



# XMPP

## XEP-0315: Data Forms XML Element

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This specification defines an XMPP protocol extension for including XML-data in XEP-0004 data forms.

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## 1 Introduction

In certain protocols that make use of [Data Forms \(XEP-0004\)](#)<sup>1</sup>, it can be helpful to include XML-data (for example, when we want to insert a big amount of structured data which is hard to insert as a separate fields). This document defines a method for including XML-data in a data form.

## 2 XML Element

The root element for XML-data is `<wrapper/>`. This element MUST be qualified by the "urn:xmpp:xml-element" namespace. The `<wrapper/>` element MUST be contained within a `<field/>` element qualified by the 'jabber:x:data' namespace.

The `<wrapper/>` element SHOULD contain an XML-data which needs to be represented in a form.

Listing 1: PubSub Blog Node Metadata

```
<wrapper xmlns='urn:xmpp:xml-element'>
  <feed xmlns='http://www.w3.org/2005/Atom'>
    <title>Romeo&apos;s Microblog</title>
    <id>tag:montague.lit,2008:home</id>
    <updated>2008-05-08T18:30:02Z</updated>
    <author>
      <name>Romeo Montague</name>
      <uri>xmpp:romeo@montague.lit</uri>
    </author>
  </feed>
</wrapper>
```

Listing 2: Inclusion in Data Form

```
<x xmlns='jabber:x:data' type='form'>
  [ ... ]
  <field var='xml-metadata' type='hidden'>
    <wrapper xmlns='urn:xmpp:xml-element'>
      <feed xmlns='http://www.w3.org/2005/Atom'>
        <title>Romeo&apos;s Microblog</title>
        <id>tag:montague.lit,2008:home</id>
        <updated>2008-05-08T18:30:02Z</updated>
        <author>
          <name>Romeo Montague</name>
          <uri>xmpp:romeo@montague.lit</uri>
        </author>
      </feed>
    </wrapper>
  </field>
</x>
```

<sup>1</sup>XEP-0004: Data Forms <<https://xmpp.org/extensions/xep-0004.html>>.

```
    </wrapper>
  </field>
  [ ... ]
</x>
```

### 3 Usage Practices

XML-data is usually hard for manual editing and SHOULD be used only for machine level interactions. So it's RECOMMENDED to include it in the form as a "hidden" field.

However, there are situations when human editing of XML-data may be useful (for example, to see XML-logs of some XMPP-service). In that case it's RECOMMENDED for a client to represent this XML in a pretty formatted form and give an instruments to make it easier to edit XML-data.

### 4 IANA Considerations

This document requires no interaction with the [Internet Assigned Numbers Authority \(IANA\)](#)<sup>2</sup>.

### 5 XMPP Registrar Considerations

#### 5.1 Protocol Namespaces

The [XMPP Registrar](#)<sup>3</sup> includes "urn:xmpp:xml-element" in its registry of protocol namespaces (see <https://xmpp.org/registrar/namespaces.html>).

### 6 XML Schema

```
<?xml version='1.0' encoding='UTF-8'?>
<xs:schema
  xmlns:xs='http://www.w3.org/2001/XMLSchema'
  targetNamespace='urn:xmpp:xml-element'
  xmlns='urn:xmpp:xml-element'
  elementFormDefault='qualified'>
```

<sup>2</sup>The 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/>.

<sup>3</sup>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/>.

```
<xs:annotation>
  <xs:documentation>
    The protocol documented by this schema is defined in
    XEP-XXXX: http://www.xmpp.org/extensions/xep-xxxx.html
  </xs:documentation>
</xs:annotation>

<xs:element name='wrapper'>
  <xs:complexType>
    <xs:sequence>
      <xs:any minOccurs='0' maxOccurs='unbounded' />
    </xs:sequence>
  </xs:complexType>
</xs:element>

</xs:schema>
```