

Comments on Draft 1 ENERGY STAR® Program Requirements for Computer Version 5.0
Fujitsu Siemens Computers
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Line	Requirement / Definition	Comment
268	Small-Scale Server - Shipped with an industry accepted OS	<p>Small-Scale Server are usually shipped without preinstalled OS. Proposal of a new wording in line 268: Designed for an industry accepted operating system...</p> <p>The shipment without OS means also:</p> <ul style="list-style-type: none"> - EPA has to define Software environments for measurements
446	Computers Using an Internal Power Supply: 85% minimum efficiency at 50% of rated output and 82% minimum efficiency at 20% and 100% of rated output, with Power Factor > 0.9 at 100% of rated output.	FSC request of an exemption for Small-Scale Server. As the development cycle of a typical server power supply takes longer than one year, we strongly request to keep currently valid PSU efficiency conditions of 80+% also for the Energy Star V5.0 for Small-Scale Servers.
520	Table 2: Operational Mode Weighting	If a Desktop or Notebook is capable for both "Conventional" and "Proxying" is it allowed using the values for Proxying only?
568	Annual Energy Consumption (Workstation) N_{runs} = 567;	Who defined this value?

931	Idle Mode Testing	<p>Idle Mode Testing“ – A way of getting consistent result with Windows Vista</p> <p>Power measurement for EPA “Idle Mode Testing” is done 15 minutes after boot for 5 minutes. There is also a hint regarding “one-time/periodic processes” under UUT Preparation in line 883: ... If necessary, run the initial operating system setup and allow all preliminary file indexing and other one-time/periodic processes to complete.</p> <p>Vista preinstalled on a typical computer system has plenty of such “one-time/periodic processes” in the first days of usage especially when many “Languages Packs” are included. During our investigation we found that rather often tasks like “LPRemove”, “Windows Search”, “Volume Shadow Copy”, “SuperFetch”, “Defender” or “Windows Error Reporting” causing system activity which leads to significant increase of power consumption. The result is that measurement results are not consistent.</p> <p>Taking into consideration what EPA already proposes for “UUT Preparation” in would recommend to define following steps for Vista:</p> <p>Vista Preparation for UUT:</p> <p>1) Modify Power Management Settings in order to prevent automatic Standby</p> <p>2) Run following commands a least twice</p> <pre>----- Start /wait Rundll32.exe advapi32.dll,ProcessIdleTasks Start /wait LPRemove shutdown /r /t 300 -----</pre> <p>3) Run following commands to disable background tasks (reboot needed) We recommend to disable following services which sometimes cause some system load randomly: “Windows Search”, “Volume Shadow Copying”, “SuperFetch”, “Windows Update”, “Windows Defender”, “Windows Error Reporting”</p> <pre>----- sc config Wsearch start= disabled sc config vss start= disabled sc config SysMain start= disabled sc config wuau servicing start= disabled sc config WinDefend start= disabled sc config WerSvc start= disabled -----</pre>
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