FUJITSU

Comments on Draft 1 ENERGY STAR® Program Requirements for Computer Servers Version 2.0
Fujitsu Technology Solutions (FTS)
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Reference	Topic	Proposal	Advantage
Server Families			
426f	Family Definition	Allow not only different part numbers and capacities, but also different techniques for components, the worst power value of the component group shall be listed in this case.	Families can cover a wider range of components = better balance of testing and selling configurations
429ff		I/O devices with same power spec is unclear; aim is to cluster all I/O cards with same power spec	A family shall cover a wide range of configuration options
Active Mode Measurement			
631-633	Marketing Methods	Rules shall guarantee, that spec values of the P & P datasheet are not allowed to be used for marketing; they are only necessary for getting the label; single message shall be Energy Star yes or no	
Blade System criteria			
583ff	Blade criteria in general	Introduction of general requirements for blade systems (e.g. power management); requirement for metering for single blades only	
538ff;	Blade Thresholds	The exact definition for a blade is missing	Differentiation: subsumption of e.g. Storage blade vs. server blade is clear
548ff;	Chassis Thresholds for idle mode	The definitions for connectivity, management blades and fans are missing.	Realistic customer scenario;
548ff;	Chassis Thresholds for idle mode	Which configurations shall the single blades have? Specification is missing	

Blade System criteria			
553ff.	Blade Active Mode	Active mode shall be required for one and two identical blades only to get the difference. A 1/2 full chassis shall not be taken into consideration.	Huge test efforts can be avoided
568ff;	Chassis Thresholds.	The Introduction of different threshold values in relation to the maximum possible blade number makes sense to get a chassis value per blade (idle power limit)	Big chassis for many blades have no disadvantages
1064; sl. 24	UUT* Preparation	A blade cannot be metered independently of the chassis -> metering with chassis is the only alternative.	realistic test scenario
Data Measurement and Output [Power and Performance Data Sheet (PPDS)]			
PPDS page 3	Power Performance Benchmark Disclosure	The Power Performance Benchmark Disclosure is not necessary; its content is covered by the results from the rating tool; it does not provide additional information	Maybe misused for marketing activities; avoid double work
PPDS page 3	Power Performance Benchmark Disclosure	Maximum load value shall be listed, if the benchmark disclosure is not cancelled	
PPDS page 3	Power Performance Benchmark Disclosure	The Power Performance Benchmark Disclosure is not necessary; its content is covered by the results from the rating tool; no additional information	Maybe misused for marketing activities; avoid double work
PPDS page 3	Power Profile	The graphic sheet for power profile is not useful, could lead to wrong comparisons	
PPDS page 3	Power Profile	What is the basic value for energy costs (how is it calculated)? It shall be the same for every system	
PPDS page 4	Thermal Information	What is the benefit of these values in combination with Energy Star? It shall be cancelled.	
PPDS page 4	Inlet Air Temp vs. Fan Power	Do not require the values for inlet air temperature vs. fan power, the system values do already include fan power.	Huge test efforts in climatic chamber can be avoided; fan efficiency is part of the whole system power; single fan values cannot be measured