

# EXHIBIT 7

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Deep Malware Analysis

# JoeSandbox Filter

High Speed Benign File Filtering

[Overview](#)[Key Features](#)

## Innovative Heuristics

Rather than detecting the malicious behavior of software, **Joe Sandbox Filter** focuses on the identification of benign artifacts. To do so it uses innovative heuristics such as entry point analysis or packing detection to classify benign codes. **Joe Sandbox Filter** includes over 30 signatures to detect benign characteristics.



## Advanced PE Header Analysis

**Joe Sandbox Filter** consists of an extensive PE file parser which extracts fields and flags from PE file structures. It executes many additional forensic analyses such as entry point disassembly, XOR and x86 function searches on several file parts.



## High Performance and Precision

**Joe Sandbox Filter** is optimized for large-scale analysis with an average processing time of 30 seconds per sample. The filter is very precise. False negative and positive rates have been optimized to be less than 1%. In several tests **Joe Sandbox Filter** has selected over 50% of all benign samples successfully.



## Designed for Large Scale Analysis