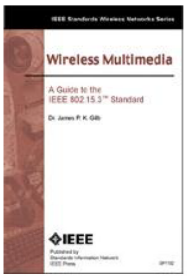
The Wayback Machine - https://web.archive.org/web/20040603154924/http://standards.ieee.org:80/standardspress/

The IEEE Standards Information Network is a publishing entity within the IEEE Standards Department. We publish leading-edge guides, handbooks, tutorials, and other materials that enhance the understanding and implementation of standards. All products are peer reviewed by knowledgeable engineering professionals and technical experts.

New Products

Wireless Multimedia:
A Guide to the IEEE 802.15.3™ Standard



Wireless Multimedia: A Handbook to the IEEE 802.15.3 Standard clarifies the IEEE 802.15.3 standard for individuals who are implementing compliant devices and shows how the standard can be used to develop wireless multimedia applications.

The 802.15.3 standard addresses an untapped market that goes beyond 802.11 and Bluetooth wireless technologies. The standard addresses the consumer need for low-cost, high data-rate, ad-hoc wireless connections. Some of these applications include: wireless keyboards and printers, personal video and digital camaras, cordless telephones and intercoms, digital audio players and headphones, gaming (including interactive gaming, multiplayer consoles, handheld multiplayer gaming, digital music, video, and image uploads to handheld games), home theater system and stereo system components, video conferencing, and more!

Navigating through the IEEE 802.15.3 standard to find the required information can be a difficult task for anyone who has not spent a considerable amount of time involved in standards development within the IEEE 802.15.3 Working Group. Written by Dr. James P. K. Gilb, Technical Editor of the IEEE 802.15.3 standard, *Wireless Multimedia* contains an "insider's view" of the standard in which implementation issues that are not obvious in the text of the standard are highlighted with in-depth explanations.

Wireless Multimedia: A Handbook to the IEEE 802.15.3 Standard brings it all together for those looking to standardize their wireless applications. It introduces and eases the implementation of devices compliant to the IEEE 802.15.3 standard. You will discover the types of implementations that were anticipated when the standard was developed, which will help you to determine what architectures are ideal for developing IEEE 802.15.3 products.

Wireless Multimedia covers three main areas:

- Applications: Applications that would benefit from using IEEE 802.15.3 devices for wireless connectivity, including specific examples of how the unique properties of

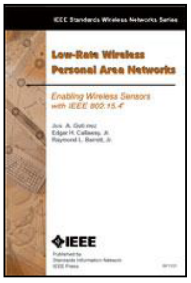
INTEL-1021
U.S. Patent 8,219,129

IEEE 802.15.3 compliant devices enable new applications.

- Implementation: Summary of the IEEE 802.15.3 standard, highlighting special areas that are key to successful implementation. Examples are included for implementers who are developing compliant devices.
- Justification: Discussion and reasoning that went into developing the standard, including background information that covers anticipated implementations and key details on architecture.

View the Table of Contents and Introduction.

Place your order for *Wireless Multimedia: A Guide to the IEEE 802.15.3 Standard*



A new book in our IEEE Standards Wireless Network Series, *Low-Rate Wireless Personal Area Networks: Enabling Wireless Sensors with IEEE 802.15.4*™, is a handbook to the IEEE 802.15.4 standard. *Low-Rate Wireless Personal Area Networks* is a companion to the standard for those interested in the field of "simple" wireless connectivity with further focus on wireless sensors and actuators for the industry in general.

IEEE Std 802.15.4™-2003 is designed to address applications with relaxed throughput and latency requirements, while favoring a low-cost and low-power design. These features enable applications in the fields of industrial, agricultural, vehicular, residential and medical sensors and actuators, which cannot make use of current wireless technologies or have to use proprietary solutions.

Low-Rate Wireless Personal Area Networks is a useful resource not only for those professionals who will need to plan marketing and business strategies around the standard, but also for those who are curious to see where this latest technology is heading and the applications that may be affected, especially in areas such as consumer electronics, home automation and security, personal healthcare, interactive toys, smart badges, remote controls.

It is an absolute MUST READ for anyone who wants to fully understand the inner-workings and possibilities of IEEE 802.15.4, with features such as:

- An overview of the standard, the motivation and vision behind it, and background on the technology
- Technical features and components, application scenarios, and material not covered in the standard related to the network layer functionality for applications
- Implementation and system design considerations, including an analysis of system-level, real-world issues that will be important for prospective implementers to consider.

View the Table of Contents and Introduction.

Place your order for *Low-Rate Wireless Personal Area Networks: Enabling Wireless Sensors with IEEE 802.15.4*

INTEL-1021
U.S. Patent 8,219,129