
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	9
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	xs:time format string: <i>HH:MM:SS[Z][+HH:MM] [-HH:MM]</i> If no timezone information is specified, all values will be assumed to be in the local timezone of the processing system.
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
CREATE	Create cart/cut if it does not exist	Optional, 0 = No, 1 = Yes
GROUP_NAME	Add newly created cart/cut to specified group.	Optional
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

FIELD NAME	MEANING	REMARKS
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

FIELD NAME	MEANING	REMARKS
PASSWORD	Login Password	Mandatory
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