A protocol for displaying web-based tabs in clients.
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1 Introduction

Webtabs are a way for servers to specify a number to web pages which can be used in clients and displayed like the web-based services in Yahoo Messenger, MSN Messenger and JIM. This enables a server administrator to easily create services for Jabber clients and also help to integrate Jabber clients with existing web-based applications.

2 Requirements

The motivations for this document are:

- To enable servers to specify a selection of web-based services for use in a client.
- To allow easy integration with existing web-based systems.
- To give more value to people's Jabber services over another's.
- To allow the creation of virtually limitless web-based services for Jabber clients without clients needing to be specifically coded to support that service.

3 Use Cases

3.1 Service Discovery

Service Discovery (XEP-0030) \(^1\) SHALL be used for discovering support for webtabs on servers.

Listing 1: Disco info response containing support for webtabs

```xml
<iq type='result'
   from='domain.com'
   to='user@domain/resource'
   id='disco1'>
   <query xmlns='http://jabber.org/protocol/disco#info'>
     <feature var='http://jabber.org/protocol/webtab'/>
   </query>
</iq>
```

It is RECOMMENDED that the jabber server itself (JSM in jabberd) serves the webtab list, but if desired by the server implementor they MAY be served by a separate host/component.

Listing 2: Separate webtab host specified by server

```xml
<iq type='result' from='domain.com' to='user@domain/resource' id='disco1'>
  <query xmlns='http://jabber.org/protocol/disco#items'>
    <item jid='webtabs.domain.com' name='Webtab_Provider'/>
  </query>
</iq>
```

Listing 3: Request for list of webtabs available on a server

```xml
<iq to='domain.com' type='get' id='webtab1'>
  <query xmlns='http://jabber.org/protocol/webtab'/>
</iq>
```

Listing 4: Response from server listing the available webtabs

```xml
<iq to='user@domain.com/resource' from='domain.com' type='result' id='webtab'>
  <query xmlns='http://jabber.org/protocol/webtab'>
    <wevtab type='email' id='em' name='Webmail'>
      http://tab.server.com/mail/
    </wevtab>
    <wevtab type='bookmark' id='bk' name='Bookmarks'>
      http://tab.server.com/bookmark/
    </wevtab>
  </query>
</iq>

3.2 Retrieving list of web tabs

The list of available web tabs is retrieved using the following protocol:
The we tab contains CDATA which is the URL of the we tab, the we tab is an HTML page retrieved from an HTTP server using a standard browser which you embed into your client UI using a technique such as the IWebBrowser2 control interface on windows which allows you to embed either the IE or Gecko engines depending on what you have installed, this data is REQUIRED.

The "type" attribute tells the client what the service being provided is, this allows a client to display icons on the tabs to represent them, handling of the type in clients is OPTIONAL, inclusion of this attribute is REQUIRED (See "XMPP Registrar Considerations" for examples of values for this attribute).

The "name" attribute is the official name of a particular service this can be displayed as the tab name, this attribute is REQUIRED.

The "id" attribute is a unique identifier for a service which you can use to refer to it later, used for when using private storage to store a preference to which tabs should be visible, this attribute is REQUIRED.

### 3.3 Private storage of preferences

Private XML Storage (XEP-0049) \(^2\) SHALL be used for storing webtab preferences.

<table>
<thead>
<tr>
<th>Listing 5: Request for current webtab preferences</th>
</tr>
</thead>
<tbody>
<tr>
<td>`&lt;iq to='domain.com' type='get' id='prefs1'&gt;</td>
</tr>
<tr>
<td>`&lt;query xmlns='jabber:iq:private'&gt;</td>
</tr>
<tr>
<td><code>&lt;prefs xmlns='webtab:prefs'/&gt;</code></td>
</tr>
<tr>
<td>&lt;/query&gt;</td>
</tr>
<tr>
<td>&lt;/iq&gt;`</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Listing 6: Response with webtab preferences</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>&lt;iq&gt;</code></td>
</tr>
</tbody>
</table>

3.4 Service authentication

It is RECOMMENDED that a mechanism such as HTTP Authentication using Jabber Tickets (XEP-0101) be used for automatic service authentication.

4 Implementation Notes

The following guidelines may assist client developers.

- Use the "type" attribute as a way of determining what services a webtab provides, you can then use this to possibly display appropriate icons to represent the webtab in the client UI.
- MUST use the "name" attribute when you have to refer to a webtab by name.
- MUST use the private storage specification provided to store information about which tabs SHOULD be visible.

5 Security Considerations

It is recommended that XEP-0101 be used to provide transparent authentication of the webtabs.

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6 IANA Considerations

No IANA interaction required.

7 XMPP Registrar Considerations

The XMPP Registrar will need to register the new namespace of "http://jabber.org/protocol/webtab" and possibly the list of official types will need to be managed too.

<table>
<thead>
<tr>
<th>Type</th>
<th>Purpose</th>
</tr>
</thead>
<tbody>
<tr>
<td>email</td>
<td>Web based email</td>
</tr>
<tr>
<td>calendar</td>
<td>Web based calendar</td>
</tr>
<tr>
<td>bookmark</td>
<td>Web based bookmark management service</td>
</tr>
<tr>
<td>news</td>
<td>General news headlines</td>
</tr>
<tr>
<td>news/sport</td>
<td>Sport headlines</td>
</tr>
</tbody>
</table>

4The 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/>.