

To: IBM
SO#: 5130717_A1
Date: July 6, 2015

Subject: Erasure Verification Services

Brand: IBM
Model: FlashSystem 900
Capacity: 4TB
Interface: Fibre Channel
Serial Number: 9840AE21351193

Below is a summary of the Erasure Verification Services provided by Kroll Ontrack for IBM. Kroll Ontrack conducted the validation as a third party.

Figure 1: IBM FlashSystem 900



Solid State Drive (Flash RAID) Preparation:

Kroll Ontrack engineers configured the device as a RAID 0 and wrote a repeating 1-byte hex pattern (0x55) to every accessible sector via the array. A second, different 1-byte repeating pattern (0xAA) was then written immediately afterward to all sectors. This process is intended to simulate user data and ensures that all accessible sectors are populated more than once, which forces the array to use its pool of spare pages.

Kroll Ontrack engineers then performed the erasure commands as instructed by IBM engineers. The RAID was reassembled as a RAID 0 and using this configuration Kroll Ontrack performed the erasure verification process via the array interface.

Analysis via Fibre Channel Interface:

Proprietary software was used to scan every sector accessible via the Fibre Channel (FC) interface to verify that all sectors on the drive are erased on the Flash RAID device.

Conclusion:

All accessible sectors via the Fibre Channel interface were found to be erased and no simulated user data is present or recoverable.

