VRPOC SDK Porting Guide for

Host Bus Interface Driver

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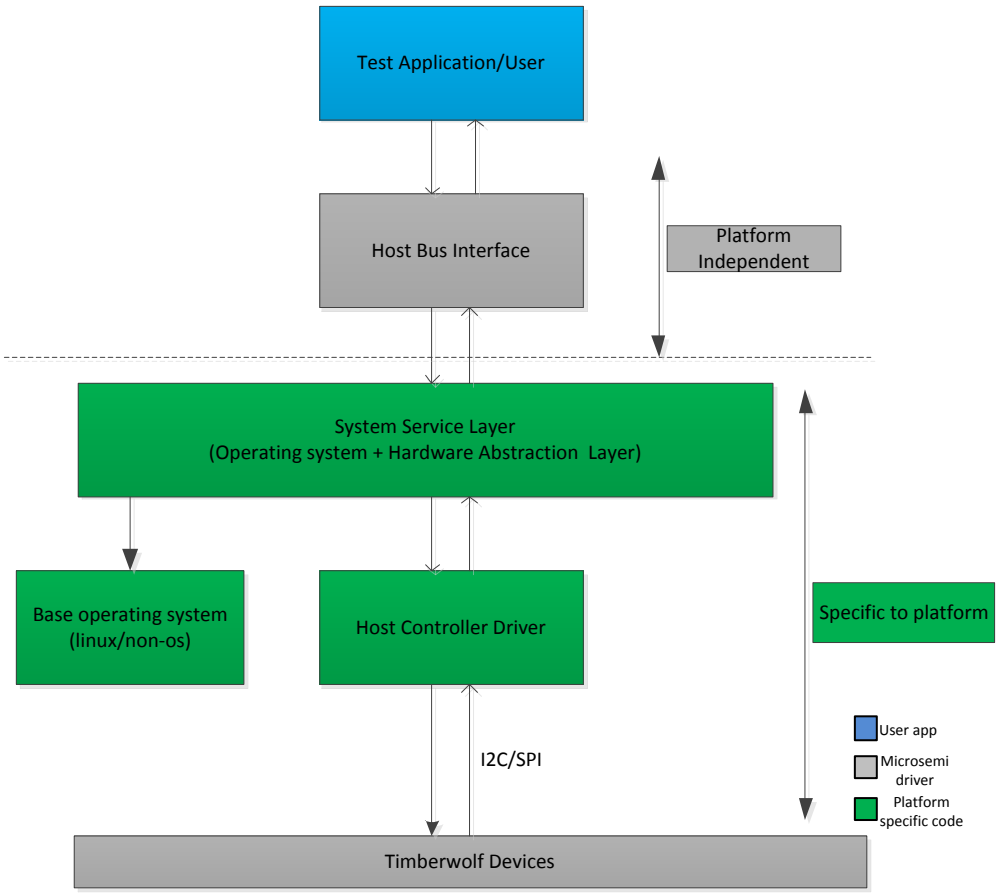
1 Introduction

This document acts as reference document for developer intend to port Microsemi SDK onto their platform.

Intended recipient of this document are developer who keep prime responsibility to port Microsemi VPROC SDK.

This figure gives an overview of SDK organization and usage.



Here's diagram describing SDK hierarchy

- /apps – contains sample application for user reference. Comes with sample makefile which can be modified by user as per their development environment
- /docs – contains API specification and Application Reference document
- /include – include files included globally across SDK
- /platform – contains user specific development platform data. User need to port every file in this directory to their platform. Host SDK, toolchain, platform specific driver and include.
- /tools – Convertor tool to convert Microsemi VPROC Device firmware .s3 AND configuration Record .cr2 file
- Makefile.globals – Make variables to build SDK for specific host and device
- config.mk – Defines all variables in Makefile.globals to Build options
- read me – 1st hand document to start with SDK

2 Porting Guide

SDK contain System Service Layer which keeps all of the code specific to user development.
This is main porting layer to be implemented by user as per their development platform.

Following are list of files to be ported by user for their platform:

/include/ ssl.h - describing function prototypes and data structure is supplied in /include directory.
/platform/include/typedefs.h - typdefines for data types
/platform/include/vproc_dbg.h – debug macros

User need to port all corresponding function in ssl.c as per expected description of each function and data structure usage Or user can also refer to SDK_API_Specification document containing description of System Service Layer.