

# Home Media Networks: Systems, Technologies, And Operation - Lawrence Harte

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This book explains why and how different types of home media network systems are used to provide audio, data and video media distribution throughout a home or business. The needs for audio, data and video distribution in the home are dramatically increasing and some home media systems may not be able to provide what the consumers want and need. You will learn the home media distribution options, how they work, and ways that wireless and wired systems can be combined to reliably provide and control media, voice, and data services throughout the home. Discover how media signals can be converted to a common packet digital format (data) so they can be transferred over home data networks. You will learn about the different types of home data transmission types including telephone line, power line, wireless, coaxial lines, wired data lines, and plastic optical fibers. Learn how home networks have evolved from basic data services for Internet access to guaranteed quality of service (QoS) for streaming video (such as NetFlix) and Internet telephone services (such as Vonage). Discover the different types of access control systems used in home networks including random data access and reserved media control and how the different types of access control methods can share the same type of system. Home networking systems use key technologies to provide for reliable high-speed data transmission including adaptive modulation, echo control, synchronized transmission, interference avoidance, power level control and channel bonding. The key types of home networks are described which include HomePNA, HomePlug, DHS, HD-PLC, MOCA, 802.11, Wireless LAN, and FireComms. You will learn how these systems can co-exist and coordinate with each other. This edition of the book covers how digital living network alliance (DLNA) can allow users to connect, manage, and transfer content throughout the home, It also covers how digital rights management (DRM) can be enforced by digital transmission content protection (DTCP) and high bandwidth digital content protection (HDCP) systems. Some of the most important topics featured include: • Home Multimedia Distribution Needs • Data Transmission Over Phone Lines, Power Lines, Coax, Data Cable, Wireless, and Optical. • Key Technologies Used in Home Networks • Home Network Mixed Media Operation • HomePNA, HomePlug, DHS, HD-PLC, MOCA,

Wi-Fi, and FireComms & Device and System Co-existence & Media Management using DLNA & Digital Transmission Content Protection DTCP Author: Harte, Lawrence Publisher: Althos Illustration: N Language: ENG Title: Home Media Networks: Systems, Technologies, and Operation Pages: 00136 (Encrypted PDF) On Sale: 2011-01-12 SKU-13/ISBN: 9781932813647 Category: Technology & Engineering : Telecommunications Category: Computers : Networking - General Category: Technology & Engineering : Television & Video

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