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Consumer Electronics Association

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ENERGY STAR
STB Tier 2

Industry-Wide Issues - Effective Date of Specs

- Effective date month must be aligned with production cycles.
 - July is a more appropriate month than currently proposed January.
- Effective date year must be aligned with availability of chip sets and other necessary power saving control features.
 - 2013 is a more realistic year than the currently proposed 2011



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Industry-wide Issues – Client/Server Architecture

- Server/Client architecture quickly emerging.
- This new architecture will require a huge, multifaceted effort that includes new software and hardware.
- Industry ability to integrate strict energy limits on evolving architecture will be limited.



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Industry-wide Issues – Client/Server Architecture

- The “Tier 2 Home Network Allowance” must support differing technologies
 - HomePlug (P1901) Allowance - ?? KWH/y
 - MoCA 1.X Allowance - ?? KWH/y
 - Wi-Fi (802.11a/b/g/n) - ?? KWH/y
 - Wired Ethernet 10/100/1G(802.3) - ?? KWH/y
 - Wireless HDMI (UWB)(802.15) ?? KWH/y
 - Zigbee (IEEE 802.15.4) ?? KWH/y

Industry-wide Issues – Client/Server Architecture

- The “Tier 2 Additional Tuners” allowance must reflect that their might be a central STB that may have many (e.g. 3 to 10) tuners
 - First Two (2) satellite or cable tuners - 16 KWH/y
 - Each additional satellite or cable tuner – 16KWH/y
 - Other...

Industry-wide Issues – Client/Server Architecture

- Explore a temporary carve-out for client/server architecture as technology evolves?



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Industry-wide Issues

Emerging Features

- HW Assisted Place Shifting
- 1080P 24/60 Advanced Image Processing
- 3DTV Support
- Internet content aware (Web Browser)
- Trans-coding
- Follow-me TV
- Network device management (Network controller)
- Network diagnostics
- Multi-room and PIP at the same time
- RUI support to clients
- Network directory management (content server aggregation)
- RF emotes
- EAS receiver (Emergency Alert support including CAP, including always on receiver)
- Caller ID features
- Accessibility (audio decoders, menu reader, data stream merging)
- Smart Grid support
- ATSC /H



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Satellite-specific Issues

Tier 2 Base Allowance

- Tier 2 Base Allowance was calculated base on an assumed 3W standby mode power level.
- The minimal standby mode power level required to maintain minimal communication with the satellite (as is required by both major satellite MSOs in the USA) is 8 Watts.
- The “Satellite Tier 2 Base Allowance” must be recalculated based on a standby power level of 8W instead of the original assumption of 3W



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Cable-specific Issues

TBD Base Allowances

- The Tier 2 Cable Card Allowance is undefined
 - Cable Card M1 (one-way) allowance
 - Cable Card M2 (two-way) allowance
- The Tier 2 DOCSIS Allowance is undefined
 - DOCSIS 1.0/2.0 allowance
 - DOCSIS 3.0 allowance
- Other items?

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