



Telestream



DIVA Core 8.0

REST API Programmer's Guide

Release: 1.0

Revision: 1.0

Copyrights and Trademark Notices

Specifications subject to change without notice. Copyright © 2022 Telestream, LLC and its Affiliates. Telestream, CaptionMaker, Cerify, DIVA, Episode, Flip4Mac, FlipFactory, Flip Player, Gameshow, GraphicsFactory, Kumulate, Lightspeed, MetaFlip, Post Producer, Prism, ScreenFlow, Split-and-Stitch, Switch, Tempo, TrafficManager, Vantage, VOD Producer, and Wirecast are registered trademarks and Aurora, ContentAgent, Cricket, e-Captioning, Inspector, iQ, iVMS, iVMS ASM, MacCaption, Pipeline, Sentry, Surveyor, Vantage Cloud Port, CaptureVU, Cerify, FlexVU, PRISM, Sentry, Stay Genlock, Aurora, and Vidchecker are trademarks of Telestream, LLC and its Affiliates. All other trademarks are the property of their respective owners.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

Contents

Telestream Contact Information 4

Overview 5

DIVA Core Concepts	6
Archive Request	6
Restore Request	7
Partial Restore	7
Delete Request	7
Main DIVA API Calls	8

Data Service API 9

Switching to Manager Endpoints	10
--------------------------------	----

Workflows 11

Roles	12
DIVA API Workflows	14
DIVA Request Status Codes	15
Partial Restore Request Formats and Manager Responses	17
Request and Response Samples	17
Sample 1: Body for Bytes Partial Restore	17
Sample 2: Body for Video GXF (timecode) Partial Restore	18
Sample 3: Body for File-Folder based Partial Restore	18
Sample 4: Body for DPX (Range) PR	18

Getting Started 19

Initial Configuration	20
Sample Program	26

Telestream Contact Information

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

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

Overview

This book gives an operational understanding of system functionality and instructions for using the DIVA Core REST API.

DIVA Core exposes its functionality through a REST interface. It is self-contained in DIVA 8.0 and all future DIVA releases. In the 8.0 release, the API is used exclusively by the DIVA Web Application.

Note: Telestream recommends using the REST API rather than the previous existing APIs (that is, DIVA Enterprise Connect, DIVAS, Java and C++). Although all previous APIs will remain available, the REST API offers new and enhance features.

JSON files can be downloaded for the REST API from SharePoint here:
<https://tinyurl.com/y5c36jeb>

- [DIVA Core Concepts](#)
- [Main DIVA API Calls](#)

DIVA Core Concepts

The following information are standard DIVA Core concepts.

Archive Request

DIVA stores objects; an object is a set of files referring to an asset or a clip. An object can be made of 1 file, typically MXF file or with several files like reference mov format (one video file, several audio files), or DPX format.

An object is identified by a name and a category also called Collection. You can choose whatever names for object name and category you want, DIVA only checks that the object name + category combination is unique.

In DIVA, a Category (or Collection) is like a name extension and should not be confused with a Tape Group. You can put any name as the category. Telestream recommends putting your application or company name so we can identify who has sent a request. Should you use the same object name for different clips (typically hires and lowers), you can put a different category to distinguish those clips.

The Files parameter provides the names of the files of the object to be archived; each name can contain a relative path to the file location.

Media Name is the DIVA device used for storing the object; it can be a disk, a tape or cloud storage. Each of these devices can have multiple names based on partitioning (for example, DIVAGRID, NAS-STORAGE, TAPE_SPORTS_MAIN, TAPE_SPORTS_BKP, CLOUD_PROGRAM, CLOUD_PROMOS, and so on). You can get the list of all Arrays and Tape Groups from DIVA but you do not necessarily need to expose all of them to the end user. The Media can be also a Storage Plan. You should check with the customer and the DIVA Project Manager about which Media to expose to the end user.

The Source Server Name is the content server name where DIVA will archive from. It must be the same name as in DIVA configuration. Confirm this with the customer or DIVA Project Manager for this list.

The Source Path Root is the File Path Root where the content objects are located. By default, DIVA will use the default File Path Root configured for that source in the DIVA configuration.

