

NetQin Custom Test
Results Summary

NetQin Custom Test - Results Summary

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Comparative Product Testing – Test Overview

This document, taken as an abstract from the full product Test Report, contains a high-level overview of the outcomes from the recent mobile security comparative test. This report was designed to test, or otherwise confirm, the abilities of each included solution as detailed below:

- NetQin Mobile Security version 5.0.02.02
- Norton Mobile Security version 2.1.0.272
- BullGuard Mobile Security 10 version 10.0.21
- Kaspersky Mobile Security 9 version 9
- McAfee WaveSecure version 4.2.0.4
- McAfee Mobile Security version 1.0.0.31
- AVG Mobilation version 2.8.1
- F-Secure Mobile Security version 7.1.6762
- Lookout Mobile Security version 6.2

Full details of the tests, along with their respective methodologies, description of the test network, and conclusion can be found in the Test Report located at:

<http://www.westcoastlabs.com/techReports>

Included in the following pages are results for malware detection, remote wipe, GPS location, remote alarm, and device locking.

Each result table is preceded by a brief description for the respective test. An overall conclusion can be found at the end of this overview and encompasses all of these results.

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Comparative Product Testing – Test Results

Malware Scanning

The following is the result of scans conducted against a collection of 75 raw .apk files as used in the standard Checkmark Mobile Security Anti-Malware certification tests:

Product	Update Version	Percentage Detected
NQMS	02/08/11	100.00%
Product A	02/08/11	42.66%
Product B	02/08/11	28.00%
Product C	02/08/11	0.00%
Product D	02/08/11	4.00%
Product E	02/08/11	1.33%
Product F	N/A	0.00%
Product G	02/08/11	2.66%

The following is the result of scans conducted against an expanded test suite of 129 malicious, or potentially unwanted, apps taken from West Coast Labs' mobile malware collection, as well as samples provided from various industry resources. This collection also included a set of genuine files so as to determine if any solution was applying a blanket rule to all unknown .apk files.

Product	Updated Version	Percentage Detected
NQMS	04/08/11	96.12%
Product A	04/08/11	31.01%
Product B	04/08/11	12.40%
Product C	04/08/11	0.00%
Product D	04/08/11	41.08%
Product E	04/08/11	21.70%
Product F	N/A	0.00%
Product G	04/08/11	21.70%

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Comparative Product Testing – Test Results

Test Methodology - Anti-Loss

To test the anti-loss features of each solution, WCL removed the handset to a location at a minimum distance of 100 metres, and then activated a “locate” command. This was performed via SMS and via a website when available. The time taken, and accuracy of the location data returned to the handset was then recorded. This figure has some margin of error due to different factors such as network signal strength and connection speeds. The next portion of this test involved WCL sending an “alarm” command, and this was recorded for speed of activation as well as functionality. The final test for this section involved activating the “lock” command. This was tested for speed of activation, as well as security of the locking feature.

Test Methodology – Remote-Wipe

WCL tested this feature by building a collection of common files. These included MP3s, jpgs, xls, docs, and some zip files. WCL also sent SMS messages, and used the custom contact list created for the Account Backup testing, as well as Google Account log in details. A remote wipe command was then sent to each solution, and WCL tested for speed of time to wipe, as well as the thoroughness of the action. SMS, contacts, Google accounts, and the SD card were then all forensically inspected, and the results recorded.

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Comparative Product Testing – Test Results

Anti-Loss: GPS Location/Tracking

Product	Activate via Web	Activate via SMS	Time - Web	Time - SMS	Accuracy
NQMS	Yes	Yes	Around 2 minutes	Under 1 minute	Within 200 meters
Product A	Yes	No	Under 2 minutes	N/A	Within 200 meters
Product B	No	Yes	N/A	Over 6 minutes	Unable to locate
Product C	Yes	No	N/A	N/A	N/A
Product D	No	Yes	N/A	Under 1 minute	Within 200 meters
Product E	No	Yes	N/A	5 minutes	Within 30 meters
Product F	Yes	No	Around 3 minutes	N/A	Within 200 meters
Product G	Yes	Yes	Around 7 minutes	Around 4 minutes	Within 250 meters

