

# Face Tracking for Optimized Bitrate Bontrol in Low Delay Video Encoding

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## 1 Introduction

### 1.1 Low Delay Bitrate Control

In recent years there is increasing demand for high quality video conferencing solutions. To address this growing need there has been constant improvement in low delay video coding techniques. The need for extremely low end to end delay in video telephony puts additional constraints on video coding which results in compromise of video quality.

The bitrate control module in encoder is responsible for controlling the bit-consumption of the encoder to guarantee smooth playback. Bitrate control module is not codec specific and operates .During the low delay video encoding, tools like bi-directional prediction are disabled