CocktailAudio Database Documentation

# Introduction

This paper is the result of an effort to reverse engineer the CocktailAudio database structure.

Product: CocktailAudio X30

Firmware Version: R0122

# Tables

## Music database

Song

Album

Composer

Artist

Genre

Pls

PlsSong

### Album

This table contains the Album information

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Name | char(128) unique | Album name |
| Fail | varchar(256) | Comma-separated list of numbers (track numbers with problems?) |
| Year | integer | *Always NULL in my database* |
| AlbumArtist | Integer | ROWID in table Artist *Always NULL in my database* |
| CDNumber | Integer | *Always NULL in my database* |
| CDTotal | integer | *Always NULL in my database* |

The album image is stored in the **album directory** [*ssss*] *name* where *ssss* is the ROWID as 4-digit decimal number. The directory contains the four files folder.jpg (500x500), folder\_m.jpg (356x356), folder\_a.jpg (212x212), and folder\_s.jpg (174x174).

### Artist

This table contains the artist names.

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Name | char(128) unique | Artist name |

The artist image is stored in the directory ArtistArt\*rr*\[*ssss*] *name* where *ssss* is the ROWID as 4-digit decimal number and *rr* are the last two digits. The directory contains the four files folder.jpg (500x500), folder\_m.jpg (356x356), folder\_a.jpg (212x212), and folder\_s.jpg (174x174).

### Composer

This table contains the composer names.

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Name | char(128) unique | Composer name |

The composer image is stored in the directory ComposerArt\*rr*\[*ssss*] *name* where *ssss* is the ROWID as 4-digit decimal number and *rr* are the last two digits. The directory contains the four files folder.jpg (500x500), folder\_m.jpg (356x356), folder\_a.jpg (212x212), and folder\_s.jpg (174x174).

### Genre

This table contains the genre names.

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Name | char(128) unique | Genre name |

The genre image is stored in the directory GenreArt\*rr*\[*ssss*] *name* where *ssss* is the ROWID as 4-digit decimal number and *rr* are the last two digits. The directory contains the four files folder.jpg (500x500), folder\_m.jpg (356x356), folder\_a.jpg (212x212), and folder\_s.jpg (174x174).

### Pls

This table contains playlist names

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Name | char(128) unique | Playlist name |

### PlsSong

This table contains the songs contained in playlists

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| PlsID | Integer | ROWID in table Pls |
| SongID | Integer | ROWID in table Song |
| Seq | Integer | Order within playlist |

### Song

This table contains the tracks (songs).

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Name | char(256) | Track name |
| Ext | varchar(8) | File format (e.g. flac) |
| GenreID | integer | ROWID in table Genre |
| ArtistID | integer | ROWID in table Artist |
| AlbumID | integer | ROWID in table Album |
| ComposerID | integer default 0 | ROWID in table Composer |
| Year | integer | Year |
| Track | integer | Track number on album |
| blConv | boolean | 1 if converted |
| nov\_Bitrate | integer default 0 | Bit rate in kbit/s |
| nov\_Time | integer default 0 | Duration in s |
| nov\_Samplerate | integer default 0 | Sample rate |
| nov\_Channels | integer default 0 | Number of channels |
| PlayCnt | integer default 0 | *Mostly 0 in my database, sometimes a low number* |
| Rating | integer default 0 | *Always 0 in my database* |

The sound file is stored in the directory stored in the album directory (see Album). The file name of the actual sound file is [*ssssss*] *name*.*ext* where *ssssss* is the ROWID as 6-digit decimal number. This is accompanied by a file with the same name, but extension .idb containing the ID3 tag.

## Internet Radio

IRadioRec

IRadio

### IRadio

This table lists the favorite stations in the IRadio [reciva] function.

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Title | char(256) unique | Station name |
| Url | varchar(512) | Stream URL |
| LogoUrl | varchar(257) | Logo URL |
| BitRate | integer | Bit rate in kbit/s |
| Codec | varchar(32) | Codec (e.g. MP3, AAC) |
| Seq | integer | For sorting in UI |

### IRadioRec

*Unknown use, probably radio recording*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| IRadioID | integer | ROWID in table IRadio |
| OnOff | boolean |  |
| sTime | char(16) | Start time? |
| eTime | char(16) | End time? |
| Duration | integer |  |
| Url | varchar(256) |  |
| LogoUrl | varchar(512) |  |
| Title | varchar(256) |  |
| Service | varchar(50) default 'Reciva' |  |

## Other and Unknown use

### Alarm

*Unknown use*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Time | integer |  |
| Repeat | integer |  |
| PlsID | integer | -1 or ROWID in table Pls |
| OnOff | boolean |  |
| Active | boolean |  |
| Url | varchar(256) |  |
| LogoUrl | varchar(512) |  |
| Title | varchar(256) |  |
| Service | varchar(50) default 'Reciva') |  |

### Bmk

*Unknown use*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| PlayNo | integer |  |
| PlaySec | Integer |  |
| Path | varchar(512) |  |
| Name | varchar(256) |  |

### BmkSong

*Unknown use*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| BmkID | integer | ROWID in table Bmk |
| No | Integer | Unique number within Bmk |
| SongID | integer | ROWID in table Song |
| FileName | varchar(256) |  |

### FuncKey

*Unknown use*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Key | integer unique |  |
| Type | Integer | *Always 0 in my database* |
| ID | integer | *Always 0 in my database* |
| SongID | Integer | *Always 0 in my database* |
| Url | varchar(256) | *Always NULL in my database* |
| Title | varchar(256) | *Always NULL in my database* |

### History

*Unknown use*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Seq | integer unique |  |
| SongID | integer unique | ROWID in table Song |

### IMusic

*Unknown use*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| id | integer |  |
| Seq | integer |  |
| Token | varchar(256) |  |
| Server | varchar(256) |  |
| LogoUrl | varchar(512) |  |
| Title | varchar(256) |  |
| Artist | varchar(256) |  |
| Album | varchar(256) |  |
| Genre | varchar(256) |  |
| Duration | Integer |  |
| Expiry | Integer |  |
| Service | varchar(50) |  |

### SimfySearch

*Unknown use*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| Seq | Integer |  |
| Type | Integer |  |
| Name | char(128) |  |

### nov\_macro

*Unknown use*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| nov\_Button | varchar(5) |  |
| nov\_Key | varchar(20) |  |
| nov\_Type | Boolean |  |
| nov\_SortOrder | integer |  |

### nov\_podcast

*Unknown use; not filled even if podcasts have been used*

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| url | varchar(500) |  |
| title | varchar(200) |  |
| link | varchar(500) |  |
| description | varchar(500) |  |
| language | varchar(20) |  |
| copyright | varchar(200) |  |
| pubDate | varchar(200) |  |
| lastBuildDate | varchar(200) |  |
| image\_url | varchar(500) |  |
| image\_title | varchar(500) |  |
| image\_link | varchar(500) |  |

### nov\_podcast\_item

|  |  |  |
| --- | --- | --- |
| Column | SQL | Description |
| podcast\_id | INTEGER NOT NULL |  |
| title | varchar(200) |  |
| link | varchar(500) |  |
| description | varchar(500) |  |
| enclosure\_url | varchar(500) |  |
| enclosure\_length | varchar(200) |  |
| enclosure\_type | varchar(200) |  |
| pubDate | datetime |  |
| id\_hash | varchar(64) |  |
| download\_status | BOOLEAN DEFAULT FALSE |  |

### nov\_webconfig

This table contains one row with lots of columns and is used to store the user settings in the Web UI.