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## Processor SDK Audio

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# Release Notes

Release: Alpha-4  
Revision: 0.10  
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# Contents

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- Overview..... 1
- Label and Version Information for the Release ..... 1
  - Software Label Information..... 1
  - Hardware Support ..... 1
  - Operating System Support ..... 1
- New and Updated Features..... 2
  - New Features..... 2
- Known Issues ..... 2
- Licensing..... 2
- Delivery Package ..... 2
  - Directory Structure ..... 2
- Required Compile Tools..... 3
  - Tools Supplied by Texas Instruments..... 3
  - Tools Not supplied by Texas Instruments ..... 3
- Installation Instructions..... 4
- Customer Documentation List ..... 4

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# Processor SDK Audio for Alpha-4

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## Overview

This document provides information on the features, functions, delivery package, compile tools, licensing, and JIRA ticket resolutions incorporated in the following release of software: Alpha-4. It includes a list of the known issues that are present at the time of this release.

## Label and Version Information for the Release

This release supports the following software and hardware versions.

### Software Label Information

Table 1 lists the software label and code versions applicable to this release.

**Table 1** Labels and Versions Supported by this Release

Release	Label/Version Information
PASDK	PASDK_1.0.0.2/1.0

### Hardware Support

This release is supported on the following hardware platform:

- Mistral K2G Rev. D EVM (SPRW274).
- Mistral K2G EVM Audio Daughter Card Rev. B (SPRW279).
- MDS HSR41P HDMI Repeater module Rev. A.
- MDS DA10X Interface board (IFB) Rev. A.

### Operating System Support

This release is supported on the following operating system version:

- SYS/BIOS 6.45.01.29

## New and Updated Features

This release provides support for the following new and updated features.

### New Features

The following new features are supported in this release.

- Fast copy support for DA10x framework (via LibArch, not in PASDK)
- High sampling rate support (PCM over HDMI) and SRC benchmarking
  - Note: HSR support is still in progress
  - Note: HSR benchmarking requires re-build

### Known Issues

The following is a list of all known issues:

- For all decoders there are random minor audio quality issues
- Audio sometimes mutes after sending a few streams over HDMI
- MAT/THD inputs with sampling rate over 48kHz do not work
- Dynamic IOS Switching
- The functionality of the high sampling rate & SRC benchmarking included in this release is incomplete (see compile-time configuration in pasdk\common\dbgBenchmark.h). Support for issues related to this functionality will be provided over private E2E forums.

### Licensing

See the provided Software Manifest(s) for licensing information (see Table 5 at the end of this documentation).

### Delivery Package

The delivery package from Texas Instruments will be delivered as two self-extracting executables. The PASDK package installer: **processor\_audio\_sdk-DA10x-01.00.00.02-Windows-x86-Install.exe**. PASDK is released as source.

### Directory Structure

The following directories and/or components are included in the processor\_audio\_sdk\_1\_00\_00\_02 package directory.

- docs\ [documentation]
- pasdk\ [PASDK]

- paf\ [PASDK OS dev]
- common\ [Common code between DSP and ARM apps]
- shared\ [DSP and ARM shared IPC and memory configurations]
- test\_arm\ [ARM application]
- test\_dsp\ [DSP application]
- psdk\_cust\ [TI packages customized for PASDK]
  - ipc\_3\_43\_00\_00\_eng\ [Customized IPC release 3.43]
  - pdk\_k2g\_1\_0\_1 [Enhanced PDK K2G release 1.0.1]
- scripts\ [Build scripts]
- tools\ [Alpha communication tools]
- pa\
  - asp\rel\ [ASP IP (bm2, dem, geq3) header files]
  - build\ [ARM and DSP libraries]
  - dec\rel\sng1 [Decoder IP (sng1) header files]
  - docs [documentation]

## Required Compile Tools

Specific tools and patches must be used to compile and/or deploy Texas Instruments software. Texas Instruments cannot guarantee product performance when other tools are used.

### Tools Supplied by Texas Instruments

- Code Composer Studio 6.1.2.00015 for Windows
- C6000 v8 Compiler Tools: 8.1.0

### Tools Not supplied by Texas Instruments

- GNU ARM Tools 4.8.0.2014q3-20140805

## Installation Instructions

See the PASDK Setup Guide (doc. 1) for installation instructions and implementation guidelines.

## Customer Documentation List

Table 2 lists the documents that are accessible in the package.

**Table 2** Product Documentation included with this Release

Document #	Document Title	File Name
1	PASDK Setup Guide	docs/PASDK_setup_guide.pdf
2	ASP Example	docs/DA10x_UG_AspExample.pdf
3	TI_PA Filter Library/Framework (FIL)	docs/pa-asp-fil.pdf
4	Creating new ASP algorithms using FIL	docs/pa-fil-fe.pdf
6	Pre-Release DA10x Processor Audio SDK Manifest	DA10x Processor Audio SDK_01.00.00.02_manifest.html