





Products

Google Talk for Developers

SessionManager Class

SessionManager creates, destroys, and routes XMPP to and from individual **Session** objects. You do not need to extend this object for different session types.

The application must create this object and connect to **SignalRequestSignaling**, and in response to that signal, call **OnSignalingReady**. The methods shown are not thread-safe, and can be called on any thread, but you should call them from the signaling thread.

Syntax

class SessionManager : public sigslot::has_slots<>

Methods

Name	Description
~SessionManager	Destructor. Does not deallocate any Session objects, but does empty its local list of pointers.
bool IsSessionMessage (const buzz::XmlElement* <i>stanza</i>)	Determines whether a stanza should be forwarded to a Session object.
int session_timeout()	Used by Session to determine how long it can be unwritable before it should send a timeout error and terminate itself. Session multiplies this by 1,000 so it can be considered a time in seconds.
PortAllocator* port_allocator()	Returns the PortAllocator subclass used by this object.
Session* GetSession (const SessionID& <i>id</i>);	Returns the session with the given ID or NULL if none exists
Session* CreateSession (const std::string & name, const std::string & session_type)	 name A unique string used by libjingle to identify the session. libjingle uses the JID of the other party. This is used to identify the session in XMPP stanzas, and enables SessionManager route the message to the proper Session object. session_type An ID to identify the SessionClient associated with this Session. See AddSession.
Session* FindSessionForStanza(const buzz::XmlElement* stanza, bool incoming)	Finds a Session for an incoming XMPP stanza. The <i>name</i> parameter passed in to CreateSession is used to find the correct Session .
Session* GetSession (const SessionID & <i>id</i>)	Returns a session by SessionID (a JID plus a random string).

talk_base::Thread worker_thread()	Returns the worker thread passed in to the constructor, or the SessionManager main thread if no thread was submitted. This thread is used by the socket manager to handle peer-to-peer socket processing.
Thread* signaling_thread()	Returns the thread that this object was instantiated in.
void AddClient (const std::string& session_type, SessionClient* client)	Registers a SessionClient subclass responsible for a particular Session type. Each Session has an associated string type ID, passed through XMPP initiation requests. libjingle registers various session types as global variables. New types should be registered on both the sender and receiver, You should register your handler for each type of SessionClient subclass instantiated. When a session request is received from another computer, SessionManager will create a new Session object and then call that object's SessionClient::OnSessionCreate method.
void DestroySession (Session *session)	Sends a SignalSessionDestroy signal (which is caught by SessionClient) and removes the client from its internal list, but does not destroy the object itself.
void OnlncomingMessage(const buzz::XmlElement* I)	Called when we receive a stanza for which IsSessionMessage is true
void OnlncomingResponse(const buzz::XmlElement* orig_stanza, const buzz::XmlElement* response_stanza);	Called when we get a response to a message that we sent.
void RemoveClient (const std::string& session_type)	Removes a SessionClient from the ID/ SessionClient map.
void set_session_timeout (int <i>timeout</i>)	Sets the session timeout. See session_timeout .
void TerminateAll()	Calls Session::Terminate on all sessions. Currently not used.

Signals

SignalSessionCreate < Session *, bool >

Sent when SessionManager creates a new Session object (in CreateSession).

SignalSessionDestroy< Session *>

Called by **DestroySession**.

SignalOutgoingMessage< const buzz::XmlElement* >

Called to send an outgoing message. SessionManagerTask subscribes to this to send XMPP messages.

SignalRequestSignaling

Called by **OnRequestSignaling** to verify that the signaling channel is open. The application should connect to this signal and reply by calling **SessionManager::OnSignalingReady**.

SignalSendResponse< Session *, const SessionResponseMessage * >

Sends an error message stanza in reply to an incoming stanza that could not be routed properly or understood. This is caught by **SessionClient** which sends it out.

Attributes: public

Declaration file: talk/p2p/base/sessionmanager.h

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