

ADOBE® CONNECT™

XMPP Multi-User Chat SyncSWF (XmppChat.swf)

1 Introduction

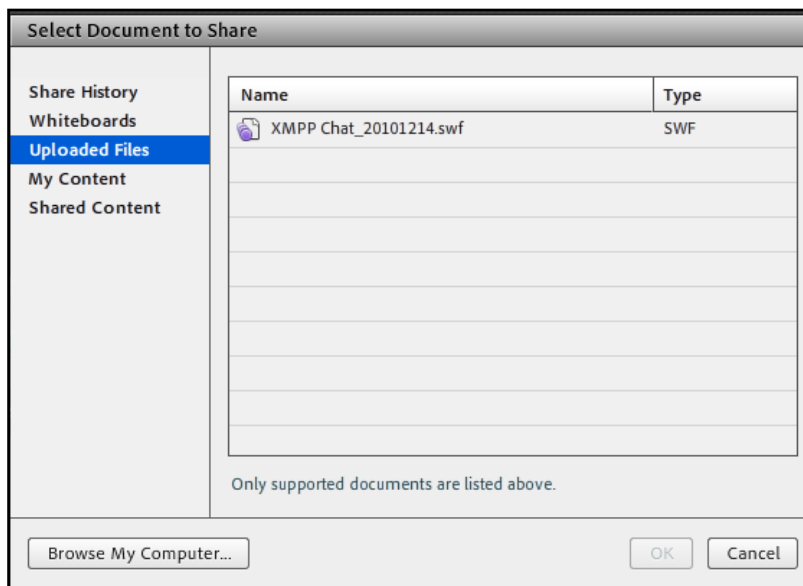
Adobe Connect enables linkages with presence-based systems supporting the XMPP¹ and SIP/SIMPLE² protocols.

With version 8, Adobe Connect expands the set of presence-aware capabilities by offering a new meeting extension (SyncSWF) allowing meeting attendees to follow multi-party conversations hosted on an XMPP-based server.

Built on the new ActionScript3-based SDK released with Connect 8, this new extension (XmppChat.swf) appears like a “pod” (task-specific screen) once uploaded into the Adobe Connect meeting room. It enables meeting participants to be logged into an XMPP server and access the chat rooms (“text conferences”) hosted on this server. The XMPP Chat extension utilizes a secure client connection to the XMPP server and is compliant with the XMPP standard (RFC 3920-3921 + XEPs).

2 Feature Overview

Step 1 - Meeting Hosts or Presenters can upload and share the XmppChat.swf file from the Share pod to start the XMPP Multi-User Chat extension.



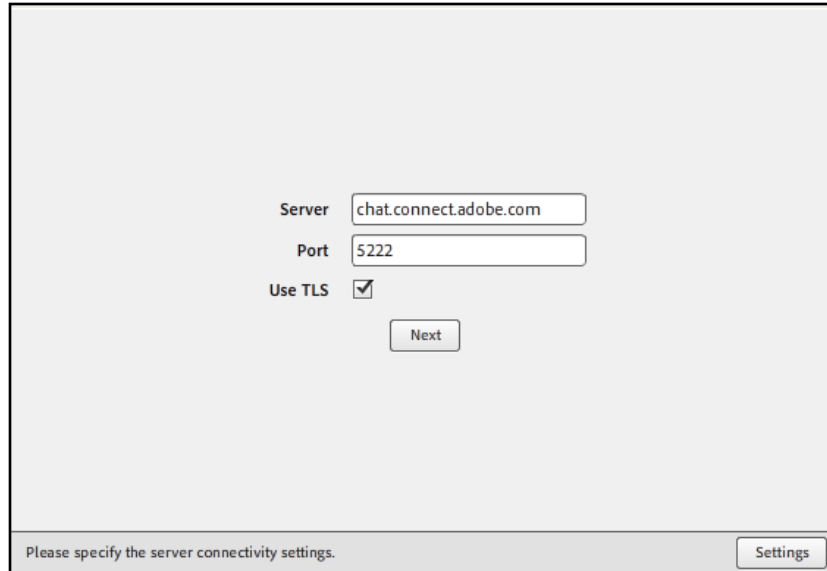
At any point in time, the Host or Presenter³ can stop sharing this extension by clicking the “Stop Sharing” button in the toolbar of the Share point.