Note: The Source list can be obtained using the *GET /servers* DIVA API call.

The Quality of Service parameter can remain at the default setting.

The Priority (between 1 and 100 highest) can either remain at the default, or you can specify a value.

If the Delete From Source option is check box is selected, then that parameter will delete the asset just archived from the Source Server, but only if the archive was successful.

Restore Request

The following items must be specified for a Restore Request:

- Object Name
- Object Category (Collection)
- Source/Destination Server Name
- The File Path Root; if empty, DIVA will take the File Path Root used during the Archive request and will overwrite the object if it already exists, unless the Do Not Overwrite option is specified.

Partial Restore

The Partial Restore parameters are the same as the Restore parameters with the following additional options:

- Offset or Timecodes (In/Out) or File List
- Partial Restore will create a new clip name because it generates a new clip created with a portion of the original clip.

Delete Request

A Delete Object Request will delete all copies of that object whether they are on disk, tape (in the tape library or external), or in the cloud. You must specify the Object Name and Object Category (Collection).

Main DIVA API Calls

The following are the main DIVA API calls available and are the minimum required to implement the basic [DIVA API Workflows](#):

- */users/login Post*
- */users/logout Post*
- */groups Get*
- */arrays Get*
- */object/info Get*
- */objects/list Get*
- */requests Get*
- */requests/archive Post*
- */requests/cancel Post*
- */requests/delete Post*
- */requests/partialRestore Post*
- */requests/restore Post*
- */requests/{requestId} Get*
- */versions Get*

Data Service API

The REST API detailed documentation is included in DIVA Core as HTTP documentation; which is accessible directly from within the REST API. The Swagger documentation for the REST API services is accessible at <https://localhost:8765/api-docs>. You can switch from the Data Service endpoints to the Manager Service endpoints using the pull down menu at the top of the page.

This is the API used to communicate with the DIVA Core Database. Only user, profile, and endpoints are exposed. The Data Service is used to manage users, roles and profiles. After a user is created through *POST /users*, that user can obtain an access token through *POST /users/login* that will be needed for all future communication; including accessing all DIVA resources available in the Manager Endpoints.

- [Switching to Manager Endpoints](#)

Switching to Manager Endpoints

swagger dataservice (/api/v1/dataservice/v2/api-docs) Explore

DIVA Core Data Service API

[Apache 2.0](#)

profile		Show/Hide	List Operations	Expand Operations
GET	/profile			Get a user's profile
PUT	/profile			Update a user's profile
role		Show/Hide	List Operations	Expand Operations
GET	/roles			Get the list of all DIVA Core roles
user		Show/Hide	List Operations	Expand Operations
POST	/register			Create a DIVA Core user
GET	/users			Get the list of all users
POST	/users			Create a DIVA Core user
POST	/users/keys			Create access and security key for user
POST	/users/login			Login a user
POST	/users/logout			Logout a user

The API is used to communicate with the DIVA Core Manager. These endpoints are used for submitting requests and obtaining information on DIVA Core resources and requests.

swagger manager (/api/v1/manager/v2/api-docs) Explore

DIVA Core Manager API

[Apache 2.0](#)

actor		Show/Hide	List Operations	Expand Operations
GET	/actors			Get the list of all actors
GET	/actors/{actorName}			Get information on a specific actor
analytics		Show/Hide	List Operations	Expand Operations
GET	/analytics/drives/alerts/logs			Drive Alert logs
GET	/analytics/events			Analytics events
GET	/analytics/events/definitions			Analytics event definitions
GET	/analytics/libraries/alerts/logs			Library Alert logs
GET	/analytics/requests/volume			Request volume
GET	/analytics/tapes/operations/view			Major Tape Operations summary
array		Show/Hide	List Operations	Expand Operations
GET	/arrays			Get the list of all arrays
GET	/arrays/distribution			Array distribution
GET	/arrays/{arrayName}			Get information on a specific array
collection		Show/Hide	List Operations	Expand Operations

Workflows

This chapter describes the DIVA API and Authentication Token Workflows. The REST API uses JWT (JSON Web Token) authentication specified in the authorization header of all requests. To obtain the token, you must *POST* to */users/login* on the data service; passing in your user name and password. There is a specific endpoint to get a authentication token and all the functions of the REST API require this token to function properly.

