UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

OFFICE OF
AIR AND RADIATION

September 17, 2018

Dear ENERGY STAR® Computer Server Partner or Other Interested Stakeholder,

The U.S. Environmental Protection Agency (EPA) is pleased to share the final Version 3.0 ENERGY STAR Computer Server Specification. EPA would like to thank the many stakeholders who have invested a great deal of time and effort to contribute feedback and data that has informed this product specification process. These Version 3.0 requirements will take effect on June 17, 2019 and computer servers should be tested using **SERT Version 2.0.1**. This letter provides highlights of the new requirements and outlines the transition process.

The Version 3.0 specification will recognize the top performing computer server products on the market. ENERGY STAR certified computer servers will use, on average, approximately 30% less energy than standard computer servers when power management is enabled. If all computer servers sold in the United States were ENERGY STAR certified, the cost savings would grow to over $1 billion each year and more than 18 billion pounds of greenhouse gas emissions would be prevented, equivalent to the emissions of over 1.7 million vehicles.

EPA received comments on the final draft specification from multiple stakeholders. In particular, stakeholders commented that manufacturers should be able to use SERT V1.1.1 raw test measurements to calculate the SERT V2.0.1 score required for ENERGY STAR certification. The Green Grid has developed a calculator, which was used to develop the EPA dataset, to convert the SERT V1.1.1 measurements for those products that were tested to that test method to the SERT V2.0.1 metric. EPA will post this calculator for use by Certification Bodies to certify the impacted models. Finally, stakeholders requested that EPA clearly note that dc servers are excluded products; provide alternate calculations on a per-blade and per-node basis; and make amendments to the definition for common product family attributes and low-end performance configurations. EPA has removed Section 1.G.1).E, which relates to the populated memory changes with the same model DIMM from the Common Product Family Attributes definition. For low-end performance configurations, the DIMM slots have been replaced with memory channels to be consistent with the SERT test procedures and ISO 21836 (under development). EPA has provided further responses to comments in the comment response matrix.

Version 3.0 Transition Timeline and Next Steps
EPA shares partners' desire for a smooth transition from one ENERGY STAR specification to the next so that consumer expectations are met and ENERGY STAR labeled products fully meet the new requirements upon their effective date. With this in mind, EPA has established the following timeline:

- Effective immediately, manufacturers may elect to have their Certification Body (CB) certify eligible products to the Version 3.0 requirements.
  - CBs must upload required SERT files specified in Section 4.1.2.v of the specification to EPA in a location to be determined which will be shared with CBs upon the release of the final QPX form.
  - The Green Grid has developed a calculator to assist with converting SERT V1.1.1 results to SERT Version 2.0.1, which partners may use for certifying products already certified using SERT V1.1.1 to the new specification. Products never certified as ENERGY STAR will be expected to use SERT Version 2.0.1.

- After February 1, 2019, CBs will be instructed to stop certifying new product submittals to Version 2.1. Note, however, that existing certifications to V2.0/2.1 will remain valid for the purposes of ENERGY STAR certification until June 17, 2019.
- Any computer server manufactured as of June 17, 2019, must meet the Version 3.0 requirements to bear the ENERGY STAR mark. All certifications of products to the Version 2.1 specification will be invalid for purposes of ENERGY STAR and CBs will only submit product models certified to Version 3.0 to EPA.

On behalf of EPA, I would like to thank all stakeholders who provided feedback during this specification revisions process and I look forward to working with you as you certify and market your ENERGY STAR certified computer servers. Please contact me at Fogle.Ryan@epa.gov or 202-343-9153 or John Clinger at John.Clinger@icf.com or 215-967-9407 with questions or concerns. For any other computer server related questions, please contact servers@energystar.gov. Thank you for your continued support of the ENERGY STAR program.

Sincerely,

Ryan Fogle
EPA Manager, ENERGY STAR for IT and Data Center Products

Enclosures:
Final Version 3.0 Specification
Final Draft Comment Response Matrix