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Securing the Internet of Things: RIoT Secure launch Innovative Approach to IoT Device Security

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Stockholm, Sweden, May 16, 2023 (GLOBE NEWSWIRE) -- The rapid expansion of the Internet of Things (IoT) has dramatically changed our lives by connecting devices and providing greater convenience and efficiency. However, with this increased connectivity comes an increased risk of cyberattacks that have the potential to impact the lives of millions of people. Security is a major concern within IoT, and one of the reasons for this is the lack of emphasis on low-level programming languages, such as C and Assembler, in university curricula.

Amidst these challenges, RIoT Secure, a leading provider of IoT security solutions, has emerged with its ground-breaking approach to addressing the security concerns associated with IoT devices. RIoT Secure has developed a comprehensive lifecycle management platform that allows developers to focus on their IoT applications, regardless of their chosen runtime environment or programming language. By utilizing a dedicated microcontroller for communication and security, RIoT Secure's platform provides a hardware sandbox that effectively isolates the application-centric microcontroller from external threats.

The advantages of RIoT Secure's approach are numerous. By using a dedicated microcontroller for security, developers can concentrate on their applications without the need to worry about implementing complex security features that could potentially impact the operation and functionality of the IoT device. This flexibility allows developers to leverage their preferred programming languages and runtime environments, empowering them to create IoT applications with ease.

RIoT Secure's platform ensures the highest level of protection for IoT devices by handling security independently. By providing all aspects of communication and security, RIoT Secure enables developers to focus on their core competencies while guaranteeing robust protection against external threats. This comprehensive approach not only streamlines the development process but also significantly enhances the security posture of IoT devices, safeguarding them from potential vulnerabilities and attacks.

One of the key features of RIoT Secure's platform is the hardware sandbox. By isolating the application microcontroller from all types of potential threats, such as malware or unauthorized access, the hardware sandbox ensures the integrity of IoT devices. This level of isolation and protection helps prevent unauthorized code execution and preserves the confidentiality, integrity, and availability of critical data transmitted and stored by IoT devices.

Moreover, RIoT Secure's lifecycle management platform contributes to the overall security landscape by offering a reliable and scalable solution for the growing IoT ecosystem. With the ever-increasing number of interconnected devices, there is a pressing need for robust security infrastructure. RIoT Secure's platform fills this gap by providing a dedicated microcontroller-based security solution that can seamlessly integrate into existing IoT architectures.

While universities have traditionally focused on teaching higher-level programming languages, such as Java, JavaScript, and Python, the importance of low-level programming languages cannot be overlooked. Universities must recognize the critical role of low-level languages like C and Assembler in cybersecurity. By incorporating these languages into their curriculum, educational institutions can bridge the security knowledge gap and equip graduates with the necessary skills to build secure IoT systems.

In the face of these educational challenges, RIoT Secure's lifecycle management platform serves as an innovative solution that helps developers navigate the complexities of IoT security. By providing a comprehensive security infrastructure, RIoT Secure empowers developers to build secure IoT devices and applications, irrespective of their chosen programming languages or runtime environments.

As the Internet of Things continues to expand, it is imperative that we prioritize secure programming practices and equip developers with the knowledge and tools necessary to mitigate potential risks. By re-evaluating university curricula and emphasizing the importance of low-level programming languages, we can ensure that the next generation of developers is well-prepared to address the intricate security challenges posed by the ever-growing IoT landscape. In the meantime, RIoT Secure's lifecycle management platform stands as a testament to the possibilities of innovative security solutions in enabling the secure and efficient operation of IoT devices in our interconnected world.

<https://www.morningstar.com/news/globe-newswire/8840577/securing-the-internet-of-things-riot-secure-launch-innovative-approach-to-iot-device-security>