MainConcept introduces the next generation transcoding platform that will significantly improve your workflow efficiency and thus your bottom line.

The Reference Platform combines high quality transcoding and performance optimizations for the latest processors and operating systems as well as support for all of the major international codec standards in use today based on one of the largest codec libraries on earth. Moreover, Reference Platform can be integrated into all major operating systems. The Reference platform combines ready-to-use application, the Reference Engine, Enterprise-level WEB Services, and an online platform.

Reference Stream brings all major streaming formats and protocols in one easy-to-use application. It delivers existing media to mobile or handheld devices supporting modern network streams like RTP/RTSP or DLNA. It optionally transcodes media into the required output format and streams directly to connected digital player devices.

- Digital Media Server (DLNA) – Streaming Home Media Content via UPnP
- Flash – RTMP Streaming Output Server for Web Content
- HTML5 – Future Browser Compatible Video Format
- MOBILE (3GPP and MP4) – RTP Streaming over IP based Networks using UDP and Multicast
- Settop Box – Feed any network device with the universal RTSP Server
- Apple HTTP – Live Streaming to iPad, iPod & iPhone
- SVC – Scalable Video Streaming with real-time adaptive layer management

Reference Stream delivers pre-encoded media but also provides an on-the-fly transcoding feature to support devices with different format requirements. MainConcept Reference Stream comes with presets for the most available streaming enabled devices.

Dedicated Professional Transcoding application that is unique by creating an ecosystem for MainConcept Codec Plug-ins. Users can purchase dedicated Codec plug-ins that suit their needs directly from the MainConcept web store, providing maximum flexibility and affordability.

Currently available Plug-ins:
- MPEG-2 (incl. MPEG-1)
- H.264/AVC (Professional Version)
- H.264/AVC (Broadcast Version)
- MPEG-4 Part 2
- VC-1 Pro
- DVCPRO HD
- JPEG2000
- Dolby Digital Professional
- Dolby Digital Plus Pro

Latest available Plug-ins:
- 3D Blu-Ray (3D H.264/MVC)
- Scalable Streaming (H.264/SVC Codec)
- Reference Streaming
- CUDA H.264/AVC Encoding

The Reference Pro application is available as a free download version and contains all MainConcept Codec Plug-Ins in demo mode (fully functional except that the rendered output video contains a watermark).
TRANSCODING PLATFORM

TRANSCODING INTERGRATION MODULE

MAINCONCEPT™

REFERENCE ENGINE

The Reference Engine provides a powerful mechanism that helps to build the bridge between different systems and facilitate media handling within your internal workflow. It consists of a command line interface for advanced operations. Our goal is to simplify the process of licensing and receiving MainConcept SDK packages. Therefore, the Reference Engine does not require special contracts or NDA agreements.

COLLABORATIVE TRANSCODING WEB SERVICE API

MAINCONCEPT™

REFERENCE ENTERPRISE

Reference Enterprise is a new scalable processing platform geared toward high-volume delivery environments. It’s available for licensees or turn-key server based solutions. It supports all of your advanced rendering requirements driven by managing functions, job distribution, local and global operations via client interface. Reference Enterprise communicates via a powerful and flexible WEB Services Technology using SOAP (Simple Object Access Protocol) protocol, relaying on XML (Extensible Markup Language) as messaging format. The SOAP Technology allows the freedom to operate with Reference Enterprise via JAVA, .NET, C++, etc. on almost any operating systems, such as Windows, Mac OS X, Linux, Solaris, etc.

CLOUD TRANSCODING MODULE

MAINCONCEPT™

REFERENCE ONLINE

Reference Online is a complete web-based transcoding and streaming module designed to quickly drive your application into the virtualized world. The MainConcept Customizable Module can be easily integrated into any Internet-based application enabling your users to encode their videos online to any video and audio formats you want to support regardless of their location. Reference Online is built upon the renowned MainConcept SDK library, enabling your application to deliver highest output video quality with simplicity of operation.