This document defines a way to indicate that a message is a reply to a previous message.
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1 Introduction

When commenting on a previous message, it is sometimes desired to clarify which message the comment refers to. Currently, Message Styling (XEP-0393) \(^1\) quotes are commonly used for that purpose. However, this format does not allow receiving clients to properly identify the referenced message or to adjust the user interface accordingly. This specification defines a way to indicate that a message is a reply to a previous message. It does not intend to provide means to create sub-threads for a message.

2 Use Cases

To indicate that a message is a reply, a `<reply>` element in the urn:xmpp:reply:0 namespace is placed in the message stanza. The `<reply>` element has a 'to' attribute containing the full jid of the author of the referenced message and an 'id' attribute containing the id of the referenced message.

Listing 1: Max replies to Anna’s message

```xml
<message to='max@example.com' from='anna@example.com/tablet' id='message-id1' type='chat'>
  <body>We should bake a cake</body>
</message>

<message to='anna@example.com' id='message-id2' type='chat'>
  <body>Great idea!</body>
  <reply to='anna@example.com/tablet' id='message-id1' xmlns='urn:xmpp:reply:0' />
</message>
```

2.1 Compatibility Fallback

To provide a fallback for non-supporting clients, the sending client MAY include fallback text in the body and indicate it via Compatibility Fallback.

Listing 2: Anna replies to a message and includes a fallback

```xml
<message to='anna@example.com' id='message-id3' type='chat'>
  <body>
    > Anna wrote:
    > We should bake a cake
    > Great idea!
  </body>
</message>
```

The receiving client SHOULD NOT display the compatibility fallback if it renders the referenced message alongside the reply in some way. However, if the receiving client does not display the referenced message, for example because it doesn’t know the referenced id, it MAY display the compatibility fallback instead.

3 Business Rules

Answers MUST NOT be assumed to relate to any other messages than the referenced one.

3.1 Using the correct ID

For messages of type 'groupchat', the stanza’s 'id' attribute MUST NOT be used for replies. Instead, in group chat situations, the ID assigned to the stanza by the group chat itself must be used. This is discovered in a <stanza-id> element with a 'by' attribute that matches the bare JID of the group chat, as defined in Unique and Stable Stanza IDs (XEP-0359)². This implies that group chat messages without a Unique and Stable Stanza IDs (XEP-0359)³ stanza-id cannot be replied to.

For other message types the sender should use the 'id' from a Unique and Stable Stanza IDs (XEP-0359)⁴ <origin-id> if present, or the value of the 'id' attribute on the <message> otherwise.

4 IANA Considerations

This document requires no interaction with the Internet Assigned Numbers Authority (IANA)⁵.

⁵The Internet Assigned Numbers Authority (IANA) is the central coordinator for the assignment of unique parameter values for Internet protocols, such as port numbers and URI schemes. For further information, see <http://www.iana.org/>.
5 XMPP Registrar Considerations

This document requires no interaction with XMPP Registrar.\(^6\)

\(^6\)The XMPP Registrar maintains a list of reserved protocol namespaces as well as registries of parameters used in the context of XMPP extension protocols approved by the XMPP Standards Foundation. For further information, see [https://xmpp.org/registrar/](https://xmpp.org/registrar/).