

# Test Report of TotalAV for Android

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A test commissioned by Protected.net and performed by AV-TEST GmbH  
Date of the report: October 30<sup>th</sup>, 2020, last update: November 9<sup>th</sup>, 2020

## 1. Executive Summary

Protected.net commissioned AV-TEST to perform a review of their Android Security product TotalAV against the test categories PROTECTION, PERFORMANCE and USABILITY which are part of the AV-TEST Android certification tests.

We used the Protected.net TotalAV for Android product with the version number 2.0.6. The test was carried out on Motorola Moto G6 Play devices running Android 8.0.0 in September and October 2020.

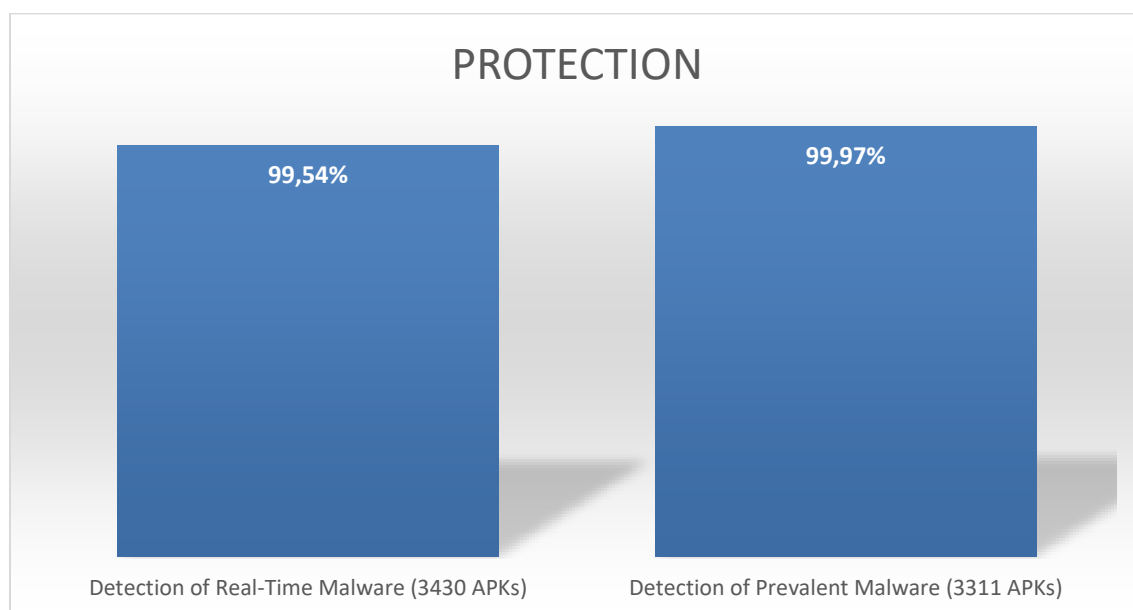
TotalAV for Android showed no impact on the system in the PERFORMANCE test and had no false positives in the USABILITY test. During PROTECTION testing using prevalent malware and the more "critical" real-time malware, the detection rate is above the industry average.

**In summary, the criteria of the standard AV-TEST Android certification was met.**

## 2. TEST RESULTS

### 2.1 PROTECTION

This category tests whether the product is able to defend a system against current and widespread Android malware. The test is divided into the real-time protection test and the detection of prevalent malware. All tests are carried out with an active internet connection and up-to-date products.



### *Real-Time Malware Detection*

The purpose of the test is to show how well a security solution reacts on new threats. A new threat in this case is defined as a new malware APK which was first seen by AV-TEST within 24 hours prior to the test time. In total 3,446 malicious APKs have been used in this assessment.

During the test, the APK files are installed one by one on the system to test the on-access detection. TotalAV for Android detected 3,430 APK files resulting in a detection rate of 99.54%

### *Prevalent Malware Detection*

This test consists of malicious APK files that are not older than 4 weeks. Only files that have been reported as widespread and prevalent are included in this test. In total 3,312 malicious APK files have been used in this assessment. During the test, the files are scanned to determine the static detection rate. Afterwards we collect any remaining APK files that were not detected and install them one at a time to test for on-access detection.

TotalAV for Android detected 3,311 APK files resulting in a detection rate of 99.97%.

## 2.2 PERFORMANCE

In order to investigate the influence of security solutions on system speed, battery life and traffic usage, typical operations for a daily smartphone usage are performed, measured and analyzed.

The following criteria are evaluated by AV-TEST:

- Does the app reduce the battery life?
- Does the app slow down the device during normal usage?
- Does the app generate a lot of traffic?

TotalAV for Android meets all AV-TEST criteria with not slowing down the device, not generating too much traffic and not reducing battery life, thus achieving a very good result.

## 2.3 USABILITY

The Usability category tests whether the product causes disruption during daily usage by causing false detections and false alarms. The test is divided into two different tests with different sample sets: Known clean apps obtained from Google Play and clean apps from 3<sup>rd</sup> party app stores.

During the tests, the files are installed one by one on the system to evaluate whether the security product shows a reaction. In total, 2186 apps from Google Play and 939 apps from 3<sup>rd</sup> party stores have been used for these tests.

TotalAV for Android scored a perfect result by not showing any warnings for the tested apps from both Google Play and 3<sup>rd</sup> party app stores.

## 3. SUMMARY

The PERFORMANCE and the USABILITY tests both showed very good results. On the PROTECTION side TotalAV for Android achieved a near perfect result by only missing one sample in the prevalent malware detection test. The results for the real-time test are slightly lower than the prevalent malware test results but are also at a very high level too.

**In summary, the criteria of the standard AV-TEST Android certification were met.**