- [Roles](#)
- [DIVA API Workflows](#)
- [DIVA Request Status Codes](#)
- [Partial Restore Request Formats and Manager Responses](#)

The authentication phase is mandatory in order to get a token that will be used for any following API call. A token is valid 24 hours. It is advised to authenticate one time at the start of your application before the 1st call to a DIVA API call, and then use that token as long as it is valid. Any HTTP request using an invalid or expired token will fail with HTTP error code 403 (access denied).

The following process is the authentication workflow.

1. Upon log in the user will receive an authentication token.
2. An access token must be used to access secured endpoints. It will automatically expire after one day. Alternatively, a user may delete an access token by calling */users/logout*.
3. When an access token expires or is deleted, the client is considered as logged out and must login again.

Roles

A user may belong to one of five roles; sysadmin, admin, advoperator, operator, or user.

A User may perform all basic GET operations including the following:

- *POST /users/login*
- *POST /users/logout*

- *PUT /users/{userName}/password*
- *GET /profile*
- *PUT /profile*
- *GET /users*
- *GET /roles*
- *GET ANY RESOURCE* (for example, *GET /actors*)

An Operator may perform all the operations of a user and the following additional operations:

- *POST /requests/archive*
- *POST /requests/restore*
- *POST /requests/copy*

An Advanced Operator (advoperator) may perform all the operations of an operator and the following additional operations:

- *PUT /requests*
- *POST /requests/transferFiles*
- *POST /requests/insertTape*
- *POST /requests/ejectTape*
- *POST /requests/repackTape*
- *POST /requests/exportTape*
- *POST /requests/importTape*

An Administrator (admin) may perform all operations of an advoperator and the following additional operations:

- *POST /requests/delete*
- *POST /requests/serverDelete*

A System Administrator (sysadmin) may perform all operations of an administrator and the following additional operations:

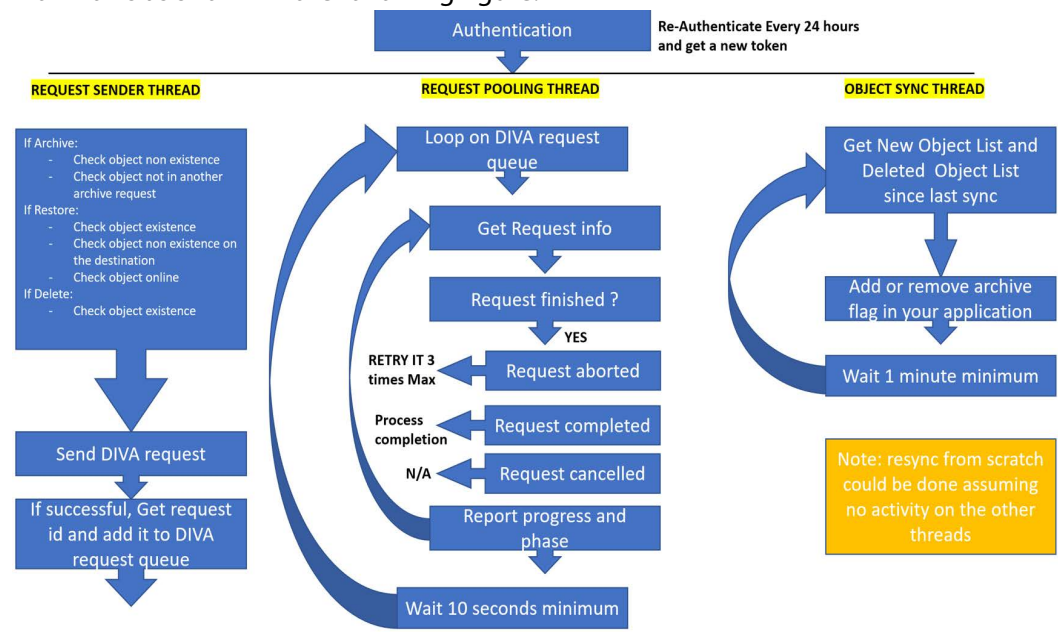
- *POST /users*
- *DELETE /users*
- *GET /users*
- *GET /roles*

