



ENERGY STAR®

Set-top Box Specification Revision

Final Draft Versions 3.0 and 4.0

Stakeholder Meeting

10 December 2010



Agenda



1. Welcome / Goals

Katharine Kaplan, US EPA

2. Final Draft Specification Changes

Steve Pantano, ICF International

Tom Bolioli, Terra Novum

3. Wrap-up & Conclude

Katharine Kaplan, US EPA

Service Providers: Thin-clients



- Minor change to SP Partner Commitments regarding thin-client devices. Changed from “At every opportunity...” to “Where appropriate, install ENERGY STAR-qualified thin-client set-top boxes in Multi-room configurations, to minimize the number of DVRs deployed to subscribers.”

Specification: Deep Sleep



- Additional basic requirements for Deep Sleep state have been added:
 - For a power state to qualify as a Deep Sleep, measured power consumption shall be less than or equal to 15% of the power consumption in On Mode as measured per the for “Watching Live TV”, or 3.0 watts, whichever is greater.
 - A means of manually activating Deep Sleep shall be accessible to the end user via a dedicated button or switch on the remote control and/or the front face of the STB.
- EPA does not intend to develop more specific, prescriptive requirements for Deep Sleep at this time.

Specification: Definitions



- The Home Network Interface definition has been modified to be inclusive of all networking technologies with the exception of IEEE 802.3 wired Ethernet. This change provides flexibility for manufacturers to claim power allowances for high-bandwidth networking protocols.
- The definition for “Cable/Satellite DTA” has been changed to “Cable DTA”, since any Satellite device that does not receive content directly from head-end equipment would be classified as a Thin Client.

Specification: Allowances



- Version 4.0 base functionality and additional functionality allowances have been updated in response to stakeholder input.
- Additional functionality rules for DTAs have been modified to allow DTAs with high definition output capability to claim the HD adder.

Specification: Allowances



Base Functionality	Version 3.0 Allowance (kWh/year)	Version 4.0 Allowance (kWh/year)
Cable	60	45
Satellite	70	50
Cable DTA	35	25
Internet Protocol (IP)	45	25
Terrestrial	22	18
Thin-client / Remote	35	20
Additional Functionality	Version 3.0 Allowance (kWh/year)	Version 4.0 Allowance (kWh/year)
Advanced Video Processing	12	8
CableCARD	15	15
Digital Video Recorder (DVR)	45	36
DOCSIS®	20	15
High Definition (HD)	25	16
Home Network Interface	10	8
Multi-room	40	30
Multi-stream – Cable/Satellite	16	8
Multi-stream – Terrestrial/IP	8	6
Removable Media Player	8	8
Removable Media Player / Recorder	10	10

Note: Highlighted allowances have been modified from Draft 2.

Specification: Testing



- Threshold for testing of multiple units for qualification has been reduced from 10% to 5%, to better align with manufacturer-supplied data about expected unit-to-unit variations in test results.
- Test Method has been revised to clarify test requirements for thin client or remote devices in a multi-room configuration.

Specification: Effective Date



- Both the Version 3.0 and 4.0 specification levels will be considered final at this time.
- EPA will evaluate the need for changes to Version 4.0 in early 2012. If a revision is warranted, stakeholder process will complete no later than October 1, 2012 to meet the July 1, 2013 effective date.

Next Steps for STBs



- Visit the STB Product Development Web site at www.energystar.gov/RevisedSpecs
- Send comments on the Final Draft and this presentation to STBs@energystar.gov by Monday, December 20
- The Final specification will be distributed the week of January 3, 2011
- Contact ENERGY STAR with further questions or comments

Open Discussion



Questions?

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