decaWave newsletter

Issue 6: Spring 2011

DECAWAVE TAKES "BEST TECHNOLOGY DEVELOPMENT FOR RTLS/WSN" AT IDTECHEX

(l-r) DecaWave's Luc Darmon and Gerry O'Grady accept "Best Technology Development for RTLS/WSN"award from Raghu Das, CEO IDTechEx.

ScenSor has been named "Best Technology Development for RTLS/WSN"at the prestigious industry trade show **IDTechEx** which was held in Boston MA in November. This was the first time samples of ScenSor had been shown in public.

According to the citation, "DecaWave won this award for their ScenSor chip development, based on Ultra-Wideband technology. It uses innovative techniques to achieve a location accuracy of +/-10cm, uses significantly less power than an equivalent 802.15.4 device and is capable of 500 meters line of sight communication or 45 meters non-line of sight communication."

Meantime also in November, in London, England, ScenSor was again honoured, this time by the **Global Security Challenge** organisation in its annual competition for Start Up and SME companies with applications in the Security space, placing ScenSor second overall.

Pictured: Sample of ScenSor chip, placed beside standard military ID tags

Standards Meetings

IEEE 802.15.4f Active RFID

DecaWave VP Software Billy Verso

In January 2011, the 13th Meeting of Task Group 4f took place at the IEEE 802 Plenary Meeting in Los Angeles, California, where DecaWave was represented by Billy Verso VP of Software.

This group is working on new wireless Physical (PHY) layers for Active RFID, some of which are UWB based and RTLS capable. The 802.15.4a UWB PHY is ideal for Active RFID and the .4f UWB band plan has been aligned with .4a's so that future dual mode anchor nodes may receive from tags based on either .4a UWB, or on the lower performance .4f OOK modulation.

TG4f business in L.A. was resolving the 300+ comments received on the first draft of 802.15.4f circulated prior to the meeting. Comment resolution on a revised draft will continue at the IEEE802 interim session in Singapore in March 2011.

ISO/IEC 24730-6 UWB RTLS

ISO/IEC JTC1/SC31 WG5 is working on a new RTLS standard based on UWB to be known as ISO 24730-6. DecaWave's Billy Verso is one of three project co-editors working on drafting the standard, which will include the IEEE 802.15.4a UWB at the physical layer. The next meeting is in Vienna in May 2011.

DecaWave representatives will attend both upcoming IEEE and ISO meetings and are happy to meet potential clients there. Please feel free to contact us at info@decawave.com to arrange an appointment.

Pictured (l-r): Luc Darmon, Gerry O'Grady and Michael McLaughlin, all of DecaWave; Alain Rhelimi, Gemalto; Luc Jansseune, Continental; and Marc Muller, Gemalto.

Gemalto, Continental Visit to DecaWave

In January 2011, DecaWave played host to a visiting delegation from Gemalto, the digital security multinational, and co member of the eGo Project.

The eGo consortium, funded by EU initiative Catrene, proposes a new and innovative way to establish secure, bidirectional wireless channels between objects or individuals in the future internet of things, based on a bootstrapping scheme using the electrical conductivity of human skin. This will open the path to new and intuitive ways of interaction for electronic transactions. DecaWave is providing the Ultra Wideband communications component for the eGo project.

For further details of the eGo Project, please visit www.ego-project.eu .

DecaWave Hosts ZigBee Alliance, Kroger

Pictured (l-r):Brett Bonner of US supermarket giant Kroger; Bob Heile, Chairman, ZigBee Alliance; Michael McLaughlin, CTO DecaWave; and Pat Kinney, Secretary, ZigBee Alliance.

DecaWave also welcomed a delegation from ZigBee and US supermarket Kroger to our Dublin offices in November 2010 for a demonstration of ScenSor technology and its features and capabilities. The delegation was led by Bob Heile, Chairman of the ZigBee Alliance.

Gartner Analyst Optimistic About Indoor Handset Location Sensing

Leading Gartner analyst Nick Jones has blogged about the need for indoor handset location sensing.

In a 13 December 2010 entry, entitled "Indoor handset location sensing – the holy grail gets closer", Jones posts: "One of the biggest technological deficiencies in the mobile universe is the fact that you can't precisely locate a handset indoors. This would be so useful, because I spend far too much of my life wandering around with a frustrated and puzzled expression trying to find things like shops in a mall or products in a supermarket"...."I feel that we're a lot closer to achieving the holy grail of precise indoor location sensing".

According to the blog, Gartner's updated research note on indoor and outdoor location sensing technologies will be published shortly.

DecaWave Shortlisted for Prestigious Innovations Award

DecaWave's ScenSor chip has been shortlisted to the final three in the Product Innovation category of the prestigious **Irish Times InterTradeIreland Innovation Awards.**

Now in its second year, the Irish Times InterTradeIreland All-island Innovation Awards aim to recognise and promote the best service, product or operational innovations throughout the island. The finalists were selected by an independent panel of judges.

InterTradeIreland Strategy and Policy Director, Aidan Gough, said: "The innovations represented by our competition finalists are not only strong ideas – they are market-led and market-focused, answering the needs and demands of the marketplace and backed up by strong business plans."

Further information about the awards can be found at www.irishtimes.com/innovationawards