

**Dialogic Open System Release**  
**LINUX IPVSC and PMAC Libraries**  
**High Level Architecture Document version 0.1**

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# 1 Introduction

This document was written to provide the users of the Dialogic Open System Release iphost libraries source code with detailed understanding of the various libraries available for download. Topics of discussion will include ipm veneer, ipvsc, pmac and pmac transport components.

## 1.1 Scope

This document provides a high level overview of the iphost libraries supported under the Dialogic Open System Release project. Each library is outlined with a general architecture overview followed by descriptions of each source file's content.

## 1.2 Glossary

| Term or Acronym | Description   |
|-----------------|---|
| iphost          | host runtime interface for ip products like iplink and pmac |
| FW              | Firmware  |

## 1.3 Revision History

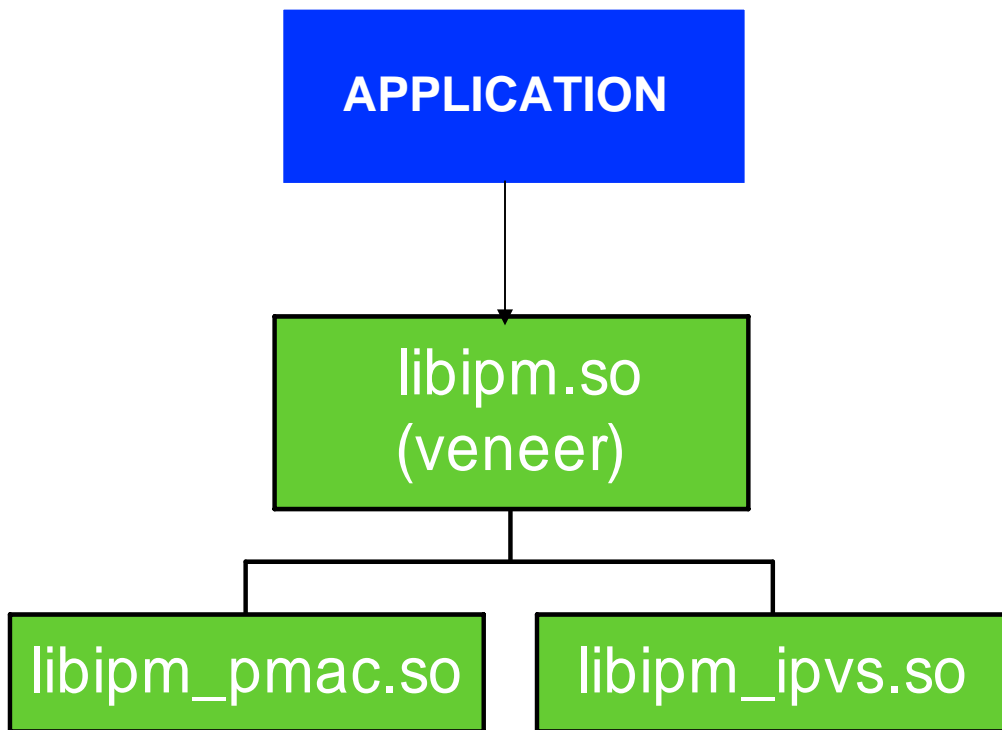
| Revision | Author      | Reason for Changes       |
|----------|-------------|--------------------------|
| 0.1      | Jigar Patel | Initial draft 10/11/2006 |

# 2 The iphost Libraries

The iphost libraries were written so that the iplink and pmac boards could be accessible with the same API calls. The veneer layer is providing the application interface to both cards. A common application could be written to interface both cards. There are four components – ipm veneer(libipm.so), ipvsc for iplink (libipm\_ipvsc.so), pmac library(libpmac.so) and pmac transport (libpmactransport.so) in iphost subsystem.

