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Steganalysis of OpenPuff through atomic concatenation of MP4 flags

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entrada libre hasta completar el aforo

resumen:

OpenPuff is recognised as one of the leading tools in video steganography for its capability to securely hide information. This is in contrast to a number of video steganography tools that apply outdated and highly insecure techniques such as EOF data injection. However, even OpenPuff has subtle vulnerabilities that can be easily exploited. In this talk we propose a method to detect the presence of OpenPuff video steganography across MP4 files. By exploiting modifications to a files' metadata, we successfully identify the existence of hidden content.

sobre Julio C. Hernández:

Julio C. Hernandez-Castro received the B.Sc. degree in mathematics from the Universidad Complutense de Madrid, Madrid, Spain, in 1995, the M.Sc. degree in coding theory and network security from the Universidad de Valladolid in 1999, and the Ph.D. degree in computer science from Carlos III University of Madrid in 2003. Currently, is a Lecturer in Computer Security at the School of Computing, University of Kent. His interests include Cryptology, Steganography & Steganalysis, Computer & Network Security, Computer Forensics, CAPTCHAs, RFID Security, and the application of Non-Standard techniques to Cryptology. He is also associated with Kent Cyber Security Center.