



OSAL Library

Release Notes

Applies to Product Release: 01.00.00.09
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OSAL Library version 01.00.00.09

Overview

This document provides the release information for the latest OSAL (Operating System Adaptation Layer) for the processor SDK components present under “<pd>/packages/ti” folder which can be used by drivers and application that interface with those components.

OSAL module includes:

- Compiled library (Little Endian) of OSAL.
- Source code.
- API reference guide

Library Dependencies

OSAL Library is dependent on following external components delivered in PDK package:

- CSL

Resolved Incident Reports (IR)

Table 1 provides information on IR resolutions incorporated into this release.

Table 1 Resolved IRs for this Release

IR Parent/ Child Number	Severity Level	IR Description

Known Issues/Limitations

IR Parent/ Child Number	Severity Level	IR Description
PRSDK-730	Major	Osai Baremetal Examples for KeyStone devices

New/Updated Features and Quality

Release 1.0.0.9

This release has the below changes

- Added timer support for OMAPL137x
- Added support for static memory query
- Updates for sysbios 6.52.0.12 migration
- Added support for AM574x SOC
- Stack alignment fix for examples

Release 1.0.0.8

This release has the below changes

- Added support for TDA2px
- Remove dynamic memory allocations from osal ti-rtos library
- Added timer base configuration for AM335x and AM437x
- Aligning baremetal linker command file for K2G to align with CSL vector address.
- Fixed example projects' .txt files for CCS project creation
- Clean up of osal_board.h to remove explicit board specific includes

Release 1.0.0.7

This is an **engineering release**, tested by the development team for early integration effort
Resolved IRs is under Resolved IRs for this release section.

- This release adds OMAPL13x SoC support

Release 1.0.0.6

This is an **engineering release**, tested by the development team for early integration effort
Resolved IRs as below:

IR Parent/ Child Number	Severity Level	IR Description
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IR Parent/ Child Number	Severity Level	IR Description
PRSDK-1769	Major	Osai Library Enhancement: OSAL support for OMAPL138
PRSDK-1592	Major	Osai delay api support
PRSDK-1119	Major	RTOS: K2G OSAL C66x baremetal HwiP_create() only enables last configured interrupt if called multiple times
PRSDK-1980	Major	c++ complaince fixed
PRSDK-2087	Major	Adding crossbar IRQ configuration to MuxIntcP for sysbios
PRSDK-1901	Major	Adding Interrupt Register functions using Event Combiner for C6x

Release 1.0.0.5

This is an **engineering release**, tested by the development team for early integration effort
Resolved IRs is as below for this release section.

IR Parent/ Child Number	Severity Level	IR Description
PRSDK-658	Major	Osai Library Enhancement: Timer Driver support
PRSDK-867	Major	Bare metal examples for AM3/AM4

Release 1.0.0.4

Release 1.0.0.3

- Added bare metal semaphore support.
- Added bare metal support for Cortex-M4.
- Added bare metal support for MuxIntcP.
- Added unit test framework.
- Added OSAL APIs for Cache Operation.

Release 1.0.0.2

- Added library build support for K2G.

Release 1.0.0.1

- Added support for cpIntc and Semaphore support for KeyStone devices and bare metal.

Release 1.0.0.0

- Initial release

Licensing

Please refer to the software Manifest document for the details.

Delivery Package

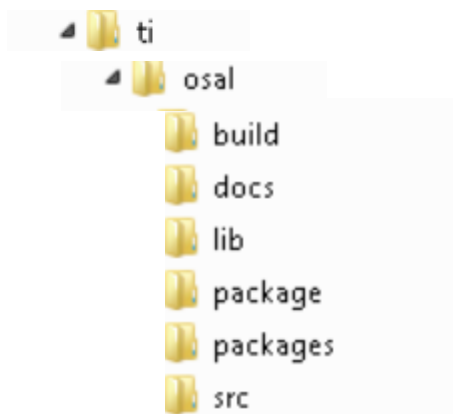
There is no separate delivery package. The OSAL library is being delivered as part of PDK.

Installation Instructions

The library is currently bundled as part of Platform Development Kit (PDK). Refer installation instruction to the release notes provided for PDK.

Directory structure

The following is the directory structure after the OSAL Library package has been installed:



The following table explains each individual directory:

Directory Name	Description
ti/osal	<p>The top level directory contains the following:-</p> <ol style="list-style-type: none"> 1. <u>Environment configuration batch file</u> The file “setupenv.bat” is used to configure the build environment for the OSAL library. 2. <u>XDC Build and Package files</u> These files (config.bld, package.xdc etc) are the XDC build files which are used to create the OSAL package. 3. <u>Exported Driver header file</u> Header files which are provided by the OSAL Library and should be used by the application developers for driver customization and usage.
ti/osal/build	The directory contains internal XDC build related files which are used to

	create the OSAL library package.
ti/osal/docs	The directory contains the OSAL library documentation.
ti/osal/lib	The “lib” folder has pre-built Little Endian libraries for the OSAL library along with their <u>code/data size information</u> .
ti/osal/package	Internal OSAL library package files.
ti/osal/src	Source code for the OSAL library.

Customer Documentation List

Table 2 lists the documents that are accessible through the **/docs** folder on the product installation CD or in the delivery package.

Table 2 Product Documentation included with this Release

Document #	Document Title	File Name
1	API documentation (generated by Doxygen)	Docs/doxygen/html/index.html
2	Software Manifest	docs/OSAL_SoftwareManifest.html
3	Release Notes	This document