Anti-Loss: Mobile Alarm

Product	Activate via Web	Activate via SMS	Time to Activate
NQMS	Yes	Yes	Under 1 minute
Product A	Yes	No	Under 1 minute
Product B	No	No	N/A
Product C	No	No	N/A
Product D	No	Yes	Under 1 minute
Product E	No	No	N/A
Product F	Yes	No	Under 30 seconds
Product G	Yes	Yes	Around 3 minutes

Anti-Loss: Device Lock

Product	Activate via Web	Activate via SMS	Time to Activate
NQMS	Yes	Yes	Under 1 minute
Product A	Yes	No	Under 1 minute
Product B	No	Yes	Under 1 minute
Product C	Yes	No	N/A
Product D	No	Yes	Under 1 minute
Product E	No	Yes	Under 20 seconds
Product F	Yes	No	Under 30 seconds
Product G	Yes	Yes	Around 2 minutes

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Comparative Product Testing – Test Results

Remote Wipe

Product	Activate via Web	Activate via SMS	Time to activate	Total Wipe
NQMS	Yes	Yes	Under 1 minute	Yes
Product A	Yes	No	Under 1 minute	No
Product B	No	Yes	Around 2 minutes	Yes
Product C	Yes	No	N/A	N/A
Product D	No	Yes	Under 1 minute	Yes
Product E	No	Yes	Around 3 minutes	No
Product F	Yes	No	Around 4 minutes	Yes
Product G	Yes	Yes	Around 2 minutes	No

Checkmark Product Testing and Certification

The Checkmark Certification System is recognised globally as probably the most comprehensive independent functionality and performance validation program of its kind.

NetQin are currently enrolled in this testing program and have attained the following certifications:

- Mobile Security Anti-Malware
- Mobile Security Loss Control

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West Coast Labs' Conclusion

In conclusion, the testing carried out by West Coast Labs has revealed a number of interesting results and has shown a variance in the ways that some vendors have chosen to deal with mobile security threats. To give just one example, Product F and Product C appear to focus on installed and installing files rather than the actual .apk installation packages. Other Mobile Security vendors take the wider approach that all files are potentially malicious to handsets.

One thing has become clear from the testing - that some mobile security products still have a way to go to achieve the effectiveness of more traditional desktop-type solutions. Mobile threats are becoming more commonplace as the market and technology expands, and it seems that taking an all-encompassing approach would be an advisable way for vendors in this market area to proceed.

We see from this testing that NetQin Mobile Security has taken the approach that all files are potentially malicious. Cloud scanning functionality, also a part of NetQin's offering, appears to be a must have feature in a time when mobile data storage and processing capacities are relatively restricted due to being on a low powered piece of hardware. When considering Cloud technologies, data bandwidth could become an issue but this is a resource that is expanding all the time, and so it is expected that this will become normal for products in a very short space of time.

WCL's comparative testing reveals that some major companies in the more traditional desktop and server-based Anti Malware space are missing features in their solutions or have decided to go down slightly different paths for their protection offerings, favouring one set of technologies over others.

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West Coast Labs' Conclusion

Considering the other technologies looked at here, theft is clearly a big risk to mobile users, and Anti-Loss and Remote-Wipe technologies are an effective way to counter this threat, if they are implemented properly. The testing shows that a combination of SMS Anti-Loss features and an ability to manage a handset through a website may well be the best approach to allow for full flexibility when a handset is discovered or reported as missing.

Finally, looking at the features and functionality examined herein, the results seem to show that NetQin Mobile Security is currently one of the more feature-packed offers in the mobile security arena, and is well placed to deal with the emergence of new threats in this constantly evolving arena.

This conclusion is taken from the full Test Report that can be viewed at <http://www.westcoastlabs.com/productTestReports/>.

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