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HDR Emissions Format

The North American Broadcasters Association

Considering:

- That “ATSC Standard: ATSC 3.0 System” (Doc. A/300:2021) states: “All ATSC 3.0 terrestrial and hybrid television services emitted within a given region should use one High Dynamic Range (HDR) system selected for that region from those defined in A/341”;
- That Broadcasters’ goals for an HDR emission include:
 - Providing HDR content to OTA, MVPD retransmission and OTT audiences in the highest possible technical quality and with the greatest possible consideration of future proofing with respect to future advances in both cameras and consumer displays;
 - Reaching the largest possible audience with HDR content (i.e., the broadest possible set of devices via OTA, MVPD retransmission and OTT delivery);
 - Unified HDR and color space formats workflows for broadcast OTA and OTT transmission and emission related workflows;
 - Preserving the highest HDR quality by minimizing the number of conversions that content passes through from creation to consumer display; in particular, avoiding the occurrence of any “round trip” conversions;
 - Minimizing the number of conversion points in the broadcast ecosystem in order to minimize complexity and facilitate the simplest possible flow of content throughout the ecosystem;
 - Ensuring consistent quality and appearance of HDR content, regardless of its delivery path (OTA, OTT or MVPD retransmission);
 - The use of open technical standards;

Recommends:

- That systems based on an underlying PQ-based HDR transfer function (SMPTE ST 2084) with optional static (SMPTE ST 2086) [1] and/or dynamic metadata (SMPTE ST 2094) be used for ATSC 3.0 program emission in North America.

[1] CTA defines this, with 10-bit coding, as HDR10.