|  |  |
| --- | --- |
| **Joint Collaborative Team on 3D Video Coding Extensions**  **of ITU-T SG 16 WP 3 and ISO/IEC JTC 1/SC 29/WG 11**  10th Meeting: Strasbourg, FR, 18–24 Oct. 2014 | Document: JCT3V-Jxxxx |

|  |  |  |  |
| --- | --- | --- | --- |
| *Title:* | **Removal of redundant VSP candidates in Merge mode** | | |
| *Status:* | Input document | | |
| *Purpose:* | Proposal | | |
| *Author(s) or Contact(s):* | Jin Young Lee, Min Woo Park, and Chanyul Kim | Email: | [jinyoung79.lee@samsung.com](mailto:jinyoung79.lee@samsung.com) |
| *Source:* | Samsung Electronics Co. Ltd. | | |

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

# Proposed Text

I. 8.5.3.2.2 Derivation process for luma motion vectors for merge mode

...

7. The merging candidate list, extMergeCandList, is constructed as follows:

i = 0  
 if( availableFlagT )  
 extMergeCandList[ i++ ] = T  
 if( availableFlagD )  
 extMergeCandList[ i++ ] = D  
 if( availableFlagIvMC && ( !availableFlagT  | |  differentMotion( T, IvMC ) ) )  
 extMergeCandList[ i++ ] = IvMC  
 N = DepthFlag ? T : IvMC  
 if( availableFlagA1 && ( !availableFlagN  | |  differentMotion( N, A1 ) ) )  
 extMergeCandList[ i++ ] = A1 if( availableFlagB1 && ( !availableFlagN  | |  differentMotion( N, B1 ) ) )  
 extMergeCandList[ i++ ] = B1 if( availableFlagVSP && !ic\_flag && iv\_res\_pred\_weight\_idx = = 0 && i < ( 5 + NumExtraMergeCand ) )  
 extMergeCandList[ i++ ] = VSP

if( availableFlagB0 )  
 extMergeCandList[ i++ ] = B0 if( availableFlagIvDC && ( !availableFlagA1  | |  differentMotion( A1, IvDC ) ) &&   
 ( !availableFlagB1  | |  differentMotion( B1, IvDC ) ) && ( i < ( 5 + NumExtraMergeCand ) ) )  
 extMergeCandList[ i++ ] = IvDC  
  
 if( availableFlagA0 && i < ( 5 + NumExtraMergeCand ) )  
 extMergeCandList[ i++ ] = A0 if( availableFlagB2 && i < ( 5 + NumExtraMergeCand ) )  
 extMergeCandList[ i++ ] = B2 if( availableFlagIvMCShift && i < ( 5 + NumExtraMergeCand ) &&  
 ( !availableFlagIvMC  | |  differentMotion( IvMC, IvMCShift ) ) )  
 extMergeCandList[ i++ ] = IvMCShift  
 if( availableFlagIvDCShift && i < ( 5 + NumExtraMergeCand ) )  
 extMergeCandList[ i++ ] = IvDCShift  
 j = 0  
 while( i < MaxNumMergeCand ) {  
 N = baseMergeCandList[ j++ ]  
 if( N != A1 && N != B1 && N != B0 && N != A0 && N != B2 )  
 extMergeCandList[ i++ ] = N  
 }

...



# Patent Rights Declaration(s)

**Samsung Electronics Co. Ltd. may have IPR relating to the technology described in this contribution and, conditioned on reciprocity, is prepared to grant licenses under reasonable and non-discriminatory terms as necessary for implementation of the resulting ITU-T Recommendation | ISO/IEC International Standard (per box 2 of the ITU-T/ITU-R/ISO/IEC patent statement and licensing declaration form).**