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Open Communications

libjingle

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Changelist

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ChannelManager

P2PChannelTransport Class

Wraps communication between the local and remote computer, handled by one or more **Connection** objects. It monitors these connections and acts as the intermediary for peer to peer data between **Transport** and the **Connection** object. Call **SendPacket** to send data, and connect to **SignalReadPacket** to read incoming data. **P2PTransport** creates this channel at the request of the **Session** object. See **Transports**, Channels, and Connections for more information.

These methods are not thread-safe. Any method that does not have a calling thread specified can be called from any thread.

Syntax

Methods

The following table lists the public methods of P2PTransportChannel.

Name	Description	
~P2PTransportChannel	Destructor. Deletes references to all PortAllocatorSession objects that it holds.	
bool writable()	Indicates whether the channel is currently writable. This method must be called from the worker thread.	
Connection* best_connection()	Retrieves the best connection for this channel, as determined by preference and writability.	
const std::vector <connection*> connections()</connection*>	Retrieves a list of Connection objects managed by this object.	
int GetError()	Retrieves the last error that the channel had.	
int SendPacket (const char *data, size_t len)	Sends <i>data</i> of size <i>len</i> bytes to the connected computer over the best connection.	
int SetOption(Socket::Option opt, int value)	Sets various sending optionsl. Currently, the only values are as follows: • OPT_DONTFRAGMENT 1 or 0 (true or false) Specifies whether data blocks sent to Send can be	

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Class		split up and sent in multiple packets. True means
Connection Class		they cannot.
FileStream Class	P2PTransportChannel(const	Constructor. This object must be created in the worker
HttpPortAllocator Class	std::string &name,	thread.
MediaChannel Class	const std::string &session_type,	 name An arbitrary value used to identify the channel. This value is passed down and reused for the port objects that it creates. The file share
MediaEngine Class	P2PTransport* transport,	sample creates this name in
MemoryStream Class	PortAllocator *allocator);	FileShareSession::RequestConnectedStream and FileShareSession::OnProxyAccept; the voice chat
P2PTransportCha···		 example in the VoiceChannel constructor. session_type A unique session type associated with
Port Class		the session that created this object. See
PresenceOutTask Class		 Session:session_type for more information. transport The Transport object creating this object. allocator The PortAllocator subclass created by the
PresencePushTask Class		client.
Session Class	std::string& name()	A unique name associated with this channel, created inside
SessionClient Class		the code. This name is used to differentiate between multiple channels in the same Transport .
SessionManager Class	Transport* GetTransport()	Returns the Transport object that manages this channel.
SessionSendTask Class	void Connect()	Begins the process of attempting to make a connection to the other client.
StreamEvent Enumeration	void OnChannelMessage(const	Received an incoming message. Typically the incoming message is a candidate message describing the remote
StreamInterface Class	buzz::XmlElement* <i>msg</i>)	candidate, which triggers P2PTransportChannel to create connections to the remote candidate.
StreamResult Enumeration	void OnMessage (Message *pmsg)	The listener for multithreaded requests.
StreamState Enumeration	void OnSignalingReady ()	Called by SocketManager to indicate that the signaling thread is ready.
Task Class	void Pacet()	Poorto the chiest to the come state it had after the
VoiceChannel Class	void Reset()	Resets the object to the same state it had after the constructor was called. This method must be called from
XmppClient Class		the worker thread.
XmppEngine Class	Cianala	

Signals

XmppPump

XmppTask Class

Signal Channel Message < Transport Channel Impl*, buzz:: Xml Element*>

Sends an outgoing message through the **Session** object.

License SignalRequestSignaling

Sent to indicate that the signaling thread is live.

Google Talk XMPP Extensions

SignalReadPacket< TransportChannel *, const char *, size_t >
Sent when the socket has a packet of data from the other computer.

User Settings SignalConnectionMonitor<P2PTransportChannel*>

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Sent with a pointer to itself when the connection state changes.

Off the Record Chats

Jingle Server Discovery

Gmail Notifications

Shared Status Messages

Extended Contact

Attributes

JID Domain Discovery

Voicemail

OAuth 2.0 Authorization

Additional Resources

Other IM Clients

Accessories

Google Talk Blog

SignalReadibleState<TransportChannel*>

ignaikeadibleState<TransportChannei^;

Sent when the channel is readible.

SignalWritableState<TransportChannel*>

Sent when the channel is writable.

SignalConnectionMonitor< P2PTransportChannel *>

Sent when the list of available connections is being evaluated. You should not need to listen for this signal.

SignalRouteChange <TransportChannel*, const talk_base::SocketAddress&>

Sent when there is a change in the way that packets are being routed. The address indicates the address of the first hop in the new route, if this is known. If this cannot be determined or is not well-defined, then the channel may give an address of 0.

Attributes: public

Declaration file: talk/p2p/base/p2ptransportchannel.h

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