**JCTVC-N0199 - Syntax and Semanics for Adoption**

|  |  |
| --- | --- |
| vps\_extension\_vui( ) { | Descriptor |
| … |  |
| for( i = 1; i <= vps\_max\_layers\_minus1; i++ ) |  |
| for( j = 0; j < i; j++ ) { |  |
| if(direct\_dependency\_flag[ i ][ j ]) |  |
| **reflayer\_tile\_boundaries\_aligned\_flag**[ i ][ j ] | u(1) |
| } |  |
| … |  |

**reflayer\_tile\_boundaries\_aligned\_flag**[ i ][ j ] equal to 1 indicates that, when any two samples of a picture in an access unit belonging to the layer with nuh\_layer\_id equal to layer\_id\_in\_nuh [ i ], belong to one tile, the collocated samples, if any, in another picture in the same access unit belonging to the layer with nuh\_layer\_id equal to layer\_id\_in\_nuh [ j ] belong to one tile, and when any two samples of a picture belonging to the layer with nuh\_layer\_id equal to layer\_id\_in\_nuh [ i ], belong to different tiles, the collocated samples in another picture belonging to the layer with nuh\_layer\_id equal to layer\_id\_in\_nuh [ j ] shall belong to different tiles. reflayer\_tile\_boundaries\_aligned\_flag[ i ][ j ] equal to 0 indicates that such a restriction may or may not apply for pictures belonging to layer with nuh\_layer\_id equal to layer\_id\_in\_nuh [ i ] and layer with nuh\_layer\_id equal to layer\_id\_in\_nuh [ j ]. When reflayer\_tile\_boundaries\_aligned\_flag[ i ][ j ] is not present it is inferred to be equal to 0.

It is a requirement of bitstream conformance that when reflayer\_tile\_boundaries\_aligned\_flag[ i ][ j ] is equal to 1 the value of tiles\_enabled\_flag for the active PPS of the layer with nuh\_layer\_id equal to layer\_id\_in\_nuh [ i ] shall be equal to 1 and the value of tiles\_enabled\_flag for active PPS of the layer with nuh\_layer\_id equal to layer\_id\_in\_nuh [ j ] shall be equal to 1.