

android
developers

Android开发教程&笔记



android

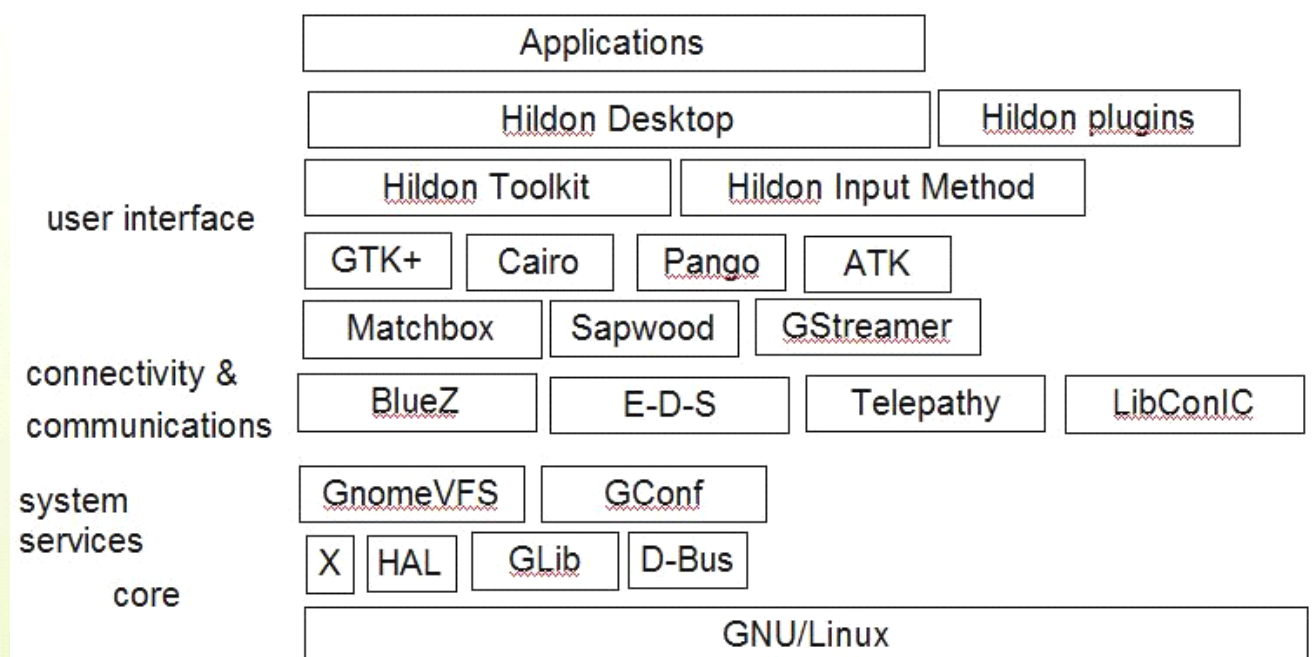
7 个 Linux 手机平台

- ◆ Maemo
- ◆ Android
- ◆ LIMO
- ◆ OpenMOKO
- ◆ GPE^2
- ◆ ALP
- ◆ QTopia Phone Edition

