



XMPP

XEP-0501: Pubsub Stories

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This specification defines a way of publishing Stories over XMPP.

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Contents

1	Glossary	1
2	Introduction	1
3	Discovery	1
4	Protocol	2
4.1	Pubsub Stories profile	2
4.1.1	Pubsub Node Configuration	2
5	Business Rules	2
6	Security Considerations	2
7	IANA Considerations	2
8	XMPP Registrar Considerations	3
9	XML Schema	3

1 Glossary

Story An item stored in a Stories Pubsub node.

2 Introduction

Introduced by Snapchat in 2012 Stories are a way for users to share content that can be viewed for a specific amount of time in chronological order.

[PubSub Social Feed \(XEP-0472\)](#)¹ already defines a generic way of publishing social content on XMPP. This extension defines a way to publish Stories content on a user [Personal Eventing Protocol \(XEP-0163\)](#)² node.

This extension extends [PubSub Social Feed \(XEP-0472\)](#)³ by defining a new Profile (see [Profiles](#)) called Pubsub Stories.

3 Discovery

If an entity implements Pubsub Stories, it MUST specify the 'urn:xmpp:pubsub-social-feed:1' and 'urn:xmpp:pubsub-social-feed:stories:0' features in its service discovery information features as specified in [Service Discovery \(XEP-0030\)](#)⁴ and the Entity Capabilities profile specified in [Entity Capabilities \(XEP-0115\)](#)⁵.

If an entity wish to receive notifications from a contact when a Story is published it should also declares it in its service discovery followed by "+notify"

Listing 1: The entity responds with Stories feature

```
<iq type='result'
  id='disco1'
  from='juliet@capulet.lit/sabo239'
  to='romeo@montegue.lit/30d3d8'>
  <query xmlns='http://jabber.org/protocol/disco#info'>
    ...
    <feature var='urn:xmpp:pubsub-social-feed:1' />
    <feature var='urn:xmpp:pubsub-social-feed:stories:0' />
    <feature var='urn:xmpp:pubsub-social-feed:stories:0+notify' />
    ...
  </query>
</iq>
```

¹XEP-0472: PubSub Social Feed <<https://xmpp.org/extensions/xep-0472.html>>.

²XEP-0163: Personal Eventing Protocol <<https://xmpp.org/extensions/xep-0163.html>>.

³XEP-0472: PubSub Social Feed <<https://xmpp.org/extensions/xep-0472.html>>.

⁴XEP-0030: Service Discovery <<https://xmpp.org/extensions/xep-0030.html>>.

⁵XEP-0115: Entity Capabilities <<https://xmpp.org/extensions/xep-0115.html>>.

4 Protocol

4.1 Pubsub Stories profile

This profile is defined by the Pubsub type "urn:xmpp:pubsub-social-feed:stories:0" and is hosted on a "urn:xmpp:pubsub-social-feed:stories:0" [Personal Eventing Protocol \(XEP-0163\)](#)⁶ node.

All the items published in a Pubsub Stories node MUST have only one attached media. This media MUST be of type "enclosure" as specified in [RFC 4287](#)⁷.

Listing 2: An Atom attached picture

```
<link rel='enclosure' href='https://capulet.lit/upload/romeo-story.jpg' type='image/jpeg' title='Stories_03-02-1597' />
```

4.1.1 Pubsub Node Configuration

Stories node MUST base their default configuration on the [Base Profile](#) and:

1. The "pubsub#type" MUST be set to "urn:xmpp:pubsub-social-feed:stories:0"
2. The "pubsub#access_model" SHOULD be set to "presence".

5 Business Rules

Subscribers clients SHOULD hide the items after a specific amount of time, usually 24 hours. Publishers clients SHOULD retract the items after a specific amount of time, usually 24 hours.

6 Security Considerations

There are no security features or concerns related to this proposal.

7 IANA Considerations

This document requires no interaction with the [Internet Assigned Numbers Authority \(IANA\)](#)⁸.

⁶XEP-0163: Personal Eventing Protocol <<https://xmpp.org/extensions/xep-0163.html>>.

⁷RFC 4287: The Atom Syndication Format <<http://tools.ietf.org/html/rfc4287>>.

⁸The 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/>>.

8 XMPP Registrar Considerations

The [XMPP Registrar](#)⁹ is requested to issue an initial namespace of "urn:xmpp:pubsub-social-feed:stories:0".

9 XML Schema

This specification re-uses the schema for the Atom content format, i.e., the 'http://www.w3.org/2005/Atom' namespace (see [RFC 4287](#)¹⁰).

⁹The 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/>.

¹⁰RFC 4287: The Atom Syndication Format <http://tools.ietf.org/html/rfc4287>.