

ITU-T Workshop

“Opportunities and Challenges in Home Networking”

Abstract

Geneva, 13 – 14 October 2005

Speaker: Andreas Schwager, Sony Deutschland GmbH
Session: 6: Electromagnetic Interference in the Home Environment
Title of Presentation: Using a Coexistence Framework to Manage Powerline Networks

This presentation describes typical use cases for PLC home networks and PLC access networks, primarily from the consumer electronics industry's point of view. From these use cases, market requirements are derived for a powerline carrier (PLC) network to satisfy the use cases.

Upon reviewing the uses cases and market requirements derived from those use cases, it becomes clear that two or more PLC technologies may be existent in a house to efficiently satisfy these requirements. Thus, one requirement for any PLC technology becomes its coexistence with other technologies. The presentation details this particular requirement, defining the coexistence mechanism necessary to fulfill the use cases and efficiently meet all the market requirements.

