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# Rivendell Web Interface API

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# Data Types

**Table 1. Data Types**

TYPE	DESCRIPTION
DateTime	xs:dateTime format string: <code>YYYY-MM-DDTHH:MM:SS[Z][+HH:MM][-HH:MM]</code>  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: <code>YYYY-MM-DD[Z][+HH:MM][-HH:MM]</code>  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: <code>HH:MM:SS[Z][+HH:MM][-HH:MM]</code>  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

## Authentication

With the exception of the **CreateTicket** command, all commands in this API must be authenticated by one of the following two methods:

## Username / Password

**Table 2. Username/Password Authentication Fields**

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

## Ticket

**Table 3. Ticket Authentication Fields**

FIELD NAME	MEANING	REMARKS
TICKET	40 character ticket code, obtained from a previous <b>CreateTicket</b> call.	Mandatory

## 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 4. AddCart Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	12	Mandatory
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 `RDAdmin->ManageUsers->AssignGroupPerms`.

**Table 5. AddCut Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	10	Mandatory
CART_NUMBER	Number of Cart	Mandatory

## AddLog

Add a new log

Command Code: RDXPORT\_COMMAND\_ADDLOG

Required User Permissions: Create Log

**Table 6. AddLog Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	29	Mandatory
LOG_NAME	Name of log to be created.	Mandatory
SERVICE_NAME	Name of the service to own the new log.	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 7. AssignSchedCode Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	25	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 8. AudioInfo Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	19	Mandatory

FIELD NAME	MEANING	REMARKS
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 9. AudioStore Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	23	Mandatory

## CreateTicket

Create an authorization ticket for a given user/client IP address

Command Code: RDXPORT\_COMMAND\_CREATETICKET

Required User Permissions: none

**Table 10. CreateTicket Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	31	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 11. DeleteAudio Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	3	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CUT_NUMBER	Number of Cut	Mandatory

## DeleteLog

Delete a log

Command Code: RDXPORT\_COMMAND\_DELETELOG

Required User Permissions: Delete Log

**Table 12. DeleteLog Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	30	Mandatory
LOG_NAME	Name of log to be deleted.	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 RAdmin->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 13. EditCart Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	14	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

FIELD NAME	MEANING	REMARKS
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 14. EditCut Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	15	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

FIELD NAME	MEANING	REMARKS
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
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 15. Export Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	1	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



FIELD NAME	MEANING	REMARKS
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 RAdmin->ManageUsers->AssignGroupPerms.

**Table 16. ExportPeaks Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	16	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 RAdmin->ManageUsers->AssignGroupPerms or if the system is configured to require unique titles and a non-unique title is provided in the TITLE field.

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

If the CREATE field is set to '1', a valid GROUP\_NAME specified and both CART\_NUMBER and CUT\_NUMBER fields are set to zero, the system will attempt to create a new cart/cut in the specified group. If successful, the cart and cut numbers will be returned as part of the RDWebResult return.

**Table 17. Import Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	2	Mandatory
CART_NUMBER	Number of Cart	Mandatory

FIELD NAME	MEANING	REMARKS
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
TITLE	The TITLE value for the imported audio. This will override any value found in in-file metadata.	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 18. ListCart Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	7	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 19. ListCarts Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	6	Mandatory

FIELD NAME	MEANING	REMARKS
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 20. ListCartSchedCodes Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	27	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 21. ListCut Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	8	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 22. ListCuts Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	9	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 23. ListGroup Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	5	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 24. ListGroups Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	4	Mandatory

## ListLog

Return a listing of the specified log

Command Code: RDXPORT\_COMMAND\_LISTLOG

Required User Permissions: none

**Table 25. ListLog Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	22	Mandatory
NAME	The name of the log	Mandatory

## ListLogs

Return information about one or more logs

Command Code: RDXPORT\_COMMAND\_LISTLOGS

Required User Permissions: none

**Table 26. ListLogs Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	20	Mandatory
SERVICE_NAME	Limit returns to logs that are owned by specified service	Optional. Default is to return all logs.
LOG_NAME	Return the log with this name.	Optional. Default is to return all logs.
TRACKABLE	Limit returns to logs that contain one or more voicetrack slots	Optional, valid values 0=no, 1=yes. Default is to return all logs.
FILTER	Limit returns to logs that contain the specified string in the Name, Description or Service fields.	Optional. Default is to return all logs.
RECENT	Limit returns to the 14 most recently created logs.	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 27. ListSchedCodes Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	24	Mandatory

## ListServices

Return information about all available services

Command Code: RDXPORT\_COMMAND\_LISTSERVICES

Required User Permissions: none

**Table 28. ListServices Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	21	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

## ListSystemSettings

Return information about system-wide settings

Command Code: RDXPORT\_COMMAND\_LISTSYSTEMSETTINGS

Required User Permissions: none

**Table 29. ListSystemSettings Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	33	Mandatory

## Rehash

Generate a SHA-1 hash for a cut and write it to the database

Command Code: RDXPORT\_COMMAND\_REHASH

Required User Permissions: None

**Table 30. Rehash Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	32	Mandatory
CART_NUMBER	Number of cart	Mandatory
CUT_NUMBER	Number of cut	Mandatory

## RemoveCart

Remove a cart from the Library

Command Code: RDXPORT\_COMMAND\_REMOVECART

Required User Permissions: Delete Cart

**Table 31. RemoveCart Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	13	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 32. RemoveCut Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	11	Mandatory
CART_NUMBER	Number of cart	Mandatory
CUT_NUMBER	Number of cut	Mandatory

