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Introduction

SYSmark® 2014 is an application based, system performance benchmark designed to assist users in making PC purchasing decisions.
Setup

Before attempting to install or run SYSmark 2014, verify that the test system meets the recommended minimum system configuration for running the benchmark.

- **CPU**: 1.0 GHz AMD® or Intel® dual core processor
- **RAM**: 2 GB
- **HDD/SSD**: 50 GB of free space on the primary drive
- **Operating System**: Microsoft® Windows® 8.1 32/64bit Microsoft® Windows® 8 32/64bit (with .NET Framework 3.5 enabled), or Microsoft® Windows® 7 32/64-bit
  - SYSmark 2014 v1.5 adds support for Microsoft® Windows® 10 32/64-bit
- **Resolution**: 1024x768
- **Graphics**: DirectX 9 compatible

Image configuration

For best results, SYSmark 2014 should be installed to a clean instance of a supported operating system, with updated hardware drivers. See the Applications section for a list of application software installed by the benchmark. SYSmark 2014 includes an integrated configuration tool that will automate making changes to the system in preparation for running the benchmark. See the Usage section for more details on the Configuration tool.

- Administrative rights: An account with administrative privileges is required. Use the same account to install and run SYSmark 2014.
- User Account Control: Disable UAC on the test system.

SYSmark® 2014 installation

Please use disk image software to make a back up of the disk prior to installation of SYSmark 2014. The benchmark does not support uninstallation at this time.

Please be sure the test image is free of any known conflicting software before attempting installation. This list includes but may not be limited to any of the applications that will be installed by the benchmark. See the Applications section for the list of applications that SYSmark 2014 installs and/or uses.

Also note that Microsoft .NET Framework 4.0 must be enabled or installed prior attempting to install SYSmark 2014 on Windows 8 systems.
To install SYSmark 2014, insert DVD 1 from the installation media set into the test system's optical drive. Launch SYSmark2014_Setup.exe and follow the prompts to install the benchmark software. SYSmark 2014 must be installed by a user with Administrator privileges. If User Account control is turned on please right click the SYSmark2014_Setup.exe file and choose 'Run as Administrator' from the context menu.

![SYSmark 2014 installer window.](image)

Figure 1: SYSmark 2014 installer window.

A serial number is provided with the benchmark purchase. Record the serial number for safe keeping, as it will be required for installation.
Figure 2: Enter your provided SYSmark 2014 serial number to proceed with installation.

Figure 3 shows the default full installation of the benchmark. All core components, all scenarios and the results browser will be installed.
The installer also supports custom installation options as shown in Figure 4. Uncheck the components you do not wish to install. The SYSmark® 2014 component is required when installing any benchmark scenario. Scenarios not installed will not be available for selection when running the benchmark. Note: To obtain an overall system performance score and FDR valid for publication at www.bapco.com/support/fdrs all scenarios must be completed.
Figure 4: Uncheck the components for custom installation.

Upon successful completion of installation, SYSmark 2014 will display a window as shown in Figure 5 below.
SYSmark 2014 may also be installed through the command line. Replace xxxx-xxxxx-xxxxx-xxxxx-xxxxx with your provided serial number. The following command line switches are available:

- /S - silent install, no GUI
- /SN=<serial number> - install with supplied serial number
- /SerialNumber=<serial number> - install with supplied serial number
  - Both /SN and /SerialNumber are case insensitive

**Command line installation example**

To install SYSmark 2014 from the command line, open a command prompt, change to the directory where the SYSmark2014_Setup.exe file is located and issue the following command.

```cmd
C:\>start /wait SYSmark2014_Setup.exe /S /SN=xxxxx-xxxxx-xxxxx-xxxxx-xxxxx
```

**Installer exit codes**
When complete, the installer will return an exit code (stored in `%ERRORLEVEL`%). See below for the exit codes and their meanings:

