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Google Talk for Developers

## Google Talk for Developers (8+1) (0)

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**Open Communications** 

libjingle

Developer Guide

Changelist

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# MediaEngine Class

MediaEngine is the lowest libjingle wrapper class around the third-party package that controls the render/capture hardware on the computer. MediaEngine is a virtual class that must be subclassed to work with specific third party applications (such as Linphone and GIPS). libjingle defines two subclasses: GipsLiteMediaEngine to work with GIPS, and LinphoneMediaEngine to work with Linphone. MediaEngine handles audio settings and creation of MediaChannels. You can create your own subclass if you have another media engine to use. MediaEngine is specialized for audio data, but you could use it as a model to support other media types. The methods shown are not thread-safe, and can be called on any thread, but you should call them from the signaling thread.

**MediaEngine** is created by **ChannelManager** when that object is instantiated. There is only one **MediaEngine** instance per libjingle application. No destructor is defined for this base class.

#### **Syntax**

class MediaEngine

#### Methods

Name	Description
std::vector <codec>&amp; codecs() = 0</codec>	Retrieves a vector of <b>Codec</b> structs representing the codecs supported by the <b>MediaEngine</b> .
MediaChannel* CreateChannel() = 0	Creates a new <b>MediaChannel</b> subclass, representing the media stream for one session (peer-to-peer connection).
bool <b>FindCodec</b> (Codec &codec) = 0	Returns True if the submitted codec is supported by the underlying <b>MediaEngine</b> subclass. <i>codec</i> is the name of the codec to search for.
int  GetCodecPreference(Codec  codec)	Returns an integer preference for a codec, where the higher the number is, the higher the preference.
virtual int <b>GetInputLevel()</b> = 0	Returns a volume level, specific to the implementation.
virtual bool <b>Init</b> () = 0	Initializes the media library and populates the engine's list of supported codecs. This is called by <b>ChannelManager</b> when <b>ChannelManager</b> is instantiated.

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StreamState Enumeration

Task Class

VoiceChannel Class

**XmppClient Class** 

XmppEngine Class

XmppPump

XmppTask Class

License

Google Talk XMPP Extensions

**User Settings** 

MediaEngine()	Constructor. It performs no actions, and should be overridden by subclasses.
virtual  SetAudioOptions(int  options) = 0	Sets audio options found in the <b>MediaEngineOptions</b> enumeration. This isn't used by libjingle, but can be used by your application. <i>options</i> should be a MediaEngineOptions enumerated value described in the table below.
virtual int  SetSoundDevices(int  wave_in_device, int  wave_out_device) = 0	Sets the sound hardware to use. This is specific to the implementation.  • wave_in_device Pointer to an audio capture device.  • wave_out_device Pointer to an audio rendering device.
virtual int <b>Terminate</b> ()=0	Performs the opposite actions to <b>Init</b> , and releases resources used by <b>MediaEngine</b> . This is called by <b>ChannelManager</b> before destroying a <b>MediaChannel</b> object.

### Enumerations

Name	Description
MediaEngineOptions	Used by <b>SetAudioOptions</b> to specify various audio options. The following values are specified:
	AUTO_GAIN_CONTROL Enable auto gain control.

Attributes: public

**Declaration file:** libjingle-0.3.0/talk/session/phone/mediaengine.h

Off the Record Chats

Jingle Server

Discovery

**Gmail Notifications** 

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Attributes

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**Additional Resources** 

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Google Talk Blog

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