## SaveLog

Save a log to the Rivendell Database

Command Code: RDXPORT\_COMMAND\_SAVELOG

Required User Permissions: none

**Table 33. ListLogs Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	28	Mandatory.
LOG_NAME	Save the log to this name. If it does not already exist, it will be created.	Mandatory. String, 64 characters max.
SERVICE_NAME	The name of the Service to which the log belongs.	Mandatory. String, 10 characters max.
DESCRIPTION	The Description field.	Mandatory. String, 64 characters max.
PURGE_DATE	The date on which the log should be automatically deleted.	Mandatory. Date.
AUTO_REFRESH	Enable/disable auto-refresh.	Mandatory. Boolean.
START_DATE	The Start Date.	Mandatory. Date.
END_DATE	The End Date.	Mandatory. Date.
LINE_QUANTITY	The number of log line entries in this call.	Mandatory. Positive integer.
LINE <sub>num</sub> _ID	Integer Id.	Mandatory. Unique positive integer.
LINE <sub>num</sub> _TYPE	Event type.	Mandatory. One of the following key words:  <b>Audio</b> <b>Chain</b>

FIELD NAME	MEANING	REMARKS
		<b>Macro</b> <b>Marker</b> <b>Track</b> <b>MusicLink</b> <b>TrafficLink</b>
LINEnum_CART_NUMBER	Cart number for Audio or Macro events.	Mandatory. Positive integer in the range 0 - 999999.
LINEnum_START_TIME	Event start time.	Mandatory. Integer, expressing milliseconds past midnight.
LINEnum_GRACE_TIME	Event start time.	Mandatory. Integer, expressing milliseconds.
LINEnum_TIME_TYPE	Start time type.	Mandatory. One of the following key words:  <b>Hard</b> <b>Relative</b>
LINEnum_TRANS_TYPE	Event transition type.	Mandatory. One of the following key words:  <b>Play</b> <b>Segue</b> <b>Stop</b>
LINEnum_START_POINT	Start point for one-off (voice-tracked) play-outs.	Mandatory. Positive integer, or -1 if not defined.
LINEnum_END_POINT	End point for one-off (voice-tracked) play-outs.	Mandatory. Positive integer, or -1 if not defined.
LINEnum_SEGUE_START_POINT	Segue start point for one-off (voice-tracked) play-outs.	Mandatory. Positive integer, or -1 if not defined.
LINEnum_SEGUE_END_POINT	Segue end point for one-off (voice-tracked) play-outs.	Mandatory. Positive integer, or -1 if not defined.
LINEnum_FADEUP_POINT	FadeUp point for one-off (voice-tracked) play-outs.	Mandatory. Positive integer, or -1 if not defined.
LINEnum_FADEUP_GAIN	Gain for FadeUp events.	Mandatory. 1/100 dBFS.
LINEnum_FADEDOWN_POINT	FadeDown point for one-off (voice-tracked) play-outs.	Mandatory. Positive integer, or -1 if not defined.
LINEnum_FADEDOWN_GAIN	Gain for FadeDown events.	Mandatory. 1/100 dBFS.
LINEnum_DUCK_UP_GAIN	Duck Up level for one-off (voice-tracked) play-outs.	Mandatory. Negative integer, or 0 if not defined.
LINEnum_DUCK_DOWN_GAIN	Duck Down level for one-off (voice-tracked) play-outs.	Mandatory. Negative integer, or 0 if not defined.
LINEnum_COMMENT	Marker and Track event body text.	Mandatory. String, max length 255.
LINEnum_LABEL	Marker and Track event label text.	Mandatory. String, max length 64.
LINEnum_ORIGIN_USER	User name for one-off (voice-tracked) events.	Mandatory. String, max length 255.



FIELD NAME	MEANING	REMARKS
LINEnum_ORIGIN_DATETIME	Date/time stamp for one-off (voice-tracked) events.	Mandatory. DateTime value.
LINEnum_EVENT_LENGTH	Link event length, in mS.	Mandatory. Integer.
LINEnum_LINK_EVENT_NAME	Link event name.	Mandatory. String, max length 64.
LINEnum_LINK_START_TIME	Link event start time, in mS past midnight.	Mandatory. Integer.
LINEnum_LINK_LENGTH	Link event length, in mS.	Mandatory. Integer.
LINEnum_LINK_START_SLOP	Link event start slop, in mS.	Mandatory. Integer.
LINEnum_LINK_END_SLOP	Link event end slop, in mS.	Mandatory. Integer.
LINEnum_LINK_ID	Link event id.	Mandatory. Integer.
LINEnum_LINK_EMBEDDED	Link event embedded flag.	Mandatory. Boolean.
LINEnum_EXT_START_TIME	External data start time.	Mandatory. Time value.
LINEnum_EXT_LENGTH	External data length.	Mandatory. Integer.
LINEnum_EXT_CART_NAME	External data cart name.	Mandatory. String, max length 32.
LINEnum_EXT_DATA	External data data field.	Mandatory. String, max length 32.
LINEnum_EXT_EVENT_ID	External data event id.	Mandatory. String, max length 32.
LINEnum_EXT_ANNC_TYPE	External data announcement type.	Mandatory. String, max length 8.

## 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 RAdmin->ManageUsers->AssignGroupPerms.

**Table 34. TrimAudio Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	17	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 35. UnassignSchedCode Call Fields**

FIELD NAME	MEANING	REMARKS
COMMAND	26	Mandatory
CART_NUMBER	Number of Cart	Mandatory
CODE	Scheduler Code to assign	Mandatory