Overview

Version 1.0.0

Display Audio

Solution Team

NEXELL

Release information

The following changes have been make to this document.

Proprietary Notice

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Chap 1. **Introduction**

1.1 Display Audio SDK for Linux

This document provides an overview of the Display Audio SDK. Display Audio SDK allows fast and reliable production of automotive Display Audio on the NEXELL chip.

Display Audio SDK can be checked in the following environment.

- Board : AVN Reference Board
- CPU : NXP4330Q (NXP4330Q-A)

1.2 Feature

The Display Audio SDK provides the following features:

- Audio/Video Player
- Quick rear camera
- AV input
- Bluetooth for NXBT100
- Media scanner
- Data base access

Chap 2. SDK Architecture

2.1 Software Block Diagram

The following block diagram is the software architecture for the Display-Audio SDK.
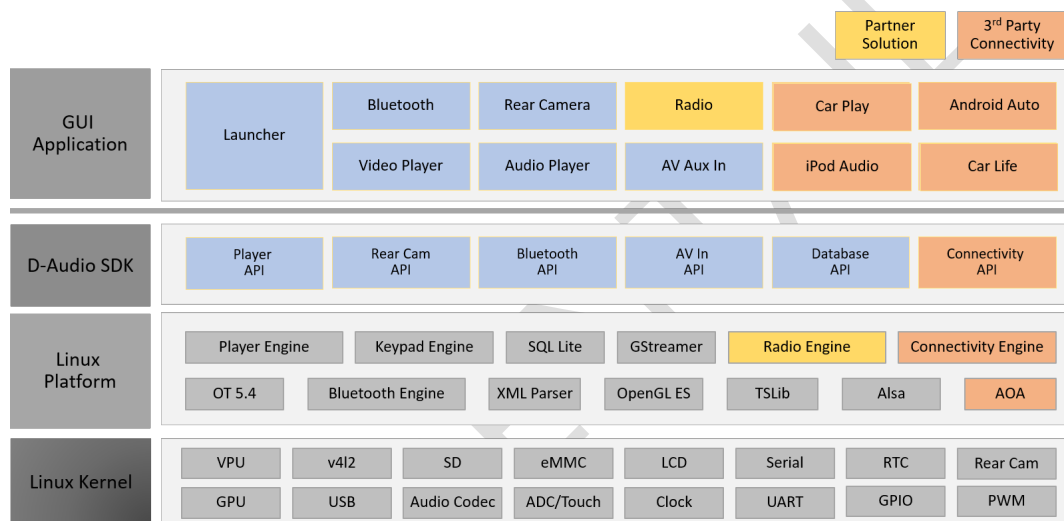
2.2 Software Packages

The Display-Audio software consist of 3 parts application and service and libraries. All application example and some part of services are provided source code level. And some libraries are provided by source code level.

2.2.1 Applications

The following applications are example applications using Display-Audio SDK.

- NxAudioPlayer
- NxVideoPlayer
- NxBTAudioR
- NxBTPhoneR
- NxBTSettingsR
- NxQuickRearCam
- NxAVIn
- NxLauncher

2.2.2   Services

The following services are used for Display-Audio example.

- QT wayland compositor

  QT multilayer application compositor.

- Display Audio Manager

  The simple application IPC example for Display Audio Solution.

- NxBTServiceR

  Bluetooth service manager.

- "bas_server"

  Bluetooth service manager for cypress IP.

2.2.3   Libraries

- Media player library

  Audio/Video player's library

- Subtitle parser library for video player

- Bluetooth service library

  Bluetooth low level control API.

- Quick rear camera library(provided by source code level)

- AV in library (provided by source code level)

2.3   Documents

2.3.1   Application Guides

- Audio player UI guide
- Video player UI guide
- BT applications UI guide
- Quick rear cam UI guide
- AV In UI guide

2.3.2   Library Guides

- Media player user's guide.

  (Audio/Video player)

- BT API document and user's guide.

2.3.3   Other Guides

- BSP and SDK build guide.
- BSP update guide.
- Boot animation and boot logo change guide.
- Bluetooth module (NXBT100) porting example.
- Default launcher change guide.

- Quick rear cam porting guide.
- Subtitle parser user's guilde.