DIVA API Workflows

The following guidelines should be used to develop your workflows using the DIVA API:

- First authentication: if possible use only one authentication to DIVA at the start of your application and use the token returned for your further API calls. Do not authenticate multiple times, and in particular not before each DIVA request.
- Send your DIVA request (archive, restore, and so on) using the token from the last step and get the request ID. Add the Request ID to your DIVA request queue.
- Pool every n seconds on your DIVA request queue list using *getRequestInfo*. Wait a minimum of 10 seconds between each pooling phase.
- You can get the progress and phase for each running request.
- You can cancel any running request.
- You can remove a finished request from your DIVA request queue. A finished request will be COMPLETED, PARTIALLY_COMPLETED, ABORTED, or CANCELLED.
- Avoid retrying too many times if a request fails.
- Before restoring an object, use *divaGetObjectInfo* to know if the object is online; there is no need to try to restore an offline object because it will fail.
- Try to develop a sync (or resync) mechanism to sync your application with DIVA objects using the Since Date option to discover new and deleted objects.

After authenticated, three different threads could be created to manage the DIVA workflows as shown in the following figure:



DIVA Request Status Codes

The following table identifies DIVA request status codes:

Code	Name	Description
1000	DIVA_OK	Success
1001	DIVA_ERR_UNKNOWN	Error : unknown error
1002	DIVA_ERR_INTERNAL	Error : internal error
1003	DIVA_ERR_NO_ARCHIVE_SYSTEM	Error : no archive system
1004	DIVA_ERR_BROKEN_CONNECTION	Error : broken connection
1005	DIVA_ERR_DISCONNECTING	Error : while disconnecting
1006	DIVA_ERR_ALREADY_CONNECTED	Error : already connected
1007	DIVA_ERR_WRONG_VERSION	Error : wrong software version
1008	DIVA_ERR_INVALID_PARAMETER	Error : invalid parameter
1009	DIVA_ERR_OBJECT_DOESNT_EXIST	Error : object doesn't exist
1010	DIVA_ERR_SEVERAL_OBJECTS	Error : several objects with this name
1011	DIVA_ERR_NO_SUCH_REQUEST	Error : no such request
1012	DIVA_ERR_NOT_CANCELABLE	Error : request is not cancellable
1013	DIVA_ERR_SYSTEM_IDLE	Error : DIVA system is idle
1014	DIVA_ERR_WRONG_LIST_SIZE	Error : wrong objects list size
1015	DIVA_ERR_LIST_NOT_INITIALIZED	Error : objects list is not initialized
1016	DIVA_ERR_OBJECT_ALREADY_EXISTS	Error : object already exists
1017	DIVA_ERR_GROUP_DOESNT_EXIST	Error : group, media or storage plan does not exist
1018	DIVA_ERR_SOURCE_OR_DESTINATION_DOESNT_EXIST	Error : source or destination doesn't exist
1019	DIVA_WARN_NO_MORE_OBJECTS	Warning : no more objects
1020	DIVA_ERR_NOT_CONNECTED	Error : not connected
1021	DIVA_ERR_GROUP_ALREADY_EXISTS	Error : group, media or storage plan already exists
1022	DIVA_ERR_GROUP_IN_USE	Error : archived objects belong to this group

