SDK API User's Guide (Media Scanner)

Version 0.6.0

Display Audio

Solution Team

Release information

The following changes have been make to this document.

<div align="right">Change History</div>

Date	Change
23 Oct. 2017	First release for v0.6.0

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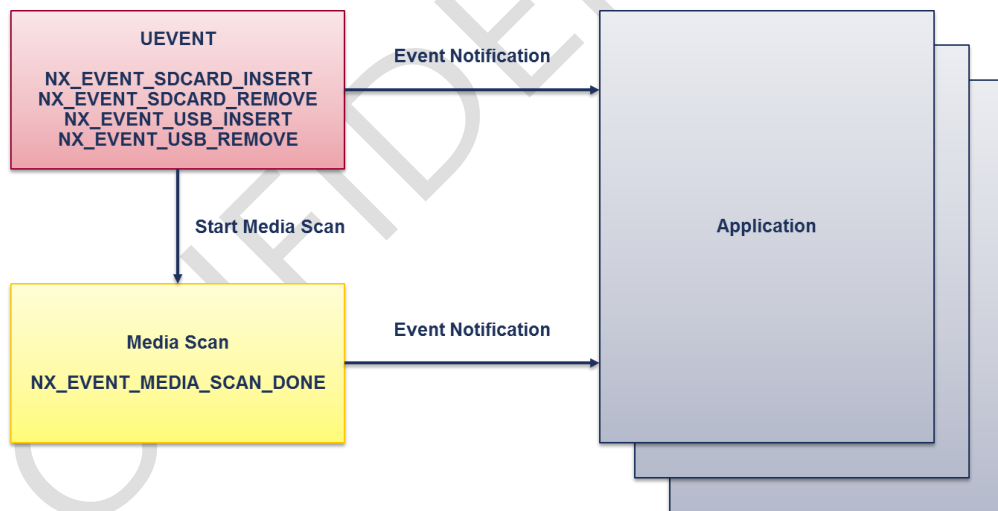
Contents

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Chap 1. **Overview**

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1.1 Overview

This document describes media scanner in Display Audio. The media scanner search external storage and make database. When database is created, it transmit event to each application. And then it make media list.

1.2 Block Diagram

The media scanner see as below. It checks external storage using uevent, it transmits status to each applications. And it run media scan according to change external storage information. When media scanning is completed, it transmit information to each application. When user is received this event, user access database and refresh file list.

Chap 2. **Media Scan**

2.1 Database Structure

Media scan database see as below.

-. Database   : /home/root/mediainfo.db

-. Table   : tbl_media

Field	Description
_id	Integer primary key (Auto Increment) – SQLite mandatory field
_path	Media path with file name.
_type	Media type. (Video / Audio)
_date	Added time in database.

2.2 Database Access

The database is accessed by database query. It is provided SQLite wrapper to access database in Display Audio SDK. The user is accessed database by this library.

2.2.1 APIs

2.2.1.1 NX_SQLiteGetData()

```
int32_t NX_SQLiteGetData(
        const char *pDatabase,
        const char *pTable,
        int32_t (*cbFunc)(void*, int32_t, char**, char**),
        void *pObj = NULL,
) = 0;
```

Description

  Access database using SQLite.

Parameter

-. pDatabase   : database name.

-. pTable   : table name.

-. cbFunc   : result data callback

  int32_t cbFunc(void *pObj, int32_t iColumnNum, char **ppColumnValue, char **ppColumnName)

      -. pObj   : private handle

      -. iColumnNum   : column number of table.

      -. ppColumnValue: column value of table.

      -. ppColumnName: column name of table.

-. pObj   : private handle.
Return Value
0 is successful, -1 is failed.

Chap 3.   **History**

3.1   Known Issue

-. Not yet.

3.2   To Do List

-. Media Scanner Extension.

1) media scanning policy when external storage is changed partial

2) media scanning policy about same file.