# 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

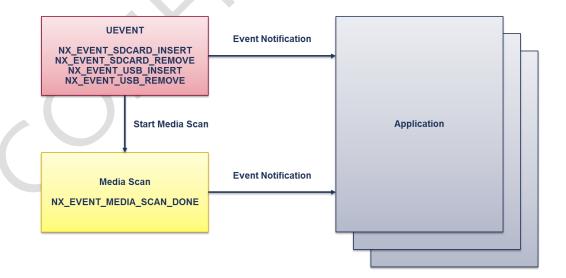
#### 1.1 Overview

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.
                     : result data callback
-. cbFunc
   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.
Obj : 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.

