

The MEDIATEK logo is displayed in white, uppercase letters within an orange parallelogram shape that is tilted to the right.

**MEDIATEK**

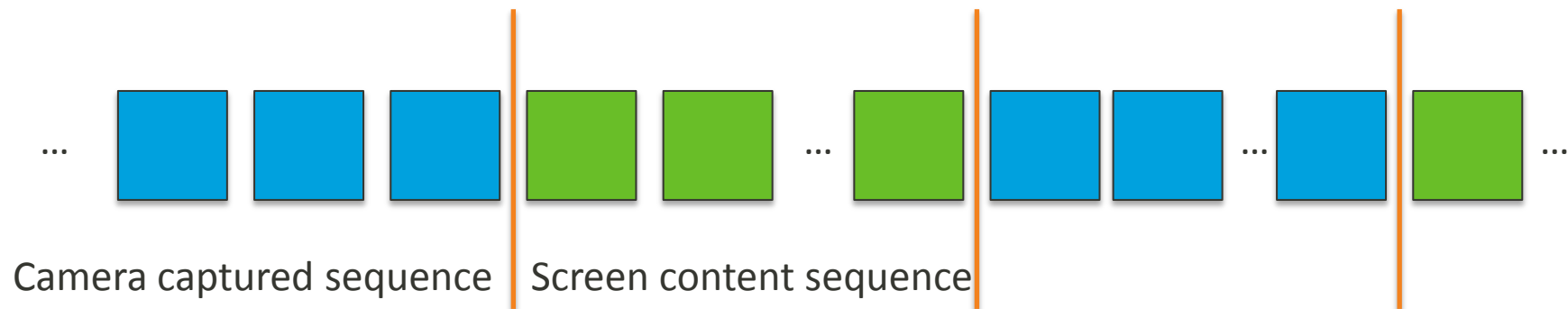
**JCTVC-U0083**

# **On indication of the use of current reference picture**

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# Use case and requirement



- Requirement
  - Many times, picture level indication of including the current picture in a reference picture list
- Use case
  - e.g. scene changes

# Proposed methods (1/2)

pps_scc_extension() {	Descriptor
residual_adaptive_colour_transform_enabled_flag	u(1)
...	
curr_pic_as_ref_enabled_flag	u(1)
}	

sps_scc_extension() {	Descriptor
<del>curr_pic_as_ref_enabled_flag</del>	<del>u(1)</del>
palette_mode_enabled_flag	u(1)
...	
}	

- Modification 1:  
Move syntax element curr\_pic\_as\_ref\_enabled\_flag to pps\_scc\_extension

# Proposed methods (2/2)

slice_segment_header( ) {	<b>Descriptor</b>
...	u(1)
if( !dependent_slice_segment_flag ) {	
...	
if( curr_pic_as_ref_enabled_flag )	
curr_pic_in_ref_list_flag	u(1)
...	
}	
...	
byte_alignment( )	
}	

- Modification 2: Add a syntax element curr\_pic\_in\_ref\_list\_flag in slice segment header
  - The curr\_pic\_in\_ref\_list\_flag present in slice segment headers of a coded picture shall be an identical value either 0 or 1 for all the slice segment headers of a coded picture.

# Conclusions

- Summary
  - Proposed two modifications related to `curr_pic_as_ref_enabled_flag` (in PPS and Slice segment header)
- Recommendations
  - Include one of the proposed methods in HEVC SCC

**Thank you for your attention!**