# Demo Application UI Guide (NxAVIn)

Version 0.6.0

**Display Audio** 

Solution Team



#### Release information

The following changes have been make to this document.

**Change History** 

Date	Change
04 Dec. 2017	First release for v0.6.0

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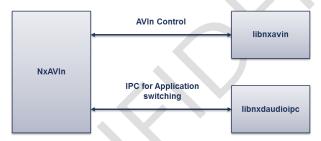
# Chap 1. Overview

#### 1.1 Overview

이 문서는 Display Audio 의 Demo Application 인 NxAVIn 에 대해서 설명한 문서이다. NxAVIn 은 AVIn Hardware(TW9900)를 통하여 입력된 CVBS 화면을 출력하여 주는 역할을 하며, 화면 전체를 보여주기 위하여 Status Bar 를 toggle 할 수 있는 기능을 제공하여 준다.

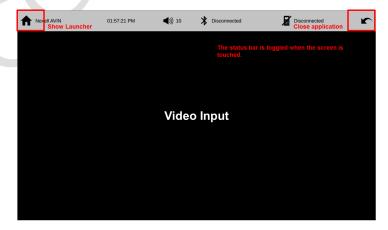
#### 1.2 Block Diagram

NxAVIn 은 AVIn 기능을 위한 제어하기 위한 libnxavin 과 application 화면전환 및 정책을 위한 IPC Engine 부분으로 구성되어있다.



## 1.3 Application UI

Application 화면은 다음과 같으며, Status Bar 에 따른 Application 전환은 Status Bar 정책을 따른다. NxAVIn 의 경우 화면 touch 시에 status bar 가 toggle 된다.



# Chap 2. **AVIn Library**

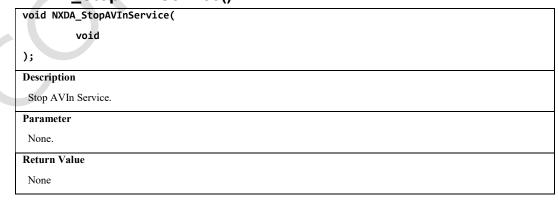
#### 2.1 Overview

AVIn 을 제어하기 위하여 libnxavin library 를 제공하며, 사용방법은 아래와 같다.

#### 2.2 APIs

#### 2.2.1 NXDA StartAVInService()

#### 2.2.2 NXDA\_StopAVInService()



#### 2.2.3 NXDA\_SetAVInVideoPosition()

int32\_t NXDA\_SetAVInvideoPosition(



```
int32_t x,
            int32_t y,
            int32_t width,
            int32_t height
);
Description
Set video position.
Parameter
 -. X
                       : x position of video
-. y
                       : y position of video.
-. width
                       : width of video.
-. height
                       : height of video.
Return Value
 Zero is successful, -1 is failed.
```

#### 2.2.4 NXDA\_RegAVInRenderCallback()

```
void NXDA_RegAVInRenderCallback (
           void *pApp,
           int32_t (callback)(void *, int32_t, void *, int32_t)
);
Description
Register AVIn render callback.
Parameter
                      : private handle.
-. pApp
-. callback
                      : redering callback.
   int32_t callback( void* pApp, int32_t type, void* data, int32_t dataSize )
                      : private handle.
     -. pApp
                      : callback function type. ( CB_TYPE_BUFFER, CB_TYPE_HIDE, CB_TYPE_SHOW )
     -. type
                      : send data for callback.
     -. data
     -. dataSize
                      : size of data
Return Value
 None
```

## 2.2.5 NXDA\_RegAVInControlCallback()

-. pApp : private handle.

-. callback : redering callback.

 $int32\_t\ callback(\ void*\ pApp,\ int32\_t\ type,\ void*\ data,\ int32\_t\ dataSize\ )$ 

-. pApp : private handle.

-. type : callback function type. ( CB\_TYPE\_BUFFER, CB\_TYPE\_HIDE, CB\_TYPE\_SHOW )

-. data : send data for callback.

-. dataSize : size of data

Return Value

None



# Chap 3. **History**

### 3.1 Known Issue

-. Nothing.

## 3.2 To do list

-. Audio focus 관련 기능 구현.

