

Resolution of the Steering Committee of the Voluntary Agreement for Ongoing Improvement to the Energy Efficiency of Set-Top Boxes

Adopted by the Steering Committee December 13, 2016

Whereas Annex 11 of the Voluntary Agreement provides for the establishment of additional allowances for new features;

Whereas this new feature process is intended to encourage innovation, competition and energy efficiency by design, by providing a transparent path for Signatories to seek new allowances that enable them to innovate and add new features without violating their commitments under the Agreement;

Whereas a Signatory invoked this process in its 2015 annual report submitted in 2016, triggering the requirement for the Steering Committee to establish new allowances for such features;

Whereas the Steering Committee engaged a subcommittee of technical experts to propose allowances based upon their best estimates of the energy consumption required for systems incorporating the new features to meet the Voluntary Agreement levels;

Whereas the Steering Committee has reviewed and concurred with the expert recommendations;

Now, therefore, be it RESOLVED that the Steering Committee adopts the following Tier 2 New Feature Allowances, effective January 1, 2016:

Definitions

1. Ultra High Definition – 4K (UHD-4): The capability to transmit or display video signals with a minimum output resolution of 3840×2160 pixels in progressive scan mode at minimum frame rate of 24 frames per second (“2160p24”).
2. High Efficiency Video Processing (HEVP): Video decoding providing compression efficiency significantly higher than H.264/AVC, for example HEVC (H.265).
3. Telephony: The ability to support analog telephone service through one or more RJ11 or RJ14 jacks.

New Feature Allowances

Additional Functionality	TEC Allowance (kWh/year)
High Efficiency Video Processing (HEVP)	10
Ultra High Definition – 4K (UHD-4)	5
Telephony	4

Additional Rules Related to the New Features

1. **DTA** base type shall be able to use the **UHD-4** and **HEVP** allowances in addition to **HD**, **AVP**, and **HNI** if applicable.
2. **TC** base type shall be able to use the **UHD-4**, **HEVP**, and **RTG**¹ allowances in addition to **HD**, **AVP**, **HNI**, **WiFi HNI**, **MoCA HNI**, and **MIMO WiFi** if applicable.
3. **UHD-4** can be taken once per **STB**, and can be taken in addition to the **HD** allowance.
4. **HEVP** can be taken once per **STB**, and can be taken in addition to the **AVP** allowance.

Additional Test Requirements Related to the New Features


1. **STBs** claiming an allowance for Ultra High Definition – 4K (**UHD-4**) must be tested with **UHD** content when performing the 8.2.2.1 **ON** (Watch TV) procedure.
2. **STBs** claiming the Telephony allowance must be tested with the telephone service activated, a phone connected, dial tone verified, and the phone is then left on hook for the test.
3. Thin Clients claiming the **RTG** allowance must be tested with routing enabled.

Application to Tier 1

1. In accordance with § 6.2.2 of the Agreement, the Tier 2 allowances adopted herein may be subtracted from Tier 1 test results without submitting additional documentation of the incremental power consumption of the feature.

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I, Mark Hess, hereby certify that the foregoing resolution was adopted by the Steering Committee by unanimous consent, in accordance with its bylaws at its meeting on December 13, 2016.



Mark Hess
Chairman

¹ When a Set-Top Box or Thin Client is capable of mesh networking functionality that extends Wi-Fi Internet access associated with a residential High Speed Data service throughout a home, the **RTG** allowance can also be used.