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) \(^1\) in combination with Publish-Subscribe (XEP-0060) \(^2\) 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='ae890ac52d0df67ed7cfdf51b644e901'>
              <entry xmlns='http://www.w3.org/2005/Atom'>
                <title>Soliloquy</title>
                <summary>soliloquy
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>
            </entry>
            <link rel='alternate' type='text/html' href='http://denmark.lit/2003/12/13/atom03'/>
          </item>
        </items>
      </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).