Intel Corporation

July 27, 2010

Dear Energy Star,

Please see the following for comments on the service provider proposal to be received by July 30, 2010

Item 3 on page 4:

- "The "Additional Tuner" allowance has been re-named "Multi-stream," and is available for use with IP base types that process multiple simultaneous video streams without a physically separate tuner. "

Background:

Perceived definitions

- "Tuner" refers to a RF tuning sub-system of a DTV/DSTB, and can cover the RF spectrum (Ex. Terrestrial and Satellite)
  - They are mainly composed of a Tuner Can and a Demod unit.
  - These are physical devices that consume power.
  - Each additional "Tuner" draws more power.
  - Have the ability to be power managed (a.k.a. turned On & Off)
  - "Tuners" can be found on all of the "base functionally" units including IP type
- "Multistream", the ability to handle and route multiple streams of AV content to various outputs.
  - "Multistream" is the input of AV streams of content (Ex. Transport Streams) and the output to one or multiple sources (Ex. FP Display, HDMI Out, composite video out, L/R Analog audio out, etc.).
  - The multiple streams of content can come from many sources such as; "Tuner," IP, Storage (mem cards, HDD, SSD, CDROM, DVD, BluRay, etc. in any combination.
  - It is primarily an AV routing function involving SW & some HW, and relatively draws very little power

Given the above;

"Multistream" can be a confusing term. It is not well defined, when assuming it to mean the routing of multiple streams of AV from multiple inputs to multiple outputs.

Recommendation for Consideration

- Retain "Additional Tuners' terminology as is due to their physical nature (Power requirements, HW scalability, and power control capabilities) and their effect on the power budget for platforms.
- Add a new category called "Multistream" if it can be explicitly defined, specifically in terms of HW and Power. Otherwise the "Advanced Video Processing" category may be better fit than the "Tuner" category

Edward Butler