Media information

Innovative solution for cyber security in machine and plant engineering 4.0 Awarded as lighthouse project

Stuttgart, 04.12.2019. Blackmail, espionage, sabotage - companies are worried about hacker attacks. With the software update and monitoring system from asvin, IT security gaps can be closed reliably and without great effort. The Stuttgart-based start-up has now received an award from a jury of experts as part of the "100 Places for Industry 4.0 in Baden-Württemberg" competition.

Cybersecurity is a key factor for the success of Industrie 4.0. This applies not only to highly automotiveized large companies, but also to SMEs. SMEs in particular, which are digitally upgrading by modernizing older equipment, it is essential that they keep IT security in mind during these so-called IIoT retrofits. After all, a machine that is subsequently digitized is connected to Internet technologies such as the cloud. Without a careful security architecture, there is a risk that the networked machine, and thus the entire production, will be attacked from the outside or inside.

The Stuttgart-based start-up asvin has developed a solution that is as simple as it is revolutionary to close security gaps in IoT devices. asvin is used for new products and also as part of retrofitting networks in mechanical and plant engineering. Here, asvin secures sensors and systems via updates and patches. At the same time, it ensures that attempts at manipulation by hackers can be quickly detected and averted. The asvin Chain-of-Trust creates the basis of trust for software supply chains: from the certification of the software to the update of a plant and the operation of the software on the machine. Modern decentralized technologies such as distributed ledger and machine learning are used for this purpose.

Jury of experts awards prizes for outstanding ideas
As part of the competition "100 Places for Industry 4.0", the Alliance Industry 4.0 of the state of Baden-Württemberg awarded asvin together with 14 other companies. The award was given for asvin's efforts to increase cybersecurity in the context of retrofitting networks. In doing so, the expert jury evaluated the market relevance and degree of innovation of the submitted applications. "We are delighted that our mission of a secure industrial Internet of Things has been recognized with this award," explains asvin CEO Mirko Ross.

The award goes to asvin, a solution that ensures cybersecurity during the commissioning of retrofitting networks and monitors and documents cybersecurity over the lifecycle of the system. Using digital certificates in a distributed ledger and ongoing monitoring, machine and system builders can reduce liability risks from hacker attacks. The cost of providing updates and monitoring by asvin can be reliably calculated in advance.

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About asvin GmbH

Founded in September 2018, the Stuttgart-based start-up asvin develops a secure open-source update solution for all applications related to the Internet of Things. The application enables to close security gaps in IoT and IIoT and thus to manage business processes without risk. Currently the

systems are currently in the pilot phase. Further information: www.asvin.io

Mirko Ross is an iX author and founder and CEO of the start-up asvin. He is committed to security in the IoT as a member of the expert group for security in the Internet of Things of the European Network and Information Security Agency ENISA. He is also a member of the Internet Of Things Council, a global

IoT think tank, and is scientifically involved with security in the Internet of Things in the EU research project IoTCrawler.

The Industry 4.0 Alliance and the "100 Places for Industry 4.0 in Baden-Württemberg" competition

The Industry 4.0 Alliance is a network initiated and funded by the Baden-Württemberg Ministry of Economic Affairs, whose coordinating office is located at VDMA Baden-Württemberg. Its primary goal is to bring digitization to the breadth of small and medium-sized industrial enterprises and to establish Baden-Württemberg as a leading global region for Industry 4.0 technologies.

leading region for Industry 4.0 technologies. The ongoing "100 Places for Industry 4.0" competition has so far honored 153 companies, institutes and other organizations, with an additional 15 applicants receiving awards in the 10th round in December 2019.

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Presentation of the award to asvin CEO Mirko Ross by State Secretary Katrin Schütz

The management team of asvin GmbH (from left to right):
Mirko Ross (CEO), Sven Rahlfs (COO), Rohit Bohara (CTO)

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