Non-radiating Communications Systems

Performance degradation of communications systems is a major issue. The more users the slower the performance. Our novel communications technology provides a high speed, secure, non-contact, invisible (to antenna/traditional RF comms) communications system that overcomes issues with high user loads impairing performance.

The Challenge

Wireless communications systems such as WiFi, Zigbee and Bluetooth are radiating systems and therefore licensing, security, interference and congestion issues are encountered. This can be detrimental to the system reliability and data security can be compromised.

- Enclosed environments (eg. aircraft, lecture halls, conferences) – degradation of performance as user load increases, lack of security and reliability
- Factory automation – electrically noisy environments hence interference, need for position determination
- Security systems – comms security, need for position determination

Furthermore, cable and fibre solutions such as ethernet and fibre optic solutions are fast but expensive to install.

Product Description

**ENABLING FEATURES**

- Fully compatible with 802.11 standards
- Up to twice as fast as 802.11g or later
- Requires a proprietary interface module but NO software
- Range can be tailored to suit application non radiating options
- Non contact – no connections to break
- Isolated access points or along a track
- Can control cell length and range
- Provides basic position location
- System can optionally include inductive (wireless) power transfer
- No need for return to base cabling

**POTENTIAL MARKET APPLICATIONS INCLUDE:**

- Aircraft cabin entertainment and internet
- Medical Applications
- Education, conferences, tradeshows
- Entertainment and public internet
- Factory automation
- Security Systems
- Defence
- Robotics – healthcare & factory
- Data logging interface
- Stringent or hazardous environments
- Hand held devices (smart phones etc)
- Residential buildings

Professor John Boys

Professor John Boys is an inventor with over 40 patents and patents pending in the wireless power transfer field and is the founding scientist of HaloIPT, the world’s leading company providing wireless power to electric vehicles.