

# BlueCode+ 4.0

## Bluetooth Higher-Layer Stack

- Platform-Independent Architecture
- For Embedded and PC-Based Systems
- Powerful APIs
- Bluetooth 3.0 qualified
- Over 10 years of development

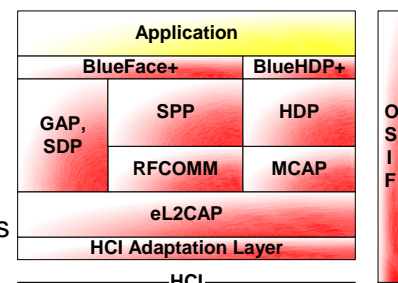


Stollmann's BlueCode+ is a higher-layer stack with a wide range of possible applications that can be used both in embedded systems and in PC-based systems. It has been successfully integrated with several different Bluetooth chips, where it interoperates with the chip manufacturer's lower-layer stack and with application software.

BlueCode+ is based on a platform-independent architecture. The protocol modules are executed in their own run-time environment called OSIF (Operating System Interface) and are thus detached from the "surrounding" operating system. A simple port of the OSIF can adapt BlueCode+ to new operating systems. OSIF also provides all necessary functions to run the Bluetooth stack directly on the chip without an Operating System.

The stack is qualified under the Bluetooth specification v3.0 and supports the enhanced security features introduced with Bluetooth v2.1 including Secure Simple Pairing (SSP).

BlueCode+ comes with powerful APIs to give the application developer an easy yet comprehensive access to the functions of the stack like connection and security management and control of the implemented profiles.



Sample implementation with SPP and HDP

The stack supports a wide range of profiles and protocols.

## Profile Support

Generic Access (GAP)  
Service Discovery Application (SDAP)  
Serial Port Profile (SPP)  
Device Identification Profile (DID)  
Dial-up Networking (DUN)  
Fax  
Headset (HSP)  
Handsfree (HFP)  
SIM Access (SAP)  
Phone Book Access (PBAP)  
Advanced Audio Distribution Profile (A2DP)  
Audio/Video Remote Control (AVRCP)

## Protocols

L2CAP  
RFCOMM  
SDP Server  
SDP Client  
HCI-Host Side  
AVDTP  
EL2CAP

## Access Functions

L2CAP direct access  
SCO  
BlueFace+

## OS Support

Windows XP, 2000, NT,  
Win CE  
Linux

## CPU Support

Coldfire  
AD Blackfin  
ARM 7  
ARM 9  
Cortex M3  
Infineon C161  
Intel x86  
MIPS  
TI DSP 3205x

## Embedded Applications

Client Application  
Server Application  
AT Handler  
Headset Application

## Embedded Management

Configuration module  
Remote access module  
Database module  
Trace module

## Additional Stack Package: HDP

Health Device Profile (HDP)  
MCAP  
BlueHDP+

## Additional Stack Package: OBEX

OBEX Push/Pull  
OBEX ML sync  
OBEX FTP  
OBEX

Customer specific extension or adaptation of the stack is possible on request. For more information please contact us.

**“Bluetooth - driven by Stollmann!”**

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