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.

Change History

Date	Change
23 October 2017	First release for v1.0.0

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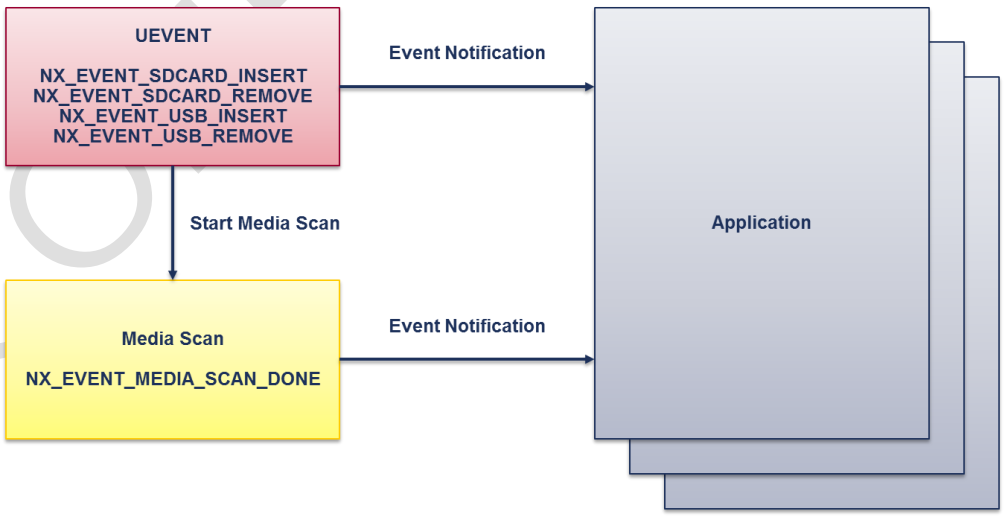
Chap 1. Overview

1.1 Overview

이 문서는 Display Audio 내의 Media Scanner 에 대해서 설명한 문서이다.
Media Scanner 는 External Storage 를 검색하여 Media 에 대한 정보를 정리하며 이를 database 로 생성하게 된다. database 생성이 완료되면 이를 application 에 event 로 전달하며 이를 통하여 media list 를 가져올 수 있다.

1.2 Block Diagram

Display Audio 내의 Media Scanner 는 다음과 구조로 동작하고 있다. Uevent 를 통하여 External Storage 의 현재상태를 확인하고 이를 각 Application 에 전달한다. 그리고, 변경된 External Storage 에 따라서 Media Scanning 을 하게 되고, Media Scanning 이 완료되면 이 정보를 각 Application 에 전달하게 된다.
Application 사용자는 전달받은 이벤트를 통하여 Media Scan 된 Database 에 접근하여 File List 를 갱신하면 된다.



Chap 2. Media Scan

2.1 Database Structure

Media Scanning 이 완료된 database 는 다음과 같은 구조로 되어있다.

-. 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

Database 는 Database query 문을 이용하여 access 가능하다. Display Audio SDK 에서는 해당 Database 를 접근할 수 있도록 SQLite Wrapper 를 제공하여 주며 이를 이용하면 해당 Database 를 접근할 수 있도록 되어있다.

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 확장.

1) 일부 Storage 정보 변경 시에 Media Scanning 정책.

2) 동일 파일 정보에 대한 Media Scanning 정책.