



XMPP

XEP-0090: Legacy Entity Time

Peter Saint-Andre
<mailto:xsf@stpeter.im>
<xmpp:peter@jabber.org>
<http://stpeter.im/>

2009-05-27
Version 1.2

Status	Type	Short Name
Obsolete	Historical	iq-time

This specification provides historical documentation of the legacy jabber:iq:time namespace, which has been deprecated in favor the urn:xmpp:time namespace defined in XEP-0202.

Legal

Copyright

This XMPP Extension Protocol is copyright © 1999 – 2020 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	Introduction	1
2	Definition	1
3	Examples	1
4	A Note on Time Formats	2
5	Security Considerations	2
6	IANA Considerations	2
7	XMPP Registrar Considerations	3
8	XML Schema	3

1 Introduction

Note: This specification has been deprecated in favor of [Entity Time \(XEP-0202\)](#)¹.

This document provides canonical documentation of the 'jabber:iq:time' namespace, which was long used by Jabber applications to discover the time at another entity's location. This document is of historical importance only, since it has been deprecated in favor of XEP-0202.

2 Definition

The 'jabber:iq:time' namespace provides a standard way for Jabber entities to exchange information about the local time (e.g., to "ping" another entity or check network latency). The information is communicated in a request/response pair using an <iq/> element that contains a <query/> scoped by the 'jabber:iq:time' namespace. The following children of the <query/> element are allowed in an IQ result:

- <utc/> -- The time (in UTC) according to the responding entity. The format SHOULD be "CCYYMMDDThh:mm:ss" (see below). This element is REQUIRED in an IQ result.
- <tz/> -- The time zone in which the responding entity is located. This can be either a three-letter acronym or the full natural-language name of the timezone.² This element is OPTIONAL in an IQ result.
- <display/> -- The time in a human-readable format. This element is OPTIONAL in an IQ result.

3 Examples

Listing 1: Querying Another Entity for the Time

```
<iq type='get'
  from='romeo@montague.net/orchard'
  to='juliet@capulet.com/balcony'
  id='time_1'>
  <query xmlns='jabber:iq:time' />
</iq>
```

Listing 2: A Response to the Query

```
<iq type='result'
  from='juliet@capulet.com/balcony'
```

¹XEP-0202: Entity Time <<https://xmpp.org/extensions/xep-0202.html>>.

²A list of time zone names and abbreviations is located at <<http://www.timeanddate.com/library/abbreviations/timezones/>>.

```
to='romeo@montague.net/orchard'  
id='time_1'  
<query xmlns='jabber:iq:time'  
  <utc>20020910T17:58:35</utc>  
  <tz>MDT</tz>  
  <display>Tue Sep 10 12:58:35 2002</display>  
</query>  
</iq>
```

The standard error conditions described in [Error Condition Mappings \(XEP-0086\)](#)³ apply (e.g., service unavailable if the entity does not support the namespace).

4 A Note on Time Formats

[XMPP Date and Time Profiles \(XEP-0082\)](#)⁴ defines the lexical representation of dates, times, and datetimes in Jabber protocols. Unfortunately, the 'jabber:iq:time' namespace predates that definition, and uses a datetime format ("CCYYMMDDThh:mm:ss") that is inconsistent with XEP-0082 and [XML Schema Part 2](#)⁵. Because a large base of deployed software uses the old format, this document specifies that applications using 'jabber:iq:time' SHOULD use the old format, not the format defined in XEP-0082. In addition, note well that the datetime provided in the <utc/> element is explicitly UTC and therefore SHOULD NOT include the ending 'Z' character required by [ISO 8601](#)⁶.

5 Security Considerations

There are no security features or concerns related to this document.

6 IANA Considerations

This document requires no interaction with the [Internet Assigned Numbers Authority \(IANA\)](#)⁷.

³XEP-0086: Error Condition Mappings <<https://xmpp.org/extensions/xep-0086.html>>.

⁴XEP-0082: XMPP Date and Time Profiles <<https://xmpp.org/extensions/xep-0082.html>>.

⁵XML Schema Part 2: Datatypes <<http://www.w3.org/TR/xmlschema11-2/>>.

⁶ISO 8601: Representation of Dates and Times (2000). This specification is not freely available; however, a good summary is located at <<http://www.cl.cam.ac.uk/~{ }mgk25/iso-time.html>>.

⁷The 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/>>.

7 XMPP Registrar Considerations

The 'jabber:iq:time' namespace is registered in the protocol namespaces registry maintained by the [XMPP Registrar](#)⁸.

8 XML Schema

```
<?xml version='1.0' encoding='UTF-8'?>

<xs:schema
  xmlns:xs='http://www.w3.org/2001/XMLSchema'
  targetNamespace='jabber:iq:time'
  xmlns='jabber:iq:time'
  elementFormDefault='qualified'>

  <xs:annotation>
    <xs:documentation>
      The protocol documented by this schema is defined in
      XEP-0090: http://www.xmpp.org/extensions/xep-0090.html

      NOTE: This protocol has been deprecated in favor of the
      Entity Time protocol specified in XEP-0202:
      http://www.xmpp.org/extensions/xep-0202.html
    </xs:documentation>
  </xs:annotation>

  <xs:element name='query'>
    <xs:complexType>
      <xs:sequence minOccurs='0'>
        <xs:element name='utc' type='xs:string' minOccurs='1' />
        <xs:element name='tz' type='xs:string' minOccurs='0' />
        <xs:element name='display' type='xs:string' minOccurs='0' />
      </xs:sequence>
    </xs:complexType>
  </xs:element>

</xs:schema>
```

⁸The 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/>.