nanocosmos MPEG-2 Broadcast DirectShow SDK

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Introduction

Nanocosmos MPEG-2 Broadcast DirectShow SDK enables you to perform high quality and high performance video coding for the latest generation video and audio coding standards. It is intended to develop video encoding / transcoding applications based on Microsoft DirectShow technology.

Major Features

- Encoding of MPEG-2 video streams in Main and High profile
- Highly optimized software coding with support for latest CPU technology by Intel and AMD (SSE2/SSE3/SSE4 and Dual-Core/Core-Duo, AMD Athlon64
- Real-time Encoding from Capture cards is supported
- File Reader for MOV and MXF
- File Writer for MOV and MXF

Documentation

The SDK\doc folder contains further documentation for the following filters:

- MPEG-2 Video Decoder
- MPEG-2 Video Encoder
- QuickTime Source
- QuickTime Writer
- MXF Reader
- MXF Writer

Contact us for additional modules for MPEG Audio Encoding and Multiplexing

Filter components

- nanocosmos MPEG-2 Video Decoder
Module: nmpeg2dec.ax
CLSID: {223784F1-4D9F-45A5-8281-8F9AFCABD904}

- nanocosmos MPEG-2 Video Encoder
Module: nmpeg2enc.ax
CLSID: {2327A344-BECC-4F4F-89C6-DABDC5143832}

- nanocosmos QuickTime Source Filter
  Module: nqtsource.ax
  CLSID: {53718C99-F067-4609-8184-A8A92A241A5A}

- nanocosmos Quicktime Writer (MPEG2/Broadcast)
  Module: nmp4mux.ax
  CLSID: {C2FB362B-CE6C-4797-BC16-F81976DFEF61}

- nanocosmos MXF Reader
  Module: nh264dec.ax
  CLSID: {A3462D0F-3BD0-48A2-BD91-A1366CFC35BB}

- nanocosmos MXF Writer
  Module: nh264dec.ax
  CLSID: {C1C2C181-EBDA-421F-895F-638A4C5F132B}

- nanocosmos MPEG PS/TS Stream Splitter
  Module: nmpegsplitter.ax
  CLSID: {0994D1E8-B697-47DE-B1E3-36D26937D5B4}

- nanocosmos File Dump Filter
  Module: nanodump.ax
  CLSID: {DA67A541-8FEA-11D4-A908-00105A6758CF}

Registering and unregistering components in the DirectShow framework

In order to use them, filters must be registered in the DirectShow framework. After installation all filters are registered. To re-register or unregister components, execute the RegisterFilters.bat or UnregisterFilters.bat batch files from the SDK/bin folder.

Filter activation

Filters can be activated by installing a license key to windows registry or programmatically by setting a license key through the software interface of a filter instance. How to set license keys to unlock filters is described in the module's documents.

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Embedding / Customizing nanoPEG technology

Nanocosmos also offers special OEM and customization service. Dependent on your needs, we may offer different models of licensing or application development.

About nanocosmos

nanocosmos informationstechnologien gmbh is a software company providing professional video coding and streaming products. We are partners for digital TV and video/audio streaming for intra- and internet applications. Nanocosmos provides encoding and decoding solutions for any video standard on any platform, with specific expertise in plugin architectures and DirectShow filters. Based on core technology, additional support and development service is available for custom applications.

Contact us at http://www.nanocosmos.net or info@nanocosmos.de for further information.

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