Code	Name	Description
1023	DIVA_ERR_OBJECT_OFFLINE	Error : object offline
1024	DIVA_ERR_TIMEOUT	Error : timeout
1025	DIVA_ERR_LAST_INSTANCE	Error : last instance
1026	DIVA_ERR_PATH_DESTINATION	Error : destination path must be complete
1027	DIVA_ERR_INSTANCE_DOESNT_EXIST	Error : instance does not exist
1028	DIVA_ERR_INSTANCE_OFFLINE	Error : instance offline
1029	DIVA_ERR_INSTANCE_MUST_BE_ON_TAPE	Error : instance must be on tape
1030	DIVA_ERR_NO_INSTANCE_TAPE_EXIST	Error : no tape instance exists
1031	DIVA_ERR_OBJECT_IN_USE	Error : object in use
1032	DIVA_ERR_CANNOT_ACCEPT_MORE_REQUESTS	Error : cannot accept more requests
1033	DIVA_ERR_TAPE_DOESNT_EXIST	Error : tape doesn't exist
1034	DIVA_ERR_INVALID_INSTANCE_TYPE	Error : invalid instance type
1035	DIVA_ERR_ACCESS_DENIED	Error : access denied
1036	DIVA_ERR_OBJECT_PARTIALLY_DELETED	Error : object is partially deleted
1037	DIVA_ERR_LICENSE_DOES_NOT_SUPPORT_THIS_FEATURE	License does not support this feature
1038	DIVA_ERR_COMPONENT_NOT_FOUND	Error : component not found
1039	DIVA_ERR_OBJECT_IS_LOCKED	Error : object is locked
1040	DIVA_ERR_OBJECT_BEING_ARCHIVED	Error : object is being archived

The following table identifies possible status codes for unsuccessful Archive requests:

Code	Name	Description
1002	DIVA_ERR_INTERNAL	Error : internal error
1008	DIVA_ERR_INVALID_PARAMETER	Error : invalid parameter
1016	DIVA_ERR_OBJECT_ALREADY_EXISTS	Error : object already exists
1018	DIVA_ERR_SOURCE_OR_DESTINATION_DOESNT_EXIST	Error : source or destination doesn't exist
1040	DIVA_ERR_OBJECT_BEING_ARCHIVED	Error : object is being archived

Partial Restore Request Formats and Manager Responses

The following formats are used when issuing requests to the Manager:

- 0 - Bytes (range)
- 1 - Not Used
- 2 - Video GXF (timecode)
- 3 - Video SEA (timecode)
- 4 - Video AVI MATROX (timecode)
- 5 - Video MPEG2 TS (timecode)
- 6 - Video MXF (timecode)
- 7 - Video Pinnacle (timecode)
- 8 - Video Omneon (timecode)
- 9 - Video Leitch (timecode)
- 10 - Video Quantel (timecode)
- 11 – Autodetect which video format (timecode)
- 12 – File/Folder Based
- 13 – DPX (range)

Request and Response Samples

The following subsections are sample Partial Restore requests and Manager responses. Take note of the differences in offsets and formats.

Sample 1: Body for Bytes Partial Restore

```
{
  "destinationServer": "sourcedest",
  "minRequestPriority": -1,
  "instance": -1,
  "qos": 0,
  "offsets": [{
    "destinationFile": "DNxHD mxf wrap
confirmation.mov_BINARY_PFR_TEST_RESTAPI_API_023_A",
    "offsetPairs": [
      {
        "bytesEnd": 1,
        "bytesBegin": 0,
        "timeCode": false
      },
      {
        "bytesEnd": 2,
        "bytesBegin": 1,
        "timeCode": false
      }
    ]
  }
],
```

```

"sourceFile": "DNxHD mxf wrap confirmation.mov"
}],
"format": 0,
"options": " ",
"objectName": "Partial File",
"maxRequestPriority": 100,
"priority": -1,
"filePathRoot": "restore",
"collectionName": "Restore All Basic PFR should work"
}

```

Sample 2: Body for Video GXF (timecode) Partial Restore

```

{
"destinationServer": "sourcedest",
"minRequestPriority": -1,
"instance": -1,
"qos": 0,
"offsets": [{
"destinationFile": "Profile.gxf_VIDEO_PFR_TEST_RESTAPI_API_023_A",
"offsetPairs": [{
"timeCodeBegin": "00:00:00:00",
"timeCodeEnd": "00:00:00:01",
"bytesEnd": 0,
"bytesBegin": 0,
"timeCode": true
}],
}],
"sourceFile": "Profile.gxf"
}],
"format": 2,
"options": " ",
"objectName": "Partial File",
"maxRequestPriority": 100,
"priority": -1,
"filePathRoot": "restore",
"collectionName": "Restore All Basic PFR should work"
}

```

Sample 3: Body for File-Folder based Partial Restore

```

{
"destinationServer": "sourcedest",
"minRequestPriority": -1,
"instance": -1,
"qos": 0,
"offsets": [
{"fileFolder": {
"name": "DNxHD mxf wrap confirmation.mov",
"option": ""
}},
{"fileFolder": {
"name": "test.mov",
"option": ""
}}
],
"format": 12,

```

Getting Started

This chapter guides the user through getting started using the DIVA Core REST API.

