Setting A New Security Benchmark: Kudelski IoT's Semiconductor Alliances Redefine IoT Provisioning

Premier integration with Microchip, and collaborative partnerships with ST Microelectronics, Infineon, and Silicon Labs radically simplify a critical IoT security requirement.

CHESEAUX-SUR-LAUSANNE, Switzerland, and PHOENIX, AZ, USA – 9 April 2024 – Kudelski IoT, a leader in digital security and IoT solutions and a division of the Kudelski Group (SIX: KUD.S), today announced that its keySTREAM IoT security product now enables the provisioning of chips from four of the world's top microcontroller and connectivity IC manufacturers, enabling device OEMs to automate and streamline the provisioning of IoT products at the factory or in the field. This simplifies inventory management and onboarding to cloud computing services via a large variety of different chips including secure elements, MCUs and Bluetooth® and Wi-Fi® solutions. This fulfills an important requirement by both standards organizations and regulators by ensuring each device has its own unique identity.

The keySTREAM provisioning service gives OEMs freedom of choice among leading chipsets while providing a unified provisioning platform to simplify key and certificate management across multiple brands. The service works according to two different models. The premier integration model is a deep collaboration between Kudelski IoT and semiconductor manufacturers that embeds the infrastructure for keySTREAM provisioning and lifecycle management within the chipset itself, bundling product and service into a single offering. The Microchip ECC608 TrustMANAGER is Kudelski's first premier integration, and includes a self-service root certificate authority and in-field provisioning service powered by keySTREAM as an integrated part of the Microchip product, reducing integration effort and complexity while speeding time to market for OEM customers.

Kudelski IoT's collaborative partnerships with STMicroelectronics, Infineon, and Silicon Laboratories offer keySTREAM in-field provisioning as an optional service to OEMs. Kudelski IoT libraries are integrated with semiconductor partner tools to enable device manufacturers to personalize their products in the factory or in the field.

 Both models enable OEMs to have full control over provisioning, storing, and managing credentials like PKI keys and certificates in their devices, creating the unique, secure identities that form the foundation for numerous security lifecycle management functions like secure boot, secure FOTA, data encryption and authentication and secure feature enablement.

The automated keySTREAM process eliminates the need for the complex and error-prone management of pre-provisioned inventory supplied by a chip manufacturer or third-party IC provisioning services. It also helps OEMs comply with the emerging security regulations and

standards in the Smart Home, Consumer Electronics, Automotive, Industrial Automation and Control, Healthcare, Medical Devices, Aerospace, Defense, and other industries served by semiconductor manufacturers. Regulatory and standards requirements are increasingly demanding the types of security features enabled by keySTREAM.

The Kudelski Group has three decades of experience in device credential provisioning and has worked with dozens of chipset manufacturers and thousands of chipset models. Kudelski IoT is recognized worldwide as a source of security certificates, including as a provider of Matter Device Attestation Certificates (DACs) recognized by the Connectivity Standards Alliance.

Hardy Schmidbauer, Senior Vice President at Kudelski IoT, said, "For many IoT device manufacturers, security provisioning is today a laborious manual process that is prone to error, seriously compromising the security of individual devices, or even of a manufacturer's whole chain of security. By partnering with top IC manufacturers, Kudelski IoT is making provisioning a simpler, more automated, and secure process than ever before. And innovative partners like Microchip are making it even more attractive to OEMs by offering the provisioning service as a core part of their offering; a model which we anticipate others will adopt in the future."

Kudelski IoT is exhibiting its secure provisioning solutions with the Microchip TrustMANAGER platform at its booth 5-176 at the Embedded World trade show (Nuremberg, Germany, 9-11 April 2024).

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About Kudelski IoT

Kudelski IoT is the Internet of Things division of Kudelski Group and provides end-to-end IoT solutions, IoT product design, and full-lifecycle services to IoT device manufacturers, ecosystem creators, and end-user companies. These solutions and services leverage the group's 30+ years of innovation in digital business model creation; hardware, software and ecosystem design and testing; state-of-the-art security lifecycle management technologies and services and managed operation of complex systems. For more information about Kudelski IoT, please visit www.kudelski-iot.com.

About Kudelski Group

The Kudelski Group (SIX: KUD.S) is a world leader in digital business enablement technologies that encompass digital content security, public access, cybersecurity, and IoT.

NAGRA provides end-to-end convergent media solutions to the digital entertainment industry including services and applications requiring access control and rights management to secure the revenue in digital television, internet, mobile and interactive applications.

SKIDATA is the world market leader in public access and visitor management with over 10,000 installations in over 100 countries, providing fast and safe access for people and vehicles.

Kudelski Security is an innovative, independent provider of tailored cybersecurity solutions to help enterprises and public sector institutions assess risks and vulnerabilities and protect their data and systems.

Kudelski IoT provides end-to-end solutions, IoT product design, and full-lifecycle services to IoT device manufacturers, ecosystem creators and end-user companies.

The Kudelski Group is headquartered in Cheseaux-sur-Lausanne, Switzerland and Phoenix (AZ), USA with offices in 32 countries around the world. For more information, please visit www.nagra.com.

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