Demo Application UI Guide (NxAVIn)

Version 0.6.0

Display Audio

Solution Team

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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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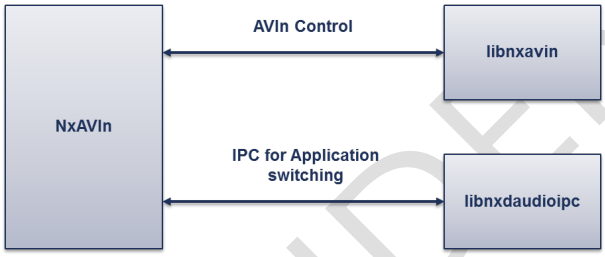
Chap 1. Overview

1.1 Overview

This document describes NxAVIn, that is demo application of Display Audio. The NxAVIn outputs CVBS using AVIn hardware(TW9900), and this application provide function to toggle status bar.

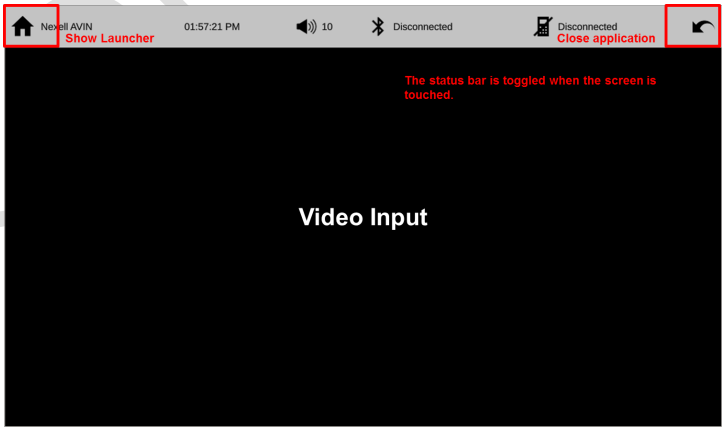
1.2 Block Diagram

The NxAVIn consists of libnxavin for controlling AVIn function and libnxdaudioipc for switching application.



1.3 Application UI

The application screen is as below. The Status Bar operation has itself policy to switch application. When screen is touched, the Status Bar is toggled in this application.



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Chap 2. AVIn Library

2.1 Overview

The libnxavin provides to manage AVIn. This usage of library see as below.

2.2 APIs

2.2.1 NXDA_StartAVInService()

```
int32_t NXDA_StartAVInService(
        CAMERA_INFO *pCamInfo,
        DISPLAY_INFO *pDspInfo
);
```

Description

Start AVIn Service.

Parameter

-. pCamInfo : Camera Information

-. pDspInfo : Display Information

Return Value

Zero is successful. -1 is failed.

2.2.2 NXDA_StopAVInService()

```
void NXDA_StopAVInService(
        void
);
```

Description

Stop AVIn Service.

Parameter

None.

Return Value

None

2.2.3 NXDA_SetAVInVideoPosition()

```
int32_t NXDA_SetAVInvideoPosition(
        int32_t x,
```

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```
        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

-. 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

2.2.5 NXDA_RegAVInControlCallback()

```
void NXDA_RegAVInControlCallback(
        void *pApp,
        int32_t (callback)(void *, int32_t, void *, int32_t)
);
```

Description

Register AVIn Control callback.

Parameter

-. pApp : private handle.

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-. 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

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Chap 3. History

3.1 Known Issue

-. Not yet.

3.2 To do list

-. Apply to change audio focus scenario.

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