



XMPP

XEP-0501: Pubsub Stories

Timothée Jaussoin

<mailto:edhelas@movim.eu>

<xmpp:edhelas@movim.eu>

<https://edhelas.movim.eu>

2024-12-20

Version 0.2.0

Status	Type	Short Name
Experimental	Standards Track	ps

This specification defines a way of publishing Stories over XMPP.

Legal

Copyright

This XMPP Extension Protocol is copyright © 1999 – 2024 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	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	3
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@montague.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".
3. The "pubsub#item_expire" SHOULD be set, usually 24 hours (86400).

5 Business Rules

If the "pubsub#item_expire" value is set subscribers clients MUST hide or destroy the received items once they expire.

If the "pubsub#item_expire" value is not set 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.

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

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

7 IANA Considerations

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

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).

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/>.

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>.