**temporal\_id** specifies a temporal identifier for the NAL unit. The value of temporal\_id shall be the same for all VCL NAL units of an access unit. When an access unit is a RAP access unit, temporal\_id for all VCL NAL units of the access unit shall be equal to 0. When nal\_unit\_type is equal to 3, temporal\_id shall not be equal to 0.

The temporal\_id of an access unit is derived as equal to the temporal\_id value of the VCL NAL units in the access unit.

For a non-VCL NAL unit, the value of temporal\_id shall be equal to the minimum value of the temporal\_id values of all access units the non-VCL NAL unit applies to. When nal\_unit\_type is equal to 26 (sequence parameter set), temporal\_id shall be equal to 0. When nal\_unit\_type is equal to 29 (access unit delimiter) or 30 (filler data), temporal\_id shall be equal to the temporal\_id of the access unit containing the non-VCL NAL unit. When nal\_unit\_type is equal to 27 (picture parameter set) or 28 (adaptation parameter set), temporal\_id may be less than, equal to, or greater than the temporal\_id of the containing access unit. When nal\_unit\_type is equal to 31 (SEI), temporal\_id shall not be less than the temporal\_id of the containing access unit.

NOTE 6 – When nal\_unit\_type is equal to 26 (sequence parameter set), temporal\_id must be equal to 0, as a sequence parameter set applies at least to a RAP access unit. When nal\_unit\_type is equal to 29 (access unit delimiter) or 30 (filler data), temporal\_id must be equal to the temporal\_id of the access unit containing the non-VCL NAL unit, as access unit delimiter or filler data only applies to the containing access unit. When nal\_unit\_type is equal to 27 (picture parameter set) or 28 (adaptation parameter set), temporal\_id may be less than, equal to, or greater than the temporal\_id of the containing access unit, as a picture parameter set or adaptation parameter set may be repeated in access units not referring to the picture parameter set or adaptation parameter set for improved error resilience, and all picture parameter sets or adaptation parameter sets may be included in the beginning of a bitstream wherein the first coded picture has temporal\_id equal to 0. When nal\_unit\_type is equal to 31 (SEI), temporal\_id may be equal to or greater than the temporal\_id of the containing access unit, as an SEI NAL unit may contain a picture buffering SEI message or a picture timing SEI message that applies to a bitstream subset including access units for which the temporal\_id values are greater than the temporal\_id of the access unit containing the SEI NAL unit.