

Press release
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Security - Encryption & Wearables

Secure health and fitness data in the internet of things

Data security involves much more than data protection, and simple “non-disclosure” is no longer adequate. Data needs to be encrypted to effectively prevent accessing by third parties, and this is exactly one of the fundamental concerns of consumers in the era of the internet of things (IOT). Qnective AG and VORN provide secure encryption on devices in the IOT. Qnective AG has set itself the goal of eliminating inadequate security in the IOT, and the company has developed solutions which also reliably protect data in the IOT against accessing in both a private and business environment. A recognised specialist in cyber security, this Swiss enterprise has gained decades of experience in the areas of secure communications, cryptography and encryption of real-time communication.

“We have developed the secure element of a fitness device for our partner VORN, with AI and encryption protection of vital and health data. This is the first wearable, fully encrypted and, consequently, secure device for measuring sport and health data anywhere in the world”, says Martin Robausch, CTO of Qnective.

The number of devices in the internet of things will exceed 20 billion in the coming years. But not all of these devices have a secure element or appropriate chip platform for storing highly sensitive data, including fitness trackers that collect highly sensitive and private health data.

Ensuring data security in the IOT presents a fundamental challenge, and Qnective AG has mastered this in cooperation with VORN in the area of fitness devices. The wearable which they have developed together is the world’s first fully encrypted and, consequently, secure wearable device for measuring sport and health data.

The secure element of this joint device encrypts all data directly on the device itself – something no other fitness tracker available on the market can do. This is the first time that high-security technology which was formerly the reserve of the business and government sector has been made available on fitness devices.

“That the exploitation of individual data elements harbours enormous potential is indisputable. For individual consumers, it is essential in this respect that this data is really secure and, most importantly, data ownership rests with the user, not with unknown third parties. Only explicit data security sensitises consumers to the further processing of their data. Consideration is frequently only given to functional scope when developing new devices for the IOT, with inadequate attention being paid to security and encryption aspects in most cases”, explains Robausch.



Further information is available at www.qnective.com or www.vorn.swiss

About Qnective:

Qnective AG is a leading provider of highly developed communication solutions and services with comprehensive know-how regarding wireless technologies, networks, infrastructure and high-security encryption mechanisms. The company was founded in 2007 and provides authorities, large enterprises and organisations involved in public security with a secure mobile communication infrastructure. Qtalk Secure, Qtalk Defense, the advanced communication platform developed in Switzerland, encrypts telephony, messaging and both data and document exchange through a maximum level of security. Qnective Homeland Security designs, develops, implements and administers maritime and terrestrial communication and surveillance networks all over the world.

About VORN

VORN heralds the era of digital enlightenment, with progressive athletes regaining ownership of their data. VORN stands for precise and secure acquisition of vital data using high technology from Switzerland. Under the slogan "Wearable Intelligence", this Swiss start-up wants to revolutionise the fitness tracker market. What is unique is the medical precision with which data is acquired, collected and stored and the maximum level of security provided against accessing from outside through cryptic encoding, ensuring that data is owned exclusively by the user.

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