | Enabled | Enabled or Disabled |
| DB: Maximum possible history of Events in Months | 12 | Integer |
| DB: Maximum possible number of Metrics | 1,000,000 | Integer |

Glossary

Action

A predetermined reaction of a metric surpassing a threshold value by one of the variables from its internal state.

Events

A data element containing all facts (names, IDs, parameters, numbers, and so on) related to one occurrence of an operation inside the DIVA Core system. For example, Tape Read Complete, or Tape Eject Complete.

Journal

A self-maintained, automated, and configurable storage for [Events](#).

Measurement

A reading of specific information from an Event or a [Resource](#). For example, the duration of a disk write operation, or the occurrence of a read error on a tape drive.

Metrics

An instance of one [Metric Definition](#) for a specific [Resource](#). Each metric is associated with a specific resource and can receive a flow of measurements from that attached resource.

A metric has an internal state that consists of several numeric values that it updates on its own when given new measurements. It provides read access to this logically consistent state. Each metric can be used as a measurement value for the state of another metric. You can reset the internal state at any time. You can also enable or disable metrics.

Metric Definition

Defines how a Metric is calculated by specifying which Events are examined, which Measurements are extracted, how they are aggregated (Collection Type), and which Resource the aggregation is based on. See [Event and Metric Definitions](#) for predefined metrics in the system.

Metric Type

The metric types are as follows:

- Hourly metric types are calculated every hour for the associated resource.

- Daily metric types are calculated every day for the associated resource.
- Monthly metric types are calculated every month for the associated resource.
- Yearly metric types are calculated every year for the associated resource.
- Lifetime metric types are calculated throughout the lifetime of the associated resource.

Resource

A uniquely identified element of the DIVA Core system made available to the Analytics App. **Events** and **Metrics** identify the resources. The following are examples of resources in DIVA Core:

- Tape with Barcode ABE6785
- DIVA Core Actor Actor01
- Tape Drive Serial Number 134001021

Resource Type

These are generic types of resources. For example, tapes, tape drives, DIVA Core requests, or Virtual Objects.