



Broadcom Comments

on

ENERGY STAR[®]

**Product Specification
for**

- **Set Top Boxes
Version 4.1
Final Draft**

Ref: Final Draft Version 4 1 Set-top Box Specification.pdf

Broadcom Corporation
5300 California Avenue
Irvine, California, USA 92677
Phone: 949-926-5000
Fax: 949-926-5203

Web: www.broadcom.com

Stakeholder,

Broadcom is a leading chip manufacturer of multiple technologies covered by the final draft version of the v4.1 Set Top Box specification. We implement SoCs (System on Chips) that integrate Cable, Satellite, Wide-Band tuners, MoCA, Ethernet, Wi-Fi and/or numerous other technologies covered in the upcoming specification. As such, we play an integral role in the end products ability to meet the proposed energy consumption levels. To that end, we provide power and capabilities of our SoC to many STB manufactures so they can adequately respond to the request for comments.

Broadcom would like to share a few final comments regarding the January 2014 final draft Version 4.1 ENERGY STAR® Product specification for Set Top Boxes.

On the following pages, you will find proposed changes and some general comments on the overall specification document.

We would appreciate that you consider Broadcom's comments as you finalize the ENERGY STAR® Product specification for Set Top Boxes.

Best regards,

Broadband Communications Group
Broadcom Corporation

Section 3.3.3 (Line #274)

Section 3.3.3 (ii) mentions that HNI and MIMO Wi-Fi HNI are the **only additional allowances** that may be applied to STBs with Thin Client/ Remote functionality.

However many manufacturers are designing client boxes with HEVC and UltraHD functionality. These client boxes require additional processing power for decoding UltraHD resolution HEVC streams and displaying it to an UltraHD output. We believe that the current base allowance of 30KWh/year does not take this additional processing power into consideration. The additional allowance for HEVC and UltraHD should be consistently applied to all STB types that support those features.

Hence, we recommend that the additional allowance for HEVC and Ultra HD be allowed for STB with Thin Client/Remote Functionality.