

ENERGY STAR Data Systems

SNIA Emerald[™] Training Event

RJ Meyers, EPA July 17, 2014



Definitions



- AB: Accreditation Body
- CB: Certification Body
- QPX: Qualified Product eXchange. Specifies data, formatting for CB submissions to ENERGY STAR systems
- QPL: Qualified Product List. Products and associated data displayed on the ENERGY STAR website
 - The QPL is a subset of the QPX data



International Standards



INTERNATIONAL STANDARD

ISO/IEC 17011

> First edition 2004-09-01

Corrected version 2005-02-15 INTERNATIONAL STANDARD

ISO/IEC 17025

> Second edition 2005-05-15

Conformity assessment — General requirements for accreditation bodies accrediting conformity assessment bodies

General requirements for the competence of testing and calibration laboratories



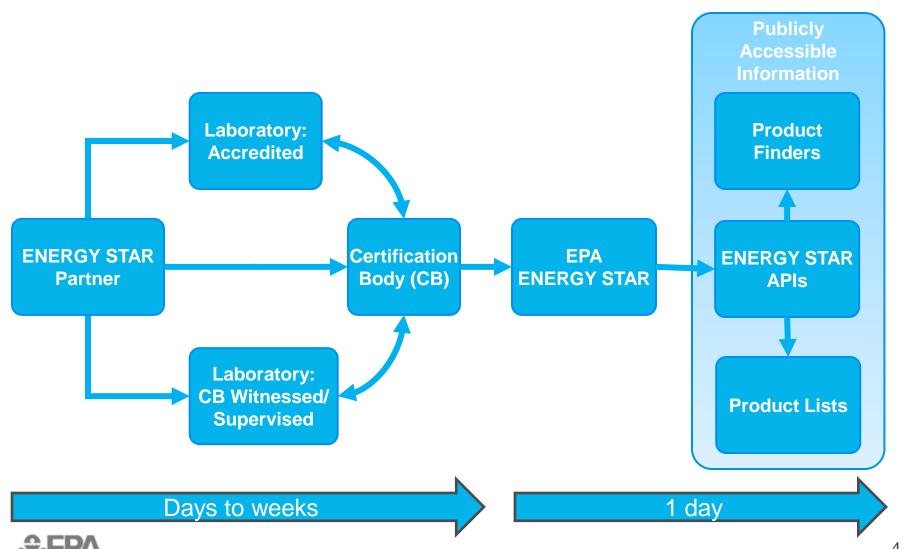
GUIDE 65

General requirements for bodies operating product certification systems



Partner to Product List Process





The Storage QPX



- 530 columns per submission (!)
- CB fills in with data from:
 - Lab: Test results
 - Manufacturer: Product config details, model numbers, etc.
- Contains:
 - General characteristics
 - Electrical characteristics
 - Active and idle power consumption and performance values for all tested configurations
 - Available and enabled power savings features
 - Thermal characteristics and air inlet temperature measurements
 - List of qualified configurations, including SKUs or configuration IDs
- Data entry method:
 - Automation left up to the CBs, manufacturers
 - Only require compatibility with ENERGY STAR system.

Submitting Storage Configs in the QPX



- Single configurations shall have data from one configuration provided in the QPX
- Multiple configurations grouped into a product family shall have data for at least one storage device for each workload type certified in the product family:

Transaction	Streaming	Capacity
Optimization	Optimization	Optimization

 For product families, all required testing configurations are reported in the same data submission

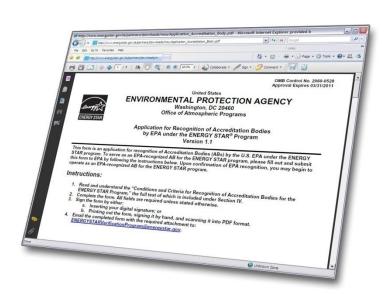


EPA Recognition



 EPA accepts and reviews applications for recognition on an ongoing basis

 All ABs, CBs, and Labs require EPA recognition







The ENERGY STAR Products API



How Data is Clustered



Data targeting increasing





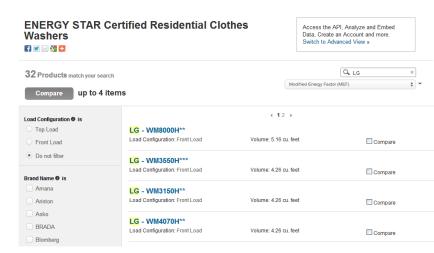
Product Finder Tool Overview



- Public-facing tool consumers, retailers, utilities and other stakeholders use to access product data
- www.energystar.gov/productfinder

Partner Benefits:

- Provide better access to EPA product data for all stakeholders
- Improve the ability to find product data
- Improve data quality
- Model data updated daily
- Models searchable by brand, model name, model number, additional information

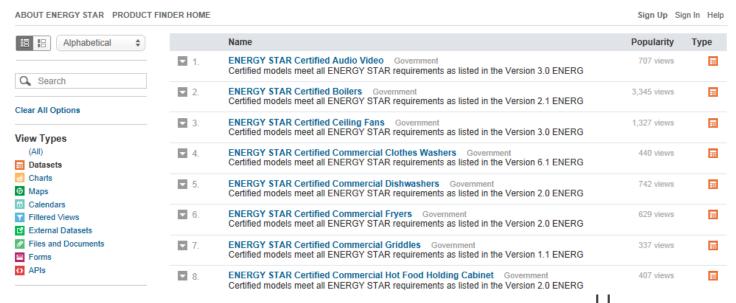




Product Lists Overview



- Updated daily
- Custom filters and embed options for retailers, partners, media
- Export options including Excel, .csv, APIs
- One portal where stakeholders access certified products*
 data.energystar.gov *Excludes Windows, Non-AHRI CAC/ASHPs, and BCS





API Overview



- All product list fields available via APIs
- Intended users:
 - Energy efficiency program sponsors
 - Retailers
 - Third-party use for mash-ups of data
- "We eat our own dog food"
 - ENERGY STAR product finders use APIs



Advanced View Features



- Create account to save and share work
- Filter lists
- Create visuals (pie charts, bar graphs, etc)
- Embed filtered data or visual
- Export data
- Learn more in the How to Create Data Visualizations Guide at energystar.gov/productfinder



Changes to Datasets: Timeline for Revised Specifications



Month 1 Month 5 Month 9 **Specification Specification Finalized Effective CBs Start CBs Stop Certifying to Certifying to New Spec Old Spec Upcoming** Product List = **Upcoming** Product List = Product List = **Product List** Old + New **Product List New Spec Old Spec Available** Available (old on archive tab) Spec 2 Month Notice: 2 Month Notice: Change Change Adding New **Removing Old Process Starts Process Ends** Spec Fields **Spec Fields**



Resources



- energystar.gov/productfinder
 - Product finder tools
 - Guide on creating filters and visuals
 - Macro for segmenting additional models
- data.energystar.gov
 - Product lists and API field names
 - EPA-created filters, charts, and graphs
- data.energystar.gov/developers
 - ENERGY STAR Products API essentials
 - Getting started with APIs
- ENERGY STAR Products API Google Group
- @ESProductAPI



Open Discussion on Data Entry Process





Thank You!



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