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## Processor SDK Audio Dolby IP

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# Release Notes

Release: Beta-1  
Revision: 0.10  
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# Processor SDK Audio for Beta-1

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## Overview

This document provides information on the features, functions, delivery package, compile tools, and licensing incorporated in the following release of software: Beta-1. 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_1.0.0.3/1.0

### 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.

- Full 16-channel support (OARI, CAR and framework updates).
- Correct handling of sampleProcess in OARI & CAR.
- Passing 100% Dolby Harmony v1.3 CIDK tests for DDP, MAT, CAR, and OAR at TI and Dolby Labs.
- Passing 100% Dolby Harmony v1.3 CIDK tests for THD at TI. Verification near complete at Dolby Labs.
- Passing 100% OARI Dolby Harmony v1.3 SIDK tests at TI and Dolby Labs.

### Known Issues

See (doc. 1) for known issues for PASDK.

The following is a list of all known issues for Dolby IP:

- Channel to object-based audio switching logic in OAR/CAR responds incorrectly for input audio frames with metadata type set to PAF\_bsMetadata\_none (incorrect switch occurs).
- OARI is unable to process inputs with sampling rates over 48 kHz.

### Licensing

See the provided Software Manifest 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-01.00.00.03-Windows-x86-Install.exe**. And Dolby IP package installer: **processor\_audio\_sdk-DA10x\_DolbyAtmosAVR-01.00.00.03-Windows-x86-Install.exe**. PASDK is released as source, Dolby IP is in a binary format.

### Directory Structure

The following directories and/or components are included in the PASDK package installation directory (default processor\_audio\_sdk\_1\_00\_00\_03)

- docs\ [documentation]
- pasdk\ [PASDK]
  - common\ [Common code between DSP and ARM apps]
  - paf\ [PASDK OS dev]
  - 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]
  - libarch\_k2g\_1\_0\_1\_0\ [Library Architecture and Framework]
  - pdk\_k2g\_1\_0\_1\_2\_eng\ [Enhanced PDK K2G release 1.0.1]
- scripts\ [Build scripts]
- tools\ [Alpha communication tools]
- pasdk\_fd\_da10x\_01\_00\_00\_03.zip [FD package]

The following directories and/or components are included in the Dolby IP package installation directory (default PASDK\_DA10x\_DolbyAtmosAVR\_1\_00\_00\_03).

- release\dhlp\_package [Dolby IP root]

The packages contained in the dhlp\_package directory should be unzipped and placed in the PASDK package installation directory as below. This is further described in (doc. 1).

- dolby\_ip\dh-ip\ [Dolby IP root]
  - asp\ [ASP IP (bmda, car, oar) header files]
  - build\ [ARM and DSP Dolby IP libraries]
  - dec\ [Decoder IP (ddp, mat-thd) header files]
  - DOC\ [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
5	DA10x-K2G Dolby Atmos for Audio-Visual Receiver Products 1.3 Manifest	DA10x-K2GDolbyAtmosforAVR1.3manifest.html
6	Pre-Release DA10x Processor Audio SDK Manifest	DA10x Processor Audio SDK_01.00.00.03_manifest.html