- [Initial Configuration](#)
- [Sample Program](#)

Initial Configuration

During installation a user will be created by either the Telestream Installer, or your DIVA Administrator. You must obtain this information from the person who created the user; all automations and API calls will use that login and password combination. Go to the *POST users/login* endpoint and specify the login and password to log in; this is sufficient to get a token and proceed with the rest of the API calls.

POST /users/login

Implementation Notes
Returns the created token

Response Class (Status 200)
Successful operation

Model | Example Value

```
{
  "token": "string"
}
```

Response Content Type

Parameters

Parameter	Value	Description	Parameter Type	Data Type
Authorization	<input type="text"/>		header	string
userLogin	<pre>{ "password": "password", "username": "username" }</pre>	userLogin	body	Model Example Value <pre>{ "password": "string", "username": "string" }</pre>

Click the Try it out button and you will receive a token. Copy the contents of the Bearer token (everything in quotes after "token") as shown in the following figure:

The screenshot displays a REST client interface with the following sections:

- Response Messages:** A table listing HTTP status codes and reasons:

HTTP Status Code	Reason	Response Model	Headers
201	Created		
400	Invalid user supplied		
401	Unauthorized		
403	Forbidden		
404	User not found		
- Try it out:** A button labeled "Try it out!" and a link "Hide Response".
- Curl:** A code block showing the curl command:


```
curl -X POST --header 'Content-Type: application/json' --header 'Accept: application/json' -d '{ \
  "password": "password", \
  "username": "username" \
}' 'http://172.16.10.18:8765/dataservice/users/login'
```
- Request URL:** A text field containing "http://172.16.10.18:8765/dataservice/users/login".
- Request Headers:** A code block showing the headers:


```
{
  "Accept": "application/json"
}
```
- Response Body:** A code block showing the response body:


```
{
  "token": "Bearer eyJhbGciOiJIUzUxMiJ9.eyJleHAiOjE1ODcwMzI1IHR5cGU6Im1hdCI6MTU4NjkwNzE4NywiYXV0aG9yaXRpZXMiOiJic3IzYWRtaW4iXSwidXN"
}
```
- Response Code:** A text field containing "200".

You must submit a *POST /users* request by entering the token in the Authorization field to create a user. You must also specify the user name, password and role of the user you will create (see the following figure).

Note: Call *GET /roles* to get a list of the possible roles.

All DIVA Core Manager GET requests require at least the user role.

Archive, Restore (including N-Restore and Partial Restore) and Copy requests require at least the operator role.

Change Priority, Transfer, Eject, Insert, Export and Import requests require at least the advoperator role.

All other requests require the administrator role.

POST /register Create a DIVA Core user

Implementation Notes
Returns success / failure of creation of the user

Response Class (Status 200)
Successful operation

Model | **Example Value**

```
{
  "statusCode": 0,
  "statusDescription": "string",
  "statusName": "string"
}
```

Response Content Type: application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJleHAiOjE1ODc...		header	string
userReg	{ "password": "password", "role": "admin", "username": "username" }	userReg	body	Model Example Value { "password": "string", "role": "string", "username": "string" }

Parameter content type: application/json

You are now ready to start using the API to retrieve information from DIVA Core. You need to switch to the Manager endpoints to start using the API.

swagger

- dataservice (/dataservice/v2/api-docs)
- dataservice (/dataservice/v2/api-docs)
- manager (/manager/v2/api-docs)**

DIVA Core Data Service API

API used to communicate with the DIVA Core database. Only user, profile and role end-points are exposed.

