

---

# Rivendell Web Interface API

Fred Gleason

## Table of Contents

Data Types .....	1
Result Reporting .....	2
AddCart .....	2
AddCut .....	3
AssignSchedCode .....	3
AudioInfo .....	3
AudioStore .....	4
DeleteAudio .....	4
EditCart .....	4
EditCut .....	5
Export .....	7
ExportPeaks .....	8
Import .....	8
ListCart .....	8
ListCarts .....	9
ListCartSchedCodes .....	9
ListCut .....	10
ListCuts .....	10
ListGroup .....	11
ListGroups .....	11
ListLog .....	11
ListLogs .....	12
ListSchedulerCodes .....	12
ListServices .....	12
RemoveCart .....	13
RemoveCut .....	13
TrimAudio .....	13
UnassignSchedCode .....	14

## Data Types

**Table 1. Data Types**

TYPE	DESCRIPTION
DateTime	xs:dateTime format string: YYYY-MM-DDTHH:MM:SS[Z][+HH:MM][-HH:MM]  If no timezone information is specified, all values will be assumed to be in the local timezone of the processing system.
Date	xs:date format string: YYYY-MM-DD[Z][+HH:MM][-HH:MM]

TYPE	DESCRIPTION
	If no timezone information is specified, all values will be assumed to be in the local timezone of the processing system.
Time	<p>xs:time format string: <i>HH:MM:SS[Z][+HH:MM]   [-HH:MM]</i></p> <p>If no timezone information is specified, all values will be assumed to be in the local timezone of the processing system.</p>
String	Text data, encoded

## Result Reporting

Commands that return an error or do not return specialized data types (e.g. audio data for the Export command) will return an XML document describing the result of the command, in the following format:

```
<RDWebResult>
  <ResponseCode>resp_code</ResponseCode>
  <ErrorString>resp_string</ErrorString>
  <AudioConvertError>conv_error_code</AudioConvertError>
</RDWebResult>
```

<i>resp_code</i>	The HTTP result code, as defined in RFC2616
<i>resp_string</i>	A text string describing the result, suitable for displaying in a UI
<i>conv_error_code</i>	An extended error code from the audio converter routines. These values are defined in the <code>RDAudioConvert::ErrorCode</code> enumeration in <code>lib/rdaudioconvert.h</code> . This parameter is optional.

## AddCart

Add a new cart

Command Code: `RDXPORT_COMMAND_ADDCART`

Required User Permissions: `Create Carts`

A 403 error will be returned if the requested cart number is not within the configured range for the specified group and 'Enforce Cart Range' is set in `RDAdmin->ManageGroups`.

**Table 2. AddCart Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	12	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory

FIELD NAME	MEANING	REMARKS
GROUP_NAME	Name of Group	Mandatory
TYPE	Cart type	Valid values are "audio" or "macro"
CART_NUMBER	Number of Cart	Optional, default is to use next available cart number for specified group

## AddCut

Add a new cut to an existing cart

Command Code: RDXPORT\_COMMAND\_ADDCUT

Required User Permissions: Edit Audio

A 404 error will be returned if the requested cart number is not authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms.

**Table 3. AddCut Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	10	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory

## AssignSchedCode

Assign a scheduler code to an existing cart

Command Code: RDXPORT\_COMMAND\_ASSIGNSCHEDCODE

Required User Permissions: Modify Carts

A 404 error will be returned if the specified cart number is not authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms.

**Table 4. AssignSchedCode Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	25	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CODE	Scheduler Code to assign	Mandatory

## AudioInfo

Get information about an entry in the audio store

Command Code: RDXPORT\_COMMAND\_AUDIOINFO

Required User Permissions: none

**Table 5. AudioInfo Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	19	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CUT_NUMBER	Number of Cut	Mandatory

## AudioStore

Get information about the audio store

Command Code: RDXPORT\_COMMAND\_AUDIOSTORE

Required User Permissions: none

**Table 6. AudioStore Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	23	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory

## DeleteAudio

Delete PCM/MPEG data from the audio store

Command Code: RDXPORT\_COMMAND\_DELETEAUDIO

Required User Permissions: Delete Carts

**Table 7. DeleteAudio Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	3	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CUT_NUMBER	Number of Cut	Mandatory

## EditCart

Write metadata changes for an existing cart into the database

Command Code: RDXPORT\_COMMAND\_EDITCART

**Required User Permissions: Modify Carts**

A 404 error will be returned if the requested cart belongs to a group that is not authorized for the specified Rivendell user in RDAAdmin->ManageUsers->AssignGroupPerms, or if it is attempted to assign the cart to such a group.