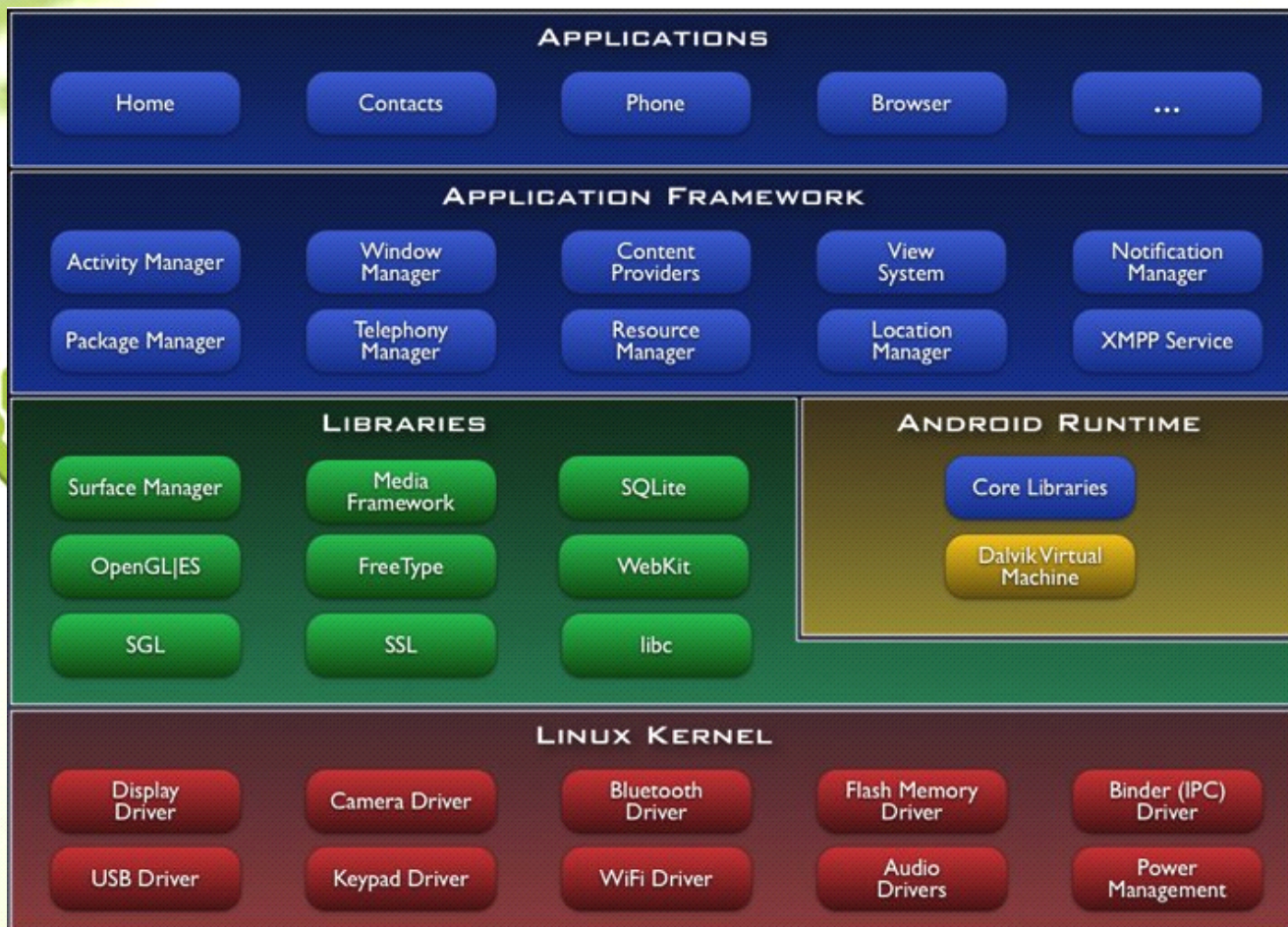


Maemo 架构

Architecture overview – logical view



Android 架构



LIMO 架构



Application Layer

Application Manager	Phone Applications	Browser	MMS/SMS	PIM Utilities	CAMERA	SIM toolkit
Setting	Contacts	Java App	Email&IM	Data Applications	Multimedia Applications	Other Applications

Application Manager & UI API

Application Engine API

Application/UI framework & Application engine Layer

Application Manager Framework	Application UI Framework	Internet Framework	Messaging Framework	Database Services	Future Expansion
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Terminal Service API

Middleware Layer

System Services*	Telephony Framework	Networking Framework	Security Framework	Multimedia Framework	Database Engine	
Dev Mgmt Framework	Location Framework	Accessory Framework	Data Sync Framework	Logging Framework	DRM Framework+	Java VM

