



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

OFFICE OF  
AIR AND RADIATION

December 23, 2016

Dear ENERGY STAR® Connected Thermostat (CT) Service Provider or Other Interested Party:

The U.S. Environmental Protection Agency (EPA) is pleased to provide you with the Final Version 1.0 ENERGY STAR Connected Thermostat Products specification. EPA would like to thank the many stakeholders who contributed to the development of this specification. The specification is effective immediately and service providers may begin certifying their products as ENERGY STAR upon release of the Version 1.1 ENERGY STAR CT Field Savings Software, planned for January 2017.

This specification is novel in that it grants ENERGY STAR recognition to a product incorporating both hardware and service elements. It is also the first that relies on analysis and aggregation of field data, rather than a laboratory test, to demonstrate that products save energy. The development of this specification has been a journey that EPA could not have completed without the active participation of a wide variety of stakeholders.

The result is a specification with considerable savings potential. The average consumer using an ENERGY STAR connected thermostat will save more than 8% of their HVAC energy, amounting to approximately \$50 annually. If all thermostatically controlled heating and cooling in the US achieved savings of this level, it would total 56 trillion BTU and offset 13 billion pounds of greenhouse gas emissions, equivalent to the emissions of 1.2 million motor vehicles each year.

EPA received multiple comments on the final draft, issued December 2, 2016. Most comments were supportive, with several also mentioning areas of concern. In response to these comments, EPA has further refined the examples of product families and the test method for static temperature accuracy, and added notes about areas to be examined in future specification revisions. None of the changes substantially affect the requirements of the specification. These and other comments will be addressed in the comment response matrix which will be released in early January 2017. In addition, EPA uncovered a limited set of errors in the field savings software. As such, Version 1.1 ENERGY STAR CT Field Savings Software correcting these errors will be issued in early January.

All Version 1.0 specification development materials, including all comments submitted on the final draft, are available on EPA's ENERGY STAR website,  
[https://www.energystar.gov/products/spec/connected\\_thermostats\\_specification\\_v1\\_0\\_pd](https://www.energystar.gov/products/spec/connected_thermostats_specification_v1_0_pd)

**Third-Party Certification**

Effective immediately, CT service providers may begin the certification process for CT products. All new products must be certified by an EPA-recognized certification body (CB) before being labeled and marketed as ENERGY STAR. Upon satisfactory completion of all certification

requirements, a CB will notify the Partner that the product is ENERGY STAR certified and will submit certified product data to EPA for listing on the ENERGY STAR website. For more information on the Third-Party Certification program please visit [www.energystar.gov/3rdpartycert](http://www.energystar.gov/3rdpartycert).

Please note that ENERGY STAR partnership as a CT service provider is limited to organizations that own and/or license a brand name under which they sell eligible products in the United States and/or Canada. Partnership is not available to original equipment manufacturers (OEMs), in this case including original service providers that do not sell directly to end-users. OEMs may certify products on behalf of the ENERGY STAR brand owners/licensees; however, the brand owner must be the ENERGY STAR partner associated directly with the certified product models, since only partners are authorized to use the ENERGY STAR certification mark.

On behalf of EPA, I appreciate your participation in the development of this specification and look forward to working with each of you as you certify and promote your energy-efficient products. Please feel free to contact me at (202) 343-9375 and [Daken.Abigail@epa.gov](mailto:Daken.Abigail@epa.gov) or Doug Frazee, ICF, at 443-333-9267 and [Douglas.Frazee@icf.com](mailto:Douglas.Frazee@icf.com) with any questions regarding this specification or the ENERGY STAR partnership. For questions regarding marketing of ENERGY STAR CTs, please contact Dan Cronin at EPA, 202-809-6530 or [cronin.daniel@epa.gov](mailto:cronin.daniel@epa.gov).

Sincerely,



Abigail Daken  
EPA Product Manager  
ENERGY STAR for HVAC