

2 INTRODUCTION

Cognosec has conducted a security audit of the Enigma technology and the Cloak wallet application, as defined in "Scope". The results of the assessment are covered in this document. Actual security testing started on the 18th of December 2017 and was concluded on the 12th of January 2018. The objective of the assessment was to pinpoint security weaknesses and vulnerabilities, and to propose recommendations for their remediation.

Issues were discovered using targeted manual security testing procedures that were backed up with tools that allow automation of certain tasks. The identified issues were evaluated and prioritised according to their relative risk and measures for their remediation were proposed. The proposed countermeasures to reduce risk for identified security issues are presented in this security assessment report.

2.1 Background

Cloak went open source end of December 2017. In addition, the introduction of an improved version of the Enigma technology is planned that aims to provide an additional layer of anonymity. As a consequence, Cloak decided to conduct an external security audit in order to obtain assurance that the application is mature from an application security perspective.

2.2 About Cognosec GmbH

Cognosec GmbH is headquartered in Vienna, Austria and is a member of the Cognosec AB (Publ) group of companies. Cognosec GmbH offers services in information security, governance, enterprise risk management, compliance, and assurance to clients. Our solutions are based on domain knowledge in finance, telecommunications, online gaming and e-commerce industries in Europe, Africa, the United States and the Middle East. Cognosec adds value through the deployment of professional and management consultancy services that fit the corporate risk appetite and budget of its clients.

2.3 Objective

The aim of the assessment is to provide an independent and reliable opinion on the security of the Cloak application and specifically on the Enigma technology. The assessment shall identify weaknesses and vulnerabilities and quantify their severity so they can be managed and addressed and therefore help:

- Preventing from malfunction and/or financial loss through fraud or unreliable infrastructure;
- Providing due diligence to regulators, customers and shareholders and
- Protecting the brand against reputation loss.

2.4 Scope

A security audit test was performed utilising the white-box test which included:

- Source Code Review
- Enigma Process Analysis

Following a risk-based approach, the audit focused mainly on the following components of the Cloak application:

- Cloak Wallet
- Enigma

Example Of A Security Audit Report

John R. Vacca



Example Of A Security Audit Report:

Information Security and Auditing in the Digital Age Amjad Umar, 2003-12 This book provides a recent and relevant coverage based on a systematic approach Especially suitable for practitioners and managers the book has also been classroom tested in IS IT courses on security It presents a systematic approach to build total systems solutions that combine policies procedures risk analysis threat assessment through attack trees honeypots audits and commercially available security packages to secure the modern IT assets applications databases hosts middleware services and platforms as well as the paths the wireless plus wired network to these assets After covering the security management and technology principles the book shows how these principles can be used to protect the digital enterprise assets The emphasis is on modern issues such as e commerce e business and mobile application security wireless security that includes security of Wi Fi LANs cellular networks satellites wireless home networks wireless middleware and mobile application servers semantic Web security with a discussion of XML security Web Services security SAML Security Assertion Markup Language and NET security integration of control and audit concepts in establishing a secure environment Numerous real life examples and a single case study that is developed throughout the book highlight a case oriented approach Complete instructor materials PowerPoint slides course outline project assignments to support an academic or industrial course are provided Additional details can be found at the author website www.amjadumar.com

Audit and evaluation of computer security Anthony J. Barbera, Frank Heinrich, Gerald D. Cole, Jason Gait, 1977 *Audit and evaluation of computer security* Zella G. Ruthberg, Robert G. McKenzie, 1977

Information Security Management Handbook, Volume 3 Harold F. Tipton, Micki Krause, 2006-01-13 Since 1993 the Information Security Management Handbook has served not only as an everyday reference for information security practitioners but also as an important document for conducting the intense review necessary to prepare for the Certified Information System Security Professional CISSP examination Now completely revised and updated and i CIW Security Professional Study Guide James Stanger, Patrick T. Lane, Tim Crothers, 2006-02-20 Here s the book you need to prepare for Exam 1D0 470 CIW Security Professional This Study Guide provides In depth coverage of official exam objectives Practical information on security concepts and practices Hundreds of challenging review questions in the book and on the CD Leading edge exam preparation software including a testing engine and electronic flashcards Authoritative coverage of all exam topics including Implementing internetworking encryption and encryption methods Analyzing firewall types and firewall terminology Planning security systems and incorporating multiple levels of protection Securing mechanisms and parameters for Windows and UNIX Analyzing router security threat containment and intrusion detection Implementing intrusion detection systems in an enterprise environment Installing operating system add ons for personal firewalls and native auditing SSH Note CD ROM DVD and other supplementary materials are not included as part of eBook file

