GreenPeak Releases New Internet of Things White Paper

GreenPeak Technologies

Utrecht, The Netherlands – GreenPeak Technologies [1]has posted a new White Paper called “Sentrollers and the Internet of Things”. In this paper Sentrollers are defined as a new, all-encompassing term for sensors, actuators and controllers – the various devices that make up the new Internet of Things. The white paper also describes the important role of ZigBee, the technology of choice for the Smart Home, as the crucial enabler for the development of the Internet of Things.

Most of the end-nodes on the internet today are people using PCs, laptops and smart phones. However this is rapidly changing as more devices in the home are connecting to the internet, building the Smart Home, and starting to shift the balance away from people towards connected things. These devices are usually sensors, controllers, actuators or combinations that together, can be considered as “Sentrollers”. For instance: a thermostat senses the temperature, compares this with a desired temperature and activates a heater or air conditioner, controlling, essentially “sentrolling”, the temperature.

The Smart Home will also accelerate the use of sentrollers beyond the home: in building automation, for the smart grid, and from there in logistical, industrial and agricultural applications.

Multi-Service Operators (MSOs) are driving the Smart Home applications already through their service offerings, like security, energy management and home care. The number of devices connecting to the internet is steadily growing by several millions per week – a quiet revolution going on.

The wireless access technology for the Smart Home is ZigBee, the open worldwide IEEE standard, equivalent to WiFi. WiFi guarantees reliable high data rate connectivity for content sharing and distribution. ZigBee, with its low power and meshing capabilities is ideally suited as access technology for “sentrollers” processing low data rate communication packets from these wireless devices on life-long batteries. Just like WiFi was a real milestone starting the use of internet at home, the Internet of Things with ZigBee has started at home as well, enabling the next wave in the technology revolution.

“The number of things connected to the internet will soon surpass the number of people and in the future sentrollers will dominate the Internet of Things.” says Cees Links, Founder and CEO of GreenPeak Technologies, a market leader for ZigBee silicon. “Industry analysts predict factors of 100 things for 1 person when the Internet of People transforms into the Internet of Things. In the same way as WiFi today is synonymous for wireless internet (of People), ZigBee is becoming synonymous for the wireless Internet of Things, making it possible for “any-Thing” to seamlessly connect to the Internet without worries about power or battery life.”

“The rapid growth in smart home, intelligent systems, and the internet of things, combined with the rapid acceptance of ZigBee standard provides outstanding opportunities for the developers and manufacturers of a wide range of web connected home devices and systems,” says Michael J. Palma, Research Manager, Consumer Device Semiconductors & Electronics Manufacturing Services with IDC. “Within a decade, these low power, low data rate networks will be common place and will transform how we interact with our homes.”

The white paper on “Sentrollers and the Internet of Things” is available for download from the GreenPeak website and explains how ZigBee wireless technology plays a crucial role in the foundation and establishment of the Internet of Things.

For more information visit www.greenpeak.com [1].

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