XEP-0315: Data Forms XML Element

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<table>
<thead>
<tr>
<th>Status</th>
<th>Type</th>
<th>Short Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deferred</td>
<td>Standards Track</td>
<td>media-element</td>
</tr>
</tbody>
</table>

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)\(^1\), 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 Media 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

```xml
<wrapper xmlns='urn:xmpp:xml-element'>
  <feed xmlns='http://www.w3.org/2005/Atom'>
    <title>Romeo'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

```xml
<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'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>
```

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) ².

5 XMPP Registrar Considerations

5.1 Protocol Namespaces

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

6 XML Schema

```xml
<?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'>
```

²The Internet Assigned Numbers Authority (IANA) is the central coordinator for the assignment of unique pa-
parameter values for Internet protocols, such as port numbers and URI schemes. For further information, see <http://www.iana.org/>.

³The 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>