Press Release

Produal's new wireless Proxima mesh solution for building automation harnesses LumenRadio and u-blox technology

Thalwil, March 5, 2019 - u-blox (SIX:UBXN), a global provider of leading positioning and wireless communication technologies, and LumenRadio, providers of ultra-reliable wireless solutions, have combined their technologies to enable a new building automation solution. Developed by Produal, based in Finland, the new wireless Proxima room solution leverages wireless mesh technology and NINA-B1 Bluetooth low energy module to increase flexibility and ease of installation. By offering a gateway to the cloud, it facilitates the development of new cloud-based building automation solutions. Produal Proxima® combines the u-blox NINA-B1 module and LumenRadio's embedded operating system, MiraOS™.

With the release of wireless Produal Proxima® solution, Produal has taken the next step of building automation measurement and control and taking the lead into the wireless future.

Produal Proxima® builds on wireless mesh sensors that communicate over LumenRadio's MiraOS™, capable of robustly connecting hundreds of wireless nodes – sensors, actuators, gateways. The self-healing network is designed to continue to perform when individual nodes fail, and can easily be adapted when building layouts change. Multi-hop technology ensures that signals are transmitted across the entire network, guaranteeing coverage regardless of a building's architecture.

LumenRadio's patented Cognitive Coexistence technology ensures that communication is carried out on the least crowded and most optimal frequencies at any given time, increasing the reliability of the solution. And FOTA (firmware-over-the-air) updates via the u-blox NINA-B1 module ensure that all nodes in the network always run the latest firmware, future-proofing and securing the entire solution.

The fact that LumenRadio's flexible MiraOS™ can be adapted to any radio hardware on any frequency band gave Produal the flexibility to choose hardware optimized to their application. Produal opted to use the u-blox NINA module for wireless communication, convinced by its high performance, cost-efficiency, and small footprint. It is a stand-alone Bluetooth low energy module with a powerful Arm® Cortex®-M4 microcontroller unit. Thanks to the module's state-of-the-art power performance, the wireless nodes have a battery life of over eight years, limiting maintenance to a minimum.

"Produal's offering is a perfect example of how our NINA module family enables size and power-optimization and highly reliable wireless-mesh based solutions with hassle-free firmware-over-the-air updates," says Stefan Berggren, Senior Product Marketing Manager, Short Range Radio Product Center at u-blox.

"Building automation is a no-nonsense business – things have to work. And that's where our ultra-reliable mesh comes into play, efficiently connecting devices in the hundreds and thousands throughout buildings. We give Produal the performance they need today, while future-proofing their offer for whatever tomorrow will bring," concludes Peter Lindkvist, Sales Director at LumenRadio.

"Wireless functionality is undoubtedly one of the fastest growing trends everywhere. With the new wireless Proxima platform, Produal creates reliability for wireless building automation thanks to this future-proof and secure solution. Dedicated wireless applications can be built, commissioned and updated easily," states Francesco Fausti, Director, product management and export sales at Produal.

The wireless Produal Proxima® solution is showcased at ISH - the world's leading trade fair for HVAC + Water in Frankfurt, March 11-15 both by LumenRadio and Produal.
LumenRadio: Hall 10.3, B53
Produal: Hall 10.3, B69

About u-blox
u-blox (SIX:UBXN) is a global provider of leading positioning and wireless communication technologies for the automotive, industrial, and consumer markets. Their solutions let people, vehicles, and machines determine their precise position and communicate wirelessly over cellular and short range networks. With a broad portfolio of chips, modules, and a growing ecosystem of product supporting data services, u-blox is uniquely positioned to empower its customers to develop innovative solutions for the Internet of Things, quickly and cost-effectively. With headquarters in Thalwil, Switzerland, the company is globally present with offices in Europe, Asia, and the USA. www.u-blox.com
Find us on Facebook, LinkedIn, Twitter @ublox and YouTube

About LumenRadio
LumenRadio is a wireless connectivity company based in Gothenburg. They develop, market and sell a low-power and ultra-reliable embedded operating system for wireless IoT-applications based on their patented FPCC (Future-Proof Cognitive Coexistence) technologies. From high-profile professional lighting to heavy-duty industrial equipment, LumenRadio has a solution that works in environments where others fail.
www.lumenradio.com

About Produal
Produal is your reliable partner for high-quality building automation measurement and control. Our 100 experts work locally and passionately with you to help provide excellent BA projects and services, and to design and manufacture proven BA solutions efficiently. Our 30 years of expertise can be seen in tens of thousands of buildings around the world.
www.produal.com

u-blox media contact:
Natacha Seitz
PR Manager
Mobile +41 76 436 0788
natacha.seitz@u-blox.com

LumenRadio contact:
Peter Lindkvist
Sales Director
Peter.lindkvist@lumenradio.com
+46 738 39 32 22

Produal contact:
Antti Salli
Product manager, transmitters and wireless products
antti.salli@produal.com
+358 10 219 9155