



# XMPP

## XEP-0442: Pubsub Message Archive Management

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This document defines a protocol to query and control a pubsub node's message archive.

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## 1 Introduction

This document specifies how to use [Message Archive Management \(XEP-0313\)](https://xmpp.org/extensions/xep-0313.html)<sup>1</sup> in combination with [Publish-Subscribe \(XEP-0060\)](https://xmpp.org/extensions/xep-0060.html)<sup>2</sup> to host and query archives on pubsub nodes.

## 2 Querying a pubsub archive

When querying a pubsub node's archive, the 'node' attribute is added to the <query> element.

Listing 1: A user queries a pubsub node's archive for messages

```
<iq to='pubsub.shakespeare.lit' type='set' id='juliet1'>
  <query xmlns='urn:xmpp:mam:2' queryid='f28' node='fdp/submitted/
    capulet.lit/sonnets' />
</iq>
```

Listing 2: Server returns pubsub messages

```
<message id='iasd208' to='juliet@capulet.lit/chamber'>
  <result xmlns='urn:xmpp:mam:2' queryid='g28' id='28482-20987-73623'>
    <forwarded xmlns='urn:xmpp:forward:0'>
      <delay xmlns='urn:xmpp:delay' stamp='2010-07-10T23:08:25Z' />
      <message xmlns="jabber:client">
        <event xmlns='http://jabber.org/protocol/pubsub#
          event'>
          <items node='princely_musings'>
            <item id='ae890ac52d0df67ed7cfd51b644e901'>
              <entry xmlns='http://www.w3.org/2005/Atom'>
                <title>Soliloquy</title>
                <summary>
                  To be, or not to be: that is
                  the question:
                  Whether 'tis nobler in the
                  mind to suffer
                  ..... The slings and arrows of
                  outrageous fortune,
                  ..... Or to take arms against a sea
                  of troubles,
                  ..... And by opposing end them?
                </summary>
                <link_rel='alternate' type='text/html'
                  href='http://denmark.lit/2003/12/13/
                  atom03' />
                <id>tag:denmark.lit,2003:entry-32397</id>
```

<sup>1</sup>XEP-0313: Message Archive Management <<https://xmpp.org/extensions/xep-0313.html>>.

<sup>2</sup>XEP-0060: Publish-Subscribe <<https://xmpp.org/extensions/xep-0060.html>>.

```
.....<published>2003-12-13T18:30:02Z</published>
.....<updated>2003-12-13T18:30:02Z</updated>
.....</entry>
.....</item>
.....</items>
.....</event>
.....</message>
....</forwarded>
..</result>
</message>
```

### 3 Business Rules

A PubSub service offering MAM SHOULD store each of the items published to each node. When responding to MAM requests it MUST construct the message stanza within the <forwarded> element in the same manner as the notifications sent to subscribers for the item, except that specifying the 'from' 'to' and 'id' attributes are OPTIONAL. Pubsub items must be returned one per message stanza (i.e. there MUST NOT be multiple <item> elements within the <items> element).