SYSmark 2014 SE Patch 2 Version 2.0.2.118 Release Notes 2019.10.01

General Notes:

- Supports Win 7 (64 bit), Win 10 (64 bit) • Reference system:
    - Lenovo® ThinkCentre™ M800 Tower ○ Processor: Intel® Core™ i3-6100 @ 3.70 GHz ○ Operating System: Microsoft Windows 10 Pro x64 (build 1607) ○ RAM: 4GB DDR3
    - Graphics: Intel® HD Graphics 530 ○ Audio: Integrated High Definition Audio ○ SSD: 256GB capacity, SATA III, OPAL 2.0 capable ○ Networking: Integrated Gigabit Ethernet
- Included scenarios ○ Office Productivity (OP) ○ Media Creation (MC) ○ Data/Financial Analysis (FA) ○ Responsiveness (RE)
- SYSmark 2014 SE Patch 2 is calibrated using the same Lenovo M800 reference system as SYSmark 2014 SE patch 1, using the following process:
    - Run SYSmark 2014 SE on the calibration system. Run with the following settings:
        - ✦ Scenarios: select ALL scenarios
        - ✦ Iterations: 3
        - ✦ Energy consumption measurement: ENABLED
        - ✦ Conditioning Run: ENABLED
        - ✦ Process Idle Tasks: DISABLED

Patch 2 Features, Fixes, and Enhancements:

- Windows 10 Tamper Protection is now being reported in the results PDF and XML
- Windows 10 Defender Setting is now being reported in the results PDF and XML
- The "Disable Windows Defender" System Configuration item has been restored in severity from "Optional" to "Recommended". By default this item is checked in the System Configuration module (matching RTM and patch 1 behavior).
- If a benchmark run is started with the Tamper Protection Windows 10 feature enabled while and the Disable Windows Defender System Configuration item is checked on a dialog will appear asking the user if they still wish to proceed with the run. This dialog will disappear in 30 seconds automatically and the run started if the user does nothing.
- Fixed an issue with the Adobe Lightroom workload intermittently failing in the RE scenario.
- Fixed an issue with COM API errors in Excel.

Known Issues:

- Extech 380803 may occasionally set itself to a different baud rate, requiring it to be reset using a special utility. As Extech uses RS-232 serial port communication, it is very hardware-dependent, and a reliable USB-to-Serial adapter is strongly recommended.
- Watts UP? meter may cause a crash when connected via USB 3.0 ports on some systems. Use the USB 2.0 ports as a workaround

- Uninstalling and reinstalling to the benchmark to the same system will trigger DRM with some applications.
- Windows explorer shell may crash during uninstallation ○ Reboot when prompted by the uninstaller to fix this issue.
- Adobe Acrobat may stall on the Geohydrology page on some non-English installations

Extech 380803 Setup Instructions

1. Obtain an Extech 380803 Power Analyzer / Datalogger
   a. Manufacturer's page: http://www.extech.com/display/?id=14172
   b. Note: Extech states that this meter is for use in 110-117V countries only. However, that only refers to the included power supply for the meter itself. The meter is capable of accurately measuring inputs/outputs up to 300V. For countries operating on 220V, this power meter should be used with either 1.) 8 AA batteries or 2.) a generic 12V DC power adapter (not included with meter purchase)
2. Make all power connections
   a. Connect Extech power supply to a power outlet. For countries operating on 220V, insert 8 AA batteries into battery compartment, or purchase a compatible 12V DC power adapter. As batteries may unexpectedly die during benchmark run, a compatible DC power adapter is strongly recommended.
   b. Connect Extech input to power outlet
   c. Plug system under test into power outlet on Extech power meter. A socket adapter may be needed for countries that don't use Type A or Type B sockets (found in the USA, Canada, Mexico, and Japan).
3. Connect Extech data port to system under test
   a. A reliable USB-to-Serial adapter is strongly recommended
   b. Connect Extech RS-232 port to computer using USB-to-Serial adapter
   c. Install appropriate drivers for USB-to-Serial adapter. There are many types of adapters available, so please refer to your adapter manual for system requirements and driver installation instructions
4. Determine which COM port number was assigned to the USB-to-Serial adapter
   a. Make sure USB-to-Serial adapter is disconnected from the system under test
   b. Open Control Panel > Device Manager
   c. Expand "Ports (COM & LPT)"—note which COM ports are listed
   d. Connect USB-to-Serial adapter to the system under test
   e. Note which COM port number appeared when you connected the adapter
   f. Close Device Manager

SYSmark 2014 SE Power Testing Mode Instructions

- SYSmark 2014 SE Command Line Switch to Enable Power Testing ○ -j < COMPORT#>
  ✦ COMPORT# is the number you observed during Step 4 of Extech 380803 Setup Instructions.