¹ XMPP: eXtensible Messaging and Presence Protocol

² SIP: Session Initiation Protocol

³ a Power User (i.e. participant with enhanced Share Pod rights) is treated the same way as a Presenter.

Step 2 - Once it has loaded in the Share pod, the extension displays the **Server Connectivity screen** to the Host or Presenter.



Server

Port

Use TLS ☒

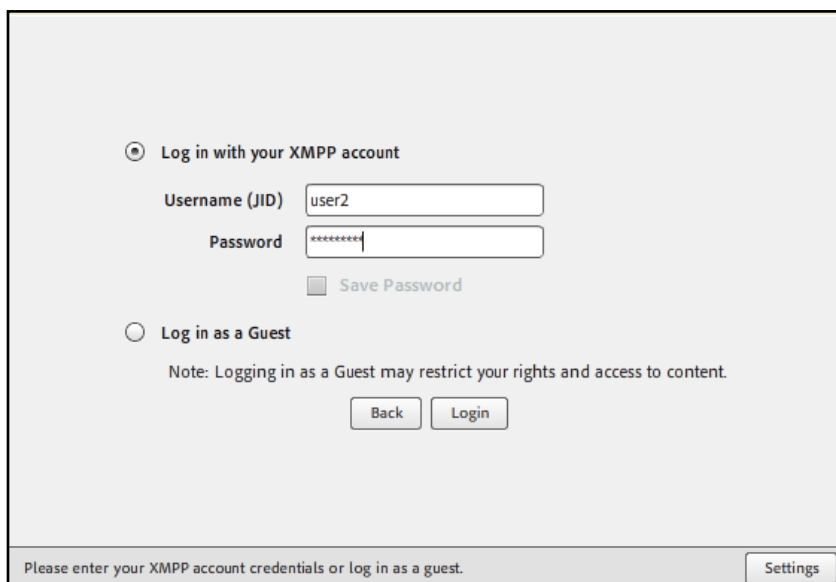
Please specify the server connectivity settings.

The Host or Presenter can specify the address (FQDN or IP) of the XMPP server and the connection settings (port, TLS option).

Step 3 - Upon clicking "Next", the Host or Presenter is presented with the **Login screen**. This Login screen is also visible to meeting attendees (participants and guests) when the pod is shared in the meeting room.

2 options are offered:

- **Log in with your XMPP account:** this option implies that the user has an account already provisioned on the XMPP server. This option must be used by Hosts or Presenters in order to select the XMPP text conference room to share in the meeting. This option should be used by other participants so that they can view the entire feeds and post messages in XMPP text conference rooms.
- **Log in as a Guest:** this option is offered to Adobe Connect participants who do not have an account provisioned on the XMPP server. These users can view the feeds (assuming the Host or Presenter has not chosen to hide them from non-XMPP participants) but cannot post.



☒ Log in with your XMPP account

Username (JID)

Password

☐ Save Password

☐ Log in as a Guest

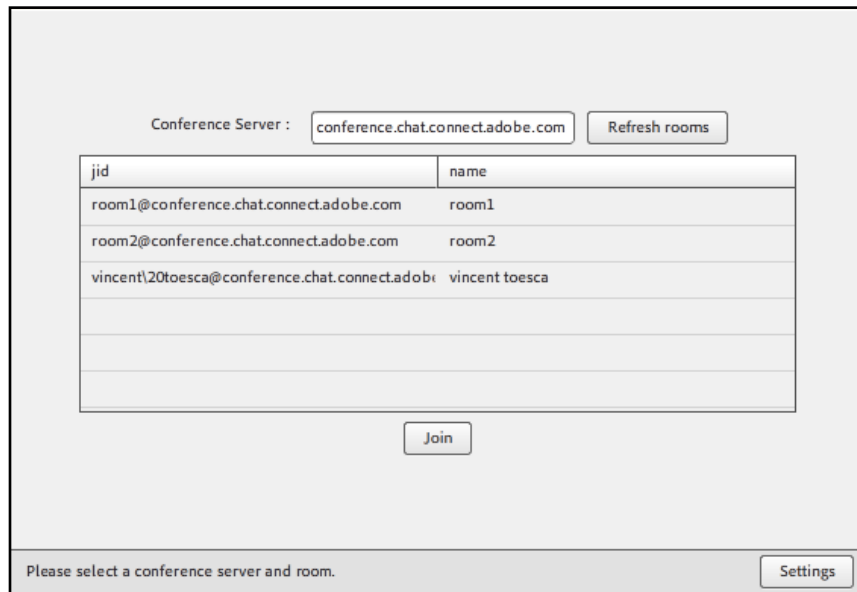
Note: Logging in as a Guest may restrict your rights and access to content.