- **0** - Success
- **3010** - Success, reboot required
- **1** - Installation abort by user
- **2** - General installation problem
- **3** - Missing or invalid serial number
- **4** - The following applications must be uninstalled before installing SYSmark 2014
- **5** - SYSmark 2014 (64-bit) can only be installed on 64 bit machines
- **6** - SYSmark 2014 installer is already running
- **7** - Installer must be run from the top level installer: SYSmark2014_Setup.exe
- **8** - Disc 2 version does not match the version in Disc 1
- **9** - Application installation missing. Invalid installation. Please uninstall and reinstall SYSmark 2014
- **10** - Installation directory must be less than 145 characters.
- **11** - Installer cannot find Disc2 media
Uninstallation

SYSmark 2014 does not currently support uninstallation from the Add/Remove programs control panel. BAPCo recommends wiping the drive and installing a fresh copy of the operating system image. This will ensure that all traces of SYSmark 2014 have been removed from the system. Alternatively, restore the clean image from the back up made prior to installation.

Usage

The SYSmark 2014 interface may be launched by

- Double clicking the SYSmark 2014 desktop icon
- Navigating to C:\Program Files (x86)\BAPCo\Sysmark2014\bin\ directory in Windows Explorer and double clicking the SYSmark 2014.exe file
- From the Start menu: Start>All Programs>BAPCo and clicking the SYSmark 2014 menu icon

Important: If User Account Control has not been previously disabled, right click the icon and choose 'Run as administrator'. UAC can then be disabled using the integrated configuration tool. More information on the integrated configuration tool is available in the Automated Configuration section below. SYSmark 2014 must be run under the same user account that was used to install it.

The benchmark interface window will open as illustrated in Figure 6:
Launch benchmark project from GUI

- **Project name**: Type the desired project name in the 'Project name' field. Spaces and underscores are permitted. Special characters such as (*,$,@,) are not supported in project names.
- **Scenarios**: Default value: selected if installed. Scenarios not installed at install time are not available for selection in the GUI. Note: All three scenarios must be installed and selected for execution at project run time to produce an overall score and FDR valid for publication.
- **Iterations**: Default value: 3. The user may adjust this value as required.
- **Conditioning run**: Default value: selected. Selecting the conditioning executes one iteration of the selected scenarios prior to executing the rest of the project to aid in stabilizing the system for repeatable results. The project FDR will indicate whether the conditioning run was executed. However, if executed, the conditioning run will not be included in the final scores for the project.
- **Process Idle Tasks**: Default value: Selected. Process idle tasks option directs SYSmark 2014 to execute the Windows operating system process idle tasks queue before starting the
benchmark run. Clearing the idle tasks queue prior to running the benchmark may help achieve more repeatable results. Click the 'Run Benchmark' button to kick off the project.

Automated Configuration

New for SYSmark 2014, BAPCo has integrated a system configuration tool into the benchmark GUI to better assist users with configuring the system prior to executing the benchmark. The system configuration tool will automatically apply a set of default options to the system which are required for SYSmark 2014 to run. The configuration tool settings can be viewed by clicking the configuration button in the main GUI.

Figure 7: SYSmark 2014 configuration button

The configuration tool window will display the options available for configuring the test system, as pictured in Figure 8 below. Modify the set of options and click ‘Save’ to save the profile. When SYSmark 2014 is launched, the saved settings will be applied to the system. Note that Figure 8 displays the options that appear under Windows 8.1, other support operating systems may display a different set of options.
System Configuration Tool Items List

The following is a list of configuration options with their priorities that can be applied using the System Configuration tool. The options that appear in the System Configuration tool window may vary with operating system.

**Required**

Make configuration changes that are required for the benchmark to run. These items are checked by default.

*Figure 8: SYSmark 2014 configuration options on Windows 8.1*
Recommended

Make configuration changes that are recommended in order to obtain repeatable scores. Recommended items are checked by default. Recommended items may be disabled by unchecking the corresponding box.

Optional

Make configuration changes that are typically not needed to obtain repeatable scores, but which may be needed in some rare cases. Optional items are not checked by default.