A 409 error will be returned if the requested cart's number falls outside the valid range for the requested GROUP\_NAME.

If the tags for an 'optional' field are omitted, then the respective parameter on the target cart will be left unchanged.

**Table 8. EditCart Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	14	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
INCLUDE_CUTS	Include cut data in return, 0 = no, 1 = yes	Optional, default is 0
GROUP_NAME	Set Rivendell group	Optional
TITLE	Set Title	Optional
ARTIST	Set Artist	Optional
ALBUM	Set Album	Optional
YEAR	Set Year	Optional
LABEL	Set Record Label	Optional
CLIENT	Set Client	Optional
AGENCY	Set Agency	Optional
PUBLISHER	Set Publisher	Optional
COMPOSER	Set Composer	Optional
USER_DEFINED	Set User Defined	Optional
USER_CODE	Set User Code	Optional
ENFORCE_LENGTH	Set Enforce Length State	Optional, Numeric, 0 = No, 1 = Yes
FORCED_LENGTH	Set Forced Length	Optional, in milliseconds
ASYNCHRONOUS	Set Asynchronous	Optional, Numeric, 0 = No, 1 = Yes
OWNER	Set Owner	Optional
NOTES	Set Notes Text	Optional

## EditCut

Write metadata changes for an existing cut into the database

Command Code: RDXPORT\_COMMAND\_EDITCUT

Required User Permissions: Edit Audio

A 404 error will be returned if the requested cart belongs to a group that is not authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms.

If the tags for an 'optional' field are omitted, then the respective parameter on the target cart will be left unchanged.

**Table 9. EditCut Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	15	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CUT_NUMBER	Number of Cut	Mandatory
EVERGREEN	Set the Evergreen Flag, valid values are 0 = no, 1 = yes	Optional
DESCRIPTION	Set Description	Optional
OUTCUE	Set Outcue	Optional
ISRC	Set International Standard Recording Code	Optional
ISCI	Set International Standardized Commercial Identifier	Optional
START_DATETIME	Set Start Date/Time	Optional, RFC-822 format
END_DATETIME	Set End Date/Time	Optional, RFC-822 format
MON	Set Monday daypart flag	Optional, 0 = no, 1 = yes
TUE	Set Tuesday daypart flag	Optional, 0 = no, 1 = yes
WED	Set Wednesday daypart flag	Optional, 0 = no, 1 = yes
THU	Set Thursday daypart flag	Optional, 0 = no, 1 = yes
FRI	Set Friday daypart flag	Optional, 0 = no, 1 = yes
SAT	Set Saturday daypart flag	Optional, 0 = no, 1 = yes
SUN	Set Sunday daypart flag	Optional, 0 = no, 1 = yes
START_DAYPART	Set Start daypart time	Optional, RFC-822 format
END_DAYPART	Set End daypart time	Optional, RFC-822 format
WEIGHT	Set rotation weight	Optional, numeric
START_POINT	Set Start Marker position	Optional, mS from absolute start of audio data
END_POINT	Set End Marker position	Optional, mS from absolute start of audio data
FADEUP_POINT	Set Fadeup Marker position	Optional, mS from absolute start of audio data
FADEDOWN_POINT	Set Fadedown Marker position	Optional, mS from absolute start of audio data

FIELD NAME	MEANING	REMARKS
SEGUE_START_POINT	Set Segue Start Marker position	Optional, mS from absolute start of audio data
SEGUE_END_POINT	Set Segue End Marker position	Optional, mS from absolute start of audio data
HOOK_START_POINT	Set Hook Start Marker position	Optional, mS from absolute start of audio data
HOOK_END_POINT	Set Hook End Marker position	Optional, mS from absolute start of audio data
TALK_START_POINT	Set Talk Start Marker position	Optional, mS from absolute start of audio data
TALK_END_POINT	Set Talk End Marker position	Optional, mS from absolute start of audio data

