



XMPP

XEP-0375: XMPP Compliance Suites 2016

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This document defines XMPP protocol compliance levels for 2016.

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1 Introduction

The [XMPP Standards Foundation \(XSF\)](#)¹ defines protocol suites for the purpose of compliance testing and software certification. This document specifies the 2016 compliance levels for XMPP clients and servers; it is hoped that this document will advance the state of the art, and provide guidance and eventual certification to XMPP client and server authors. Unless explicitly noted, support for the listed specifications is REQUIRED for compliance purposes.

2 Compliance Levels

2.1 Core Compliance Suite

Feature

RFC 6120 RFC 6120: Extensible Messaging and Presence Protocol (XMPP): Core <<http://tools.ietf.org/html/rfc6120>>

RFC 6122 RFC 6122: Extensible Messaging and Presence Protocol (XMPP): Address Format <<http://tools.ietf.org/html/rfc6122>>

Feature discovery

¹The XMPP Standards Foundation (XSF) is an independent, non-profit membership organization that develops open extensions to the IETF's Extensible Messaging and Presence Protocol (XMPP). For further information, see <<https://xmpp.org/about/xmpp-standards-foundation>>.

Feature

Feature broadcasts

Server Extensibility

Feature

Event publishing

2.2 Web Compliance Suite

To be considered XMPP web compliant, all line items from the core compliance suite above must be met, as well as all items in this suite.

Feature	Core Server	Core Client	Advanced Server	Advanced Client	Providers
Web Connection Mechanisms	<input type="checkbox"/> †	<input type="checkbox"/> §	<input type="checkbox"/> †	<input type="checkbox"/> §	RFC 7395 RFC 7395: An Ex- tensible Messag- ing and Presence Protocol (XMPP) Subpro- tocol for Web- Socket < http://tools.ietf.org/html/rfc7395 > BOSH (XEP- 0124) XEP- 0124: Bidirectional- streams Over Syn- chronous HTTP < https://xmpp.org/extensions/0124.html >, and XMPP Over BOSH (XEP- 0206) XEP- 0206: XMPP Over BOSH < https://xmpp.org/extensions/0206.html >.

2.3 IM Compliance Suite

To be considered XMPP IM compliant, all line items from the core compliance suite above must be met, as well as all items in this suite.

Feature

RFC 6121 RFC 6121: Extensible Messaging and Presence Protocol (XMPP): Instant Messaging and Presence <[http](http://)>
User Avatars

Feature

Outbound Message Synchronization

Feature

User Blocking

Feature

Group Chat

Feature

Bookmarks

Session Resumption

Stanza Acknowledgements

Feature

History Storage / Retrieval

2.4 Mobile Compliance Suite

To be considered XMPP mobile compliant, all line items from the core compliance suite above must be met, as well as all items in this suite.

Feature	Core Server	Core Client	Advanced Server	Advanced Client	Providers
Session Resumption	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stream Management (XEP-0198) XEP-0198: Stream Management < https://xmpp.org/extensions/0198.html >.

Feature	Core Server	Core Client	Advanced Server	Advanced Client	Providers
Stanza Acknowledgements	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Stream Management (XEP-0198) XEP-0198: Stream Management < https://xmpp.org/extensions/0198.html >.
Client State Indiciation	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Client State Indiciation (XEP-0352) XEP-0352: Client State Indiciation < https://xmpp.org/extensions/0352.html >.
Third Party Push Notifications	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> †	<input type="checkbox"/>	Push Notifications (XEP-0357) XEP-0357: Push Notifications < https://xmpp.org/extensions/0357.html >.

* Necessary to support Personal Eventing Protocol (PEP).

† Support can be enabled via an external component or an internal server module/plugin.

‡ Support for the Entity Use Cases and Occupant Use Cases is REQUIRED; support for the remaining use cases is RECOMMENDED.

§ Only one of the recommended providers must be implemented for compliance.

3 Implementation Notes

Some of the protocol specifications referenced herein have their own dependencies; developers need to consult the relevant specifications for further information.

4 Security Considerations

This document introduces no additional security considerations above and beyond those defined in the documents on which it depends.

5 IANA Considerations

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

6 XMPP Registrar Considerations

This document requires no interaction with the [XMPP Registrar](#)³.

7 Acknowledgements

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²The 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/>.

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/>.