

ORACLE EMERGING BUSINESS PARTNERS

Toumaz Technology

Toumaz Technology, a spin-out from Imperial College London, has developed an ultra low-power smart sensor interface and transceiver platform - the Sensium™ - that enables non-intrusive wireless monitoring of multiple vital signs.

Based on Toumaz's breakthrough Advanced Mixed Signal (AMx)™ technology, the Sensium platform provides the enabling technology to connect the mobile individual to healthcare providers - simply, affordably and unobtrusively.

Due to its ultra low power and very small battery size, the Sensium system can be body-worn with complete freedom of movement (unlike existing bulky monitoring solutions) as a "digital plaster" - the dimensions of a nicotine patch. Designed to work with a range of body-worn physical and bio-chemical sensors, the Sensium can be configured to detect multiple vital signs such as ECG, blood oxygen and glucose, temperature, and even motion and mobility.

The locally intelligent Sensium devices capture, dynamically process and filter "problem" event data and send it wirelessly to a PC, standard cell phone or PDA via an ultra low-power, short-range radio telemetry link.

By providing the complete wireless infrastructure for an end-to-end telemedicine system, the Sensium has the potential to revolutionise the architecture of healthcare information systems, providing a unique platform for analysis and decision-making based on real-time data.

For healthcare professionals, this transforms the possibilities for pro-active monitoring and improved quality of care. For patients, it delivers new opportunities for lifestyle-compatible, personalised healthcare, as well as better therapeutic outcomes.

Toumaz and Oracle are working together to link the real-time vital signs information taken from the mobile individual to the electronic patient record, using Oracle's Healthcare Transaction Base (HTB) - an information system designed specifically for healthcare markets and integrated with the first international standard for storing and sharing health information: the Health Level Seven Version 3 (HL7 v3) Standard.

"Working with Oracle has helped us to harness the potential of our end-to-end solution from an early stage in our product development," explains Professor Chris Toumazou, Co-Founder and Chairman, Toumaz Technology. "By leveraging Oracle's networking, data storage and analysis expertise, we've been able to demonstrate to customers the implementation of our core platform technology within an integrated, scalable system solution -- a key capability as we move to the next stage of commercial delivery. Oracle has proved to be an excellent partner and without hesitation we would recommend working with the company to any start-up organisation with similar ambitions for fast growth."

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