

WIBREE FORUM MERGES WITH BLUETOOTH SIG

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AGENDA

- Announced today: Wibree forum merges with Bluetooth SIG
- The history of Wibree
- The technology and implementation options
- Ultra low power *Bluetooth* use cases
- Expanding connectivity with an ultra low power *Bluetooth* technology
- Summary

WIBREE INCLUDED UNDER BLUETOOTH SIG UMBRELLA

- Wibree forum merges with the Bluetooth SIG and Wibree becomes part of the *Bluetooth* specification as an ultra low power extension of *Bluetooth* technology.
- Wibree will round out *Bluetooth* technology's Personal Area Networking (PAN) offering and strengthen the technology's ability to provide wireless connectivity for devices with very low battery capacity.
- The work of integrating Wibree technology with the existing *Bluetooth* specification has begun and the first version of the specification is anticipated during first half of 2008.

THE HISTORY OF WIBREE

- Wibree is an ultra low power, short range radio technology offering connectivity between mobile devices and small, button cell battery-powered devices
- Wibree's development began in 2001 when Nokia Research Center discovered new use case scenarios for tiny low power devices that were not effectively served by existing local connectivity solutions.
- Nokia announced Wibree to a wider audience in October 2006 stating its intention to include the technology and its current forum into an open, preferably existing industry forum to ensure Wibree's wide adoption.

THE TECHNOLOGY & IMPLEMENTATION OPTIONS

- Ultra low power *Bluetooth* technology is designed with two implementation options:
 1. Stand-alone implementation
 2. Dual-mode implementation (as an extension to a classic *Bluetooth* radio)
- Enhances the current *Bluetooth* use cases around many devices such as mobile phone and PC by bringing very low power, sensor type devices into the fold.
- Consumes only a fraction of the power of the classic *Bluetooth* radio allowing small and low cost implementations.

	Stand-Alone IC	Dual-Mode IC
Data rate	1 Mbps	1 Mbps
Range	5-10 m	5-10 m
Power	Classic <i>Bluetooth</i> x 10-25%*	Classic <i>Bluetooth</i> x 75-80%*
Cost	Classic <i>Bluetooth</i> x 50-60%	Classic <i>Bluetooth</i> + 10%

*in typical ultra low power *Bluetooth* applications

ULTRA LOW POWER *BLUETOOTH* TECHNOLOGY USE CASES



Sports & Fitness

- Sensors in sports equipment (heart rate belt)
- Sports monitoring devices (pedometer)
- Embedded sport sensors (altimeter in watch)



Healthcare

- Healthcare devices (blood pressure monitor)
- Illness treatment (glucose meter)
- Monitoring devices (medication dispenser)



Home & entertainment

- Remote controls (for e.g. music device)
- Gaming sensors (sensors in wrists and knees)
- Home sensors and switches (remote lock)



Office & mobile accessories

- PC accessories (wireless mouse)
- Mobile phone accessories (mobile keyboard)
- Identification systems (PC ID in key chain)



Automotive

- Monitoring (tire pressure monitor)
- Alarms (parking assistant)
- Keyless entry (key in wrist watch)

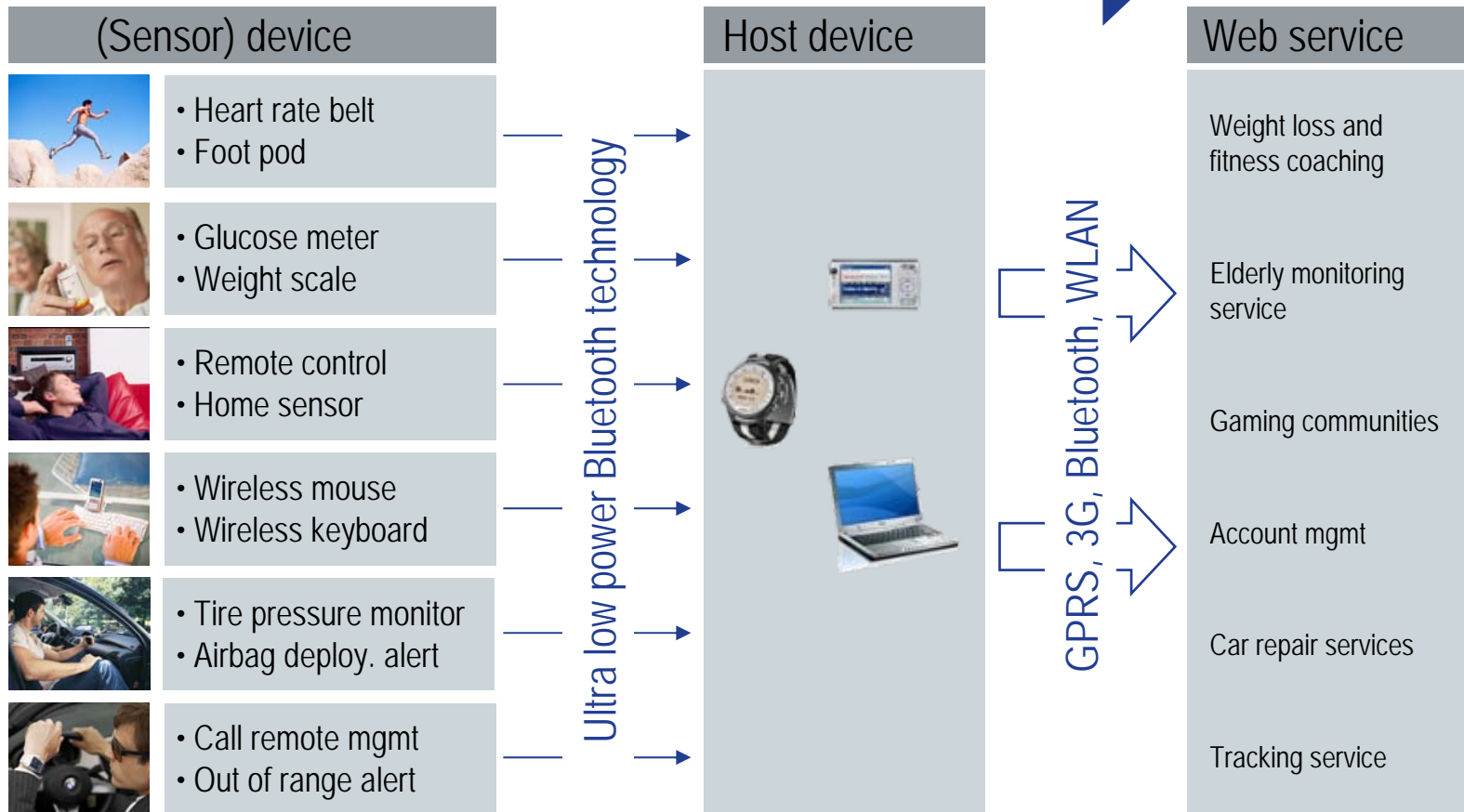


Watch

- Remote controls (of MP3 player or mobile phone)
- Sub-displays (of mobile phone)
- Out of range services (alert when phone forgotten)

EXPANDING CONNECTIVITY WITH ULTRA LOW POWER *BLUETOOTH* TECHNOLOGY

Ultra low power *Bluetooth* technology enables connectivity between small devices and the mobile phone and turns it to a gateway.



IN SUMMARY

- Wibree forum merges with the Bluetooth SIG and Wibree becomes part of the *Bluetooth* specification as an ultra low power *Bluetooth* technology to enable ultra low power PAN applications.
 - Enhances existing scenarios and opens up new ones.
- Specification is expected to be ready during first half of 2008.