The following figure is an example call to retrieve all configured Datahubs:

GET /actors Get the list of all actors

Implementation Notes
Returns actor information for all actors

Response Class (Status 200)
Successful operation

Model | **Example Value**

```
[
  {
    "actorToActorConnectTimeoutInSeconds": 0,
    "actorToActorTransferTimeoutInSeconds": 0,
    "address": "string",
    "associativeCopyEnabled": true,
    "cacheArchiveEnabled": true,
    "cacheReservedForRepack": 0,
    "cacheRestoreEnabled": true,
    "cloneEnabled": true,
    "findReserveEnabled": true
  }
]
```

Response Content Type: application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJleHAiOjE1ODc...		header	string
page	1	page to retrieve	query	integer
size	5	size of page	query	integer

Go to the Swagger page for that request and click on the Example Value to see all of the fields that must be specified for any request.

POST /requests/archive Creates an archive request.

Implementation Notes
Submits an archive request to the DIVA Core Manager. This call returns as soon as the Manager accepts the request. The application must call GET /requests(requestid) to check that the operation was successful.

Response Class (Status 200)
Submitted request

Model | Example Value

Response Content Type: application/json

Parameters

Parameter	Value	Description	Parameter Type	Data Type
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJhdWQiOiI1MjM.		header	string

body

```
{
  "collectionName": "testCollectionName",
  "comments": " ",
  "components": [
    "string"
  ],
  "filePathRoot": "string",
  "media": "A Valid Media, ex: array_002_axf",
  "objectName": "testObjectName",
  "options": " ",
  "priority": 50,
  "qos": 0,
  "sourceServer": "A Valid Source Server Name,
ex: ftproot"
}
```

Parameter content type: application/json

Archive Request to create

```
{
  "collectionName": "testCollectionName",
  "comments": " ",
  "components": [
    "string"
  ],
  "filePathRoot": "string",
  "media": "A Valid Media, ex: array_002_axf",
  "objectName": "testObjectName",
  "options": " ",
  "priority": 50,
  "qos": 0.
}
```

You can then specify the values and click Try it out.

Note: If you click on Model next to the Example Value tab it has a description of each field and a list possible values. For example, for qos, you'll see the list of possible QOS values and their meaning. A value of 2 signifies a QOS value of Direct-only.

priority (*integer, optional*): The priority level for this request. The priority can be in the range zero to one hundred. The value zero is the lowest priority and one hundred the highest priority,

qos (*integer, optional*): One of the following codes:
DIVA_QOS_DEFAULT (0): Archiving is performed according to the default Quality Of Service (currently: direct and cache for archive operations).

DIVA_QOS_CACHE_ONLY (1): Use cache archive only. DIVA_QOS_DIRECT_ONLY (2): Use direct archive only. No Disk Instance is created.

DIVA_QOS_DIRECT_AND_CACHE (3): Use direct archive if available or cache archive if direct archive is not available. DIVA_QOS_CACHE_AND_DIRECT (4): Use cache archive if available or direct archive if cache archive is not available. Additional and optional services are available. To request those services, use a logical OR between the previously documented Quality Of Service parameter and the following constant:

DIVA_ARCHIVE_SERVICE_DELETE_ON_SOURCE (0x0100): Delete source files when the tape migration is done. Available for local sources, disk sources, and standard ftp sources.,

sourceServer (*string*): Name of the Source (e.g. video server, browsing server). This name must be known to the DIVA Core Configuration Description.

Sample Program

The following is a sample program to get all Datahubs from DIVA in Python:

```
import requests

url = https://127.0.0.1:8765/dataservice/users/login

headers = {
    "Content-Type": "application/json; utf-8",
    "Accept": "application/json"
}

json = {
    "username": "enter_the_username_here",
    "password": "enter_the_password_here"
}

response = requests.post(url, headers=headers, json=json,
verify=False)

token = response.json()["token"]

print(token)

url = https://127.0.0.1:8765/manager/actors?page=1&size=5

headers = {
    "Accept": "application/json",
    "Authorization": token
}

response = requests.get(url, headers=headers, verify=False)

print(response.json())
```