

From: Rodriguez, Arturo A <Arturo.Rodriguez@sciatl.com>
Sent: Wednesday, September 25, 2002 6:03 PM
To: 'jvt-experts@mail.imtc.org '
Subject: [jvt-experts] RE: Question about chroma_location_flag

Chroma positioning in the subsampling from 422 to 420 for interlaced pictures differs among implementations.

Mode 3 represents subsampling with an odd number of taps on top field, and an even number of taps in bottom field.

Mode 2 represents subsampling with even number of taps in top field and odd number of taps in bottom field.

Absent is a mode that reflects even number of taps on both fields. Some subsampling implementations employ even number of taps on both fields.

IMO (and others), this particular mode should be added. It is convenient and facilitates transparent upsampling to 422 (at the output/display) when encountering transitions between progressive and interlace pictures.

Others can comment.

Arturo

-----Original Message-----

From: Hidenobu Miyoshi
To: jvt-experts@mail.imtc.org
Sent: 9/25/2002 4:17 AM
Subject: [jvt-experts] Question about chroma_location_flag

Dear Experts,

I have some questions about chroma_location_flag defined in section E.3.

1) If chroma_location_flag is enabled, two parameters

- chroma_location_frame
- chroma_location_field

follow.

In case of frame coding mode, there is still chroma_location_field field?

And in case of field coding mode, there is still chroma_location_frame field?

If both exist, how about the usage?

2) In Figure E-2, the position of luma and chroma are shown.

In mode 3, the position of chroma sample in Top and bottom fields are the same position. Is this realistic?

If I am wrong, please correct me.

At last, is the title of Table E-7 correct?
This table specifies the mode for field, however, the title is
"Chroma Sampling Structure Frame"

Best Regards,
Hidenobu Miyoshi

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MIYOSHI Hidenobu

FUJITSU LABORATORIES LTD.
RESEARCH CENTER FOR BROADBAND TECHNOLOGIES

TEL:DID.+81-44-754-2639 Ext.7112-6242
FAX:DID.+81-44-754-2347 Ext.7112-3822
e-mail : h-miyoshi@jp.fujitsu.com
miyoshi@flab.fujitsu.co.jp

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