Tinynode
Parking, smarter.
A Paradox Engineering Company

Press release

Smart Parking: Tinynode solutions contribute to reduce city traffic up to 30%

Tinynode showcases at Intertraffic Amsterdam 2018 the very best of its high-accuracy wireless vehicle detection systems and a sneak peek of new Parking Sensor Fusion technology

At hall 2, booth 02.211, visitors are offered a unique Augmented Reality experience to immerse into Internet of Things applications for Smart Cities

Novazzano, Switzerland, 20 February 2018 – **Tinynode**, the Swiss company specialized in wireless vehicle detection systems, brings to world-leading traffic technology exhibition **Intertraffic Amsterdam 2018** the very best of its **high-accuracy wireless vehicle detection systems for Smart Parking** and introduces new **Parking Sensor Fusion** technology.

As Cities struggle to limit traffic and improve quality of life, Tinynode solutions represent a compelling and cost-effective way to **reduce road congestion up to 30%** by increasing the average usage of existing parking facilities, reducing idle itineraries looking for a free car spot, and related fuel and time waste, stress, and air pollution.

Thanks to a unique patented technology granting over **99%** radio communication availability, **over 98%** detection accuracy and up to **10**-year battery life, Tinynode products enable the implementation of secure and reliable wireless networks for a number of **Smart Parking applications**, fitting the needs of off-street and on-street car parking, indoor and outdoor facilities, multi-storey parks, time-limited parking lots, electric vehicles reserved areas and charging stations.

Tinynode solutions include **A4 and B4 car sensors** to detect single-space occupancy, **R4 and SR4 repeaters**, **G4 gateways** and **CT4 config tool** to build an effective wireless network to **remotely monitor and control parking facilities**, collecting and taking advantage of a full range of **parking-related data**, such as the number of available lots in a specific area, the duration of each parking and possible abuses (ie. vehicles exceeding time limits, unauthorized parking in disabled spots or in electrical vehicle charging stations, etc.).

Intertraffic Amsterdam 2018 is be the stage for a sneak peek of **Parking Sensor Fusion**, the unique software technology **generating virtual sensors** by the **integration of parking occupancy data** coming from **different existing or new sources and systems**. Based on a patented algorithm which couples vehicle occupancy data coming from Tinynode car sensors with video images, radar signals or other sources, Parking Sensor Fusion returns a univocal piece of information about parking status with the smallest possible margin of error. Such multiple data source turn into virtual sensors with broader capabilities, along with the Smart City and IoT paradigm.

With Parking Sensor Fusion, parking management can be brought to the next level, benefitting from a cost-effective and investment-preserving technology that provides top data accuracy and **innovative applications**.

By seamlessly integrating Tinynode solutions with **mobile apps, variable message panels and traffic guidance systems**, it becomes possible to alert drivers with real-time parking availability and route them to the nearest facility. Parking managers can set **dynamic pricing schemes** and launch **additional services**, such as online booking and payment services, parking coupons and valet services for shops and local businesses, and more.

Explore IoT Smart Cities with Augmented Reality

At Intertraffic Amsterdam 2018, visitors joining Tinynode at **hall 2, booth 02.211** are offered a **unique Augmented Reality (AR) experience** to **immerge into Internet of Things (IoT) applications** for **Smart Cities**.

By combining Tinynode technologies and **Paradox Engineering's PE Smart Urban Network platform**, Cities and utilities can implement Wireless IoT and Wireless Highspeed IoT networks to **manage and control key urban applications far beyond Smart Parking**. The AR experience leads visitors into an interactive demonstration of how services such as streetlight control, parking management, solid waste collection, video surveillance and public Wi-Fi can reside on a single infrastructure, also enabling the development of any other present or future service for urban communities.

Soon after Intertraffic Amsterdam 2018, the AR experience will be available for customers and partners as a stand-alone **mobile app for iOS and Android** devices. Free download from Apple Store and Google Store will be allowed.

About Tinynode SA

Tinynode aims at contributing to a smarter, safer, easier and more comfortable driving world by providing high-accuracy wireless vehicle detection systems for Smart Parking applications. Based on purpose-built, lowest-power electronics and a multi-hop, self-configuring, self-healing mesh radio protocol, Tinynode products are reliable, high-performing, cost-effective and long-lasting, and they easily integrate with other technologies.

Tinynode SA was created in 2012 as a spin-off of Shockfish SA and has been part of Paradox Engineering since 2015.

For more information, please visit www.pdxeng.ch/tinynode

About Paradox Engineering SA
Paradox Engineering is a technology company with a solid engineering DNA and strong competences in data collection systems, radio design and wireless sensor networks. Acknowledged innovator and leading player in the Internet of Things, Paradox Engineering designs compelling platforms for device and data management in smart urban and industrial environments.

Established in 2005 and headquartered in Switzerland, the Company is part of MinebeaMitsumi Group, leading global provider of Electro Mechanics Solutions™, which acquired full capital and assets of Paradox Engineering SA in July 2015.

For further information: www.pdxeng.ch

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