nanocosmos RTSP Source Filter

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Module / Version

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nRTSPSource.ax Version 1.2.0.6

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DirectShow filter for RTSP Streaming
- Supported Architectures: Microsoft DirectShow, Windows XP, Vista, 7, Server
- Supported Formats: H.264 + AAC

DirectShow Connectivity

The output is accepting connections matching the following media types:

Major types:

MEDIATYPE_Video

Subtypes:

FourCCs: H264, h264

Formats:

FORMAT_MPEG2_VIDEO,
FORMAT_NONE

Major types:

MEDIATYPE_Audio

Subtypes:

MEDIASUBTYPE_AAC, FourCC: 0x000000FF

Formats:

FORMAT_WaveFormatEx,
FORMAT_NONE

Configuration

The filter configuration may be set by using either the property page or the COM Interface
IRTSPSource and as declared in header file RTSPSourceOptions.h . The streaming url can be
set by using standard DirectShow interface IFileSourceFilter .

```
// Filter GUID
// {99709313-5825-42ab-82ED-A7AD88ACBF4A}
DEFINE_GUID(CLSID_NANO_RTSP_SOURCE,
0x99709313, 0x5825, 0x42ab, 0x82, 0xed, 0xa7, 0xad, 0x88, 0xac, 0xbf, 0x4a);

// Property Page GUID
// {D3BE0AA6-A8E2-45a8-9414-385FFD94B816}
DEFINE_GUID(CLSID_NANO_RTSP_SOURCE_PROPPAGE,
0xd3be0aa6, 0xa8e2, 0x45a8, 0x94, 0x14, 0x38, 0x5f, 0xfd, 0x94, 0xb8, 0x16);

// Configuration Interface GUID
// IRTSPSource interface
// {C39F308A-D27B-4c17-B01E-469F00248981}
DEFINE_GUID(IID_IRTSPSource,
0xc39f308a, 0xd27b, 0x4c17, 0xb0, 0x1e, 0x46, 0x9f, 0x0, 0x24, 0x89, 0x81);
```

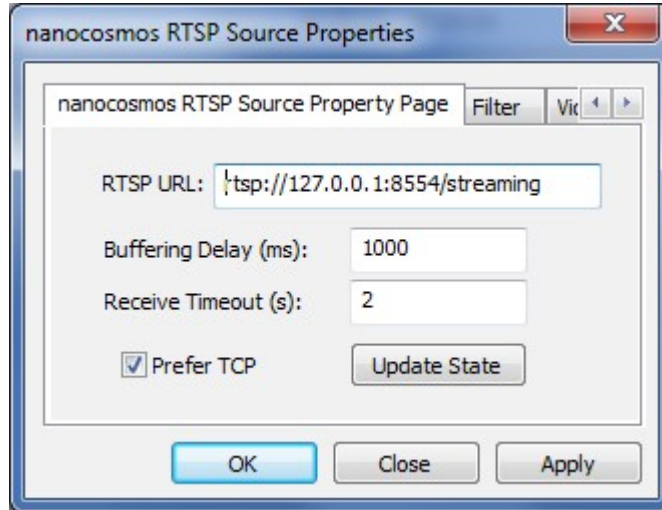Buffer statistics can be retrieved using IRTSPSourceBufferStats interface.

```
// IRTSPSourceBufferStats interface
// {655D499B-C9E0-4134-9DC4-6431FEEB5EB0}
DEFINE_GUID(IID_IRTSPSourceBufferStats,
0x655d499b, 0xc9e0, 0x4134, 0x9d, 0xc4, 0x64, 0x31, 0xfe, 0xeb, 0x5e, 0xb0);
```

Use standard DirectShow interface ICodecAPI to get/set these parameters:

```
// ICodecAPI GUID
// get/set receive timeout in seconds
// VARIANT_TYPE: VT_I4, VARIANT::intVal
// default value: 2
// {33759D2A-3B7D-45ac-A8BF-C2477915C03B}
DEFINE_GUID(PROPID_nanoRTSPSourceConnectionTimeout,
0x33759d2a, 0x3b7d, 0x45ac, 0xa8, 0xbf, 0xc2, 0x47, 0x79, 0x15, 0xc0, 0x3b);
```

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Configuration through DirectShow filter property page

The filter's property page offers a subset of parameters, containing the most important options.

URL format:
rtsp://127.0.0.1:8554/streaming
rtsp:// [IP:port]/[stream name]

Debug-Log Configuration Registry Settings

Key: HKEY_CURRENT_USER\Software\DebugNano\ nRTSPSource.ax

File name
   Sets the output file name. The folder must already exist.
   Value name: LogToFile
   Value type: REG_SZ / String
   Valid values: a valid output file name to enable file logging or an empty string

Logging level
   A higher value increases the amount of logging messages sent, and messages get more detailed.
   Value name: TRACE
   Value type: REG_DWORD
   Valid values:
         0 – minimal logging
         …
         9 – maximal logging

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