



ENERGY STAR® Program

Smart Home Energy Management Systems Version 1.0

Preview of SHEMS Package Information for ENERGY STAR Product Finder

The table below introduces the types of information which EPA intends to build into the ENERGY STAR Product Finder for SHEMS Packages. This information, once final, would be the official public listing of certified SHEMS packages on energystar.gov.

While most of the information will be collected during the certification process, EPA expects that service provider partners will update some fields periodically as their offerings change. Specifically, updates to required devices which partners market as part of SHEMS packages, and any changes to Demand Response capabilities that will be of interest to utilities and consumers.

EPA encourages partners to submit comments relevant to these fields. EPA would also appreciate comments on any additional important information for packages which would be useful to stakeholders or consumers.

Please send questions and feedback to Smarthomesystems@energystar.gov by July 20th 2019.

Listed information	Options for display	Notes
ENERGY STAR Partner Name	Text	Standard for all ENERGY STAR products
Certification Date	Date	
Package Brand Name	Text	
Communication Standards, Protocols, and Enabling Hardware		
Consumer privacy standards	<ul style="list-style-type: none"> • EU General Data Protection Regulation • California Consumer Privacy Act of 2018 • Other 	Standards leveraged by the service provider to protect consumer data
Cyber security standards	<ul style="list-style-type: none"> • CTA Connected Home Security • ETSI TS 103 645 • Other 	Standards leveraged by the service provider to protect the system from cyber security threats
Communication Standards used by service provider platform	<ul style="list-style-type: none"> • Wi-Fi • Zigbee • DALI • Bluetooth • HomePlug Green PHY • 6LoWPAN • Z Wave • Wired Ethernet • Other 	Standards used inside the home for connection between devices in the platform.
Devices needed for connection	Select all that apply: <ul style="list-style-type: none"> • SHEMS-specific wireless router, gateway, and/or hub • Generic wireless router • Non-SHEMS-specific hub? • CTA-2045 module • Other 	
How does the system connect outside the home	Select all that apply <ul style="list-style-type: none"> • Broadband connection (hardwired internet or wifi) • Cellular connection • Other 	
Package Device Information		
Primary ENERGY STAR Certified Thermostat Product	Link to the relevant ENERGY STAR thermostat product webpage.	
Additional ENERGY STAR Certified Thermostat Product(s)	List of ID numbers	

Primary ENERGY STAR Certified Lighting Product	Link to the relevant ENERGY STAR lighting product webpage.	
ENERGY STAR Certified Lighting Product(s)	ENERGY STAR ID Number(s)	
Plug Load Control/Measurement Offering(s)	Brand name(s) and model number(s) for at least one and up to five offerings meeting the package requirements must be listed on the ENERGY STAR website.	
Plug Load Control/Measurement Offering Type(s)	Select one for each offering: <ul style="list-style-type: none"> • Add-on smart plug • Smart outlet • Smart power strip • Home energy submetering system • Smart electrical panel • Other (describe) 	
Lighting Load Control Device Offering(s)	Brand name(s) and model number(s) for up to three offerings meeting the package requirements to be listed on the ENERGY STAR website.	
Lighting Load Control Device Type(s)	Select one for each offering: <ul style="list-style-type: none"> • Connected light switch • Connected light switch with occupancy sensor • Remote control • Other 	
Compatible Connected Water Heater Product(s)	Brand name(s) and model number(s) for at least one compatible water heater or water heaters control product to be listed on the ENERGY STAR website.	
Water Heater Product Type(s)	Select one for each compatible product: <ul style="list-style-type: none"> • Connected water heater • Connected water heater controller 	
Compatibility with encouraged devices	Select as many as apply: <ul style="list-style-type: none"> • *ENERGY STAR certified EV Service Equipment • Automated window attachments certified by the Attachments Energy Rating Council (AERC) for Energy Performance (EP) – Automation at aercenergyrating.org • *ENERGY STAR certified room air conditioner • *ENERGY STAR certified refrigerators • *ENERGY STAR certified freezers • *ENERGY STAR certified clothes washers • *ENERGY STAR certified clothes dryers • *ENERGY STAR certified pool pumps • *Other (as developed) ENERGY STAR certified products • Battery storage • Solar inverters *Certified to optional connected criteria.	
Partner Website listing of compatible devices	Provide a URL to a more complete description of SHEMS package offering(s) and compatible devices.	Rather than EPA attempting to maintain a complete list of compatible devices, we will link to a page that service providers keep up to date.
Service Information		
Default Schedule Provided	Indicate if the service is automatically configured with a default schedule: <ul style="list-style-type: none"> • Yes • No 	

Options for explicit user control (ways that the users can interact with the system)	<p>Select all that apply</p> <ul style="list-style-type: none"> • Alarm panel • Mobile App • Website • Remote • Touchscreen display • Smart Television integration • Smart Refrigerator display • Persistent device with voice control e.g. voice assistant speaker • Thermostat • Smart light switch • Whole home power switch • Siri • Alexa • Google assistant • Other (describe) 	
Time of use pricing integration description	Short description of the mechanism(s) by which the system can optimize energy use based on a schedule of relative energy prices. e.g. API, user input for of schedule and linked devices.	
Demand response capabilities summary	Short description of DR capabilities. Detailed indication of items to include is in the specification.	
Demand response variations	Describe differences in DR capabilities resulting from potential service/device combinations, in the aspects listed in the demand response summary.	