## Export

Export audio data from the audio store

Command Code: RDXPORT\_COMMAND\_EXPORT

Required User Permissions: none

**Table 10. Export Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	1	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CUT_NUMBER	Number of Cut	Mandatory
FORMAT	Encoding format of exported data	Mandatory, 0 = PCM16 WAV, 2 = MPEG L2 native, 3 = MPEG L3 native, 4 = FLAC, 5 = OggVorbis, 6 = MPEG L2 WAV, 7 = PCM24 WAV
CHANNELS	Number of audio channels	Mandatory
SAMPLE_RATE	Sample rate	Mandatory, in samples/sec
BIT_RATE	Bit rate	Mandatory, set to '0' for PCM or VBR
QUALITY	Quality Level	Mandatory, used only by OggVorbis, set to '0' for others
START_POINT	Start point of audio export	Mandatory, mS from absolute start of stored audio
END_POINT	End point of audio export	Mandatory, mS from absolute start of stored audio
NORMALIZATION_LEVEL	Normalization level, in dBFS	Mandatory, 0 = No normalization
ENABLE_METADATA	Include metadata in export	Mandatory, 0 = no, 1 = yes

## ExportPeaks

Export audio peak data from the audio store

Command Code: RDXPORT\_COMMAND\_EXPORT

Required User Permissions: none

A 404 error will be returned if the requested cart is not authorized for the specified Rivendell user in RDAdmin->ManageUsers->AssignGroupPerms.

**Table 11. ExportPeaks Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	16	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CUT_NUMBER	Number of Cut	Mandatory

## Import

Import audio data into the audio store

Command Code: RDXPORT\_COMMAND\_IMPORT

Required User Permissions: Edit Audio

A 404 error will be returned if the requested cart is not authorized for the specified Rivendell user in RDAdmin->ManageUsers->AssignGroupPerms.

NOTE: The method must be called with 'multipart/form-data' encoding.

**Table 12. Import Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	2	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CUT_NUMBER	Number of Cut	Mandatory
CHANNELS	Number of audio channels	Mandatory
NORMALIZATION_LEVEL	Normalization level, in dBFS	Mandatory, 0 = no normalization
AUTOTRIM_LEVEL	Autotrim level, in dBFS	Mandatory, 0 = no autotrim
USE_METADATA	Apply source metadata to cart	Mandatory, 0 = No, 1 = Yes
FILENAME	Binary file data	Mandatory

## ListCart

Return information about a specified cart



Command Code: RDXPORT\_COMMAND\_LISTCART

Required User Permissions: none

A 404 error will be returned if the requested cart belongs to a group that is not authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms.

**Table 13. ListCart Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	7	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
INCLUDE_CUTS	Include cut information in return	Optional, 0 = no, 1 = yes, default is 1

## ListCarts

Return information about a set of carts

Command Code: RDXPORT\_COMMAND\_LISTCARTS

Required User Permissions: none

Only those carts that belong to groups authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms will be returned.

**Table 14. ListCarts Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	6	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
GROUP_NAME	Limit returns to members of specified group	Optional, default is to search all available carts
INCLUDE_CUTS	Include cut information in return	Optional, 0 = no, 1 = yes, default is 1
FILTER	Limit returns to carts containing specified space-separated keyword(s)	Optional, default is to apply no filtering
TYPE	Limit returns to carts of the specified type	Optional, valid values are 'audio' or 'macro'

## ListCartSchedCodes

Return information about all scheduler codes assigned to a cart

Command Code: RDXPORT\_COMMAND\_LISTCARTSCHEDCODES

Required User Permissions: none

A 404 error will be returned if the requested cart belongs to a group that is not authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms.

**Table 15. ListCartSchedCodes Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	27	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory

## ListCut

Return information about a specified cut

Command Code: RDXPORT\_COMMAND\_LISTCUT

Required User Permissions: none

A 404 error will be returned if the requested cart belongs to a group that is not authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms.

