



Single Product Test October 2018



SecureAPlus APEX DeepLearning Engine Offline File Detection Test for VT integration

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Test commissioned by SecureAge

Tested product

APEX is an anti-malware scanning engine powered by artificial intelligence and deep learning. The engine will be integrated into upcoming SecureAPlus products as an additional engine.

SecureAge is having the test performed in order to get its APEX engine integrated into the VirusTotal (VT) service. According to a VirusTotal policy, any new engine to be integrated into VirusTotal requires an independent test, including an explicit check that the new solution/engine adds value to the ecosystem and does not rely on VT results (directly or indirectly). The test has to be done with the same candidate (same solution/engine) to join VirusTotal.

“SecureAPlus Application Whitelisting and APEX Engine powered by AI & Deep Learning” has been submitted for this test by SecureAge. The APEX engine (Model Version 4.1) was tested regarding its on-demand file detection capabilities the same way as it will be submitted to VirusTotal, i.e. as command-line scanner with “high” sensitivity (Sensitivity: 2) and offline, without using any other engine or cloud services (third-party engines were disabled).

Offline File Detection Test

An offline file detection test using 1,000 malware samples and 1,000 clean samples has been conducted. This test evaluates how effective and accurate APEX reports malicious and clean files.

Test Results

APEX' malware detection rate	86.8%
False Alarm rate	7 (0.7%)

As the test results confirm - despite being offline and relying only on the ML engine - APEX detects the majority of the malicious samples used in this test, showing that it adds value to the ecosystem. In case of clean files, APEX wrongly alerted on 0.7% of the 1000 tested innocent files.

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