

March 14, 2008

**JEITA Comments on ENERGY STAR Program Requirements for Computer Servers:
Draft 1**

JEITA Server Energy Savings WG

The computer server manufacturer members of JEITA have reviewed ENERGY STAR Program Requirements for Computer Servers: Draft 1 and have the following comments.

1. Definitions (pages 3 to 5)

- How are IC-embedded BMCs handled?
- The grounds for stipulating only EMI Class A are not clear. (EMI Class B servers also currently exist.)
- Single processor-socket rack mounted servers are not included draft's scope. They are not thought to be defined in the computer Energy Star requirements either. (→ Is there no way of delineating these from desktop-derived servers?)
- Lack of clarity due to considering blade servers as computer servers.
 - The definition seems to miss some servers because the requirements are two or more processor sockets and at least 16 GB of memory.
 - Is it better to use a definition based on the number of processor cores in the blade chassis?
- What is the meaning of categorizing servers when only the power supply efficiency is stipulated?
 - The upper limit of six disks will certainly be exceeded soon as disks move to 2.5-inch formats.
 - It is difficult to determine whether the requirements on CPU numbers and DIMM numbers are AND conditions or OR conditions? (Is it standard practice to regard these as AND conditions?)
 - We feel the standard will soon become obsolete with these stipulations in place. (Will they keep pace with technical advances?)
- The manner of dividing single-voltage power supplies and multi-voltage power supplies is ambiguous. (Is a power supply that puts out a standby power considered a multi-voltage power supply under definition D?)
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2. Power Supply Efficiency Requirements (pages 5 to 7)

- If only tested at 230 VAC, this makes it difficult for servers for the Japanese market to qualify.
 - The power supply efficient requirements should be stipulated (AC voltage and output voltage (with accuracy requirements)).
- The thinking behind the power supply and fan redundancy is unclear: do measurements

include or exclude redundancy? (Page 6)

3. Idle Power (Page 7)

- Applying the SPECPower test procedure to the idle performance of enterprise servers is unrealistic.

4. Power and Temperature Measurement Requirements and Virtualization Requirements (Page 9)

- Should the provision of real-time data on AC power consumption be made an essential requirement?
→ There are many approaches to this, but what about accuracy? (Is it useful at all?)
- What does “equipped with virtualization capabilities” mean? (Not specific enough.)

5. Additional comments

As we have not seen the detailed criteria, JEITA hopes to continue to examine whether to support servers as an Energy Star eligible (notification) item while watching future information.