**IMPLEMENTATION OF JPEG-XR/HD SYSTEM ARCHITECTURE FOR IMAGE COMPRESSION**

*Abstract*— This paper presents the importance of JPEG-XR/HD in the area of high dynamic range images (HDR). JPEG-XR/HD is based on integer based coding technology. It can support compression of different HDR formats. The main advantage of JPEG-XR/HD is high compression efficiency and low computational complexity. Image compression plays a vital role in various applications like Big Data, Internet, Telemedicine etc.In this paper a lossless JPEG-XR/HD design has been proposed with well timing concept and high dynamic range.This paper shows how effectively an entropy encoder has been designed which is an important component in JPEG-XR/HD.