Create BAPCo Power Scheme – Recommended

Creates a new power scheme named "BAPCo SYSmark 2014" based on the system's currently active power scheme. If applied, all subsequent power profile configuration changes will be applied to the newly created power scheme. If this option is not checked, all power profile configuration changes will be applied to the currently active power scheme.

Set Power Plan Type to "High Performance" – Recommended

Sets the "Power Plan Type" option (sometimes referred to as "Power Plan Personality") of the active power scheme to "High Performance". This setting tags the active power plan with an overall personality that favors performance over energy savings. Drivers and applications may query this setting to determine their respective performance vs energy savings behavior. This option may be used whether or not the "Create BAPCo Power Scheme" option is checked. If "Create BAPCo Power Scheme" is unchecked, "Set Power Plan Type" will be applied to the currently active power scheme.

Disable User Account Control (UAC) – Required

Disables User Account Control to prevent Administrator elevation prompts from appearing during benchmark runs. The system must be rebooted to apply this change.

Disable Windows Update – Required

Stops and disables the Windows Update service. Prevents the Windows Update service from starting and/or checking for updates during benchmark runs.

Disable Sleep and Hibernate – Required

Prevents the system from going to sleep or hibernate and disables the "Require password on wake" setting.

Disable Low Battery Action – Required

Prevents the system from shutting down or posting a warning when the battery reaches the low level.
Disable Network Proxies – Required
Disables proxy server configuration for Internet connection settings.

Set DPI scaling to 100% - Required
Sets the desktop scaling to 100%. Prevents failures on higher resolution displays

Disable Windows Firewall – Recommended
Stops and disables the Windows Firewall service. Prevents blocking of application functions during the benchmark run.

Disable Windows Sidebar/Gadgets – Recommended
Turns off Gadgets.

Disable Windows Pop-ups – Recommended
Disables all pop up notifications (Balloon tips) in the systray

Disable Incoming Remote Desktop Connections – Recommended
Denies remote desktop connection requests from remote systems.

Disable Windows Error reporting – Recommended
Prevents Windows Error reporting tool from presenting error reporting windows.

Disable Screen Saver and Monitor Timeout – Recommended
Turns off the screen saver. Disables display timeout in the power profile for both AC and DC options.

Set CPU High Performance – Recommended
Sets the minimum and maximum value for CPU performance state to 100% to prevent CPU throttling on both AC and DC power.

Disable Desktop Slide Show – Recommended
Prevents the desktop background from changing.

Disable Disk Defrag – Recommended
Disables the Defrag scheduled task.

Set Windows Firewall Open Policy – Recommended
Configures the Windows firewall to allow all inbound/outbound traffic.
Disable Windows Defender – Recommended
Configures a group policy to disable Windows Defender.

Disable Lock Screen Win 8 and Win 8.1 – Optional
Disables the lock screen

Disable Hard Disk Timeout – Optional
Prevents the hard disk from going to sleep

Disable System Restore – Optional
Prevents System Restore from attempting to create restore points.

Ignore Laptop Lid Close – Optional
Prevent closing of Laptop lid from suspending the system.

Set Maximum Display Brightness – Optional
Sets display brightness to 100%. Sets dimmed display brightness to 100%. Sets "Dim Display After" value to "Never".

Launch System Configuration Tool from command line
The System Configuration Tool may be launched from the command line. Using the parameters below.

```
-p or --profile="ProfileName" Specifies the configuration profile to apply. Profile names are case sensitive, and must be listed in the SystemConfig.xml file. The default profile is: SYSmark 2014
-h or --help Displays the help dialog
```

Example command line
"C:\Program Files (x86)\BAPCo\Sysmark2014\bin\System Configuration.exe" -p="SYSmark 2014"

Launching a benchmark project from command line
SYSmark 2014 also supports execution from the command line. Supported command line parameters are provided in the list below. The SYSmark 2014 GUI will launch if there are syntax errors in the command line text.

```
-p or --project Specifies the name of the project. This option determines if the GUI is presented to the user, or if the benchmark runs
```
silently. If this option is supplied, it is assumed that the GUI should not appear.

