



DIVA Core 8.1

REST API Programmer's 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 Technical Support	 Web Site: https://www.telestream.net/telestream-support/diva/support.htm 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. Support hours for customers are Monday - Friday, 7am - 6pm local time. P1 issues for customers are 24/7.
Telestream, LLC	Web Site: www.telestream.net Sales and Marketing Email: info@telestream.net Telestream, LLC 848 Gold Flat Road, Suite 1 Nevada City, CA USA 95959
International Distributor Support	Web Site: www.telestream.net See the Telestream Web site for your regional authorized Telestream distributor.
Telestream Technical Writers	Email: techwriter@telestream.net Share comments about this or other Telestream documents.



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: <u>https://tinyurl.com/y5c36jeb</u>

DIVA Core ConceptsMain 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. The Swagger documentation may also contain DIVA Connect REST API documentation as shown in the following figure:



You can switch from the Data Service endpoints to the Manager Service endpoints using the pull down menu at the top of the page.

- Data Service API
- Switching to Manager Endpoints

Data Service API

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

⊖ 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
рит /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.

\varTheta swagger	manager (/api/v1/manager/v2/api-docs)	۲	Explore

DIVA Core Manager API

<u>Apache</u>	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
analyt	ics	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 defintions
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.

- Authentication Token Workflow
- Roles
- DIVA API Workflows
- DIVA Request Status Codes
- Partial Restore Request Formats and Manager Responses



Authentication Token Workflow

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 / repack Tape
- POST /requests/exportTape
- POST / requests / import Tape

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

Code Name Description 1000 DIVA OK Success 1001 DIVA_ERR_UNKNOWN Error : unknown error 1002 Error : internal error DIVA_ERR_INTERNAL 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 Error : request is not cancellable DIVA ERR NOT CANCELABLE 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

The following table identifies DIVA request status codes:



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
],
```



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 Returns the creat	n Notes ted token			
Response Clas Successful oper	ss (Status 200) ation			
Model Example	e Value			
{ "token": "s }	tring"			
Response Conte	ent Type application/json 🔻			
Parameters				
Parameter	Value	Description	Parameter Type	Data Type
Authorization			header	string
userLogin	{ "password": "password",	userLogin	body	Model Example Value
	"username": "username" [^] }			<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:

Response Messag	es		
HTTP Status Code	Reason	Response Model	Headers
201	Created		
400	Invalid user supplied		
401	Unauthorized		
403	Forbidden		
404	User not found		
Try it out! Hide Re	sponse		
Curl			
<pre>curl -X POSThe "password": "P "username": "U }' 'http://172.1</pre>	ader 'Content-Type: application/ wsword", \ semame " \ 6.10.18:8765/dataservice/users/l	json'header 'Accept: application/json' -d '{ \ ogin'	
Request URL			
http://172.16.10.	18:8765/dataservice/users/login		
Request Headers			
{ "Accept": "appl }	ication/json"		
Response Body			
{ "token": " <mark>Bea</mark> }	rer eyJhbGciOiJTUzUxMiJ9.eyJleHA	iOjE1ODcwMzM1ODcsImlhdCI6HTU4Njk0NzE4NywiYXV0aG9yaXRpZXMiOlsic3lzY	/WRtaW4iXSwidXN
Response Code			
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.



POST /registe	r			Create a DIVA Core user
Implementation Returns success Response Clas Successful oper	n Notes 5 / failure of creation of the user 55 (Status 200) ation			θ
{ "statusCode" "statusDescr "statusName" }	': 0, ription": "string", ': "string"			
Response Conte	ent Type application/json ▼			
Parameters Parameter	Value	Description	Parameter Type	Data Type
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJleHAiOjE1ODc		header	string
userReg	{ "password": "password", "l-", "d-i-"	userReg	body	Model Example Value

All other requests require the administrator role.

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.

\varTheta 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.



actor			Show/Hide L	ist Operations Expand Operations
GET /actors				Get the list of all actors
Implementation Returns actor inf Response Clas Successful opera Model Example	Notes ormation for all actors s (Status 200) tition Value			0
[{ "actorToAc "address": "associati "cacheRese "cacheRese "cloneEnab "cloneEnab	<pre>torConnectTimeoutInSeconds": 0, torTransferTimeoutInSeconds": 0, "string", veCopyEnabled": true, iveEnabled": true, rvedForRepack": 0, oreEnabled": true, led": true, iveEnabled": true,</pre>			•
Response Conte Parameters Parameter	nt Type application/json Value	Description	Parameter Type	Data Type
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJleHAiOjE10Dc		header	string
page	1	page to retrieve	query	integer
size	5	size of page	query	integer

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

The following figure is the start of the response:

To submit a request (for example an Archive request) you must submit a request to *POST/requests/archive*. The header must contain an Authorization Key with the bearer token as the value. The following is an example archive request:

```
curl -X POST --header 'Content-Type: application/json' --header
'Accept: application/json' --header 'Authorization: Bearer
eyJhbGciOiJIUzUxMiJ9.eyJhdWQiOiI1MjM5YTcxOS1iYjAwLTQ5MWQtOGYxZiO1Z
jcxM2YxZWZiMjMiLCJ1eHAiOjE2MjEzNTYOMDcsImlhdCI6MTYyMTI3MDAwNywiYXV
0aG9yaXRpZXMiOlsic3lzYWRtaW4iXSwidXNlcm5hbWUiOiJzeXNhZG1pbiJ9.zZiK
vEe-3JjuOsJ-CDpW_32JKRefy54-wGwra_LABmUeuIhpWGEpHnT-
Se5PXTFxvjDf2g9mgezKQIvIJzObzQ' -d '{ \
```



```
"collectionName": "a", \
"comments": "this is object a2", \
"components": [ \
    "1.txt" \
], \
"filePathRoot": "", \
"media": "default", \
"objectName": "a2", \
"options": " ", \
"priority": 50, \
"qos": 2, \
"sourceServer": "dfm_ftp_sd_for_diva_test" \
}' 'http://172.16.10.18:8765/manager/requests/archive'
```

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 /reques	sts/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 Conte Parameters Parameter	ent Type [application/json ♥] Value	Description	Parameter Type	Data Type
Authorization	Bearer eyJhbGciOiJIUzUxMiJ9.eyJhdWQiOil1MjM!		header	string
body	<pre>{ (collectionName": "testCollectionName", "comments": ", "comments": ["string"], "filePathRoot": "string", "media": "A Valid Media, ex: array_002_axf", "objectName": "testObjectName", "options": ", "prions": ", "gos": 0, "sourceServer": "A Valid Source Server Name, ex: ftproot" } Parameter content type: application/ison </pre>	Archive Request to create	body	<pre>Model Example Value { "collectionName": "testCollectionName", "components": ["string"], "filePathRoot": "string", "media": "A Valid Media, ex: array_002_axf", "objectName": "testObjectName", "options": " ", "priority": 50, "aos": 0.</pre>

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. gos (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())
```

