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**Products** 

Google Talk for Developers

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



Overview

**Open Communications** 

libjingle

Developer Guide

Changelist

Important Concepts

How libjingle **Applications Work** 

Creating a libjingle **Application** 

> Signing In to a Server

Sending and Querying Presence

Set Up the Session Management Pathway

Making and Receiving Connections

Scenarios

Sample Applications

File Share **Application** 

Voice Chat Application

Reference

BasicPortAllocator Class

Call Class

Codec Struct

ChannelManager

## XmppClient Class

The main entry and exit point for XMPP stanzas between the network and the application. XmppClient actually manages several lower level objects, and is itself wrapped by XmppPump, which handles signing in to the server. Your application must create this object, or a wrapper object (XmppPump) explicitly. See Signing In to a Server.

## Syntax

class XmppClient : public Task,

public sigslot::has\_slots<>

## Methods

Name	Description	
void <b>AddXmppTask</b> (XmppTask* <i>task</i> , XmppEngine::HandlerLevel <i>level</i> )	Adds a subtask to <b>XmppClient</b> . This happens under the hood in the <b>XmppTask</b> constructor, so if you extend <b>XmppTask</b> you should not need to call this method explicitly.	
XmppReturnStatus <b>Connect</b> (const XmppClientSettings & settings, AsyncSocket *socket, PreXmppAuth *preauth)	<ul> <li>Handles signing in to a server. This method is called by XmppPump::DoLogin.</li> <li>settings Holds the sign in information for the current user.</li> <li>socket An XmppSocketobject to connect to the network. You can create a new XmppSocket object for this connection.</li> <li>preauth (optional) Any kind of authorization certificates needed to sign on to the server.</li> </ul>	
XmppReturnStatus Disconnect()	Signs off from the server.	
XmppEngine* engine()	Returns the internal <b>XmppEngine</b> class that handles many of the tasks. You should not need to call this.	
void EnsureClosed()	Internal helper function. You should not need to call this.	
std::string GetAuthCookie()	Internal helper function. You should not need to call this.	

月4年7月18日	XmppClient Class - Google Talkt	for Developers — Google Developers
Class	CaptchaChallenge  GetCaptchaChallenge()	Internal helper function. You should not need to call this.
Connection Class		
FileStream Class HttpPortAllocator	XmppEngine::Error GetError()	Retrieves the last error thrown by <b>XmppClient</b> . You can query this if <b>SignalStateChange</b> logs out unexpectedly.
Class		· · · ·
MediaChannel Class	Task* GetParent(int code)	No description available. You should not need to call this.
MediaEngine Class	XmppEngine::State <b>GetState</b> ()	No description available. You should not need to call this.
MemoryStream Class	Jid& jid()	Returns the full JID of the current user. Call this after signing in to a server.
P2PTransportCha···		
Port Class	std::string NextId()	Internal helper function. You should not need to call this.
PresenceOutTask Class	void <b>OnAuthDone</b> ()	Internal helper function. You should not need to call this.
PresencePushTask Class	int <b>Process</b> (int state)	Internal helper function. You should not need to call this.
Session Class SessionClient Class	int ProcessCookieLogin()	Internal helper function. You should not need to call this.
SessionManager Class	int ProcessResponse()	Internal helper function. You should not need to call this.
SessionSendTask Class	int ProcessStart()	Internal helper function. You should not need to call this.
StreamEvent Enumeration	int ProcessStartXmppLogin()	Internal helper function. You should not need to call this.
StreamInterface Class	void <b>RemoveXmppTask</b> (XmppTask *task)	Removes a subtask added using <b>AddXmppTask</b> .
StreamResult Enumeration StreamState	XmppReturnStatus SendRaw(const std::string &text)	Sends a raw text string to the server (not wrapped in a stanza).
Enumeration	XmppReturnStatus	Sends a stanza to the network.
Task Class	SendStanza(const XmlElement *stanza)	
VoiceChannel Class  XmppClient Class	XmppReturnStatus	Sends an error description for a malformed stanza
XmppEngine Class	SendStanzaError(const XmlElement *pelOriginal,	received by the server.
XmppPump	XmppStanzaError code, const	
XmppTask Class	std::string &text)	
License	XmppClient(Task *parent)	Constructor. <i>parent</i> is the managing object for the XMPP Messaging Component.
Google Talk XMPP	~XmppClient	Destructor.
Extensions	std::string GetStateName(int state)	Returns a string version of a <b>Task</b> object state,
User Settings	3	,

Off the Record Chats

Jingle Server Discovery const

usually for logging purposes. You should not need to call this.

**Gmail Notifications** 

Shared Status Messages

Extended Contact

Attributes

JID Domain Discovery

Voicemail

OAuth 2.0 Authorization Signals

SignalStateChange< XmppEngine::State >

Sends notifications about the progress of the sign in attempt to the server.

SignalLogInput< const char \*, int >

Sent with a copy of an incoming XMPP stanza when it arrives from the network. See pcp\_main.cc for an example of how to trap and display these stanzas.

SignalLogOutput< const char \*, int >

Sent with a copy of an outgoing XMPP stanza when it is sent to the network. See pcp\_main.cc for an example of how to trap and display these stanzas.

SignalDisconnected

Sent when XMPP signs off from the server.

Additional Resources

Other IM Clients

Accessories

Google Talk Blog

Friends

XmppTask

Attributes: public

Declaration file: talk/xmpp/xmppclient.h

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