XMPP

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http://tool s.ietf.org/html/rfc6121

https://xmpp.org/extensions/xep-0376.html

https://xmpp.org/extensions/xep-0369.html

```
<message from='coven@mix.shakespeare.example/123456'
         to='hecate@shakespeare.example'
         id='77E07BB0-55CF-4BD4-890E-3F7C0E686BBD'
         type='groupchat'>
  <body>Harpier cries: 'tis␣time,␣'tis time.</body>
  <mix xmlns='urn:xmpp:mix:core:1'>
    <nick>thirdwitch</nick>
    <jid>hag66@shakespeare.example</jid>
  </mix>
</message>
```

```
<message from='coven@mix.shakespeare.example/123456'
         to='hecate@shakespeare.example/UUID-x4r/2491'
         id='77E07BB0-55CF-4BD4-890E-3F7C0E686BBD'
         type='groupchat'>
  <body>Harpier cries: 'tis␣time,␣'tis time.</body>
  <mix xmlns='urn:xmpp:mix:core:1'>
    <nick>thirdwitch</nick>
    <jid>hag66@shakespeare.example</jid>
  </mix>
</message>

<message from='coven@mix.shakespeare.example/123456'
         to='hecate@shakespeare.example/UUID-b5b/0114'
         id='77E07BB0-55CF-4BD4-890E-3F7C0E686BBD'
         type='groupchat'>
  <body>Harpier cries: 'tis␣time,␣'tis time.</body>
  <mix xmlns='urn:xmpp:mix:core:1'>
    <nick>thirdwitch</nick>
    <jid>hag66@shakespeare.example</jid>
  </mix>
</message>
```

2.3 Messages To MIX Channels

2.4 Client Determines MIX Capability of Client's Server

```
<iq from='hag66@shakespeare.example/UUID-c8y/1573'
    id='lx09df27'
    type='get'>
  <query xmlns='http://jabber.org/protocol/disco#info'/>
</iq>

<iq id='lx09df27'
    to='hag66@shakespeare.example/UUID-c8y/1573'
    type='result'>
  <query xmlns='http://jabber.org/protocol/disco#info'>
    <feature var='urn:xmpp:mix:pam:2'/>
    <feature var='urn:xmpp:mix:pam:2#archive'/>
  </query>
</iq>
```

2.5 MIX Management and Discovery

2.6 MIX Join and Leave Support on Local Server

2.7 Joining a Channel

```
<iq type='set'
    from='hag66@shakespeare.example/UUID-a1j/7533'
    to='hag66@shakespeare.example'
    id='E6E10350-76CF-40C6-B91B-1EA08C332FC7'>
  <client-join xmlns='urn:xmpp:mix:pam:2' channel='coven@mix.
      shakespeare.example'>
    <join xmlns='urn:xmpp:mix:core:1'>
      <subscribe node='urn:xmpp:mix:nodes:messages'/>
      <subscribe node='urn:xmpp:mix:nodes:presence'/>
      <subscribe node='urn:xmpp:mix:nodes:participants'/>
      <subscribe node='urn:xmpp:mix:nodes:info'/>
    </join>
  </client-join>
</iq>
```

```
<iq type='set'
    from='hag66@shakespeare.example'
    to='coven@mix.shakespeare.example'
    id='E6E10350-76CF-40C6-B91B-1EA08C332FC7'>
  <join xmlns='urn:xmpp:mix:core:1'>
    <subscribe node='urn:xmpp:mix:nodes:messages'/>
    <subscribe node='urn:xmpp:mix:nodes:presence'/>
```

```
    <subscribe node='urn:xmpp:mix:nodes:participants'/>
    <subscribe node='urn:xmpp:mix:nodes:info'/>
  </join>
</iq>
```

```
<iq type='result'
    from='coven@mix.shakespeare.example'
    to='hag66@shakespeare.example'
    id='E6E10350-76CF-40C6-B91B-1EA08C332FC7'>
  <join xmlns='urn:xmpp:mix:core:1' jid='123456#coven@mix.shakespeare.
    example'>
    <subscribe node='urn:xmpp:mix:nodes:messages'/>
    <subscribe node='urn:xmpp:mix:nodes:presence'/>
    <subscribe node='urn:xmpp:mix:nodes:participants'/>
    <subscribe node='urn:xmpp:mix:nodes:info'/>
  </join>
</iq>
```

```
<iq type='result'
    from='hag66@shakespeare.example'
    to='hag66@shakespeare.example/UUID-a1j/7533'
    id='E6E10350-76CF-40C6-B91B-1EA08C332FC7'>
     <client-join xmlns='urn:xmpp:mix:pam:2'>
        <join xmlns='urn:xmpp:mix:core:1'
              jid='123456#coven@mix.shakespeare.example'>
          <subscribe node='urn:xmpp:mix:nodes:messages'/>
          <subscribe node='urn:xmpp:mix:nodes:presence'/>
          <subscribe node='urn:xmpp:mix:nodes:participants'/>
          <subscribe node='urn:xmpp:mix:nodes:info'/>
        </join>
     </client-join>
</iq>
```

https://xmpp.org/extensions/xep-0369.html
https://xmpp.org/extensions/xep-0369.html

