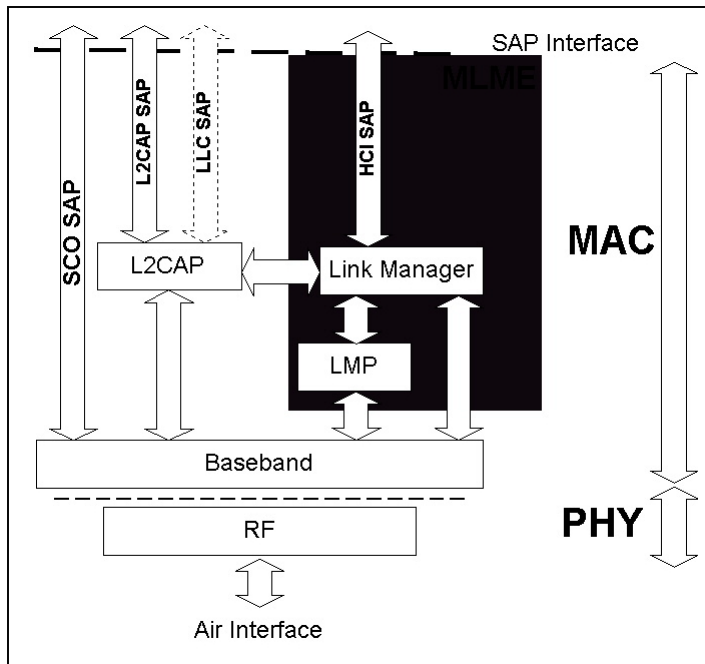


WPANs: a progress report on Task Group 1



Issue 5 of the Bluetooth SIGnal provided a summary of the IEEE 802.15 projects and our efforts at creating standards for WPAN environments. The following column provides a progress report on a single project - Task Group 1 (TG1). The IEEE 802.15 TG1 is deriving a Wireless Personal Area Network standard based on the Bluetooth v1.0 Foundation Specification(s).



describes the IEEE standardized protocols using the formal, object-oriented language defined of the optional ones are implemented.

The next column in the series will discuss the IEEE 802.15 Task Group 2 (TG2), which is developing Recommended Practices for coexistence of 802.15 WPANs or short distance wireless networks with other systems from the 802 family of standards that operated in the 2.4 GHz spectrum, e.g., 802.11 WLANs.

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The IEEE draft standard was recently updated to reflect the latest Bluetooth v1.0 B Foundation Specification. By the time of this publication, the TG1 will have submitted the draft standard to the whole IEEE 802.15 Working Group and be in the midst of conducting a 40-day working group ballot of it. The results will be available on TG1's Web site in the next few weeks.

Even though the IEEE draft standardizes "L2CAP and below" (PHY layer and MAC sublayer), the Bluetooth Community should find this latest draft of special interest. Specifically, we have included in the IEEE draft standard a Specification and Description Language (SDL) model, which

by ITU-T in recommendation Z.100.

The new draft also provides a section on layer interfaces (referred to as service access points or SAPs), see Figure 1, and a Protocol Implementation Conformance Statement (PICS) proforma. The PICS proforma lists all the mandatory features called for in the standard and all optional ones that must be included in a particular implementation. The supplier of a protocol implementation that is claimed to conform to IEEE Std 802.15.1-2001 shall complete this PICS proforma declaring that all mandatory features have been implemented and additionally identify which

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The IEEE Wireless Personal Area Networks (WPANs) column are a new feature in the Bluetooth SIGnal. The Bluetooth SIG and IEEE have decided to provide a recurring column on this joint standards-making effort to update the Bluetooth Community. These short columns will focus on the technical issues and progress of the standardization of the Bluetooth Technology.