

Live Video Encoder – Plugin Interface for C++

NOTE: SDK / Developer license is needed for this functionality.

C++ Interface

The C++ interface is similar to the plugin property/method interface, but has separate methods for “getting” and “setting” the properties.

```
MIDL_INTERFACE("65E7065E-43B5-46e4-9766-4E01ACAE530C")
IRTMPActiveXCommands : public IDispatch
{
```

Initialization and Configuration:

```
InitEncoder( )

get_PluginVersion( /* [retval][out] */ LONG *pVal)
```

License Key String

```
get_License( /* [retval][out] */ BSTR *pVal)
put_License( /* [in] */ BSTR newVal)

get_EnablePreview( /* [retval][out] */ LONG *pVal)
put_EnablePreview( /* [in] */ LONG newVal)
```

Destination File Name or Stream URL (e.g. “rtmp://localhost/live+myStream”)

```
get_DestinationURL( /* [retval][out] */ BSTR *pVal)
put_DestinationURL( /* [in] */ BSTR newVal)
```

Video and Audio Capture Devices (0 ... n)

```
get_NumberOfVideoSources( /* [retval][out] */ LONG *pVal)
get_NumberOfAudioSources( /* [retval][out] */ LONG *pVal)
GetVideoSource( /* [in] */ LONG num, /* [retval][out] */ BSTR *pVal)
GetAudioSource( /* [in] */ LONG num, /* [retval][out] */ BSTR *pVal)
get_VideoSource( /* [retval][out] */ LONG *pVal)
put_VideoSource( /* [in] */ LONG newVal)
get_AudioSource( /* [retval][out] */ LONG *pVal)
put_AudioSource( /* [in] */ LONG newVal)
```

```
get_VideoFormat( /* [retval][out] */ BSTR *pVal)
put_VideoFormat( /* [in] */ BSTR newVal)
get_AudioFormat( /* [retval][out] */ BSTR *pVal)
put_AudioFormat( /* [in] */ BSTR newVal)
```

Video and Audio Encoding Bitrates (Quality in Bits/s)

```
get_VideoBitrate( /* [retval][out] */ LONG *pVal)
put_VideoBitrate( /* [in] */ LONG newVal)
get_AudioBitrate( /* [retval][out] */ LONG *pVal)
put_AudioBitrate( /* [in] */ LONG newVal)
```

Video Capture Frame Size and Frame Rate

```
get_VideoWidth( /* [retval][out] */ LONG *pVal)
put_VideoWidth( /* [in] */ LONG newVal)
get_VideoHeight( /* [retval][out] */ LONG *pVal)
put_VideoHeight( /* [in] */ LONG newVal)
get_VideoFrameRate( /* [retval][out] */ DOUBLE *pVal)
put_VideoFrameRate( /* [in] */ DOUBLE newVal)

get_OutputFormat( /* [retval][out] */ LONG *pVal)
put_OutputFormat( /* [in] */ LONG newVal)

get_CaptureWidth( /* [retval][out] */ LONG *pVal)
put_CaptureWidth( /* [in] */ LONG newVal)
get_CaptureHeight( /* [retval][out] */ LONG *pVal)
put_CaptureHeight( /* [in] */ LONG newVal)

CheckVideoFormat( )
```

Encoder / Stream Control:

```
StartPreview( )
StartBroadcast( )
StopPreview( )
StopBroadcast( )
```

Screen Capture Area:

```
get_ScreenRegionLeft( /* [retval][out] */ LONG *pVal)
put_ScreenRegionLeft( /* [in] */ LONG newVal)
get_ScreenRegionTop( /* [retval][out] */ LONG *pVal)
put_ScreenRegionTop( /* [in] */ LONG newVal)
get_ScreenRegionRight( /* [retval][out] */ LONG *pVal)
put_ScreenRegionRight( /* [in] */ LONG newVal)
get_ScreenRegionBottom( /* [retval][out] */ LONG *pVal)
put_ScreenRegionBottom( /* [in] */ LONG newVal)
```

Resize Video

```
get_EnableResize( /* [retval][out] */ LONG *pVal)
put_EnableResize( /* [in] */ LONG newVal)
get_VideoResizeWidth( /* [retval][out] */ LONG *pVal)
put_VideoResizeWidth( /* [in] */ LONG newVal)
get_VideoResizeHeight( /* [retval][out] */ LONG *pVal)
put_VideoResizeHeight( /* [in] */ LONG newVal)
```

Video Effects, Mix, Overlay, 3D

```
get_VideoMixer( /* [retval][out] */ LONG *pVal)
put_VideoMixer( /* [in] */ LONG newVal)
get_VideoSource2( /* [retval][out] */ LONG *pVal)
put_VideoSource2( /* [in] */ LONG newVal)
get_TextOverlayText( /* [retval][out] */ BSTR *pVal)
put_TextOverlayText( /* [in] */ BSTR newVal)
get_VideoEffect( /* [retval][out] */ LONG *pVal)
put_VideoEffect( /* [in] */ LONG newVal)
```

Audio Control

```
get_AudioDelay( /* [retval][out] */ DOUBLE *pVal)
put_AudioDelay( /* [in] */ DOUBLE newVal)
get_AudioVolume( /* [retval][out] */ LONG *pVal)
put_AudioVolume( /* [in] */ LONG pVal)
```

```
GetConfig( /* [in] */ BSTR prop, /* [retval][out] */ BSTR *pVal)
SetConfig( /* [in] */ BSTR prop, /* [in] */ BSTR pVal)
get_XMLProfile( /* [retval][out] */ BSTR *pVal)
put_XMLProfile( /* [in] */ BSTR pVal)
```

Misc

```
get_ActivateKeyServer( /* [retval][out] */ LONG *pVal)
put_ActivateKeyServer( /* [in] */ LONG newVal)
get_FileSourceFilename( /* [retval][out] */ BSTR *pVal)
put_FileSourceFilename( /* [in] */ BSTR newVal)
get_FileSource2Filename( /* [retval][out] */ BSTR *pVal)
put_FileSource2Filename( /* [in] */ BSTR newVal)
get_MP4MuxMode( /* [retval][out] */ LONG *pVal)
put_MP4MuxMode( /* [in] */ LONG newVal)
get_OriginalVideoSize( /* [retval][out] */ LONG *pVal)
put_OriginalVideoSize( /* [in] */ LONG newVal)
get_ShowPropertyPage( /* [retval][out] */ LONG *pVal)
put_ShowPropertyPage( /* [in] */ LONG newVal)
```