

*Title:* JCT-VC AHG report: Best-effort decoding with reduced decoding complexity (AHG 21)  
*Status:* Input Document to JCT-VC  
*Purpose:* Ad-hoc group report  
*Author(s):* David Flynn | *dflynn@blackberry.com*  
Joel Sole | *joels@qti.qualcomm.com*  
*Source:* AHG 21

---

## **Abstract**

This report summarizes the activities of Ad Hoc Group 21 on support for range extensions between the 14th and 15th JCT-VC meetings.

## **Mandates**

The ad hoc group was mandated to:

- Identify use cases and key functional elements for application of reduced-complexity decoding processes for decoding of bitstreams encoded for HEVC and its extensions
- Analyse trade-offs for optimization of video quality in the application of reduced-complexity decoding processes
- Particularly study characteristics of design and optimization for decoding processes with reduced bit depth
- Consider and analyse the impact of inter-picture dependencies and cross-region spatial prediction dependencies in the application of reduced-complexity decoding processes
- Study potential approaches to describe/specify the provision of best-effort decoding capabilities in the HEVC text specification

## **Contributions**

A contribution on the topic that summarises the previous work, provides some new data for a 12-bit process, and provides very high level specification text is provided in JCTVC-O0043 [?].

## **Recommendations**

It is recommended to –

- Present the input document