-i or --iterations  Specifies the number of iterations to run. This must be greater than 0. The default is 3.

-r or --retries  Specifies the number of retries when a script error occurs. The default is 5.

-w or --retrywait  Specifies the amount of time in seconds to wait before a retry. The default is 120 seconds.

-s or --scenarios  Specifies a comma separated list of scenario (groups) that should be run. The default is to run all scenarios that are selected in the aggregation template. This will normally be: OP, MC, FA.

-nc or --noconditioning  Turns off system conditioning run. The default is On.

-np or --noprocessIdleTask  Disables process idle tasks. The default is On.

-h or --help  Displays the help screen.

-v or --verbose  Turns on verbose mode. The default is off.

Example command line

"C:\Program Files (x86)\BAPCo\Sysmark2014\bin\SYSmark 2014.exe" -p test_project -i 4 -s OP,MC
Tips For Usage

This subsection describes the behavior SYSmark 2014 during the execution of a benchmark run.

Heads Up Display (HUD)

The Heads Up Display appears in the upper right corner of the desktop and provides information about the currently running project.

![Figure 9: BAPCo Heads Up Display.](image)

Process idle tasks

Prior to executing benchmark workloads, the SYSmark 2014 workload manager will pause for 120 seconds to allow the system to stabilize. When the 120 seconds has elapsed, the workload manager will issue the process idle tasks command. When the idle tasks queue is cleared, the benchmark workload will begin. Note: Process idle tasks completion time can vary from system to system.

Keyboard/mouse input blocking

Once workload execution begins, the workload manager will lock the system to prevent accidental input from the mouse or keyboard from disrupting the workload automation. The workload manager will continue to execute the selected scenarios for the current project, and will display the results at the successful conclusion of the run. Refer to the Stopping a run in progress section below for additional information on keyboard and mouse input blocking.
Error handling

By default, when SYSmark 2014 encounters an error during the execution of a project, the workload manager will log the error and then present the user with the retry dialog, as pictured in Figure 10 below.

![SYSmark 2014 retry dialog](image)

*Figure 10: SYSmark 2014 retry dialog*

Unless otherwise configured on the command line with `-r` or `--retries`, SYSmark 2014 will attempt to retry a scenario up to five times. The default timeout between an error and scenario retry is 120 seconds. This value can be changed on the command line using `-r` or `--retrywait`. If the scenario cannot be successfully completed before the retry threshold is reached, the workload manager will halt execution and display the error message in the results browser.

SYSmark 2014 allows further control of error handling timeouts through the `BENCHMARK_TIMEOUT_MULT` environment variable. This variable can be configured to increase the amount of time a benchmark script waits before throwing an error and either attempting a retry or halting the run. The default value for `BENCHMARK_TIMEOUT_MULT` is 1.0. Increasing the value to 2.0 doubles the error handling timeout, 3.0 triples the timeout, and so on.

Stopping a run in progress

If it becomes necessary to stop a benchmark run in progress, follow these steps:

- Depress the CTRL-ALT-DEL keys at the same time, bringing up the Windows change password screen
- Click 'Cancel' to return to the desktop
- Keyboard and mouse input should now be enabled
- Navigate to the systray in the lower right corner of the screen and find the BAPCo icon, as shown in Figure 11 below
- Right click the icon and choose 'Stop'
Figure 11: BAPCo icon. The green triangle indicates that SYSmark 2014 is running
Results browser

The SYSmark 2014 results browser simplifies the viewing of results.

Double click support for viewing single FDR

Double clicking on an FDR file will launch the results browser, load and display that FDR. Double clicking another FDR file will display the FDR in the browser window. Previously loaded FDRs will be available from the results browser drop down menu.

Drag and drop support for viewing multiple FDRs

Drag and drop an FDR file on the open results browser window, and the FDR will be displayed. Multiple FDRs may also be selected, dragged and dropped onto the results browser window. The results browser will display one FDR, the other selected FDRs will be available from the drop down menu.