Kernel Layer

Linux Kernel*	Device Drivers	Modem Interface
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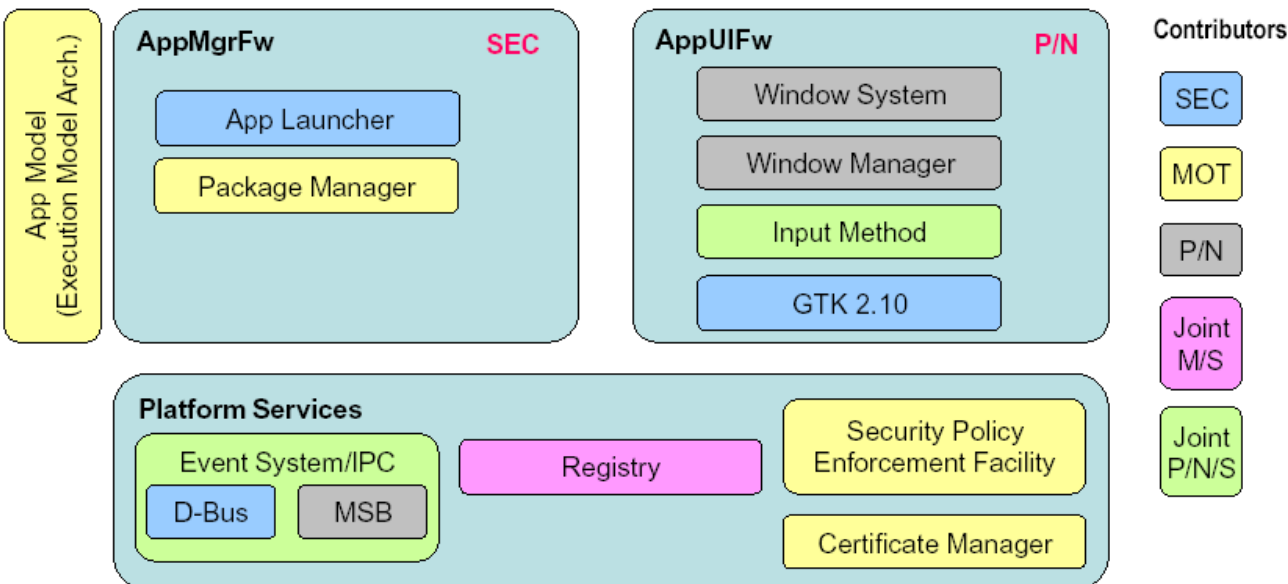
Common API

In Scope

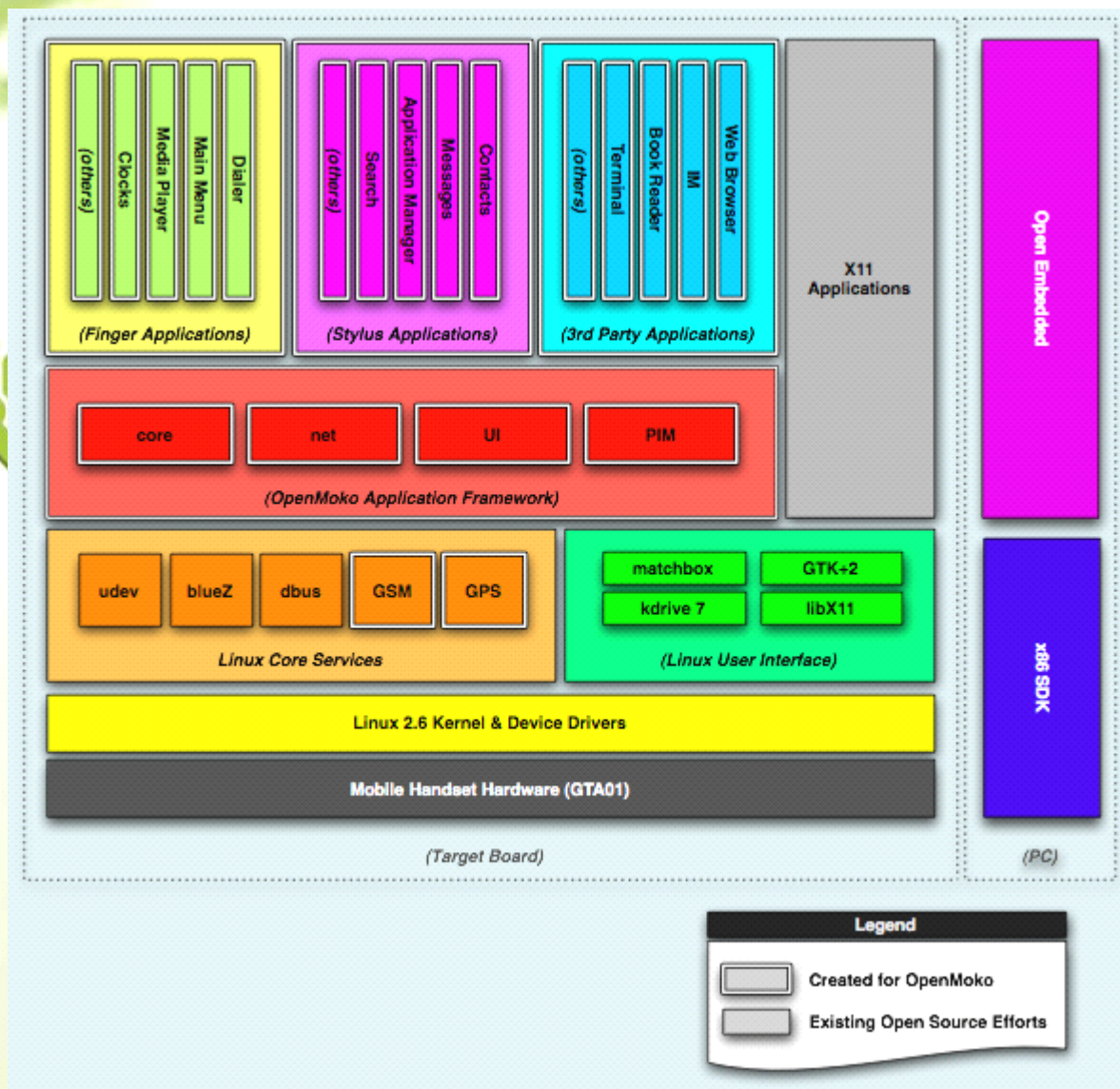
- C Only
- C & C++
- API only (No Source code)

