3GPP TSG-SA Codec Working Group TSG-S4#12: September 4-8, 2000, Bethesda, Maryland, USA TSGS4#12(00)0441

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Title:	Proposed LS to MPEG-4 regarding 3G-324M
Document for:	Information and Approval
Agenda Item:	7.4.3

3GPP TSG-SA WG4 thanks ISO/IEC JTC 1/SC 29/WG 11 for establishing contact with TSG-SA WG4 by sending the liaison statement (**N3443**). TSG-SA WG4 is highly interested in the exchange of TSG-SA WG4's current requirements regarding video coding by MPEG-4 standard. Enclose you will find the current status and the requirements in details.

## 1. Overview

3GPP TSG-SA WG4 standardized the 3GPP video phone (3G-324M) in its recommendations TS26.111 and TR26.911. The 3GPP video phone specification is derived from ITU H.324M recommendation.

TSG-SA WG4 recommends the mandatory usage of the video codec ITU H.263. In addition it is also allowed the optional usage of the video codec ISO MPEG-4 visual simple profile level 1, however due to very limited resources of mobile handsets / terminals TSG-SA WG4 decided to usage only a subset of the ISO MPEG-4 visual simple profile level 1 capabilities. This MPEG-4 visual simple profile is defined as level 0 within 3GPP specification.

In order to achieve interoperability between all kinds of terminals TSG-SA WG4 kindly asks MPEG-4 to introduce a new level (e.g. level 0) to the visual simple profile suit. TSG-SA WG4 will sent representatives to the upcoming MPEG4 meetings in order to actively support the required work with this issue.

## 2. Proposed Capabilities for ISO MPEG4 visual simple profile level 0

- a) The maximum frame rate shall be 15 frames per second.
- b) The maximum f-code value shall be 1.
- c) The intra\_dc\_vlc\_threshold shall be 0.
- d) The maximum horizontal luminance pixel resolution shall be 176 pels/line.
- e) The maximum vertical luminance pixel resolution shall be 144 pels/VOP.

In order to allow signalling via H.245 control protocol TSG-SA WG4 introduced a placeholder for the MPEG-4 visual simple profile level 0 within "Table G-1 -- FLC table for profile\_and\_level\_indication" in "ISO/IEC JTC 1/SC 29/WG 11 N 2502. Currently this placeholder is filled with '11110000'. TSG-SA WG4 is aware that this value may change, e.g. to '0000.0000'.

## 3. Summary

3GPP TSG SA WG4 kindly asks MPEG4 to include a new level to the visual simple suit in order to support MPEG4 visual codec in mobile terminals. TSG-SA WG4 would appreciate if MPEG4 could consider the restrictions of sec. 2. However due to the very short time schedule, TSG-SA WG4 would appreciate if MPEG-4 could consider this liaison statement, in particular about the level 0 properties and the level 0 profile\_and\_level\_indication value, by Oct. 25<sup>th</sup>, 2000 and respond as soon as possible.

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