

Security Evaluation of the Protectoria Secure Mobile Platform

Protectoria is a Norwegian security company with the mission to deliver strong and compliant authentication and transaction verification for Payment Service Providers (PSPs). Protectoria has developed the Protectoria Secure Mobile Platform (PSMP) that shall allow PSPs to provide security enhanced payment apps on a single smartphone without any other pre-requisites than an Internet connection.

SRC as an independent consultancy company was asked to carry out a third party verification of the PSMP solution. The security evaluation was based on the requirements stated in the ECB Assessment guide and the EBA Guidelines for the Security of Internet Payments. It was investigated to what extent the design of the PSMP solution is able to meet requirements related to component authentication and strong user authentication, message integrity, cryptographic operations and confidentiality of sensitive data where applicable. In a first step, the design of the PSMP solution has been evaluated on a conceptual level.

SRC states that *“the evaluation result of the PSMP solution is compliant with the EBA requirements which are relevant for the PSMP solution and that all applicable criteria for strong customer authentication have been met. One specific finding was that the dynamic code blocks and the code obfuscation mechanism provide a reasonable amount of complexity to the system, which makes it extremely hard to analyse the code, even if the smartphone device is infected with malware. Since the code blocks are dynamically loaded, the time span for code modifications is very small. The assumptions on the implementation of the PSMP solution have to be upheld during the implementation to ensure the results of the evaluation are valid.”*

Therefore, in a second step Protectoria will undergo an in depth security testing of the implementation of the PSMP solution. The compliance of the PSMP solution in a concrete integration scenario shall be checked in a pilot implementation through a banking supervisory audit.

About SRC

SRC Security Research & Consulting GmbH is an independent consulting company which was founded by the four German banking service providers in 2000. SRC provides information technology and information security services to the banking industry, financial institutions and insurance companies, the retail sector, public sector and manufacturers. SRC has many years of experience in the design, development, implementation and evaluation of secure information systems, particularly in the field of secure payment systems.

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About Protectoria AS

Protectoria is an innovative Norwegian company that has patent pending mobile security technologies meeting the actual security requirements and compliance rules mostly defined by the EU. These new rules and directives are required for future-proof ecommerce, international money transfer and for the protection of critical infrastructures. The relevant directives related to enhanced information security are in the areas Payments (PSD2), Network and Information Security (NIS) and Confidentiality (ePrivacy directive), which defines the target market segments for the Protectoria innovations.

For further information, please contact: info@protectoria.com