Common code

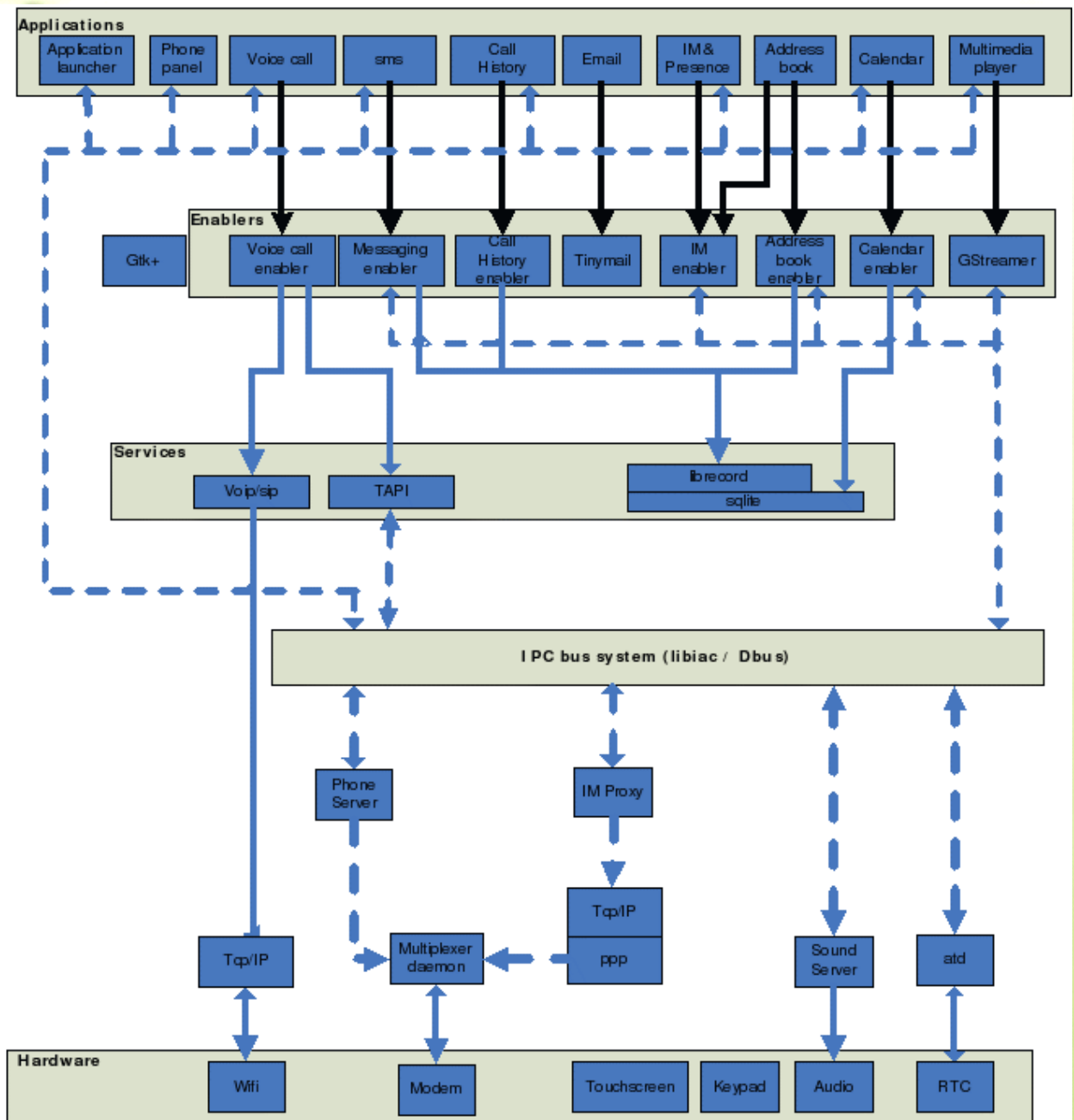
- In Scope/ Founder Contribution
- Out of Scope
- Out of Scope+