Save FDR to PDF for distribution

Generated FDRs may be exported to PDF for easier distribution. Save to PDF by first loading the desired FDR into the results browser. Once the FDR is displayed, click the 'Save Results' button in the lower right corner of the results browser window. The Windows save file dialog will appear. The default file path is C:\Program Files (x86)\BAPCo\SYSmark2014\Results\. Select the path and choose a file name. Finally, choose 'PDF (*.pdf)' from the 'Save as type' drop down and click 'Save'.

Standalone installation support

The SYSmark 2014 results browser supports standalone installation, allowing the user to view FDRs quickly and easily on almost any system. To install the results browser, follow the steps below.

- Launch the SYSmark 2014 installer from DVD 1
- Enter a valid serial number and click 'Next'
- Accept the license agreement and click 'Next'
- Under the 'Select type of install' option, choose 'Custom'
- Uncheck the 'SYSmark 2014' and the SYSmark 2014 Scenarios' component
- Be sure the 'SYSmark 2014 Results Browser' component remains checked and click 'Next'
- Click 'Next' to accept the default location
- Click the 'Install' button
- Click the 'Finish' button to close the installer window
Launch the Results browser by

- Double clicking the desktop icon
- Double clicking any FDR file
- Navigating to the Start menu>All Programs>BAPCo and clicking the SYSmark 2014 Results Browser icon

**Viewing results**

Upon successful completion of a project, SYSmark 2014 launches the results browser and loads the Full Disclosure Report (FDR) for the project as shown in Figure 12. The first portion of the results browser window displays the test summary for the project.

![BAPCo SYSmark 2014 Results Browser](image)

*Figure 12: Project Test Summary*
Scroll down in the window to view the table of scores, as shown in Figure 13.

![Figure 13: Project scoring information. In this example, an overall score is displayed.](image)

**Reference system**

SYSmark 2014 scores are normalized using a reference system. The reference system scores '1000' on each of the three scenarios, and on the overall SYSmark 2014 rating. The reference system configuration is listed below.

**HP® ProDesk™ 600 G1**

- Processor: Intel® Core™ i3-4130 @ 3.40 GHz
- Operating System: Microsoft Windows 8.1 Pro x64
- RAM: 4GB DDR3
- Graphics: Intel® HD Graphics 4400
- Audio: Integrated High Definition Audio
- HDD: 500GB capacity, 7200 RPM SATA III
- Networking: Integrated Gigabit Ethernet

**Publishing results**

BAPCo encourages users to submit FDRs (Full Disclosure Reports) generated from Official Runs of SYSmark® 2014 for publication at [www.bapco.com](http://www.bapco.com). An Official run of the benchmark requires that all available scenarios be completed and scored. Conditioning runs may be executed as part of an Official Run submitted for publication. To submit the FDR to BAPCo, follow these steps:

- Load the desired FDR into the results browser, or, if the Official Run has just completed, the corresponding scores will already be displayed in the results browser window
- Click the 'Save Results' button in the lower right corner of the results browser window
- The Windows save file dialog will appear. The default file path for saving FDRs is `C:\Program Files (x86)\BAPCo\SYSmark2014\Results`
- Select the desired path and choose a file name
- Choose 'PDF (*.pdf)' from the 'Save as type' drop down and click 'Save'
- Email the PDF to report@bapco.com
Applications

The following applications (grouped by scenario) are installed and/or used by SYSmark 2014. Some applications appear in multiple scenarios, but only one instance of the application is installed.

Office Productivity

- Adobe® Acrobat® XI Pro
- Google Chrome
- Microsoft® Excel® 2013
- Microsoft® OneNote® 2013
- Microsoft® Outlook® 2013
- Microsoft® PowerPoint® 2013
- Microsoft® Word 2013
- WinZip® Pro 17.5

Media Creation

- Adobe® Photoshop® CS6 Extended
- Adobe® Premiere® Pro CS6
- Adobe® Premiere® Pro CS4 (for 32 bit)
- Trimble SketchUp™ Pro 2013

Data/Financial Analysis

- Microsoft® Excel® 2013
- WinZip® Pro 17.5
Scenarios

SYSmark 2014 scenarios and workload descriptions are provided below.

