```
hrd_parameters
    + cpb_cnt
    + bit_rate_scale
    + cpb_size_scale
    + bit_rate_value
    + cpb_size_value
    + dbr_flag
    + initial_cpb_removal_delay_length
    + cpb_removal_delay_length
    + dpb_output_delay_length
    + time_offset
                     nal_hrd_parameters
                    vcl_hrd_parameters
             vui parameters
+ aspect_ratio_info_present
+ aspect_ratio_idc
+ sar width
+ sar_height
+ overscan_info_present
+ overscan_appropriate
+ video_signal_type_present
+ video_format
+ video_full_range
+ color_description_present
+ colour_primaries
+ transfer characteristics
+ matrix coefficients
+ chroma_loc_info_present
+ chroma_sample_loc_type_top_field
+ chroma_sample_loc_type_bottom_field
+ timing_info_present
+ num_units_in_tick
+ time_scale
+ fixed_frame_rate
+ nal_hrd_parameters_present
+ nal_hrd_parameters
+ vcl_hrd_parameters_present
+ vcl_hrd_parameters
+ low_delay_hrd
+ pic_struct_present
+ bitstream_restriction
+ motion_vectors_over_pic_boundaries_flag
+ max_bytes_per_pic_denom
+ max_bits_per_mb_denom
+ log2_max_mv_length_horizontal
+ log2_max_mv_length_vertical
+ num_reorder_frames
+ max_dec_frame_buffering
```