**Table 16. ListCut Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	8	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CUT_NUMBER	Number of Cut	Mandatory

## ListCuts

Return information about all cuts belonging to a cart

Command Code: RDXPORT\_COMMAND\_LISTCUTS

Required User Permissions: none

A 404 error will be returned if the requested cart belongs to a group that is not authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms.

**Table 17. ListCuts Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	9	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory

## ListGroup

Return information about a specified group

Command Code: RDXPORT\_COMMAND\_LISTGROUP

Required User Permissions: none

A 404 error will be returned if the requested group is not authorized for the specified Rivendell user in RAdmin->ManageUsers->AssignGroupPerms.

**Table 18. ListGroup Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	5	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
GROUP_NAME	Name of group	Mandatory

## ListGroups

Return information about all available groups

Command Code: RDXPORT\_COMMAND\_LISTGROUPS

Required User Permissions: none

The set of returned groups will be tailored according to what the specified Rivendell user is authorized to see in RAdmin->ManageUsers->AssignGroupPerms.

**Table 19. ListGroups Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	4	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory

## ListLog

Return a listing of the specified log

Command Code: RDXPORT\_COMMAND\_LISTLOG

Required User Permissions: none

**Table 20. ListLog Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	22	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory

FIELD NAME	MEANING	REMARKS
NAME	The name of the log	Mandatory

## ListLogs

Return information about all available logs

Command Code: RDXPORT\_COMMAND\_LISTLOGS

Required User Permissions: none

**Table 21. ListLogs Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	20	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
SERVICE_NAME	Limits returns to logs that are owned by specified service	Optional. Default is to return all logs.
TRACKABLE	Limits returns to logs that contain one or more voicetrack slots	Optional, valid values 0=no, 1=yes. Default is to return all logs

## ListSchedulerCodes

Return information about all available scheduler codes

Command Code: RDXPORT\_COMMAND\_LISTSCHEDCODES

Required User Permissions: none

**Table 22. ListSchedCodes Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	24	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory

## ListServices

Return information about all available services

Command Code: RDXPORT\_COMMAND\_LISTSERVICES

Required User Permissions: none

**Table 23. ListServices Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	21	Mandatory

FIELD NAME	MEANING	REMARKS
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
TRACKABLE	Limits returns to services that have a valid voicetracking configuration	Optional, valid values 0=no, 1=yes. Default is to return all services

## RemoveCart

Remove a cart from the Library

Command Code: RDXPORT\_COMMAND\_REMOVECART

Required User Permissions: Delete Cart

**Table 24. RemoveCart Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	13	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of cart	Mandatory

## RemoveCut

Remove an existing cut from a cart

Command Code: RDXPORT\_COMMAND\_REMOVECUT

Required User Permissions: Edit Audio

**Table 25. RemoveCut Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	11	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of cart	Mandatory
CUT_NUMBER	Number of cut	Mandatory

## TrimAudio

Return a time pointer to the first or last instance of a particular level in a cut.

Command Code: RDXPORT\_COMMAND\_TRIMAUDIO

Required User Permissions: Edit Audio

A 404 error will be returned if the requested cart is not authorized for the specified Rivendell user in RDAdmin->ManageUsers->AssignGroupPerms.

**Table 26. TrimAudio Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	17	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of cart	Mandatory
CUT_NUMBER	Number of cut	Mandatory
TRIM_LEVEL	Level in 1/100 dB, relative to Rivendell reference level (-16 dBFS)	Mandatory

## UnassignSchedCode

Unassign a scheduler code from an existing cart

Command Code: RDXPORT\_COMMAND\_UNASSIGNSCHEDCODE

Required User Permissions: Modify Carts

A 404 error will be returned if the specified cart number is not authorized for the specified Rivendell user in RDAdmin->ManageUsers->AssignGroupPerms.

**Table 27. UnassignSchedCode Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	26	Mandatory
LOGIN_NAME	Rivendell User Name	Mandatory
PASSWORD	Login Password	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CODE	Scheduler Code to assign	Mandatory