Office Productivity

The Office Productivity scenario models productivity usage including word processing, spreadsheet data manipulation, and email creation/management. Web browsing is also included.

Media Creation

The Media Creation scenario models using digital photos and digital video to create, preview, and render a video advertisement for a fictional business.

Data/Financial Analysis

The Data/Financial Analysis scenario creates financial models to review, evaluate and forecast business expenses. In addition, the performance and viability of financial investments is analyzed using past and projected performance data.
Support

Technical support for SYSmark 2014 is provided through support@bapco.com. When contacting support please include the following information.

- SYSmark 2014 version, eg, 1.0.0.123
- System configuration information
- Step by step instructions for reproducing the problem
- Rate of error, eg, 100%, 50%
- Archive of the benchmark error logs from the failing run
  - Locate the error folder, for example: C:\Program Files (x86)\BAPCo\Sysmark2014\Results\Project_name\Errors\n  - Locate the benchmark installation logs:
    - %TEMP%\Sysmark2014_Disc1.log
    - %TEMP%\Sysmark2014_Disc2.log
  - Locate the System Config Tool log (note: this file exists only if the System Config Tool was used to configure the system)
    - C:\Program Files (x86)\BAPCo\Sysmark2014\bin\Results\systemconfig.txt
- Archive the error folder and the logs listed above using WinZip, WinRAR, etc
- Attach the archive file to the support request email sent to BAPCo support
- When reporting multiple errors, please include an error archive for each problem being reported
SYSmark® 2014 Benchmarking Rules

This document describes the rules governing publication of results derived from running the BAPCo SYSmark 2014 benchmark. Any licensee who wishes to publish such results is obliged to adhere to all rules and regulations described in this document or other documents provided by BAPCo related to execution and reporting of SYSmark 2014 benchmark results. BAPCo reserves the right to change the rules outlined in this document at any time. Licensees are encouraged to consult BAPCo website at www.bapco.com for the latest information regarding execution and publication rules. For more information please consult the Software License Agreement.

Benchmark Execution

Workload Manager: All benchmarks must be run using the SYSmark 2014 Workload Manager. This utility is an executable program that runs the SYSmark 2014 benchmark. It also includes a module that generates the final benchmark results for the system under test. All published results must be derived only from a complete and correct run of the benchmark. All tests must be performed without modification to any part of the SYSmark 2014 software.

The collective set of hardware and software used in generation of an official SYSmark 2014 result must be available to the public as defined by BAPCo's availability criteria. The following specific rules apply:

Operating System: The operating system used to generate and publish results must be a publicly available release from the original software vendor. Consult the product manual at www.bapco.com for the current list of supported operating systems. Upgrade of specific drivers that are released and maintained by vendors other than the operating system vendor (e.g. graphics drivers, disk drivers, motherboard setting files, multimedia drivers) is allowed provided these drivers are publicly available, release-quality drivers from original vendors of such drivers. Licensees may also use operating system service packs, API updates (e.g. Direct X) and other such updates provided they are publicly available, release-quality software from the original vendor, and that they meet the benchmark's Operating System requirements. Licensees should also consult license agreements from individual software vendors to ensure compliance with vendor benchmark restrictions.

Performance Enhancing Utilities: Use of performance enhancing utilities or techniques is allowed provided that the utility or technique is publicly available, release-quality software from the original vendor. The utility needs to be documented and such techniques should not compromise the integrity of the system under test or the benchmark. BAPCo shall reserve the right to review the usage of such tools or techniques and invalidate published results if need be.
**Hardware:** The system hardware used to generate official SYSmark 2014 results must be publicly available at the time of publication or within 60 days thereafter. The system must be purchasable as a complete platform from an Original Equipment Manufacturer within 60 days of publication. Alternatively, licensees may report results for systems which may not be available from an OEM but whose individual components are publicly available and purchasable from various vendors at the time of publication or within 60 days thereafter. Note that the 60-day grace period does not apply to system software. All software used must be publicly available and be of release-quality available from the original software vendor.

