Desktop Platforms
ITI feedback on V5.0 Draft 2 Spec

Agenda/Overview

- Desktop Categorization Proposal
- ITI Feedback on Draft 2 Specification
  - Dataset
  - Network Proxying, need more details
  - Test Procedure Questions
  - Issues with Current Categorization

ITI Comments on Draft 2 Categorization

- Integrated graphics computers
  - Cat A serves as a catch all and isn't reflective of a mainstream integrated graphics platform
  - Huge spread in capability (and idle power 20W-70W)
  - In keeping with v4.0 specification we need entry and mainstream delineation

- Cat C configurations are not a clear extension of Cat B
  - Cat C doesn't require discrete graphics, yet Cat B does → inconsistent
  - Submitted and industry data shows most platforms ship with 1 hard drive → should not be used as a category definition

Goals for Desktop Categorization Proposal

- Using three categories that are very similar to version 4
  - Preserves understanding that has been acquired in the industry
  - TEC is still there

- Using simple delineators between categories based on real usage/capabilities
  - Biggest differentiators in capability (and power) is cpu cores and discrete graphics

Following proposal more closely matches shipping platforms and may even allow for tighter TEC limits

ITI Desktop Categorization Proposal

- Category A → All Other Systems

- Category B → Mainstream Desktop
  - Greater than or equal to 2 cores
  - Greater than or equal to 2 GB of system memory

- Category C → Performance Desktop
  - Greater than or equal to 2 cores
  - Greater than or equal to 2 GB of system memory
  - Discrete Graphics

Functionality Allowances

- A small number of functionality allowances for important platform capabilities preserves user experience features beyond any categorization

- Proposed Functionality Allowances
  - Industry can come back with data to support TEC allowances to the category

  - TV Tuner Support   Allowance = TBD
  - Storage (HDD/SSD) Support   Allowance = TBD
  - Additional 1GB Memory   Allowance = TBD
  - Premium/High Perf. Graphics   Allowance = TBD

Corrections Needed in Data Set

- Some industry submitted data needs to be corrected
  - Incorrect core counts in several records
  - Incomplete graphics information for both integrated and discrete entries
    - Some rows misclassified as Cat B and they were integrated graphics
    - Many records had missing descriptors
  - Duplicate system entries for the same model tested at both 115V and 230V – skews the 25% cut off mark

These issues change how platforms were classified and can be shown to skew the Energy Star TEC limits

Network Proxying Provisions

- Network Proxying
  - Industry likes the direction but has concerns with including proxying due to lack of details
  - Included links in the draft specification are broken

Industry needs more information on proxying requirements before they are comfortable including it with Version 5.0 specification

Test Procedure Clarification

- Test Procedure Clarification Needed
  - Include instructions for computers that do not have Ethernet
  - Describe any restrictions in common device/platform power management settings
    - Hard disk spindown as an available power savings option?
    - Display blanking for desktop, desire to have consistent testing with all other client systems (Notebooks and all-in-one systems with integrated displays)

Consistent testing methods across all client platforms simplifies testing and development of automation