We open Doors to Smart Homes - Oberon receives two awards at SwissInnovation Challenge

Oberon receives innovation and internationalization awards for enabling manufacturers to add smart home support to their door locks, thermostats and blinds.

ZURICH, SWITZERLAND, December 1, 2016 /EINPresswire.com/ -- Oberon enables device manufacturers to add smart home support to their door locks, thermostats and window blinds, while

Dr. Pfister with Swiss Finance Minister Ueli Maurer

maintaining the highest level of security standards. At an event of the Swiss chamber of commerce of Basel Land, "Tag der Wirtschaft", Oberon was named a winner of the SwissInnovation Challenge in the presence of Swiss Finance Minister Ueli Maurer. Moreover, Oberon also won the special award for internationalization. In 2016, the SwissInnovation Challenge has been held for the second time by the University of Applied Sciences and Arts Northwestern Switzerland (FHNW).

In home automation, a high degree of security is essential. While advanced security standards are widely available for the Internet, this is not yet the case for home devices. Oberon has recognized this fact and has implemented the highly secure cryptographic algorithms that Apple mandates for smart home devices. Thanks to novel optimizations, run time and memory consumption was minimized, so that the Oberon software can even run on low-cost microcontrollers, as they are used in home devices. For example, the implementation easily fits on the Bluetooth chips of Nordic Semiconductor, where opening a secure connection takes less than the tenth of a second.

"Cryptography is a challenging topic, and we want to support device manufacturers as well as possible to make their devices 'smart' in a secure way", Dr. Cuno Pfister, the managing director of Oberon, explains at the award ceremony.

Oberon microsystems is a spin-off of the Swiss Federal Institute of Technology in Zürich (ETH). It is known as an Internet of Things pioneer. Since 2014 it has focused on the secure networking of home devices and sensors. With OberonHAP, Oberon has developed the fastest and smallest implementation of Apple's HomeKit security protocol for the smart home.

http://www.oberon.ch/news/20161124.html

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