

TRANSCODING SERVER TECHNICAL SPECIFICATIONS

Introduction

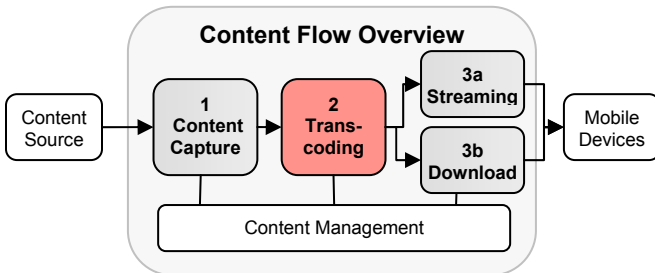
Verkata Transcoding Server can consume original audio and video files in multiple media formats and output them in the appropriate format for delivery (download or streaming) to mobile handsets over wireless networks.

Transcoding Server can either be used as a stand-alone component or integrated to Verkata's Content Management System (CMS).

Verkata CMS provides a complete end-to-end product suite for the sourcing, encoding, delivery, management of digital media via mobile/wireless networks and devices. Verkata's products are specifically targeted for media companies and mobile operators who need to monetize media content. They are not only lightweight, scalable, and interoperable but also provide intuitive and easy-to-use user interfaces.

Content Process Overview

Media content typically follows the following steps from origination to delivery to the web or mobile devices.



1. As the first step, Content Capture tool allows you to syndicate content from content partners. This can be either manual or automated via RSS, XML/Web Services or other techniques.
2. Content comes in a variety of formats, therefore our Transcoding Server converts the content to a format suitable for download or streaming to target mobile devices.
3. Streaming Server streams content per mobile streaming standards and protocols. Download server delivers the content to the mobile phone over the wireless link. On the mobile device, users can play content on any standards based media player.

Features

- High speed, high quality encoding
- Modular and lightweight design
- Supports MPEG4 /H.263/ H.264
- Configurable encoding variables (e.g., frame rate, bit rate, sampling rate)
- Optimized video processing (e.g., sharpen, blur).
- Optimized audio processing (e.g., audio filter, volume control)

Input and Output Formats

Input

- **Video:** MPEG, AVI, WMV, FLV, (Flash), MOV (QuickTime)
- **Audio:** MP3, WMA

Output

- **Video:** MPEG-4, H.263, H.264, FLV
 - **Frame rate:** 1-30 fps
 - **Bit rate:** Configurable
 - **Key frame:** Configurable
- **Audio:** AMR Narrow Band, AAC, AAC+
 - **Sampling Rate:** Configurable
 - **Bit rate:** Configurable
- **Resolution:** CIF (352 X 288), QCIF (176 X 144) SQCIF(128x96) QVGA(320x240) and custom

System Requirements

Recommended System

- **CPU:** Intel Pentium 4 3.0GHz and above
- **RAM:** 1GB and above
- **Disk:** 80 GB and above
- **OS:** Linux 2.6 Kernel, Windows 2000 or later

Deployment Options

Transcoding server provides flexible deployment options. Three typical scenarios are: (i) as a hosted back-end server, (ii) a stand-alone with web based GUI, and (iii) integrated into a service or content provider's content production system.

As a hosted back-end server, Transcoding Server typically sits on its own hardware box and provides a command line interface. As a stand-alone web based application, encoding parameters are exposed via a web GUI. As an integrated application, Transcoding Server requires minimal manual input and becomes a seamless part of the content flow.

Contact us

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