



**Products Claims Testing
Claims Test ADPC0102
Extreme Protocol Solutions**

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Distribution: Confidential

DISCLAIMER

The Product Claims Test is presented as the outcome of a specific test ran in laboratory environment under controlled conditions. Use of this certified product for the purpose of sanitizing data from devices tested needs to be done so after a risk assessment process. ADISA reserves the right to review the validity of this award upon changes in threat landscape.

LIABILITY

ADISA accepts no liability for any claims resulting from the use of the product tested.

REVISION HISTORY

30.06.2021 Revision 1.0 issued to Roger Gagnon



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1.0 Executive Summary

This is a final report detailing the findings in relation to the execution of the ADISA Testing Methodology on Claims Test ADPC0102 submitted by Roger Gagnon of Extreme Protocol Solutions in May 2021

The claims test was carried out in accordance with ADISA Claims Testing (ACT) v1.0 and supporting document ADISA Testing Methodology v1.0, both of which are available from ADISA.

The claim made for the test was:

“Extreme Protocol Solutions Inc. software/ product called XErase Enterprise Data Erasure V14.0 utilising algorithm NIST CLEAR and, when used in accordance with User Manual V14.0 will overwrite all user data on the media sample within this test to protect from a forensic attack equivalent to test level 1 of the ADISA threat matrix” ADPC0102

Three devices were submitted as part of this test, and these are listed below:

Device	Test Level
San Disk X400 SSD SATA 2.5 128GB – SD8SB8U-128G-1122	1
Kingston NVMe 500GB – SA2000M8/500G	1
Intel SSD 750 Series SSDPE2MW400G NVMe 400GB	1

After testing it is confirmed that the Extreme Protocol Solutions **claim is true** for the devices tested up to Test Level 1. Those devices are:

- San Disk X400 SSD SATA 2.5 128GB Model: SD8SB8U
- Kingston NVMe 500GB Model: SA2000M8/500G
- Intel SSD 750 Series Model: SSDPE2MW400G

2.0 Test Level 1 Testing Solid State Drives

2.1 Methodology.

This test phase is designed to evaluate the claim made by recreating an attack by a threat adversary utilising standard COTS forensic tools and techniques.

For each computer hard drive device, the following methodology is performed:

1. The device is connected to a target PC and placed in a stable state.
2. The applicant software was configured in accordance with the manufacturer's instructions.
3. Structured data, the string "ADISA", was written to every logical block address on the hard drive.
4. The device was then imaged using standard imaging techniques to create a base-line forensic image.
5. The device was then erased using the applicant's software in accordance with the manufacturer's instructions.
6. The device was then analysed using the following tools to create a second forensic image:
 - a. Standard commercial tools and techniques such as Access Data/FTK, Forensic Explorer and Encase.
7. The two forensic images (Stage 4 and Stage 6) were then compared and contrasted to ensure that all structured data had been removed.
 - a. For this test, there is no tolerance for remnant structured data and the result is a straight Pass or Fail.

2.2 Test Results.

Test Level 1 Summary Results

Test Level 1 replicated an attack on these devices being made by an aggressor with capabilities outlined below.

Risk Level	Threat Actor and Compromise Methods	Test Level
1 (Low)	Casual or opportunistic threat actor only able to mount high-level non-invasive and non-destructive software attacks utilising freeware, OS tools and COTS products. Commercial data recovery organisation able to mount non-invasive and non-destructive software attacks and hardware attacks.	1

The Results of Test Level 1.

Hard Drive/Model	Result
San Disk X400 SSD SATA 2.5 128GB – SD8SB8U-128G-1122	PASS
Kingston NVMe 500GB – SA2000M8/500G	PASS
Intel SSD 750 Series SSDPE2MW400G NVMe 400GB	PASS

Pass means that the software XErase Enterprise Data Erasure V14 mitigates the threat posed by the Threat Actors holding the capabilities outlined by Test Level 1 on the tested devices and the claim made can be confirmed.

3.0 Summary and Conclusions.

Claims Test Result: Pass on all devices tested.

The three devices passed the claims test as all-forensic data recovery techniques up to and including ADISA Test Level 1 and 2 failed to recover any data. The software tested was Extreme Protocol Solutions software XErase Enterprise Data Erasure V14.

Claims Test Carried Out By: Godfred Badu

Test Facility: ADISA Research Centre



Signature:

Date: 30.06.2021

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