Network Security Auditing Chris Jackson, 2010-06-02 This complete new guide to auditing network security is an

indispensable resource for security network and IT professionals and for the consultants and technology partners who serve them Cisco network security expert Chris Jackson begins with a thorough overview of the auditing process including coverage of the latest regulations compliance issues and industry best practices The author then demonstrates how to segment security architectures into domains and measure security effectiveness through a comprehensive systems approach Network Security Auditing thoroughly covers the use of both commercial and open source tools to assist in auditing and validating security policy assumptions The book also introduces leading IT governance frameworks such as COBIT ITIL and ISO 17799 27001 explaining their values usages and effective integrations with Cisco security products *Information Security Management Handbook* Harold F. Tipton, Micki Krause, 2007-05-14 Considered the gold standard reference on information security the Information Security Management Handbook provides an authoritative compilation of the fundamental knowledge skills techniques and tools required of today's IT security professional Now in its sixth edition this 3200 page 4 volume stand alone reference is organized under the C Information Security Planning Susan Lincke, 2024-01-16 This book demonstrates how information security requires a deep understanding of an organization's assets threats and processes combined with the technology that can best protect organizational security It provides step by step guidance on how to analyze business processes from a security perspective while also introducing security concepts and techniques to develop the requirements and design for security technologies This interdisciplinary book is intended for business and technology audiences at student or experienced levels Organizations must first understand the particular threats that an organization may be prone to including different types of security attacks social engineering and fraud incidents as well as addressing applicable regulation and security standards This international edition covers Payment Card Industry Data Security Standard PCI DSS American security regulation and European GDPR Developing a risk profile helps to estimate the potential costs that an organization may be prone to including how much should be spent on security controls Security planning then includes designing information security as well as network and physical security incident response and metrics Business continuity considers how a business may respond to the loss of IT service Optional areas that may be applicable include data privacy cloud security zero trust secure software requirements and lifecycle governance introductory forensics and ethics This book targets professionals in business IT security software development or risk This text enables computer science information technology or business students to implement a case study for an industry of their choosing

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Computer and Information Security Handbook (2-Volume Set) John R. Vacca, 2024-08-28 Computer and Information Security Handbook Fourth Edition offers deep coverage of an extremely wide range of issues in computer and cybersecurity theory along with applications and best practices offering the latest insights into established and emerging technologies and advancements With new parts devoted to such current topics as Cyber Security for the Smart City and Smart Homes Cyber Security of Connected and Automated Vehicles and Future Cyber Security Trends and Directions the book now has 104 chapters in 2 Volumes written by leading experts in their fields as well as 8 updated appendices and an expanded glossary Chapters new to this edition include such timely topics as Threat Landscape and Good Practices for Internet Infrastructure Cyber Attacks Against the Grid Infrastructure Threat Landscape and Good Practices for the Smart Grid Infrastructure Energy Infrastructure Cyber Security Smart Cities Cyber Security Concerns Community Preparedness Action Groups for Smart City Cyber Security Smart City Disaster Preparedness and Resilience Cyber Security in Smart Homes Threat Landscape and Good Practices for Smart Homes and Converged Media Future Trends for Cyber Security for Smart Cities and Smart Homes Cyber Attacks and Defenses on Intelligent Connected Vehicles Cyber Security Issues in VANETs Use of AI in Cyber Security New Cyber Security Vulnerabilities and Trends Facing Aerospace and Defense Systems and much more Written by leaders in the field Comprehensive and up to date coverage of the latest security technologies issues and best practices Presents methods for analysis along with problem solving techniques for implementing practical solutions

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