SNIA Emerald Specification Update May 2018

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SNIA Emerald™ Training

SNIA Emerald™ Power Efficiency Measurement Specification

Version 3.0.2

May 2018

Summary of V 3.0.1 Inconsistencies

- A detailed review of version 3.0.1 of the Spec revealed inconsistencies in the file access data collection intervals for power, IO operations rate and temperature
  - The pertinent sections of Spec for these recording intervals are
    - 7.2.9 and 7.2.11.2
  - The pertinent tables are B-1 and B-3

Summary of the GTWG Decisions V3.0.2

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- To align the file access data recording process we have decided on
  - 5 second recording intervals for power, 10 seconds for IO operations and 10 seconds for temperature collection
- The block access data recording process remains unchanged
  - 5 second recording intervals for power, 60 seconds for IO operations and 10 seconds for temperature collection

Summary of the GTWG Decisions V3.0.2

- Note that the data shown in Table B-1 and B-3 reflect different averaging periods for the power calculations
  - 60 second average for the block access power calculation
  - 10 second average for the file access power calculation
  - This allows the number of data points used in the stability calculations to remain at 30 (clause7.4.2.6)
  - Requesting patience as we quickly to a “page turn” to illustrate these changes

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Thank You for your attention

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