XEP-0007: Conferencing SIG

David Waite
mailto:akuma@jabber.org
xmpp:akuma@jabber.org

2002-05-08
Version 1.1

<table>
<thead>
<tr>
<th>Status</th>
<th>Type</th>
<th>Short Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obsolete</td>
<td>SIG Proposal</td>
<td>N/A</td>
</tr>
</tbody>
</table>

A proposal for a Jabber Interest Group that will discuss the protocol for implementing many-to-many communications.
Legal

Copyright

This XMPP Extension Protocol is copyright © 1999 – 2020 by the XMPP Standards Foundation (XSF).

Permissions

Permission is hereby granted, free of charge, to any person obtaining a copy of this specification (the "Specification"), to make use of the Specification without restriction, including without limitation the rights to implement the Specification in a software program, deploy the Specification in a network service, and copy, modify, merge, publish, translate, distribute, sublicense, or sell copies of the Specification, and to permit persons to whom the Specification is furnished to do so, subject to the condition that the foregoing copyright notice and this permission notice shall be included in all copies or substantial portions of the Specification. Unless separate permission is granted, modified works that are redistributed shall not contain misleading information regarding the authors, title, number, or publisher of the Specification, and shall not claim endorsement of the modified works by the authors, any organization or project to which the authors belong, or the XMPP Standards Foundation.

Warranty

## NOTE WELL: This Specification is provided on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. ##

Liability

In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall the XMPP Standards Foundation or any author of this Specification be liable for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising from, out of, or in connection with the Specification or the implementation, deployment, or other use of the Specification (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if the XMPP Standards Foundation or such author has been advised of the possibility of such damages.

Conformance

This XMPP Extension Protocol has been contributed in full conformance with the XSF’s Intellectual Property Rights Policy (a copy of which can be found at <https://xmpp.org/about/xsf/ipr-policy> or obtained by writing to XMPP Standards Foundation, P.O. Box 787, Parker, CO 80134 USA).
Contents

1 Introduction .................................................................................................................. 1
2 Base conferencing protocol ......................................................................................... 1
3 Justification for new Conferencing protocol ............................................................... 2
4 Continuing Development .............................................................................................. 3
1 Introduction

The following proposal is for the formation of a Jabber Interest Group that will create a new conferencing protocol, as well as create additional functionality and standardize communications on top of said conferencing protocol.

2 Base conferencing protocol

The initial task of the Conferencing SIG will be to propose a Jabber Conferencing specification that will solve various problems which exist in the current "groupchat" specification. This specification is meant to be a foundation for additional functionality; it defines the framework needed to provide additional features, without requiring changes to the framework specification itself. There is also to be a certain amount of feature-negotiation included; the conferencing service can define what features can be declared for a room, both as optional and required client features for room participation. The framework’s scope consists of the following minimum functionality:

- Browsing a list of public rooms
- Finding a public room based on search parameters
- Creating new rooms
- Destroying rooms
- Entering existing rooms
- Altering functionality of a room
- Querying a room for public information
- Sending and accepting invitations to a room
- Changing a participant’s nickname within a room
- Discovering and changing features on a running room
- Changing a participant’s status within a room
- Sending a message to a room or a specific participant within a room

In addition to these basic functions, we can imagine numerous different types of conferencing features; for example, hidden rooms created on the fly for discussions between a Jabber user and their friends or co-workers, transports providing access to similar foreign systems such as IRC, additional client functionality such as shared-location (URL/Co-browsing) and whiteboarding, and so on. There might also be requirements for security levels (for instance,
normal participant, moderator, and room admin). Additional information may also be conveyed to users about one another, such as a user’s real Jabber ID. Room entry or participation within a discussion might also have restrictions on some systems. The framework protocol is meant to provide a basis for designing these additional features. Some features, such as co-browsing, could be implemented entirely client-side; others may require significant logic within the conferencing implementation. In addition, some features may be optional for participation within a room, while other features could be required in order for a client to participate within a room.

3 Justification for new Conferencing protocol

While the current "groupchat" specification is rather simple to implement, it is rather inflexible and cannot easily be extended; specifically, it has the following disadvantages:

- There is no control over how you enter a room - for instance, you can not specify a password for entering a password-protected room.

- There is no way to create a room without entering it, and no way to tell the state of the room without being a participant within it. This means among other things that a client can not transparently use groupchat for starting multi-user chats.

- Changes in room state are often conveyed via text messages rather than XML. Among other things, this limits the display of messages to the English language and limits a client author’s freedom in displaying this information.

- A Participant’s entry into a room is abstracted from their real Jabber account in both the old and new protocols; however, "groupchat" provides no way of tracking users across nickname changes or across sessions within a conference room.

- The "groupchat" protocol has no way of performing feature negotiation (e.g., specifying the additional protocol elements needed to participate in a room, or optionally allowed from participants within a room). If there were participants with clients sending custom data through the room (such as XHTML or whiteboarding), you would receive that information even without your client being able to support it, and have no way of distinguishing altered behavior due to additional features of a "groupchat" implementation.

This new conferencing protocol will be designed to solve these problems. Because of the prevalence of the existing "groupchat" specification for multi-user chats, a long conversion process is anticipated. A server implementation which supports both protocols will simply not allow "groupchat"-only clients to participate in rooms with required features.
4 Continuing Development

As listed above, there is a fairly large number of features that could be developed on top of a well-designed framework. The Conferencing SIG will first be established to develop a framework, with features mainly being compared against the framework for feasibility of implementation. After a proposal has been formalized as a specification, the SIG will become a group for discussing and proposing new features, and for formally specifying those features.