

# Health Device Profile

## Standardized Bluetooth Communication for Medical Devices

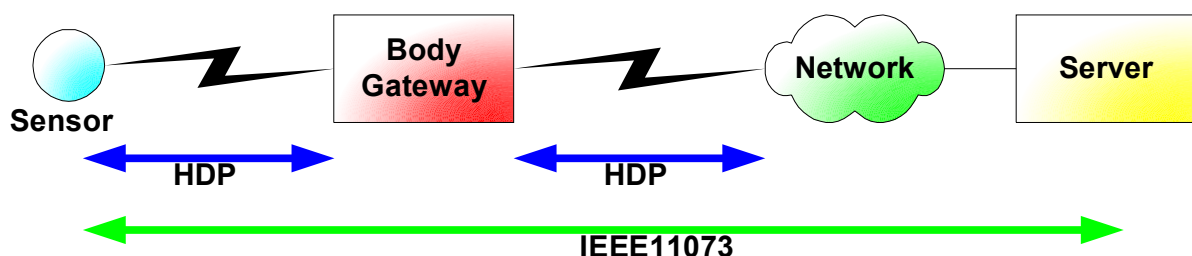
- worldwide interoperability for medical devices
- robust, safe, and tested radio technology
- portable protocol software
- Bluetooth modules for integration



### Function

Bluetooth SIG, the industrial association for Bluetooth manufacturers, has standardized the Bluetooth Health Device Profile (HDP) for transmitting medical data using Bluetooth. The association works closely with the IEEE 11073 protocol which standardizes the format for medical data.

The Health Device Profile therefore consists of two parts. One specifies the transfer protocols that should be used for medical data in the Bluetooth stack. The other describes the structure of the actual medical data. While the first part is specified by the Bluetooth SIG Medical Working Group directly, the other part refers to the ISO/IEEE 11073 specification which defines the data exchange between medical devices to various transmission media.



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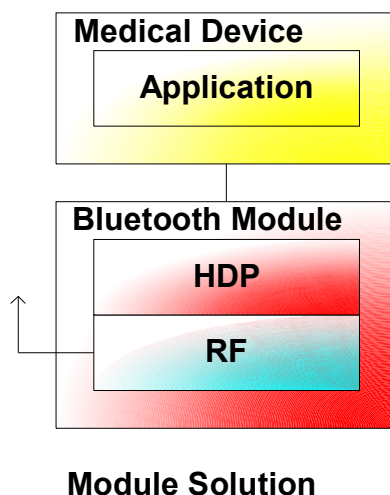
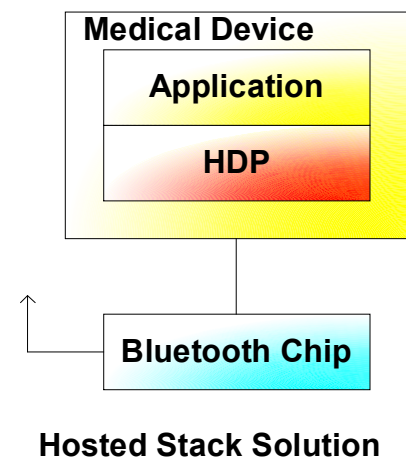
The Health Device Profile further enables a range of additional functions such as the exact chronological synchronization of several Bluetooth connected sensors or the option of transferring different medical data parallel via a Bluetooth interface. This is necessary where several sensors record measured values simultaneously. The HDP can also be combined with other Bluetooth profiles, enabling the alternate or simultaneous transmission of different types.

The Health Device Profile is particularly suitable for telemedicine, especially for monitoring patients. It further covers several applications within hospitals or medical practices.

## Products

Stollmann is one the the first companies worldwide to implement the Health Device Profile into its own Bluetooth higher layer protocol stack, BlueCode+. This can be ported with medical devices as a hosted stack and is especially suitable for projects with medium and large quantities as well as SoC implementations.

Stollmann has also implemented the Health Device Profile into Bluetooth modules that can be integrated into medical devices. This is in particular a good solution for devices with small and medium quantities.



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