

## G.hn standard for wired home networking approved

### New Standard Opens Door for a Unified Home Network

**Geneva, 15 October 2009** – Final Approval has been reached on an ITU standard that will usher in a new era in home networking. Standards under the G.hn banner will enable service providers to deploy new offerings, including IPTV, more cost effectively; allow consumer electronics manufacturers to network all types of entertainment, home automation and security products throughout the house; and greatly simplify consumers purchasing and installation processes.

G.hn compliant devices will be capable of high-bandwidth – up to 1 Gbit/s - networking of rich multimedia content over household wiring options including coax, phone line or power line. The announcement means that silicon manufacturers can confidently move forward with their development programs and bring products to market. Experts predict that the first chipsets employing G.hn will be announced in early 2010.

“G.hn is a technology that gives new use to cabling that most people already have in their homes. The remarkable array of applications that it will enable includes energy efficient smart appliances, home automation and telemedicine devices,” said Malcolm Johnson, director, ITU's Telecommunication Standardization Bureau. “The sheer weight of industry support behind this innovation is testament to the extraordinary potential of this standard to transform home networking.”

The physical Layer (PHY) and architecture portion of the standard were approved October 9, with a goal to put forward the data link layer for approval at the next meeting of ITU-T Study Group 15.

[Home Grid Forum](#), a group set up to promote G.hn, is developing a certification program together with the [Broadband Forum](#) that will aid semiconductor and systems manufacturers to build and deliver standards-compliant products to market by using the HomeGrid-certified logo. Matthew Theall, president of HomeGrid Forum: “HomeGrid Forum and its member companies applaud the ITU-T for its success in developing a standard that will greatly simplify home networking, provide a platform for new services, and deliver the next-generation performance needed in the marketplace.”

The next phase of work will focus on a complementary recommendation for coexistence between G.hn-based products and those using other technologies. Currently under the working title G.cx, the standard describes the process by which G.hn devices will work with power line devices that use technologies such as IEEE P1901. In addition experts say that they will develop extensions to G.hn to support SmartGrid applications

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To fulfil its mission, ITU adopts international regulations and treaties governing all terrestrial and space uses of the frequency spectrum as well as the use of all satellite orbits which serve as a framework for national legislations; it develops standards to foster the interconnection of telecommunication systems on a worldwide scale regardless of the type of technology used; it also fosters the development of telecommunications in developing countries.

ITU also organizes worldwide and regional exhibitions and forums bringing together the most influential representatives of government and the telecommunications industry to exchange ideas, knowledge and technology for the benefit of the global community, and in particular the developing world.