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.
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.
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 there 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?
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 remotes
- 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 based 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
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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