

Clarinox BLUE



Clarinox

ClarinoxBlue provides a simplified C/C++ API and controls the functions of the Bluetooth Device, Security and Stack Management.

Qualified V2.0 + EDR



Protocol Stack

The expertise and modular software designs developed at Clarinox allow us to provide the essential ingredients for successful project comes:

- Faster Time to Market
- Reduce Project Risk
- Flexibility
- Simple API
- Modular Design
- Portability

Faster Time to Market

Reuseable proven code and in-built dynamic debug tools facilitates 50-70% reduction in application development time.

Reduce Project risk

The use of well proven architecture leads to a reduction in issues and an increase in engineering efficiency. ClarinoxBlue software has been used in many projects successfully.

Flexibility

ClarinoxBlue handles complex applications utilizing both multiple profiles and multiple local Bluetooth devices, thus allowing an application to interact with several local Bluetooth devices simultaneously.

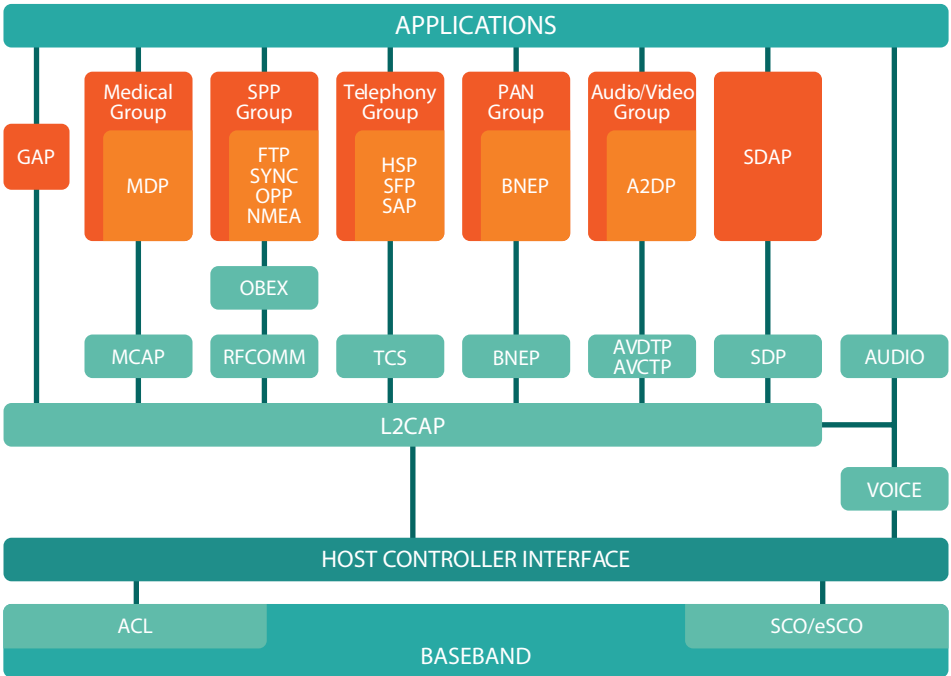
This feature is beneficial for applications such as forming complex networks. Provision for interfacing the stack with legacy applications via use of virtual com port driver is also provided.

Simple API

The simplicity of the ClarinoxBlue API greatly reduces application development times. In fact for most applications the code written based upon ClarinoxBlue will only be one third of the number of lines required for other stacks. The plain language style also facilitates faster test and debug cycles.

Modular Design

The implementation is based on ANSI C/C++. This approach is best suited to handling the inherent complexity of simultaneous multiprofile applications. By applying object oriented software development principles Clarinox has achieved an API that is extremely simple to work with.



Portability

The use of ClarinoxSoftFrame portable framework prevents the necessity of OS specific code in the stack and applications. The framework provides an operating system wrapper functionality including multi-threading, timers, semaphores, mutexes, critical region protection and inter-process message passing. Also it provides driver wrapper as well as higher level functionality such as event handling and finite state machine implementation for a modular architecture. This simplifies the handling of complex functionalities. Users can develop their applications using C/C++ on a desktop environment (Microsoft Visual Studio or GNU tools) and move directly to the target platform with confidence of compatibility. Combined with the compactness of the protocol stack this enables use with a number of architectures.

Specifications

Specifications	ClarinoxBlue
Core Protocol	V1.1 / V1.2 / V2.0 / V2.1
Protocols / Profiles	HCI, L2CAP, RFCOMM, SDP, SDAP, GAP, SPP, Headset, Handsfree, A2DP, AVDTP, AVRCP, DUN, OBEX, FTP, OPP, HID
HCI Transport	UART-H4, USB, UART-BCSP
Audio Support (SCO)	Yes
Applications	Advanced audio, Voice, MP3, Positioning, Tracking, Infotainment
On Roadmap	PBAP, SYNCH, HDP, BPP, SIM, UART 3-Wire

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