2.8 Leaving a Channel

```
<iq type='set'
    from='hag66@shakespeare.example/UUID-a1j/7533'
    to='hag66@shakespeare.example'
    id='E6E10350-76CF-40C6-B91B-1EA08C332FC7'>
  <client-leave xmlns='urn:xmpp:mix:pam:2'
                channel='coven@mix.shakespeare.example'>
    <leave xmlns='urn:xmpp:mix:core:1'/>
  </client-leave>
</iq>
```

```
<iq type='set'
    from='hag66@shakespeare.example'
    to='coven@mix.shakespeare.example'
    id='E6E10350-76CF-40C6-B91B-1EA08C332FC7'>
  <leave xmlns='urn:xmpp:mix:core:1'/>
</iq>
```

```
<iq type='result'
    from='coven@mix.shakespeare.example'
    to='hag66@shakespeare.example'
```

https://xmpp.org/extensions/xep-0369.html
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```
      id='E6E10350-76CF-40C6-B91B-1EA08C332FC7'>
  <leave xmlns='urn:xmpp:mix:core:1'/>
</iq>
```

```
<iq type='result'
    from='hag66@shakespeare.example'
    to='hag66@shakespeare.example/UUID-a1j/7533'
    id='E6E10350-76CF-40C6-B91B-1EA08C332FC7'>
  <client-leave xmlns='urn:xmpp:mix:pam:2'>
    <leave xmlns='urn:xmpp:mix:core:1'/>
  </client-leave>
</iq>
```

2.9 Roster Management

2.9.1 Setting User Presence

```
<presence xmlns='jabber:client' from='hag66@shakespeare.example/UUID-
   a1j/7533'>
  <show>dnd</show>
  <status>Making a Brew</status>
</presence>
```

https://xmpp.org/extensions/xep-0084.html

https://xmpp.org/extensions/xep-0403.html

https://xmpp.org/extensions/xep-0045.html

https://xmpp.org/extensions/xep-0369.html

```
<presence  from='hag66@shakespeare.example/UUID-a1j/7533'
           to='coven@mix.shakespeare.example'>
  <show>dnd</show>
  <status>Making a Brew</status>
</presence>
```

2.9.2 Receiving User Presence

```
<presence from='123435#coven@mix.shakespeare.example/UUID-a1j/7533'
          to='hag99@shakespeare.example'
          id='77E07BB0-55CF-4BD4-890E-3F7C0E686BBD'>
  <mix xmlns='urn:xmpp:mix:presence:0'>
     <jid>hecate@shakespeare.example/UUID-x4r/2491</jid>
     <nick>thirdwitch</nick>
  </mix>
  <show>dnd</show>
  <status>Making a Brew</status>
</presence>
```

```
<presence from='123435#coven@mix.shakespeare.example/UUID-a1j/7533'
          to='hag99@shakespeare.example/UUID-rrr/1234'
          id='77E07BB0-55CF-4BD4-890E-3F7C0E686BBD'>
  <mix xmlns='urn:xmpp:mix:presence:0'>
     <jid>hecate@shakespeare.example/UUID-x4r/2491</jid>
     <nick>thirdwitch</nick>
  </mix>
  <show>dnd</show>
  <status>Making a Brew</status>
</presence>
```

---

https://xmpp.org/extensions/xep-0

403.html

2.9.3 Client Coming Online and Obtaining Presence from the Local Server

2.9.4 Going Offline

```
<presence type='unavailable'
          from='hag66@shakespeare.example/UUID-a1j/7533'
          to='coven@mix.shakespeare.example'/>
```

2.10 MIX Roster Item Capability Sharing

```
<iq from='juliet@example.com/balcony'
    id='bv1bs71f'
    type='get'>
  <query xmlns='jabber:iq:roster'>
    <annotate xmlns='urn:xmpp:mix:roster:0'/>
  </query>
</iq>
```

```
<item jid='romeo@example.net'/>
```

```
<item jid='balcony@example.net'>
  <channel xmlns='urn:xmpp:mix:roster:0' participant-id='123456'/>
</item>
```

https://xmpp.org/extensions/xep-0198.html

2.11 MAM Archive Support

2.12 Blocking Considerations

3 Internationalization Considerations

4 Security Considerations

https://xmpp.org/extensions/xep-0369.html
https://xmpp.org/extensions/xep-0369.html

5 IANA Considerations

6 XMPP Registrar Considerations

7 XML Schema

8 Acknowledgements