
Rivendell Web Interface API

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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 |