Please enter your XMPP account credentials or log in as a guest.

Step 4 - Upon successful connection, the Host or Presenter can access the **Conference list** screen.

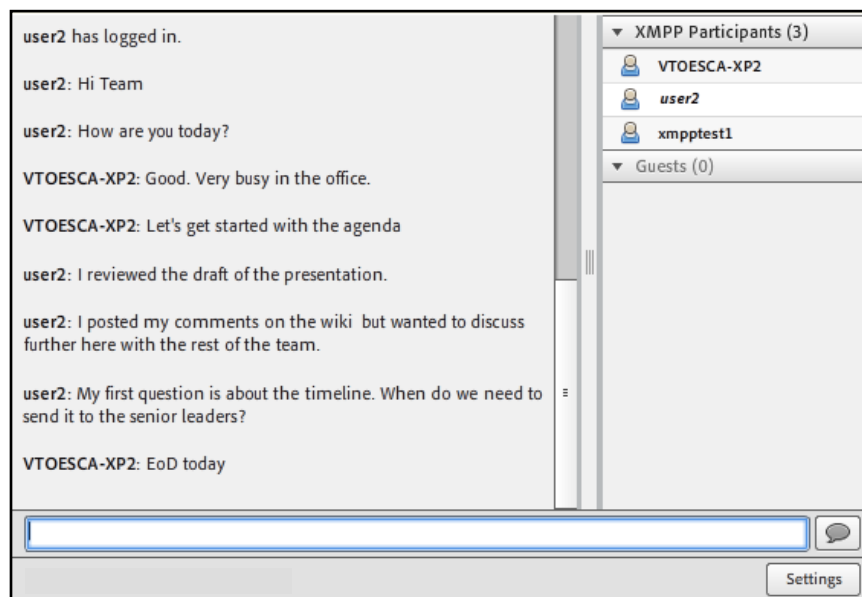
This is the list of all text conference rooms already created on the XMPP server. The Host or Presenter can click "Browse rooms" or "Refresh rooms" to retrieve the up-to-date list of rooms. It is not possible to create an XMPP text conference room directly from the XmppChat extension; only existing rooms can be accessed.

The Host or Presenter can select a room in the list and click "Join" to access it.



jid	name
room1@conference.chat.connect.adobe.com	room1
room2@conference.chat.connect.adobe.com	room2
vincent\20toesca@conference.chat.connect.adobe.com	vincent toesca