**Full Disclosure Report**

A complete Full Disclosure Report (FDR), must be generated by the Workload Manager for all published results. This FDR must include the overall SYSmark 2014 Rating, the ratings for each of the three scenarios as well as pertinent system information about the state of the system under test. The format and the information included in this report is determined by BAPCo. No modifications should be made to the FDR (modifications to the FDR will invalidate the FDR). FDRs can be saved using the Result Browser software.

**Publication**

BAPCo encourages all licensees to submit FDRs on the BAPCo website (www.bapco.com) for all publicly available results. To submit results, the licensee emails a Full Disclosure Report to BAPCo (report@bapco.com) that was generated by the Workload Manager. If the licensee publishes results external to the BAPCo website, the licensee agrees to submit the FDR within 5 business days, upon request from BAPCo.

**Availability**

When publishing SYSmark 2014 results, the tested system must be available for purchase by the public either at the time of publication or within 60 days after publication. Note that the 60-day grace period does not apply to system software. All software used must be release-quality and made publicly available from the original software vendor.

**FDR Processing**

The submitted FDRs are processed by BAPCo and classified as:

*Released for publication* - The results are released for publication as filed.

*Rejected* - The results are rejected for publication as filed.

The Released for publication classification is in no way a validation or an endorsement of the results by BAPCo. The submitting licensees are free to publish results as long as a complete and valid FDR has been generated. The licensee agrees to submit the valid FDR to BAPCo within 5 business days, upon request.
from BAPCo. BAPCo will perform frequent audits of the submitted FDRs and reserves the right to revoke the license granted to licensees who have not adhered to the regulations described in this or other SYSmark 2014 documentation. In the case where an FDR is returned to the licensee with rejected classification, the licensee must immediately stop publication of the rejected results until the matter is clarified by BAPCo. Any publication of results must be accompanied by at least the system model number plus any discrepancies between the configuration of the stated model number and the configuration of the system tested. The publication can use the single overall SYSmark 2014 rating or the combination of the overall rating and a scenario rating. Licensees may not publish scenario ratings unless the overall SYSmark 2014 rating is also included. (E.g. the Office Productivity scenario rating cannot be published without disclosing the SYSmark 2014 overall rating) The term SYSmark is a registered trademark of the Business Applications Performance Corporation and may only be used in conjunction with performance metrics generated by the SYSmark 2014 Workload Manager. Any other performance characterizations may be made but must be derived from the performance metrics generated by the Workload Manager. The terms SYSmark and SYSmark 2014 may not be used as the performance metric describing such characterizations.

**Publication of Results on Non-OEM Platforms**

BAPCo allows the publication of performance indices using SYSmark 2014 for making "Non- OEM" platform comparisons. This includes performance comparisons on systems that are not shipped from an OEM as a complete platform. An example of such comparisons is when a graphics card manufacturer wishes to compare the performance of its graphics card to that of another manufacturer in an identical platform by swapping the cards and measuring the performance. Results published on Non-OEM platforms must be marked as Modified on the accompanying FDR and whenever appearing in publications of any kind.

**Publication of Results for Competitive Comparisons**

Licensees may publish results on competitor systems as long as the performance results for the competitor have been published previously at www.bapco.com. In the case where competitor performance results are not available, the competitor will be notified by BAPCo and given fifteen working days to provide a counter-FDR for its own system or challenge the submitted FDRs (results). The submitted results may not be published until the fifteen-day waiting period has expired and all matters with respect to any counter-FDRs have been resolved by BAPCo. In the absence of a response from the competitor after fifteen days, the original publishing licensee may begin publication. Industry publications may publish results for making competitive comparisons without being subject to the above procedure. Publications are, however, subject to all other regulations set forth in this document.