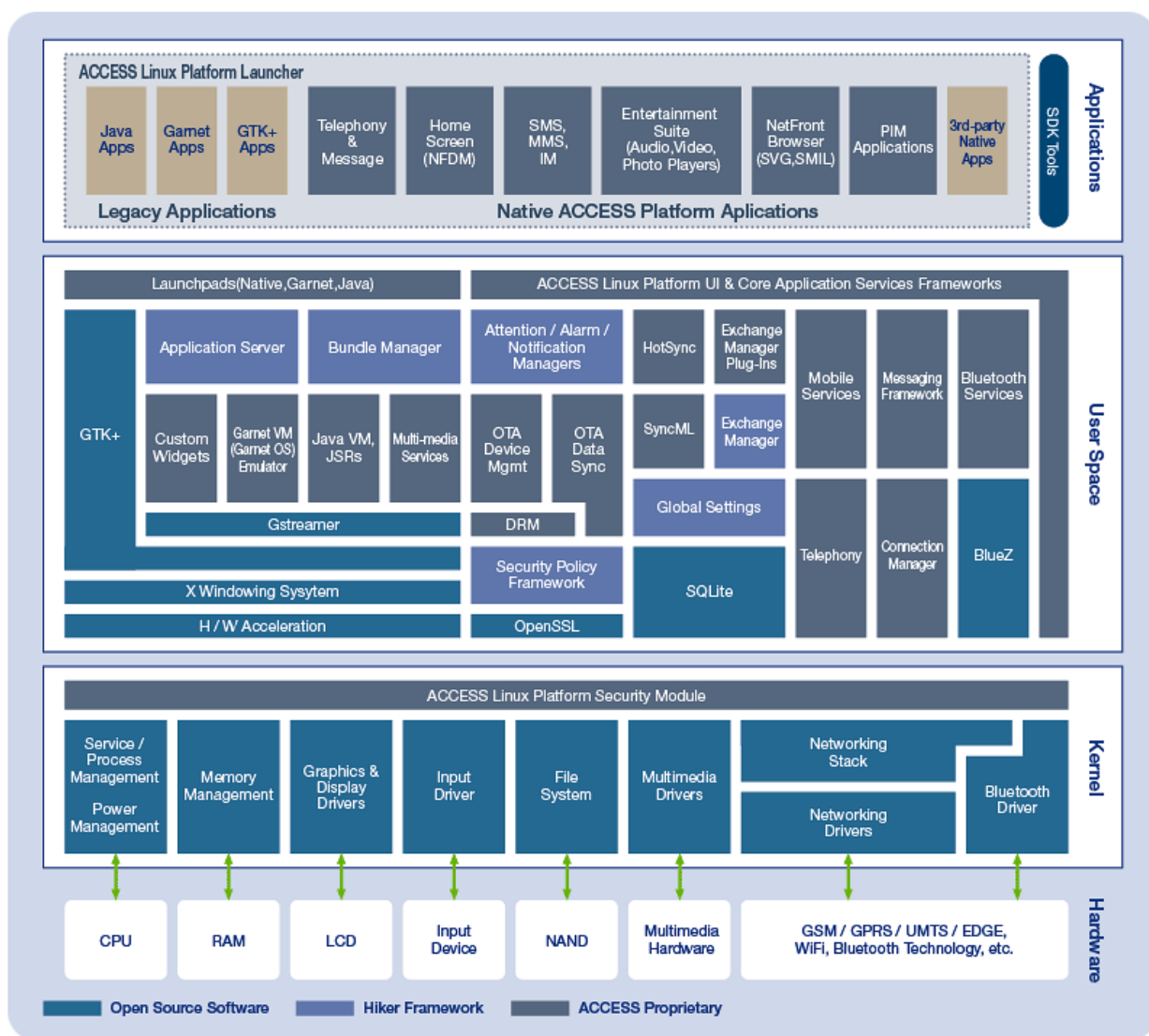
OpneMOKO 架构



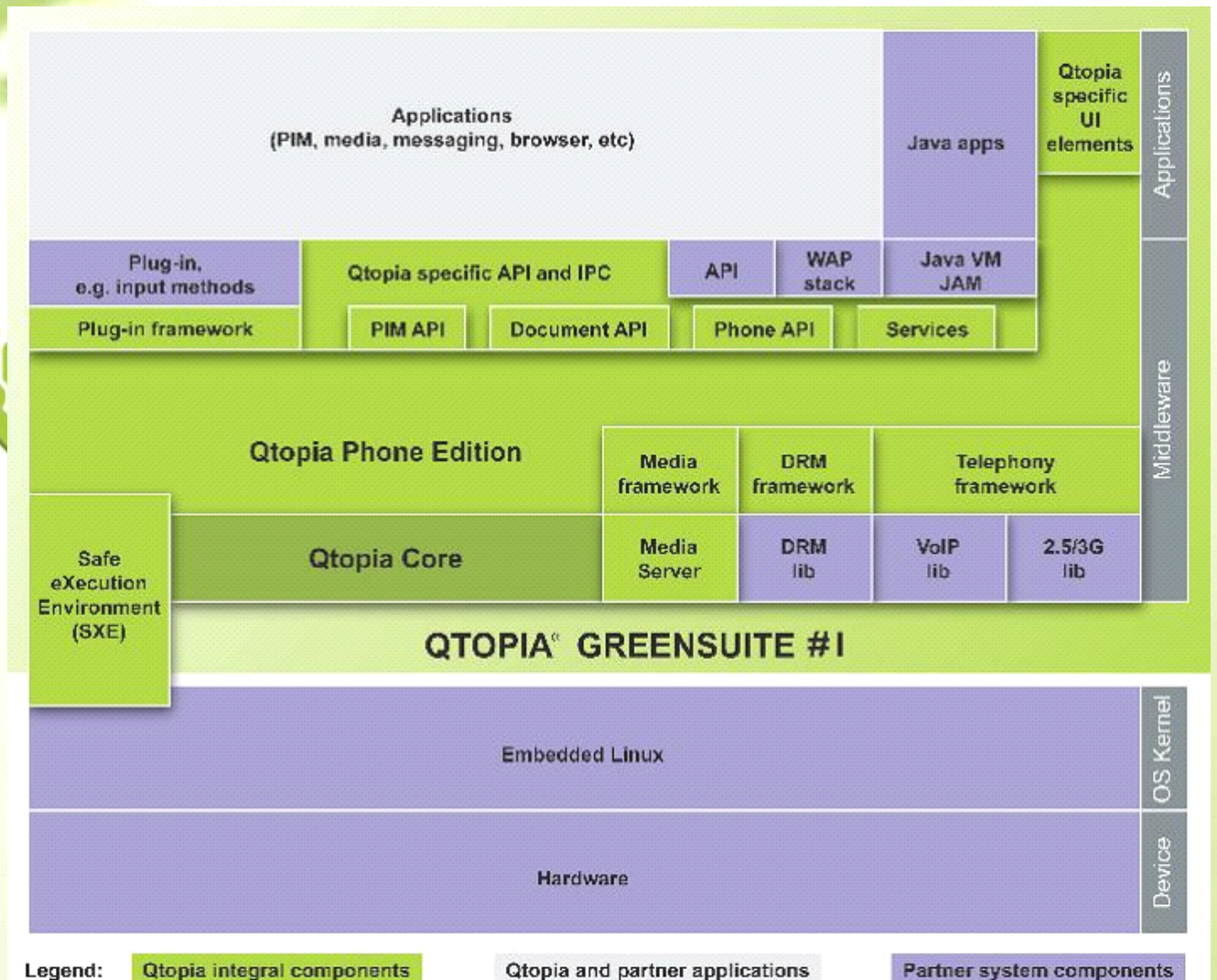
GPE^2 架构



ALP 架构



Qtopia Phone Edition 架构



进程间的通信

Linux 手机平台进程间通信

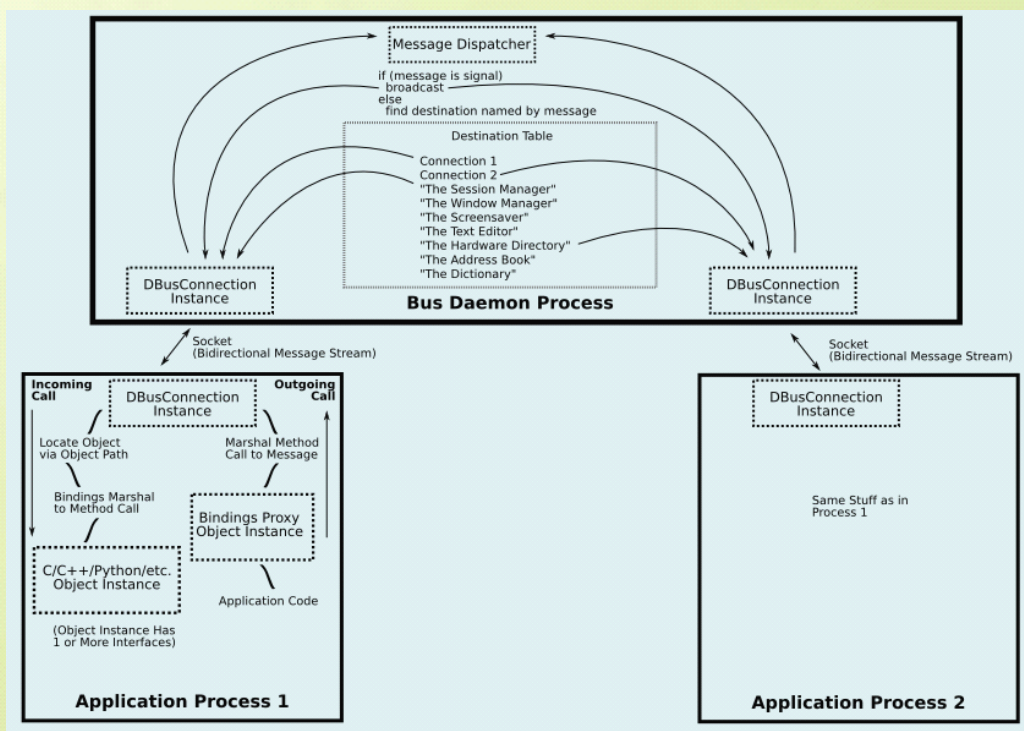
- ◆ Maemo 采用 D-BUS
- ◆ Android 采用 OpenBinder
- ◆ LiMO 采用 D-BUS
- ◆ OpenMoko 采用 D-BUS
- ◆ GPE Phone Edition 采用 D-BUS
- ◆ ALC 采用 OpenBinder
- ◆ Qtopia Phone Edition 采用 D-BUS



进程间通信种类

- ◆ D-BUS
- ◆ Openbinder
- ◆ CORBA/Corbit
- ◆ IVY
- ◆ GNET

D-BUS



Android 学习方法

- ① 了解什么是 Androi
- ② 建立开发环境
- ③ 阅读 SDK 文档
- ④ 背景知识
 - ✓ Java
 - ✓ 面向对象
 - ✓ 设计模式
 - ✓ J2ME、Brew、Symbian



建立 Android 开发环境

- ① 下载 [JDK 5 or JDK 6](#) (JRE alone is not sufficient) ->安装->设置环境变量
JAVA_HOME CLASSPATH path
- ② 下载 [Eclipse](#) 3.3 (Europa), 3.4 (Ganymede) IDE for JAVA->解压
- ③ 下载 [Android SDK](#) 解压-> path 里加入 SDK 包中的 tools 目录全路径
- ④ 下载 [ADT](#) 0.8.0 解压
- ⑤ 打开 Eclipse 安装 ADT 插件

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