## 2.1 *libipm.so*

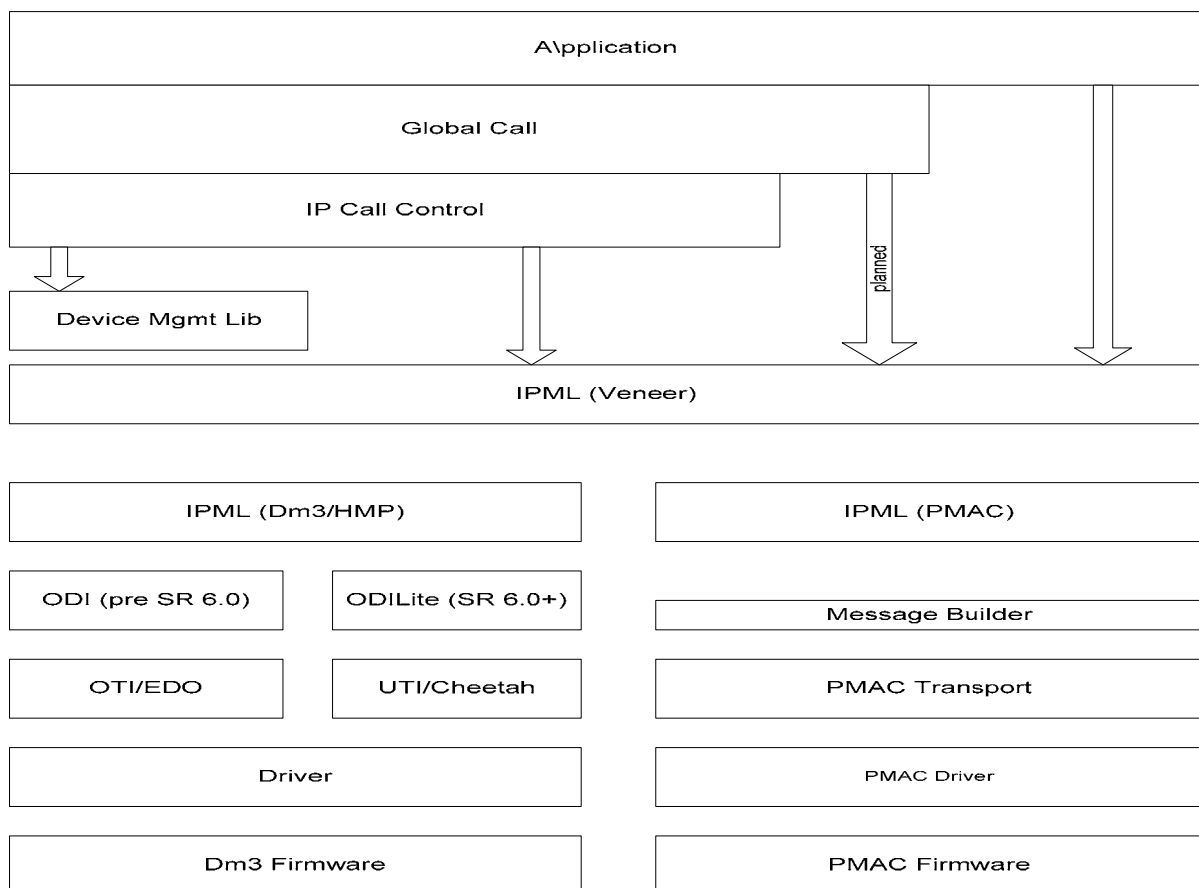
libipm.so is veneer layer for libipm\_ipvsc.so for iplink boards and libpmac.so forpmac boards. So an IP application can be developed that can work on both ip boards (iplink and pmac).



## 2.2 *libipm\_ipvsc.so*

This library provides media functionality to iplink boards. This library is sending down messages to iplink firmware and upon the response from firmware, it provides appropriate response to the application. This library uses ODILite/ODI for the transporting messages between host and Firmware. The code and information about ODILite is in DM3HRT subsystem.

Here is the high level architecture for the ipml libraries for iplink.



## 2.3 *libipm\_pmac.so*

This library provides media functionality to pmac boards. This library is sending down messages to pmac firmware and upon the response from firmware, it provides appropriate response to the application. This library uses the pmac transport library for the transporting messages between host and Firmware.

## **2.4      *libpmactransport.so***

This library provides message transportation functionality to pmac boards. This library is sending down messages from the media library to pmac firmware and upon the response from firmware, it provides appropriate response to the application.

