

## TUV Rheinland Taiwan Ltd. Comments

A: To my understanding below from clause 3.2.4 it means that all products shall be in compliance with EEE requirements, except for those that contain one or more Ethernet ports with a bandwidth of <1Gb/s only. Do I get it right?

3.2.4 Energy Efficient Ethernet (EEE) Requirements: All products which contain one or more Ethernet ports with a bandwidth of **1Gb/s or higher** shall have EEE supported in each of these ports in their as-shipped configuration.

B: according to Table 3 in E-Star Computer V8, it seems like Power Management Requirements on WOL and Wake Management apply only to those product with Ethernet capability and employ Sleep Mode, how do manufacturers deal with this when it comes to ALPM instead of Sleep Mode?

<p><b>Wake on LAN (WOL)</b></p>	<p>(1) Computers with Ethernet capability shall provide users with an option to enable and disable WOL for <b>Sleep Mode</b>.</p> <p>(2) Computers with Ethernet capability that are shipped through enterprise channels shall either:</p> <p>(a) be shipped with WOL enabled by default for Sleep Mode, when the computer is operating on ac mains power; or</p> <p>(b) provide users with the ability to enable WOL that is accessible from both the client operating system user interface and over the network<sup>ii</sup>.</p>
<p><b>Wake Management</b></p>	<p>(1) Computers with Ethernet capability that are shipped through enterprise channels shall:</p> <p>(a) be capable of both remote (via network) and scheduled (via real-time clock) wake events from <b>Sleep Mode</b>, and</p> <p>(b) provide clients with the ability to centrally manage (via vendor tools) any wake management settings that are configured through hardware settings if the manufacturer has control over such features.</p>

C: The term “draft” is displayed in the Table 15 as part of test method subject, should it be removed in next revision?

**Table 15: Test Methods for ENERGY STAR Certification**

Product Type or Component	Test Method
All	ENERGY STAR <b>Draft</b> Test Method for Computers, Rev. July 2022

D: Is below spelling “Celluar” a typo?

- I) **Celluar** network connections shall be disabled for testing. Additionally, Bluetooth should be left as-shipped.

E: Would you consider to add the test order in Network Connections at clause 5.2 Preparing Display Luminance of Notebooks, Integrated Desktops, Slates/Tablets and Portable All-In-One Computers.

If the UUT is equipped with multiple network capabilities, which connection shall be made in the order of preference, for example Ethernet first?

Regarding to definition of Enhanced-performance Display, would EPA consider to harmonize the description of definition.

In the current version, we can see the definition of Enhanced-performance Display is a little different between Computers and Displays criteria. Especially item (3) for color gamut.

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- a) **Enhanced-performance Integrated Display:** An integrated Computer Display that has all of the following features and functionalities:
  - (1) A contrast ratio of at least 60:1 at a horizontal viewing angle of at least 85°, with or without a screen cover glass;
  - (2) A native resolution greater than or equal to 2.3 megapixels (MP); and
  - (3) A color gamut of at least sRGB as defined by IEC 61966-2-1. Shifts in color space are allowable as long as 99% or more of defined sRGB colors are supported.

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- 3.3.4 For Monitors meeting the enhanced performance display (EPD) requirements below, the energy allowance in Equation 3 shall be applied to the Total Energy Consumption requirement in Equation 2:
  - i. Contrast ratio of at least 60:1 measured at a horizontal viewing angle of at least 85° from the perpendicular on a flat screen and at least 83° from the perpendicular on a curved screen, with or without a screen cover glass;
  - ii. A native resolution greater than or equal to 2.3 megapixels (MP); and
  - iii. Color Gamut greater than or equal to 32.9% of CIE LUV.

Thank you.

Best regards,  
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