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## Name

rd\_listcartcuts — Rivendell List Cart/Cuts C Library Function

## Synopsis

```
#include <rivwebcapi/rd_listcartcuts.h>

int RD_ListCartCuts(cart[], hostname[], username[], passwd[], ticket[],
cartnumber, user_agent[], numrecs);

struct rd_cart * cart[];
const char hostname[];
const char username[];
const char passwd[];
const char ticket[];
const unsigned cartnumber;
const char user_agent[];
unsigned * numrecs;

struct rd_cut *RD_ListCartCuts_GetCut(cart, cut_rec);

struct rd_cart * cart;
int cut_rec;

void RD_ListCartCuts_Free(cart);

struct rd_cart * cart;
```

## Description

**RD\_ListCartCuts** is the function to use to list the fields within a single cart that already exists in the Rivendell Database. Unlike **RD\_ListCart**(7), **RD\_ListCartCuts**(7) will also fetch the full list of cuts associated with the requested cart.

**Table 1. RD\_ListCartCuts function call fields**

| FIELD NAME | FIELD TYPE                   | MEANING                                   | REMARKS  |
|------------|------------------------------|---|--|
| *cart      | Pointer to rd_cart structure | Memory location to store cart information | Mandatory                                      |
| hostname   | Character Array              | Name Of Rivendell DB Host                 | Mandatory                                      |
| username   | Character Array              | Rivendell User Name                       | Mandatory When NO Ticket Provided              |
| passwd     | Character Array              | Rivendell User Password                   | Mandatory When NO Ticket Provided              |
| ticket     | Character Array              | Rivendell Authentication Ticket           | Mandatory When NO User/Password Pair Provided. |
| cartnumber | unsigned integer             | Cart Number                               | Mandatory                                      |
| user_agent | Character Array              | User Agent Value put into HTTP request    | Optional (default is Rivendell-C-API/x.x.x)    |

| FIELD NAME | FIELD TYPE         | MEANING  | REMARKS   |
|------------|--------------------|--|-----------|
| *numrecs   | pointer to integer | memory location for number of records returned | Mandatory |

When successful the function will return the number of records sent (numrecs) and a rd\_cart structure which is stored in the provided memory locations. The rd\_cart structure has the following fields:

```
struct rd_cart {
    unsigned cart_number;           /* Cart Number */
    unsigned cart_type;             /* Cart Type */
    char cart_grp_name[41];         /* Group Name */
    char cart_title[1021];          /* Cart Title */
    char cart_artist[1021];         /* Artist */
    char cart_album[1021];          /* Album */
    int cart_year;                  /* Year */
    char cart_label[257];           /* Label */
    char cart_client[257];          /* Client */
    char cart_agency[257];          /* Agency */
    char cart_publisher[257];       /* Publisher */
    char cart_composer[257];        /* Composer */
    char cart_conductor[257];       /* Conductor */
    char cart_user_defined[1021];   /* User Defined */
    int cart_usage_code;            /* Usage Code */
    int cart_forced_length;         /* Forced Length */
    int cart_average_length;        /* AverageLength */
    int cart_length_deviation;      /* Length Deviation */
    int cart_average_segue_length;  /* Average Segue Length */
    int cart_average_hook_length;   /* Average Hook Length */
    unsigned cart_cut_quantity;     /* Cut Quantity */
    unsigned cart_last_cut_played;  /* Last Cut Played */
    unsigned cart_validity;         /* Validity */
    int cart_enforce_length;        /* Enforce Length Flag */
    int cart_asynchronous;          /* Asynchronous Flag */
    char cart_owner[257];           /* Owner */
    struct tm cart_metadata_datetime; /* Metadata Datetime */
    char cart_notes[4096];          /* Notes */
    struct rd_cut **cart_cuts;      /* Cut list */
};
```

All character arrays use UTF-8 encoding and are null-terminated.

## Accessing Cut Information

Information about the cuts associated with the cart can be accessed from the returned rd\_cart structure through use of the **RD\_ListCartCuts\_GetCut()** function. The *cut\_rec* parameter should range between 0 and one less than the value of the *cart\_cut\_quantity* member of the cart's rd\_cart structure.

Cut information is returned in the form of a rd\_cut structure, which has the following fields:

```
struct rd_cut {
```

```
char cut_name[41];           /* Cut Name */
unsigned cut_cart_number;    /* Parent Cart Number */
unsigned cut_cut_number;    /* Cut Number */
int cut_evergreen;          /* Boolean */
char cut_description[257];   /* Description */
char cut_outcue[257];        /* Outcue */
char cut_isrc[49];           /* International Standard Recording C
char cut_isci[129];          /* Industry Standard Commercial Ident
unsigned cut_length;         /* Milliseconds */
struct tm cut_origin_datetime; /* Origin Datetime */
struct tm cut_start_datetime; /* Start Datetime */
struct tm cut_end_datetime;  /* End Datetime */
int cut_sun;                 /* Playable on Sunday */
int cut_mon;                 /* Playable on Monday */
int cut_tue;                 /* Playable on Tuesday */
int cut_wed;                 /* Playable on Wednesday */
int cut_thu;                 /* Playable on Thursday */
int cut_fri;                 /* Playable on Friday */
int cut_sat;                 /* Playable on Saturday */
char cut_start_daypart[15];  /* Start Daypart */
char cut_end_daypart[15];    /* End Daypart */
char cut_origin_name[257];   /* Hostname of Ingestion System */
char cut_origin_login_name[1021]; /* RD Username on Ingestion System */
char cut_source_hostname[1021]; /* Hostname of Originating System */
unsigned cut_weight;         /* Cut Weighting */
struct tm cut_last_play_datetime; /* Datetime of Last OnAir Play-out */
unsigned cut_play_counter;    /* Number of Times Played */
unsigned cut_local_counter;   /* Plays Since Rotation Changed */
unsigned cut_validity;        /* Cut Validity */
unsigned cut_coding_format;   /* 0 = PCM, 1 = MPEG */
unsigned cut_sample_rate;     /* Samples per Second */
unsigned cut_bit_rate;        /* Bits per Second */
unsigned cut_channels;        /* Audio Channels */
int cut_play_gain;           /* dBFS */
int cut_start_point;         /* Milliseconds from Start */
int cut_end_point;           /* Milliseconds from Start */
int cut_fadeup_point;        /* Milliseconds from Start */
int cut_fadedown_point;      /* Milliseconds from Start */
int cut_segue_start_point;    /* Milliseconds from Start */
int cut_segue_end_point;     /* Milliseconds from Start */
int cut_segue_gain;          /* dBFS */
int cut_hook_start_point;     /* Milliseconds from Start */
int cut_hook_end_point;      /* Milliseconds from Start */
int cut_talk_start_point;     /* Milliseconds from Start */
int cut_talk_end_point;      /* Milliseconds from Start */
};
```

All character arrays use UTF-8 encoding and are null-terminated.

## Freeing Memory

When the returned `rd_cart` structure is no longer required, it should be freed by passing it to the **RD\_ListCartCuts\_Free()** function.

## RETURN VALUE

On success, zero is returned. Using the provided parameters an `rd_cart` structure is returned and the number of records is returned.

If a server error occurs a -1 is returned. If a client error occurs a specific error number is returned.

## Errors

400 Missing Cart.

403 User Authentication Error.

404 No Such Cart Exists.

nnn Unknown Error Occurred.