

Integrated security concept for intelligent production in INDUSTRIE 4.0

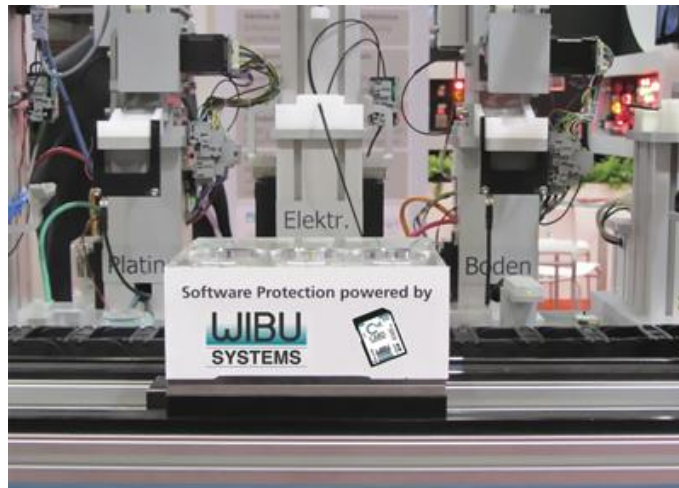
**Co-operation kickoff for DFKI and Wibu-Systems**

Karlsruhe, Germany – With a mission to develop an integrated security concept for the protection requirements of industrial enterprises, the German companies “German Research Center for Artificial Intelligence (DFKI)” and WIBU-SYSTEMS AG have launched an intensive co-operation strategy. Together they are researching suitable protection mechanisms against a number of different threats, and developing adequate defense solutions to be implemented in a system prototype for the production line of the SmartFactory<sup>KL</sup> of DFKI. Industrial companies will then be facilitated in the adoption of intelligent production technologies, fully embracing the “INDUSTRIE 4.0” era in a secure way.

Both research partners bring their own competences to the table. Wibu-Systems is responsible for the adaptation and extension of the protection technology CodeMeter, so that RFID tags can be used as a protection hardware alternative to CmDongles, and the authorization and right allocation can be executed via software. DFKI will develop an integrated security concept and setup the production line for the testing and evaluation of the security technologies. The protection concept will be flexible, retrofitted in existing production systems and it will repress potential manipulation attacks, unauthorized activations, know-how thefts and illegal imports of new software.

Prof. Dr. Wolfgang Wahlster, CEO DFKI, emphasizes the importance of the topic: "With INDUSTRIE 4.0, the Internet of Things finds its way into the factories. In order to use the advantages of cyber-physical production systems unaffected by external threats, *Security by Design* should play a central role already during the planning phase. This is the only way that would exclude sabotage and industrial espionage."

Oliver Winzenried, CEO and founder of Wibu-Systems, declares: „INDUSTRIE 4.0 only works with integrated and sustainable security concepts. From my point of view, the issue about security in modern production is currently to be faced at a level of increasing manufacturers’ awareness. In particular, the rising pattern of single machines being networked becomes a target for perpetrators; they exploit system weaknesses to intrude and interfere with production processes, thus causing immense damage or misusing crucial know-how. The co-operation with DFKI and the test with SmartFactory<sup>KL</sup> offers an opportunity for success to practical solutions.”



Pic.: CodeMeter technology as a practicable system prototype on the production line of SmartFactory<sup>KL</sup>

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WIBU-SYSTEMS AG (WIBU®), founded in 1989 by Oliver Winzenried and Marcellus Buchheit, is an innovative security technology leader in the global market of secure software licensing. The broad range of Wibu-Systems solutions is unique and offers digital asset, intellectual property and integrity protection to application fields ranging from computers to mobile, from embedded automation to cloud computing, from SaaS to virtualized models.

Media graphic resources available at: <http://www.wibu.com/photo-gallery.html>

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The German Research Center for Artificial Intelligence, with sites in Kaiserslautern, Saarbrücken, Bremen (with an associated branch in Osnabrück) and a project office in Berlin, is the leading German research institute in the field of innovative software technology. In the international scientific community, DFKI ranks among the most recognized "Centers of Excellence" and currently is the biggest research center worldwide in the area of Artificial Intelligence and its application in terms of number of employees and the volume of external funds. The financial budget in 2012 was 36 million Euro. DFKI projects cover the whole spectrum from application-oriented basic research to market- and client-oriented design of product functions. Currently more than 400 employees from 60 countries are conducting research focusing on Knowledge Management, Cyber-Physical Systems, Robotics Innovation Center, Innovative Retail Laboratory, Institute for Information Systems, Embedded Intelligence, Agents and Simulated Reality, Augmented Vision, Language Technology, Intelligent User interfaces, Innovative Factory Systems. Impact: more than 60 professorships of former DFKI employees, and 60 spin-off companies with approximately 1,700 highly qualified jobs.

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