Innovative Security Solutions through AI: Successful Completion of SKINET Project

Research consortium led by the b-plus Group presents pioneering results in IT security

**Deggendorf, 2024/03/21 – On Tuesday, the consortium of the SKINET research project presented its research results and progress in the field of IT security for automotive and Industry 4.0 applications. The consortium coordinator, b-plus, invited all project partners to the final presentation at the main headquarter of the technology company in Deggendorf.**

IT networks are omnipresent today. Given their increasing complexity and central role, it is crucial that they are effectively managed and protected. The core objective of SKINET is to create a framework using artificial intelligence that enables the early detection and mitigation of issues in IT networks. As consortium leader, b-plus has led a team of experts over the past three and a half years to tackle this challenge. Project partners including the University of Augsburg, AVL Software and Functions GmbH, Carl Zeiss AG, TG alpha GmbH, Technische Hochschule Deggendorf, Technische Universität München, and b-plus technologies GmbH have developed AI methods for a distributed system for the detection and treatment of security-critical incidents.

"We are pleased to present our research results today. With SKINET, we are taking an important step towards secure IT networks of the future," said Stefan Seidl, Research Engineer at b-plus. "With our results, IT security systems can be developed to dynamically detect novel threats using AI," Seidl explained.

Ms. Eickhoff, representative of the project sponsor VDI/VDE, is also satisfied with the results: "The consortium worked very well together. Even if there were changes to the original plan in the course of the project, good results were achieved that can be built on."

The system architecture of SKINET is highly versatile and flexible, suitable for both vehicle and industrial networks. Of particular interest is the use of anomaly detection components, which enable reliable detection of deviations from the network's normal behaviour.

For more information about SKINET and other research projects by b-plus visit
[b-plus.com/en/research/applied-research](https://www.b-plus.com/en/research/applied-research?mtm_campaign=2400&mtm_medium=PM&mtm_content=SKINET)

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ABOUT THE B-PLUS GROUP

The b-plus Group is an internationally networked development partner advancing technologies in autonomous driving, driver assistance systems, and the automation of mobile machines. The company offers a wide range of development tools, automotive software, and mobile automation solutions. With over 25 years of industry experience, b-plus provides comprehensive support to its customers from problem identification to the implementation of specific developments and beyond.

Teams in Deggendorf, Regensburg, Lindau (Lake Constance), and Cham (Upper Palatinate) develop robust hardware and software components for testing, validation, and securing automated systems, as well as customized integrated systems. As a member of various committees, the corporate group actively contributes to trend-setting technologies.

ABOUT SKINET

The SKINET project, with a research duration from October 2020 to March 2024, was funded by the Federal Ministry of Education and Research (BMBF) with a volume of 4.22 million euros, covering 65% of the costs. It impressively demonstrates the strengths of collaboration between industry and research institutions.

The project develops a distributed system for the detection and treatment of security-critical incidents using artificial intelligence methods. Distributed, local AI-based sensors apply detection functions in the car or in an industrial production facility, while an AI-based background system analyses the collected data. This allows for the detection of attacks, prediction of malfunctions, and initiation of global responses such as network configurations.

The solutions developed in the project explicitly consider legal requirements such as product liability and data protection law, and are of significant relevance to the technology location of Germany, as they can decisively improve the security level for the important areas of automotive and Industry 4.0.