

# Multimedia Encryption, Transmission and Authentication

Edited by

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## Chapter 8

### JSVM REFERENCE SOFTWARE

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#### 8.1. INTRODUCTION

There are some video standards that are used in the digital life. The video standard is used for respective purposes such as storage, video streaming, or video transmission. In order to encode the video files into some specific standard video, the video encoder software is required to perform the video processing. For the well-established video coding standard, the video encoder software is coming on ready used software packages. But for SVC, as an ongoing video standard, the available encoder software is the reference software which can be modified and tested.

#### 8.2. JOINT SCALABLE VIDEO MODEL (JSVM)

The Joint Scalable Video Model (JSVM) reference software is the reference software for H.264/SVC or Scalable Video Coding standard. It supports the single layer coding and multiple layer coding. The reference software is the joint research between Joint Video Team (JVT) and ITU-Video Coding Experts Group (VCEG) which is an ongoing standard [1]. The JSVM reference software is an open source code and written in C++ language. Since the JSVM is the reference software, the source code of the software is provided and can be accessed easily from the CVS server.

The JSVM reference software is stored in CVS server. This is done in order to keep track of changes and updates of the JSVM reference software. From the JSVM reference software manual, the server is allowed to read access by using parameters specified in Figure 8.1.