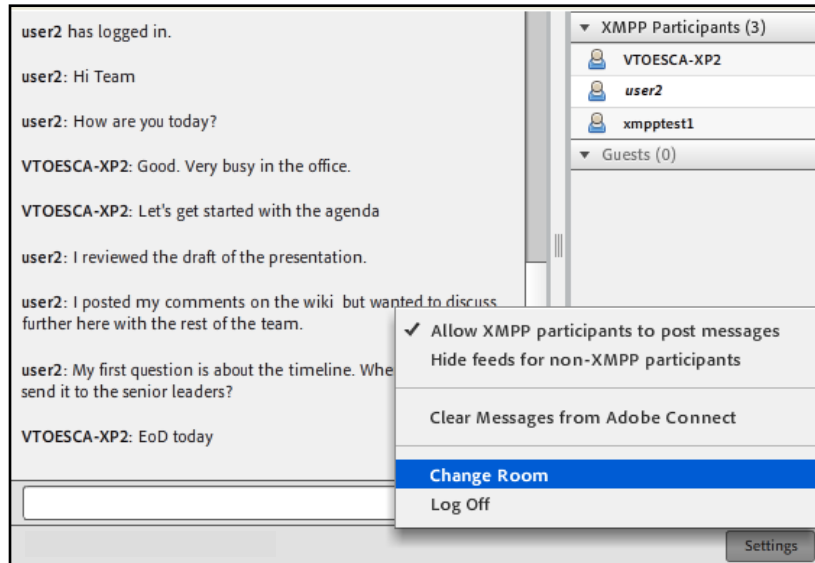
Step 5 - Once joined into the XMPP text conference room, the Host or Presenter and the other meeting participants can see the messages posted by XMPP users in this text conference room. If they have logged into the XmppChat extension with a valid account on the XMPP server, they can also post messages⁴ by typing in the text field and hitting the send ("bubble") button. Non-XMPP participants can never post messages.



⁴ This default setting can be modified by Hosts

Step 6 - Using the "Settings" button located at the bottom of the XmppChat screen, the Host or Presenter can modify the views of the text conference room:

- **Allow XMPP participants to post messages** (enabled by default): the Host or Presenter enables meeting participants who have an XMPP account to post messages in the text conference room
- **Hide feeds from non-XMPP participants** (disabled by default): the Host or Presenter prevents meeting participants who do not have an XMPP account from seeing the feeds of the text conference room (meeting participants who have an XMPP account can see these feeds)
- **Clear messages from Adobe Connect:** the Host or Presenter can clear the history messages displayed in the XmppChat screen (this does not affect the history messages kept on the XMPP server)
- **Change Room:** the Host or Presenter can switch to another room (this brings the Host back to the Conference list screen). When a Host or Presenter changes the room, everybody else is automatically logged into the new room.
- **Log Out:** a logged-in user can disconnect from the text conference room (this does not affect other logged-in participants). However if a Host or Presenter logs off and logs into a new XMPP server, all other users will be logged out from the previous XMPP server and required to log into the newly selected XMPP server.



Finally, the Host or Presenter can stop sharing the XmppChat extension. This results in logging out all users who had joined the text conference from Adobe Connect.

3 Administrative Considerations

To use this functionality, the XMPP server must be capable of honoring cross-domain policy requests sent by the Adobe Flash Player (i.e. the Adobe Flash player should be able to retrieve a policy file on the master policy server at port 843).

Certain XMPP servers support this capability natively. For others, a policy file must be deployed by systems administrators on the host of the XMPP server. Adobe provides a script (Perl) and related instructions. This policy file allows instances of the Adobe Flash Player to open socket connections on a specific port (843) of the server host; it does not modify any other settings.

The XMPP server should also be configured to use SASL (Simple Authentication and Security Layer)

4 Design & Security

This extension is provided as an Adobe Flash file (SWF).

All communication with the server is carried out over an SSL Socket (Assuming user does not specifically deselect the option to use TLS).

5 Known Issues

- On resizing of the pod to very small size, some truncation of the sides occurs.

6 Future Improvements (not in this version)

- Support for Password protected rooms.
- Support for changing status.
- Ability to create new users/conference rooms.
- Query the properties of the joined room to display its type (e.g. public, private, password-protected, membership only)
- Support save password functionality

7 Other Presence Features in Adobe Connect

Since version 7, Adobe Connect has enabled meeting hosts to see the presence of users logged on Microsoft LCS/OCS and send them instant messages from within the Connect room. This workflow has notable value in business continuity or emergency response situations, where experts need to be rapidly contacted and included into meetings.

Adobe Connect meetings can also be launched ("click-to-launch") from certain XMPP-based clients (compliant with XEP-050 "Ad-Hoc Commands") connected to a Cisco/Jabber XCP server configured for interconnectivity with Adobe Connect (please refer to other documentation for details).