**Draft JCTVC Call-for-Content**

1. **Introduction**

In the Daegu JCT-VC meeting, it was decided to establish a new Class “F“ of video content, in addition to the existing A, B, C, D and E classes, for screen content (non-camera captured) video. It will be used primarily for the investigation and development of efficient screen content coding (SCC) tools.

It is envisioned that screen content can be

1. video content with text overlay, running banner, crawling/scrolling text, etc.
2. Alpha blending
3. Presentation with various transition effects
4. Word editing with scrolling, window switching, effects, and with various font size, effect, equation, graphics, etc.
5. document reading such as pdf, ebook, etc.
6. Web page
7. game

While coding tools have been introduced into HM to achieve increasingly better coding performance on Class A, B, C, D and E content under the general testing condition, it is anticipated that Class F content has new challenging characteristics that additional SCC tools can be introduced to achieve high coding efficiency in all classes.

While general coding tool experiments will continue to apply the general test conditions on Class A, B, C, D, and E content, the plan is to perform SCC coding tool experiments by applying both (1) the general test conditions on Class A, B, C, D and E content, and (2) dedicated Class F conditions on Class F content. SCC tools in HM should have low complexity, improved HM performance in Class F content and negligible sacrifice of HM performance in Class A, B, C, D and E.

It is anticipated that SCC coding tools may need additional evaluation metric in addition to PSNR.

Timeline:

* Materials received between Jan 29, 2011 and Mar 8, 2011 will be reviewed during the Mar 2011 JCTVC meeting

Submission procedure

* Test material must be accompanied by

1. a copyright statement with information about terms of usage such as permission and date (See note 1)
2. description of content
3. coding result on submitted content using latest HM software, test conditions (i.e. Intra, Random Access, Low Delay, Low Complexity, High Efficiency) and Class A, B, C, D, E content

* Password-protected ftp site will be set up for upload and download. Passwords are available upon request to the JCTVC Chairs.
* Again, materials received between Jan 29, 2011 and Mar 8, 2011 will be reviewed during the Mar 2011 JCTVC meeting

*Note 1: Please consider to clarify conditions and copyrights under which the sequences can be transferred to be used by MPEG and its members, or by other bodies that may cooperate with MPEG in the development of standards. It is generally not necessary to transfer the ownership to MPEG. However, we would prefer allowance of usage in the context of our work that is as unlimited as possible. Please clarify any restrictions that may apply, as these shall be documented in MPEG’s database of test materials. If needed, the above contact is able to provide you with a copyright agreement that has been used in similar cases in the past.*

1. **Test material sought**

Suitable test materials for the development of SCC tools are sought. The following attributes are the main focus for the test materials.

Color space can be YUV420, YUV444, or RGB.

Resolution can be any resolution in Class A, B, C, D, and E.

Bit depth can be 8 bit or 10 bit.

Duration should be at least 10 sec at any existing frame rate in Class A, B, C, D, and E.

The content should be progressively scanned.

The sequences should be captured with state-of-the-system and the screen content should have negligible coding artifacts from prior coding, if any.

The test materials should cover a large variety of characteristics and content type that will be challenging for a typical video codec. The following are some possible examples:

* Sophisticated graphical user interface
* Rapid window switching
* Highly repeatable font with well-defined curvatures
* Fast and complicated graphics and rendering in games and web pages
* Slow and regular illumination changes
* Flash
* Transition effects including cross-fade, wipe, etc.

3) **Logistics**

Prospective contributors of test sequences should refer to the JCTVC Chairs:

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