BODY AREA NETWORKS

The IEEE 802.15 Task Group 6 (BAN) is developing a communication standard optimized for low power devices and operation on, in or around the human body to serve a variety of applications including medical, consumer electronics / personal entertainment and other.

The purpose of the proposed standard it to provide an international standard for a short range (ie about human body range), low power and highly reliable wireless communication for use in close proximity to, or inside, a human body. Data rates, typically up to 10Mbps, will be offered to satisfy an evolutionary set of entertainment and healthcare services. Current PANs do not meet the medical (proximity to human tissue) and relevant communication regulations for some application environments. They also do not support the combination of reliability (QoS), low power, data rate and noninterference required to broadly address the breadth of body area network applications.

This lecture will show the evolution of the medical wireless standard and the anticipated hardware/software stack of compliant wireless devices.

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