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## Abstract

Recently more and more telecommunication systems are supporting different kinds of real-time transmission, video transmission being one of the most important application. In wireless environments, channel bandwidth and high packet loss rate are to main limitations in the way of delivering of a good quality video to the end user. Therefore, in applications such as video over wireless networks, a video codec should have ability to handle the erroneous situations of the channels well as the bandwidth limitations. H. 264/AVC is the newest international video coding standard, jointly developed by groups from ISO/IEC and ITUT. It has several error resilience techniques to make a video bit stream robust in the erroneous channels conditions and also

achieves a significant improvement in the compression efficiency. We analyze various error resilience schemes and innovative features of H. 264/AVC for real time video streaming. The focus of the work is to test video coding and error resilience tools of H. 264/AVC in real time environment over wireless networks.

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### Index Terms

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